**NORTH
JACKSON
COMPANY**

1004 Harbor Hills Drive,
Suite 102
P.O. Box 218
Marquette, MI 49855
(906) 225-6787

Eagle Project

Environmental Baseline Study
Hydrology Report

Volume III
Compendium of Laboratory Reports
November 2002 – May 2005

Prepared for

**Kennecott Minerals Company
And Golder Associates Inc.
September 2005**

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Illinois State Geological Survey
ISGS 11/18/04
ISGS 1/4/05

Severn Trent Laboratories
STL 12/18/02
STL 3/10/03
STL 3/28/05
STL 6/13/05

LABORATORY REPORTS

Soil Boring Samples

Compendium of Laboratory Reports
Soil Boring Sample Identification
March - October 2004
Eagle Project

Soil Boring Location	Sample ID (Boring No.)	KEX ID (Sample No.)	Depth (ft)	Sample Date	Note
QAL001	QAL001B	EAG-1001076	60	3/24/04	
QAL001	QAL001B	EAG-1001077	70	3/24/04	
QAL001	QAL001B	EAG-1001078	83	3/24/04	
QAL002	QAL002B	EAG-1001071	56-58	3/18/04	
QAL002	QAL002B	EAG-1001072	118-120	3/18/04	
QAL002	QAL002B	EAG-1001079	136	3/19/04	
QAL003	QAL003B	EAG-1001073	28-30	3/22/04	
QAL004	QAL004B	EAG-1001080	15	3/30/04	
QAL004	QAL004B	EAG-1001081	52	3/30/04	
QAL004	QAL004B	EAG-1001074	98-100	3/30/04	
QAL004	QAL004B	EAG-1001082	142	3/30/04	
QAL005	QAL005B	EAG-1001083	75	4/1/04	
QAL005	QAL005B	EAG-1001084	121	4/1/04	
QAL006	QAL006B	EAG-1001085	23	4/2/04	
QAL006	QAL006B	EAG-1001086	71	4/2/04	
QAL006	QAL006B	EAG-1001075	118-120	4/2/04	Sample rejected because lab noted sample was disturbed.
QAL007	QALB007050	EAG-1001276	50	10/7/2004	
QAL007	QALB007075	EAG-1001277	75	10/7/2004	
QAL007	QALB007177	EAG-1001278	177	10/7/2004	
QAL007	QALB007197	EAG-1001279	197	10/7/2004	
QAL008	QALB008010	EAG-1001280	10	9/30/2004	
QAL008	QALB008030	EAG-1001281	30	9/30/2004	
QAL008	QALB008084	EAG-1001282	84	9/30/2004	
QAL008	QALB008088	EAG-1001283	88	9/30/2004	
QAL008	QALB008107	EAG-1001284	107-109	9/30/2004	
QAL008	QALB008117	EAG-1001285	117	9/30/2004	
QAL009	QALB009037	EAG-1001286	37	9/26/2004	
QAL009	QALB009102	EAG-1001287	102	9/26/2004	
QAL009	QALB009145	EAG-1001288	145	9/26/2004	
QAL009	QALB009157	EAG-1001289	157	9/26/2004	
QAL009	QALB009163	EAG-1001290	163	9/26/2004	
QAL009	QALB009185	EAG-1001291	185	9/26/2004	
QAL009	QALB009238	EAG-1001292	238	9/26/2004	
QAL009	QALB009254	EAG-1001293	254	9/26/2004	
QAL010	QALB010043	EAG-1001294	43	10/9/2004	
QAL010	QALB010102	EAG-1001295	102	10/9/2004	
QAL010	QALB010134	EAG-1001296	134	10/9/2004	
QAL010	QALB010178	EAG-1001297	178	10/9/2004	
QAL011	QALB011039	EAG-1001298	39	10/11/2004	
QAL013	QALB013017	EAG-1001299	17	9/24/2004	
QAL013	QALB013043	EAG-1001300	43	9/24/2004	
QAL013	QALB013067	EAG-1001301	67	9/24/2004	
QAL013	QALB013068	EAG-1001302	67-69	9/24/2004	
QAL013	QALB013121	EAG-1001303	121	9/24/2004	
QAL013	QALB013144	EAG-1001304	144	9/24/2004	
QAL014	QALB014037	EAG-1001305	37	9/22/2004	
QAL014	QALB014108	EAG-1001306	108-110	9/22/2004	
QAL014	QALB014137	EAG-1001307	137	9/22/2004	
QAL023	QALB023016	EAG-1001308	16	9/22/2004	
QAL023	QALB023028	EAG-1001309	28	9/22/2004	
QAL023	QALB023034	EAG-1001310	34	9/22/2004	

Compendium of Laboratory Reports
Soil Boring Samples
Grain Size Distribution Calculations
Eagle Project

Location	Depth	Data Shown	Grain Size Distribution (Percentage by Weight)															
			Gravel						Coarse Sand	Medium Sand		Fine Sand		Silt	Clay	Fines (Silt + Clay)	Total
			2"	1.5"	1"	3/4"	3/8"	#4	#10	#20	#40	#100	#200	0.0039"			
QAL001	60	% passing						100.0	99.7	99.1	95.8	36.6	18.5				
		% retained						0.0	0.3		3.9		77.3			18.5	100.0
QAL001	70	% passing					100.0	99.5	99.0	98.8	98.3	95.8	94.7	12.0			
		% retained						0.5	0.5		0.7		3.6	82.7	12.0	94.7	100.0
QAL001	83	% passing			100.0	99.8	99.5	98.4	95.2	90.4	82.3	28.0	15.0				
		% retained						1.6	3.2		12.9		67.3			15.0	100.0
QAL002	56-58	% passing				100.0	98.5	96.9	95.6	92.0	77.9	15.9	6.1				
		% retained						3.1	1.3		17.7		71.8			6.1	100.0
QAL002	118-120	% passing						100.0	100.0	100.0	99.7	97.7	96.8	62.0	0.0		
		% retained						0.0	0.0		0.3		2.9	34.8	62.0	96.8	100.0
QAL002	136	% passing						100.0	100.0	100.0	99.1	36.5	13.2				
		% retained						0.0	0.0		0.9		85.9			13.2	100.0
QAL003	28-30	% passing						100.0	100.0	99.9	99.0	93.0	92.1	17.0			
		% retained						0.0	0.0		1.0		6.9	75.1	17.0	92.1	100.0
QAL004	15	% passing		100.0	95.3	95.3	91.8	84.7	74.1	55.3	30.6	8.7	6.5				
		% retained						15.3	10.6		43.5		24.1			6.5	100.0
QAL004	52	% passing					100.0	99.9	99.0	98.1	95.9	57.5	15.9				
		% retained						0.1	0.9		3.1		80.0			15.9	100.0
QAL004	98-100	% passing						100.0	100.0	100.0	100.0	100.0	99.8	7.0			
		% retained						0.0	0.0		0.0		0.2	92.8	7.0	99.8	100.0
QAL004	142	% passing				100.0	99.5	97.4	90.3	82.3	72.6	30.7	17.5				
		% retained						2.6	7.1		17.7		55.1			17.5	100.0
QAL005	75	% passing						100.0	100.0	100.0	100.0	71.4	25.9	0.5			
		% retained						0.0	0.0		0.0		74.1	25.4	0.5	25.9	100.0
QAL005	121	% passing	91.9	91.9	89.7	89.2	82.5	74.5	62.7	49.8	35.0	4.0	2.3				
		% retained						25.5	11.8		27.7		32.7			2.3	100.0
QAL006	23	% passing						100.0	99.7	96.3	80.7	8.8	1.4				
		% retained						0.0	0.3		19.0		79.3			1.4	100.0
QAL006	71	% passing						100.0	100.0	100.0	99.8	28.3	3.8				
		% retained						0.0	0.0		0.2		96.0			3.8	100.0
QAL007	50	% passing			100.0	99.1	99.1	98.9	98.6	97.3	92.2	19.8	4.9				
		% retained						1.1	0.3		6.4		87.3			4.9	100.0
QAL007	75	% passing						100.0	100.0	100.0	99.9	81.7	38.3				
		% retained						0.0	0.0		0.1		61.6			38.3	100.0
QAL007	177	% passing				100.0	99.9	99.6	98.4	86.5	52.7	4.5	2.7				
		% retained						0.4	1.2		45.7		50.0			2.7	100.0
QAL007	197	% passing				100.0	99.6	98.9	98.3	97.3	94.3	68.9	57.1	10.0			
		% retained						1.1	0.6		4.0		37.2	47.1	10.0	57.1	100.0
QAL008	10	% passing				100.0	97.1	96.3	95.4	93.6	83.4	5.4	0.7				
		% retained						3.7	0.9		12.0		82.7			0.7	100.0
QAL008	30	% passing		100.0	94.9	94.9	94.3	93.6	92.1	90.3	68.0	6.4	4.4				
		% retained						6.4	1.5		24.1		63.6			4.4	100.0
QAL008	84	% passing						100.0	100.0	100.0	99.9	95.6	83.8	7.0			
		% retained						0.0	0.0		0.1		16.1	76.8	7.0	83.8	100.0
QAL008	88	% passing						100.0	100.0	99.9	99.3	19.2	9.6				
		% retained						0.0	0.0		0.7		89.7			9.6	100.0
QAL008	107-109	% passing						100.0	100.0	99.9	99.8	98.2	97.1	38.0			
		% retained						0.0	0.0		0.2		2.7	59.1	38.0	97.1	100.0
QAL008	117	% passing				100.0	99.8	99.6	99.4	96.0	77.9	10.7	3.4				
		% retained						0.4	0.2		21.5		74.5			3.4	100.0
QAL009	37	% passing				100.0	99.9	99.9	99.2	97.2	88.4	17.7	3.5				
		% retained						0.1	0.7		10.8		84.9			3.5	100.0
QAL009	102	% passing						100.0	100.0	100.0	98.6	17.5	4.3				
		% retained						0.0	0.0		1.4		94.3			4.3	100.0
QAL009	145	% passing					100.0	99.7	95.2	80.9	63.0	11.8	5.2				
		% retained						0.3	4.5		32.2		57.8			5.2	100.0
QAL009	157	% passing				100.0	99.0	98.8	98.7	98.5	97.7	93.6	92.4	78.0			
		% retained						1.2	0.1		1.0		5.3	14.4	78.0	92.4	100.0
QAL009	163	% passing						100.0	99.8	95.4	83.0	33.3	25.5				
		% retained						0.0	0.2		16.8		57.5			25.5	100.0
QAL009	185	% passing						100.0	100.0	100.0	99.8	61.6	28.4	6.0			
		% retained						0.0	0.0		0.2		71.4	22.4	6.0	28.4	100.0
QAL009	238	% passing						100.0	100.0	99.9	99.4	96.6	88.8	6.0			
		% retained						0.0	0.0		0.6		10.6	82.8	6.0	88.8	100.0
QAL009	254	% passing		100.0	96.3	89.8	80.9	71.2	62.7	56.9	51.2	30.4	24.1	9.0			
		% retained						28.8	8.5		11.5		27.1	15.1	9.0	24.1	100.0
QAL010	43	% passing					100.0	99.3	98.4	96.4	91.1	20.7	8.5				
		% retained						0.7	0.9		7.3		82.6			8.5	100.0
QAL010	102	% passing				100.0	95.9	92.5	89.8	86.1	73.5	13.2	6.4				
		% retained						7.5	2.7		16.3		67.1			6.4	100.0
QAL010	134	% passing				100.0	98.9	97.2	95.7	93.6	90.8	78.1	69.9	35.0			
		% retained						2.8	1.5		4.9		20.9	34.9	35.0	69.9	100.0
QAL010	178	% passing		100.0	97.5	93.5	79.4	69.5	60.5	51.1	39.1	7.7	4.4				
		% retained						30.5	9.0		21.4		34.7			4.4	100.0

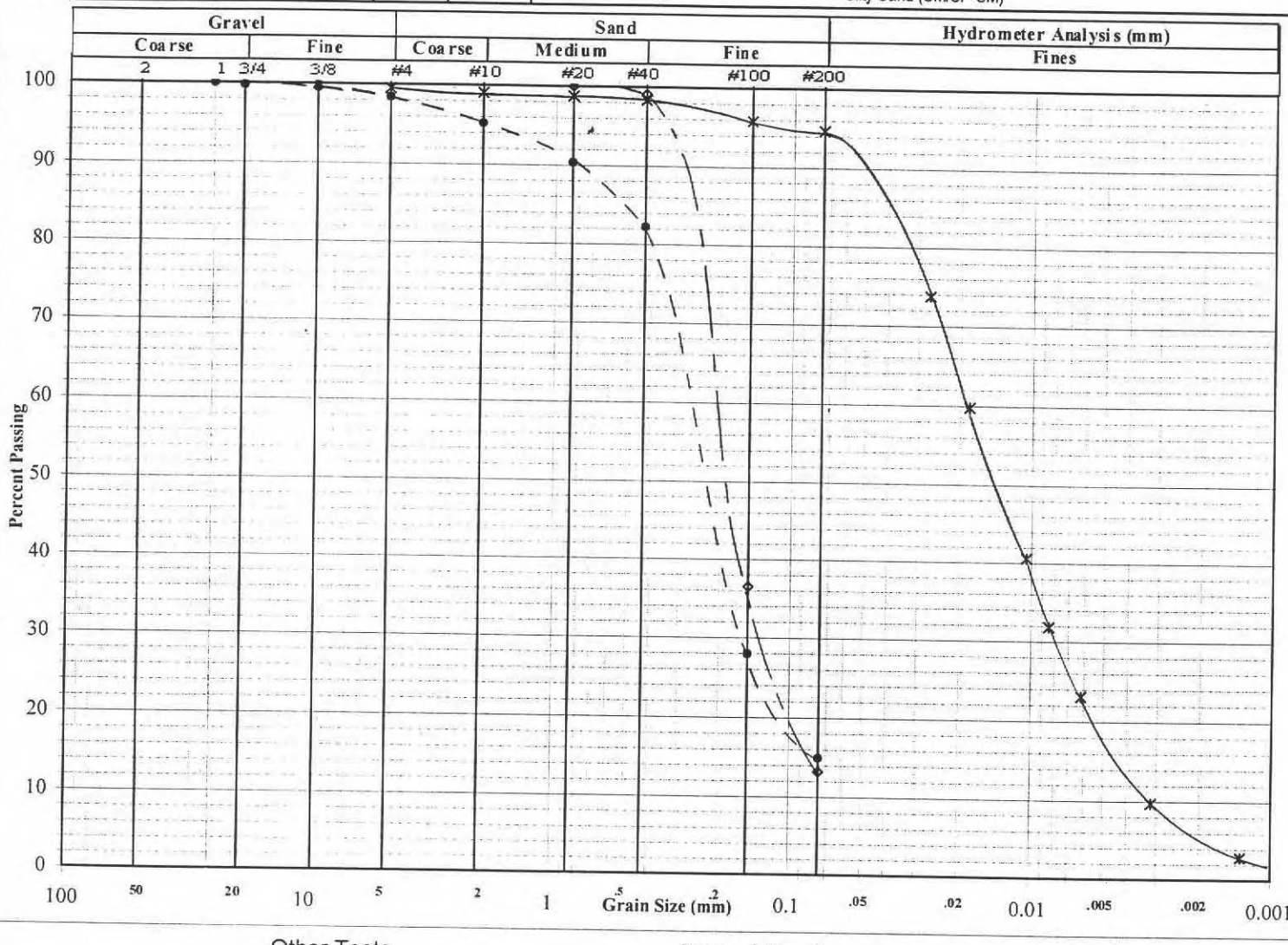
Compendium of Laboratory Reports
Soil Boring Samples
Grain Size Distribution Calculations
Eagle Project

Location	Depth	Data Shown	Grain Size Distribution (Percentage by Weight)														
			Gravel						Coarse Sand	Medium Sand		Fine Sand		Silt	Clay	Fines (Silt + Clay)	Total
			2"	1.5"	1"	3/4"	3/8"	#4	#10	#20	#40	#100	#200	0.0039"			
QAL013	17	% passing				100.0	98.8	98.5	96.7	93.0	74.4	5.9	2.6				
		% retained						1.5	1.8		22.3		71.8			2.6	100.0
QAL013	43	% passing					100.0	99.7	99.6	98.9	97.5	27.9	8.7				
		% retained						0.3	0.1		2.1		88.8			8.7	100.0
QAL013	67	% passing						100.0	100.0	100.0	100.0	95.0	72.2	4.0			
		% retained						0.0	0.0		0.0		27.8	68.2	4.0	72.2	100.0
QAL013	121	% passing			100.0	97.5	92.0	82.8	65.5	48.7	31.6	4.0	1.9				
		% retained						17.2	17.3		33.9		29.7			1.9	100.0
QAL013	144	% passing				100.0	95.8	92.8	88.8	84.9	78.9	38.5	25.2	6.0			
		% retained						7.2	4.0		9.9		53.7	19.2	6.0	25.2	100.0
QAL014	37	% passing						100.0	100.0	99.9	98.8	33.0	3.1				
		% retained						0.0	0.0		1.2		95.7			3.1	100.0
QAL014	108-110	% passing						100.0	100.0	100.0	100.0	99.9	99.8	47.0			
		% retained						0.0	0.0		0.0		0.2	52.8	47.0	99.8	100.0
QAL014	137	% passing		100.0	98.8	96.9	94.6	92.0	87.7	78.3	58.9	9.0	3.8				
		% retained						8.0	4.3		28.8		55.1			3.8	100.0
QAL023	16	% passing						100.0	100.0	100.0	99.5	95.7	94.8	28.0			
		% retained						0.0	0.0		0.5		4.7	66.8	28.0	94.8	100.0
QAL023	28	% passing						100.0	99.5	97.0	87.3	16.9	8.0				
		% retained						0.0	0.5		12.2		79.3			8.0	100.0
QAL023	34	% passing		100.0	97.8	96.4	93.3	88.6	84.6	80.3	74.6	44.8	33.4	11.0			
		% retained						11.4	4.0		10.0		41.2	22.4	11.0	33.4	100.0

Grain Size Distribution ASTM D422

Project:	**Eagle Soils**	Job No. :	**5004**
Reported To:	**North Jackson Company**	Test Date:	4/9/04
		Report Date:	4/19/04

	Location/ Boring No.	Sample No.	Depth (ft)	Sample Type	Soil Classification
✕	QAL-001B	EAG-1001077	70	Bag	Silt (ML/CL-ML)
●	QAL-001B	EAG-1001078	83	Bag	Silty Sand (SM)
◇	QAL-002B	EAG-1001079	136	Bag	Silty Sand (SM/SP-SM)



Other Tests

	✕	●	◇
Liquid Limit			
Plastic Limit			
Plasticity Index			
Water Content			
Dry Density (PCF)			
Specific Gravity	2.67*		
Porosity			
Organic Content			
pH			
Shrinkage Limit			
Penetrometer			
Qu (PSF)			

Percent Passing

	✕	●	◇
Mass (g)	537	3871	2592
2"			
1.5"			
1"		100.0	
3/4"		99.8	
3/8"	100.0	99.5	
#4	99.5	98.4	
#10	99.0	95.2	
#20	98.8	90.4	100.0
#40	98.3	82.3	99.1
#100	95.8	28.0	36.5
#200	94.7	15.0	13.2

	✕	●	◇
D_{60}			
D_{30}			
D_{10}			
C_u			
C_C			

Remarks:

*Assumed Value

9301 Bryant Ave. South Suite 107

SOIL ENGINEERING TESTING, INC.

Bloomington, Minnesota 55420-3436

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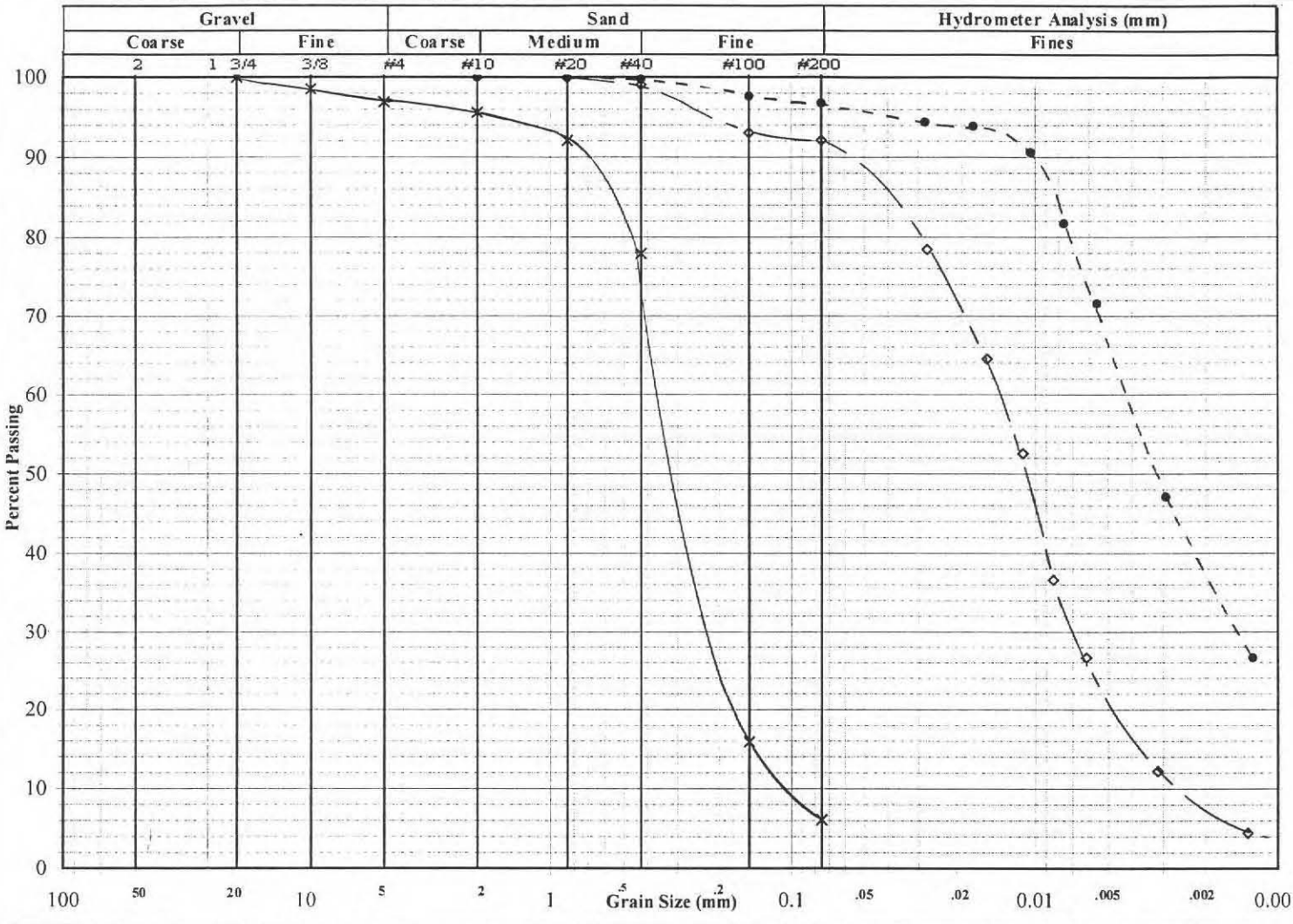
Grain Size Distribution ASTM D422

Job No. : **5004**

Project: **Eagle Soils** | Test Date: 4/9/04

Reported To: **North Jackson Company** | Report Date: 4/19/04

	Location/ Boring No.	Sample No.	Depth (ft)	Sample Type	Soil Classification
✳	QAL002B	EAG-1001071	56-58	3T	Sand w/silt & a trace of gravel, fine grained (SP-SM)
●	QAL002B	EAG-1001072	118-120	3T	Lean Clay (CL)
◇	QAL003B	EAG-1001073	28-30	3T	Silty Clay (CL-ML)



Other Tests

	✳	●	◇
Liquid Limit			
Plastic Limit			
Plasticity Index			
Water Content	14.2	32.4	26.4
Dry Density (PCF)			
Specific Gravity		2.67*	2.67*
Porosity			
Organic Content			
pH			
Shrinkage Limit			
Penetrometer			
Qu (PSF)			

Percent Passing

	✳	●	◇
Mass (g)	2855	395	514
2"			
1.5"			
1"			
3/4"	100.0		
3/8"	98.5		
#4	96.9		
#10	95.6	100.0	100.0
#20	92.0	100.0	99.9
#40	77.9	99.7	99.0
#100	15.9	97.7	93.0
#200	6.1	96.8	92.1

	✳	●	◇
D_{60}			
D_{30}			
D_{10}			
C_u			
C_C			

Remarks:

*Assumed Value

9301 Bryant Ave. South Suite 107

EOIL ENGINEERING ESTING, INC.

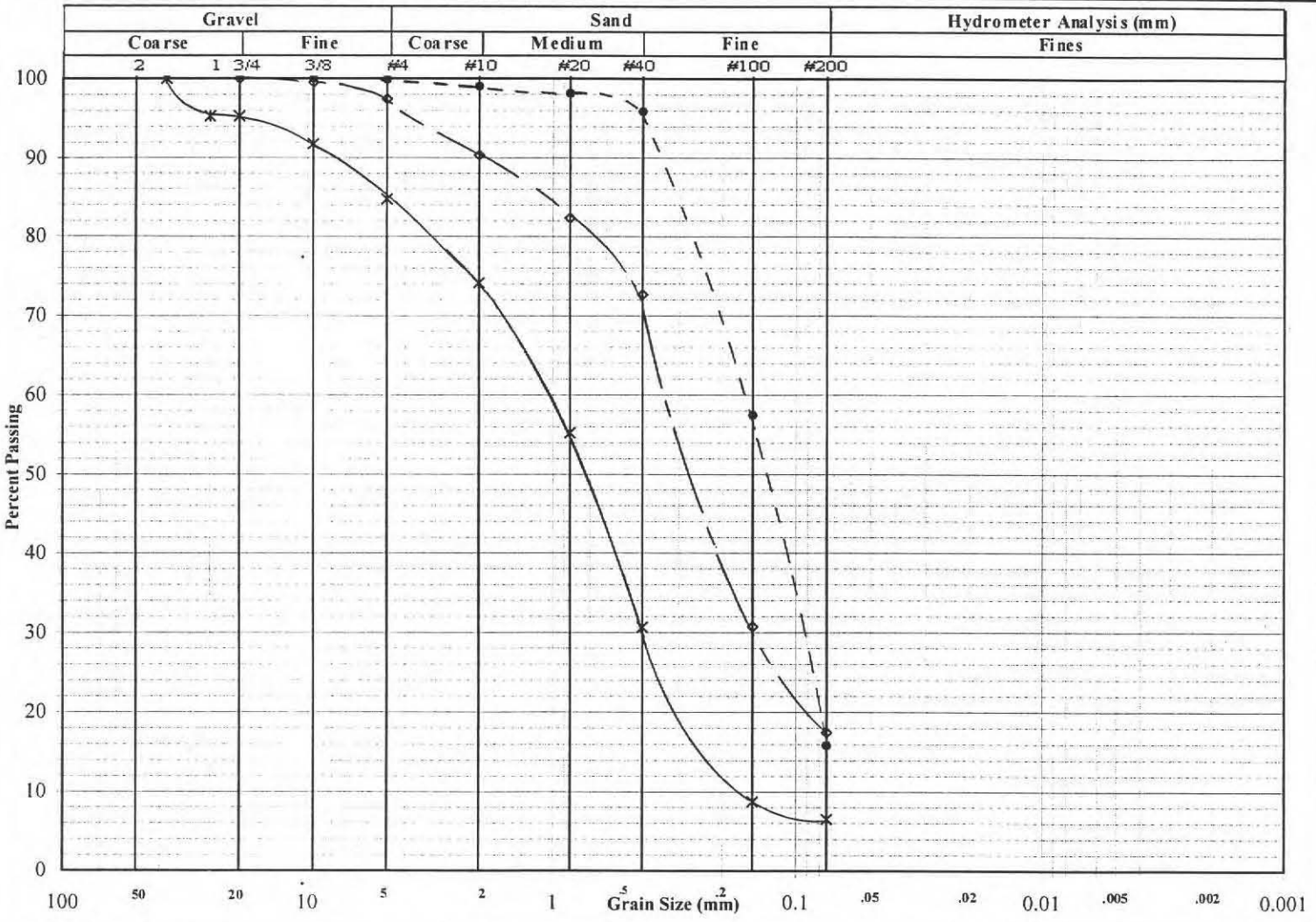
Bloomington, Minnesota 55420-3436

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Grain Size Distribution ASTM D422

Project:	**Eagle Soils**	Job No. :	**5004**
Reported To:	**North Jackson Company**	Test Date:	4/9/04
		Report Date:	4/19/04

	Location/ Boring No.	Sample No.	Depth (ft)	Sample Type	Soil Classification
✳	QAL-004B	EAG-1001080	15	Bag	Sand w/silt and gravel (SP-SM)
●	QAL-004B	EAG-1001081	52	Bag	Silty Sand (SM)
◇	QAL-004B	EAG-1001082	142	Bag	Silty Sand w/a trace of gravel (SM)



Other Tests

	✳	●	◇
Liquid Limit			
Plastic Limit			
Plasticity Index			
Water Content	11.0	16.5	11.3
Dry Density (PCF)			
Specific Gravity			
Porosity			
Organic Content			
pH			
Shrinkage Limit			
Penetrometer			
Qu (PSF)			

Percent Passing

	✳	●	◇
Mass (g)	1696	2520	1717
2"			
1.5"	100.0		
1"	95.3		
3/4"	95.3		100.0
3/8"	91.8	100.0	99.5
#4	84.7	99.9	97.4
#10	74.1	99.0	90.3
#20	55.3	98.1	82.3
#40	30.6	95.9	72.6
#100	8.7	57.5	30.7
#200	6.5	15.9	17.5

	✳	●	◇
D_{60}			
D_{30}			
D_{10}			
C_u			
C_C			

Remarks:

*Assumed Value

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EET SOIL ENGINEERING TESTING, INC.

Bloomington, Minnesota 55420-3436

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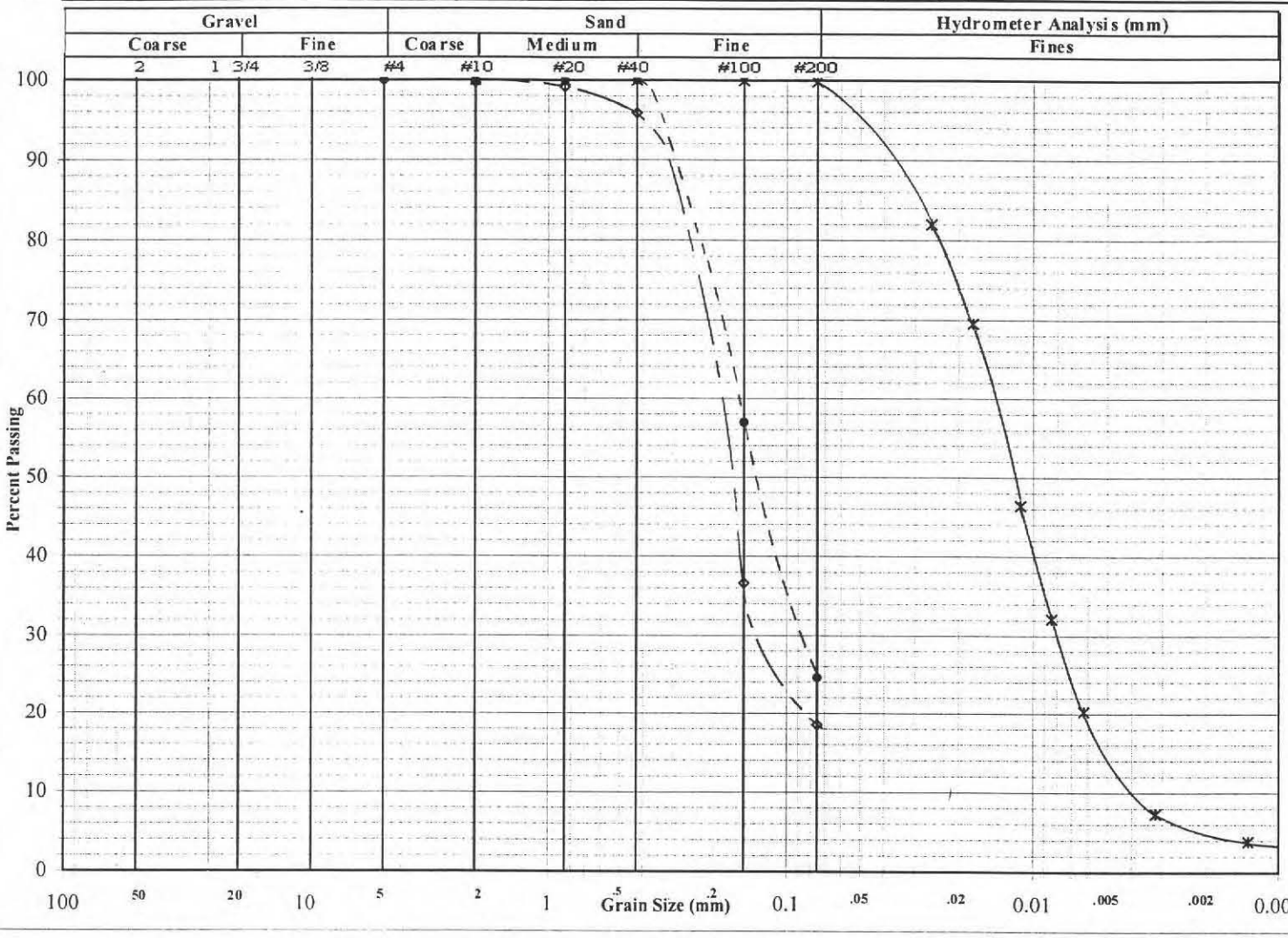
Grain Size Distribution ASTM D422

Job No. : **5004**

Project: **Eagle Soils** | Test Date: 4/9/04

Reported To: **North Jackson Company** | Report Date: 4/19/04

	Location/ Boring No.	Sample No.	Depth (ft)	Sample Type	Soil Classification
✳	QAL-004B	EAG-1001074	98-100	3T	Silty Clay (CL-ML)
●	QAL-006B	EAG-1001075	118-120	3T	Silty Sand (SM)
◇	QAL-001B	EAG-1001076	60	Bag	Silty Sand (SM)



Other Tests

	✳	●	◇
Liquid Limit			
Plastic Limit			
Plasticity Index			
Water Content	29.1	17.2	10.1
Dry Density (PCF)			
Specific Gravity	2.67*		
Porosity			
Organic Content			
pH			
Shrinkage Limit			
Penetrometer			
Qu (PSF)			

Percent Passing

	✳	●	◇
Mass (g)	299	306	3542
2"			
1.5"			
1"			
3/4"			
3/8"			
#4			100.0
#10	100.0	100.0	99.7
#20	100.0	100.0	99.1
#40	100.0	100.0	95.8
#100	100.0	57.0	36.6
#200	99.8	24.6	18.5

	✳	●	◇
D_{60}			
D_{30}			
D_{10}			
C_u			
C_C			

Remarks:

*Assumed Value

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Bloomington, Minnesota 55420-3436

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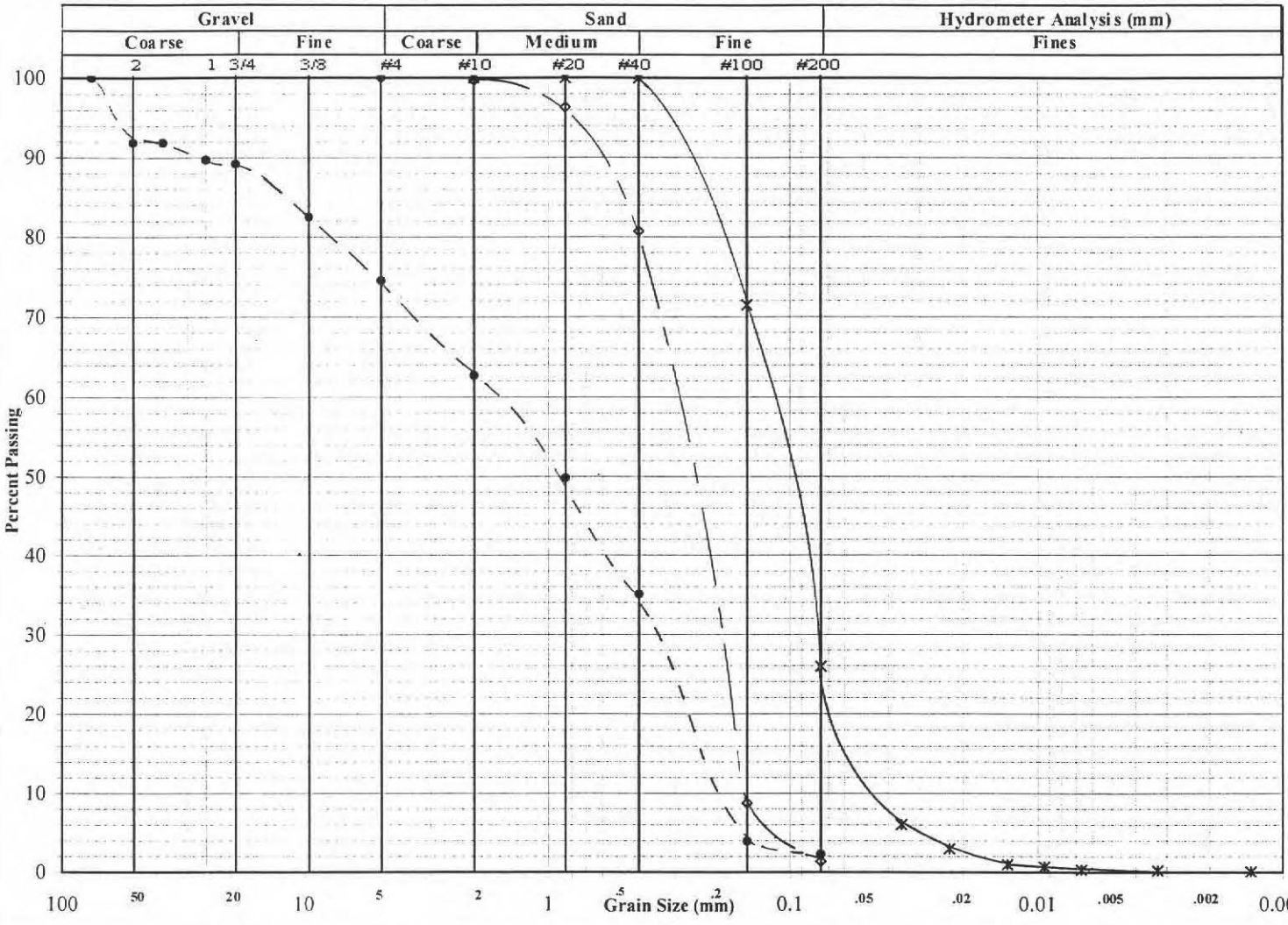
Grain Size Distribution ASTM D422

Job No. : **5004**

Project: **Eagle Soils** | Test Date: 4/9/04

Reported To: **North Jackson Company** | Report Date: 4/19/04

	Location/ Boring No.	Sample No.	Depth (ft)	Sample Type	Soil Classification
✳	QAL-005B	EAG-1001083	75	Bag	Silty Sand (SM)
●	QAL-005B	EAG-1001084	121	Bag	Sand w/gravel, fine to medium grained (SP)
◇	QAL-006B	EAG-1001085	23	Bag	Sand, fine grained (SP)



Other Tests

	✳	●	◇
Liquid Limit			
Plastic Limit			
Plasticity Index			
Water Content		10.6	18.4
Dry Density (PCF)			
Specific Gravity	2.67*	.	
Porosity			
Organic Content			
pH			
Shrinkage Limit			
Penetrometer			
Qu (PSF)			

Percent Passing

	✳	●	◇
Mass (g)	554	2885	1998
2"		91.9	
1.5"		91.9	
1"		89.7	
3/4"		89.2	
3/8"		82.5	
#4		74.5	100.0
#10	100.0	62.7	99.7
#20	100.0	49.8	96.3
#40	100.0	35.0	80.7
#100	71.4	4.0	8.8
#200	25.9	2.3	1.4

	✳	●	◇
D_{60}			
D_{30}			
D_{10}			
C_u			
C_C			

Remarks:

*Assumed Value

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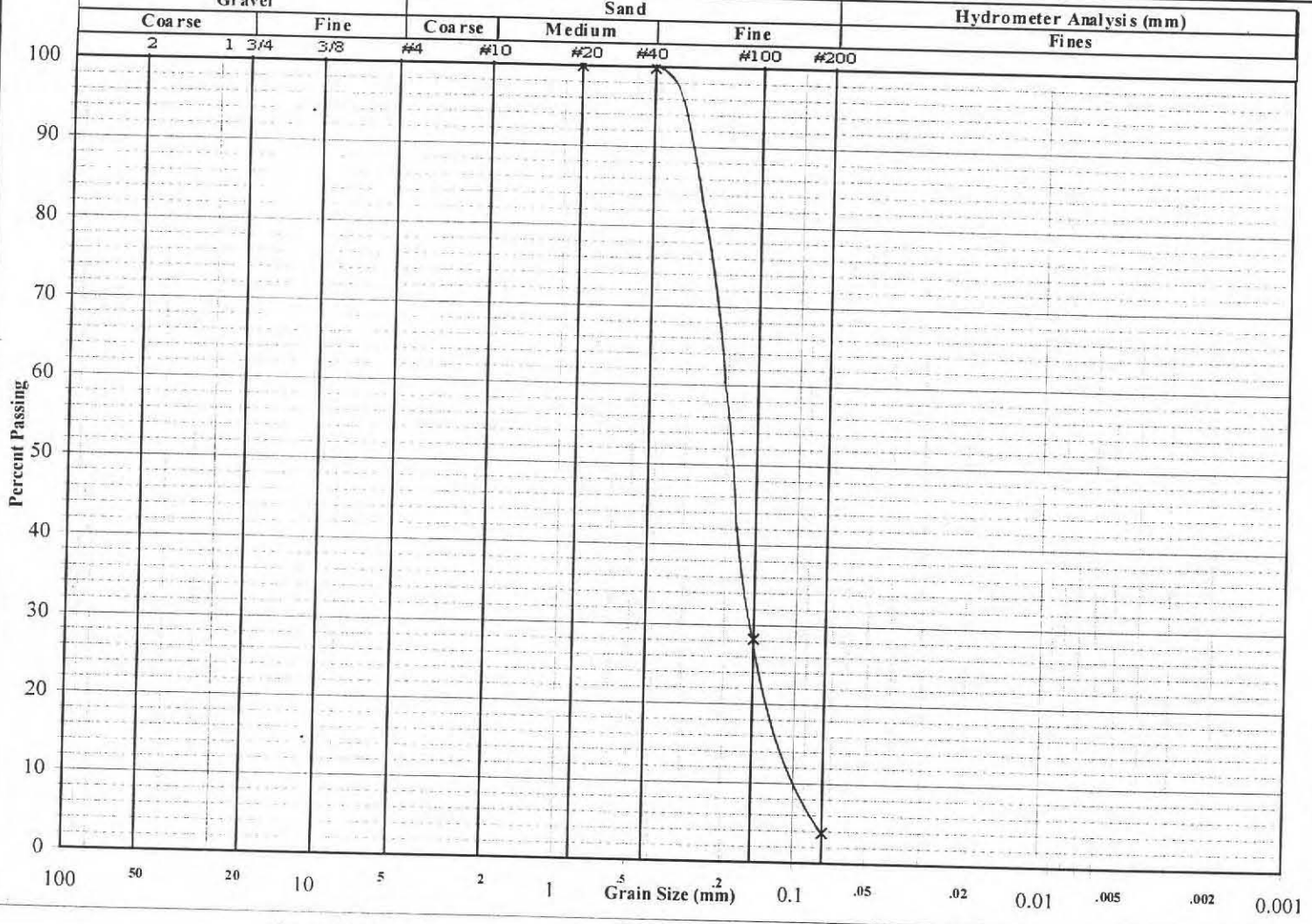
Bloomington, Minnesota 55420-3436

File: E.xls

Grain Size Distribution ASTM D422

Project:	**Eagle Soils**	Job No. :	**5004**
Reported To:	**North Jackson Company**	Test Date:	4/9/04
		Report Date:	4/19/04

	Location/ Boring No.	Sample No.	Depth (ft)	Sample Type	Soil Classification
✳	QAL-006B	EAG-1001086	71	Bag	Sand, fine grained (SP)
●					
◇					



Other Tests

	✳	●	◇
Liquid Limit			
Plastic Limit			
Plasticity Index			
Water Content	20.6		
Dry Density (PCF)			
Specific Gravity			
Porosity			
Organic Content			
pH			
Shrinkage Limit			
Penetrometer			
Qu (PSF)			

Percent Passing

Mass (g)	✳	●	◇
	1834		
2"			
1.5"			
1"			
3/4"			
3/8"			
#4			
#10			
#20	100.0		
#40	99.8		
#100	28.3		
#200	3.8		

	✳	●	◇
D_{60}			
D_{30}			
D_{10}			
C_u			
C_C			

Remarks:

*Assumed Value

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Bloomington, Minnesota 55420-3436

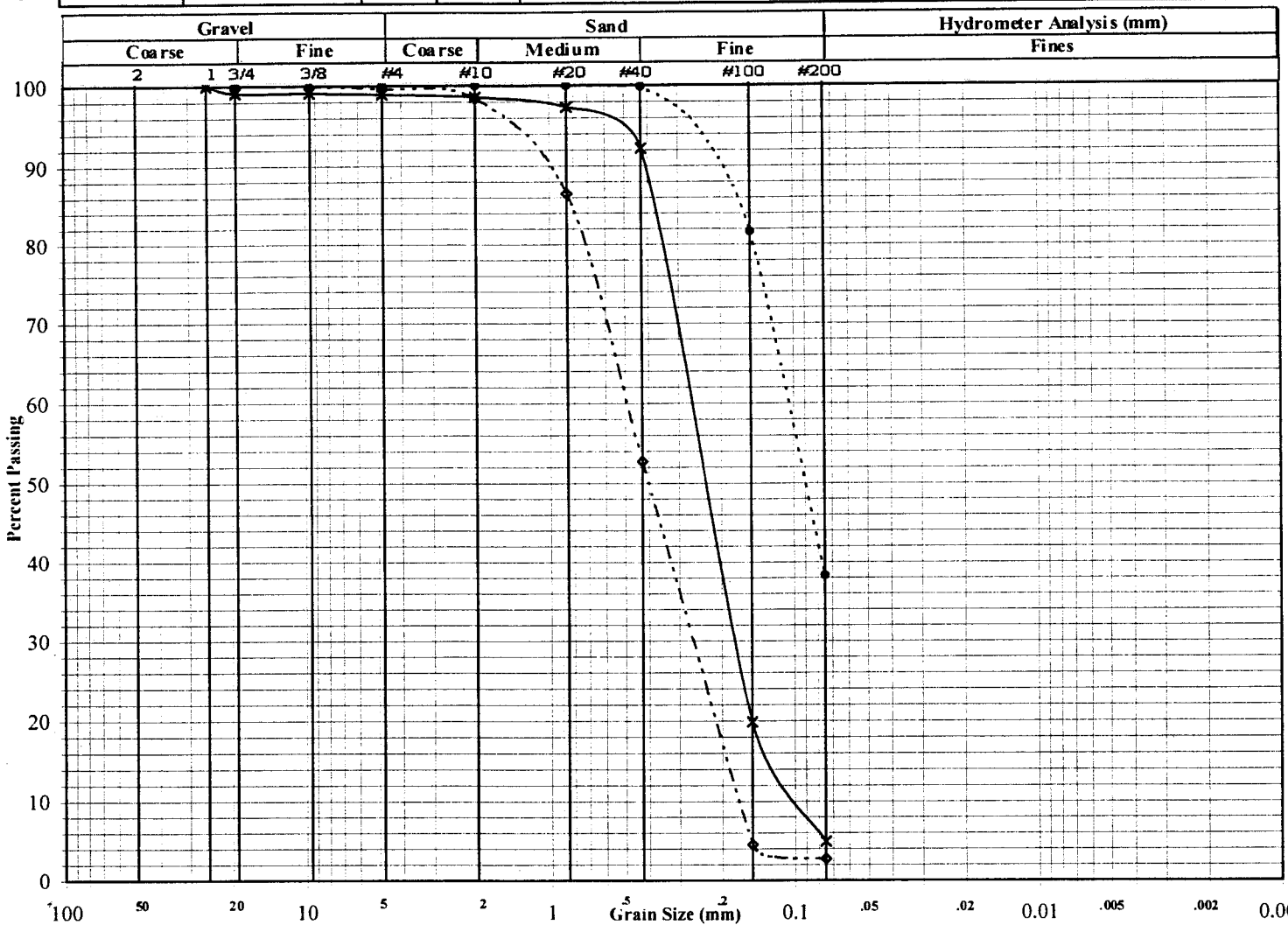
Grain Size Distribution ASTM D422

Job No. : **5004-B**

Project: **Eagle** | Test Date: 11/24/04

Reported To: **North Jackson Company** | Report Date: 11/30/04

	Location/ Boring No.	Sample No.	Depth (ft)	Sample Type	Soil Classification
X	QAL007	EAG-1001276	50	Bag	Sand, fine grained (SP/SP-SM)
●	QAL007	EAG-1001277	75	Bag	Silty Sand (SM)
◇	QAL007	EAG-1001278	177	Bag	Sand, fine to medium grained (SP)



Other Tests

	X	●	◇
Liquid Limit			
Plastic Limit			
Plasticity Index			
Water Content	5.4	19.4	16.3
Dry Density (PCF)			
Specific Gravity			
Porosity			
Organic Content			
pH			
Shrinkage Limit			
Penetrometer			
Qu (PSF)			

Percent Passing

	X	●	◇
Mass (g)	2197	2147	1984
2"			
1.5"			
1"	100.0		
3/4"	99.1		100.0
3/8"	99.1		99.9
#4	98.9	100.0	99.6
#10	98.6	100.0	98.4
#20	97.3	100.0	86.5
#40	92.2	99.9	52.7
#100	19.8	81.7	4.5
#200	4.9	38.3	2.7

	X	●	◇
D_{60}			
D_{30}			
D_{10}			
C_u			
C_C			

Remarks:

*Assumed Value

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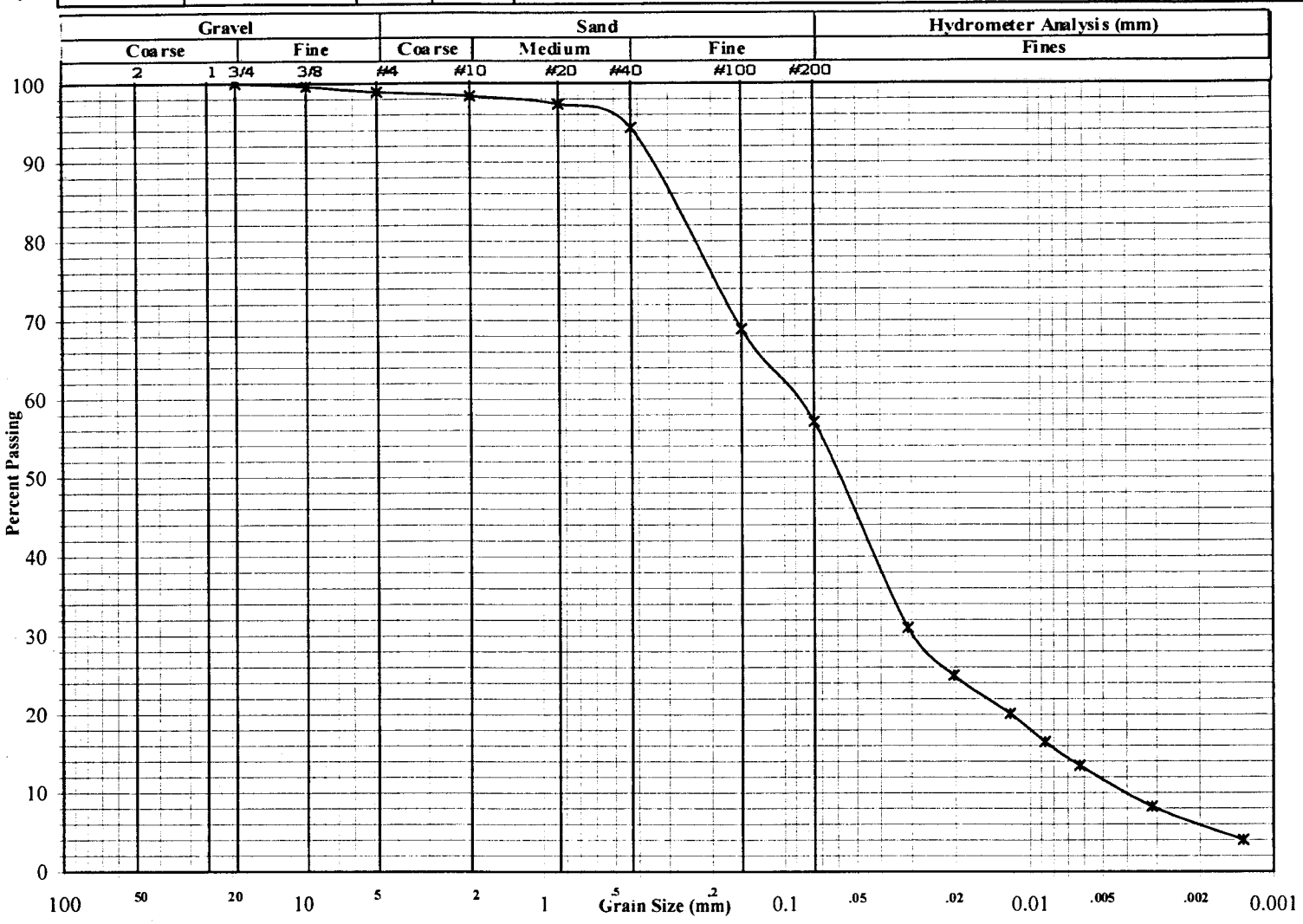
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Grain Size Distribution ASTM D422

Job No. : **5004-B**

Project:	**Eagle**	Test Date:	11/24/04
Reported To:	**North Jackson Company**	Report Date:	11/30/04

	Location/ Boring No.	Sample No.	Depth (ft)	Sample Type	Soil Classification
✳	QAL007	EAG-1001279	1?7	Bag	Sandy Lean Clay (CL/CL-ML)
●					
◇					



Other Tests

	✳	●	◇
Liquid Limit			
Plastic Limit			
Plasticity Index			
Water Content			
Dry Density (PCF)			
Specific Gravity	2.68*		
Porosity			
Organic Content			
pH			
Shrinkage Limit			
Penetrometer			
Qu (PSF)			

Percent Passing

	✳	●	◇
Mass (g)	891		
2"			
1.5"			
1"			
3/4"	100.0		
3/8"	99.6		
#4	98.9		
#10	98.3		
#20	97.3		
#40	94.3		
#100	68.9		
#200	57.1		

	✳	●	◇
D_{60}			
D_{30}			
D_{10}			
C_u			
C_C			

Remarks:

*Assumed Value

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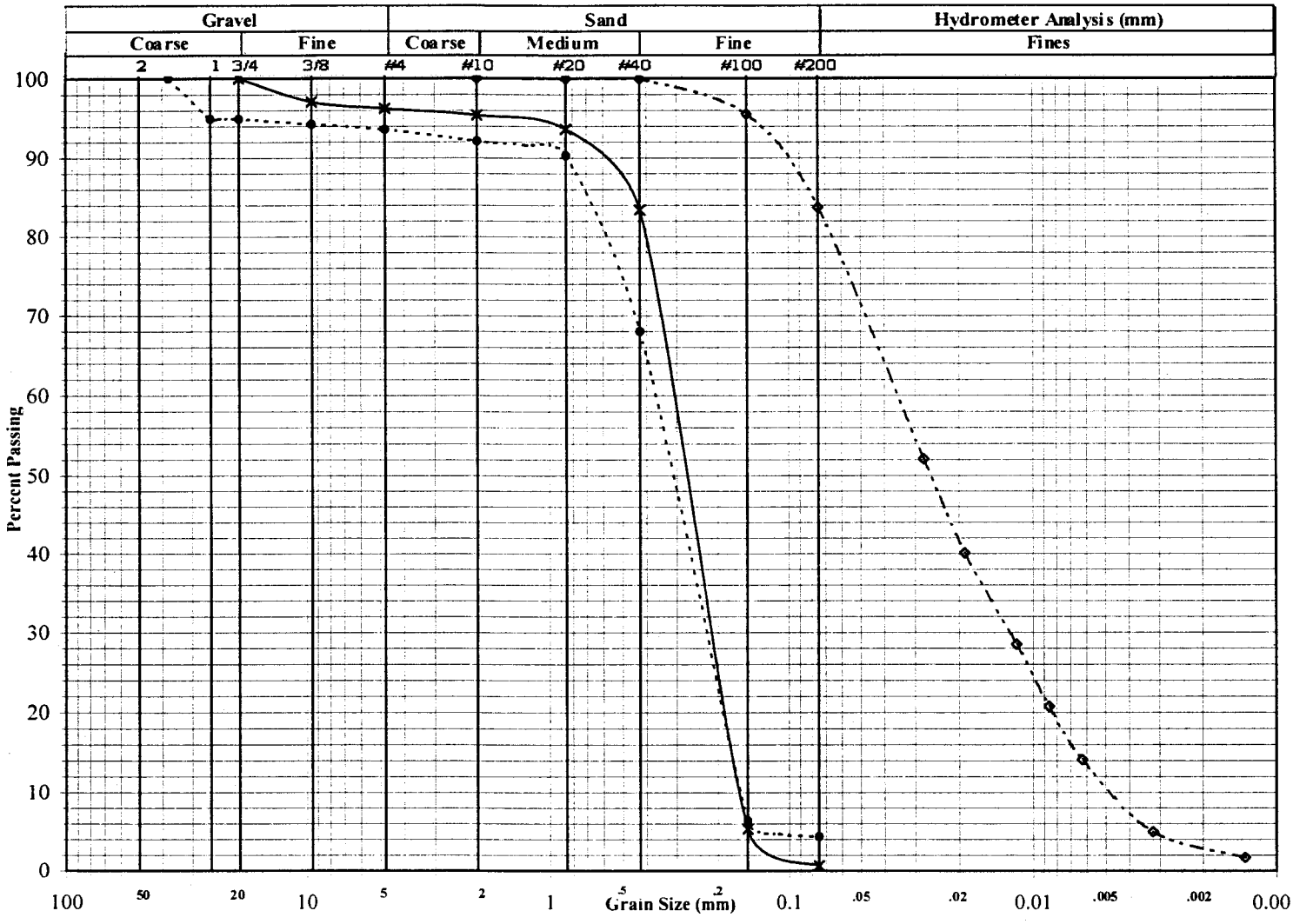
Bloomington, Minnesota 55420-3436

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Grain Size Distribution ASTM D422

Project:	**Eagle**	Job No. :	**5004-B**
Reported To:	**North Jackson Company**	Test Date:	11/24/04
		Report Date:	11/30/04

	Location/ Boring No.	Sample No.	Depth (ft)	Sample Type	Soil Classification
✕	QAL008	EAG-1001280	10	Bag	Sand w/a trace of gravel, fine grained (SP)
●	QAL008	EAG-1001281	30	Bag	Sand w/a little gravel, fine grained (SP/SP-SM)
◇	QAL008	EAG-1001282	84	Bag	Silt w/sand (ML)



Other Tests

	✕	●	◇
Liquid Limit			
Plastic Limit			
Plasticity Index			
Water Content	4.9	4.6	
Dry Density (PCF)			
Specific Gravity			2.65*
Porosity			
Organic Content			
pH			
Shrinkage Limit			
Penetrometer			
Qu (PSF)			

Percent Passing

	✕	●	◇
Mass (g)	1616	1729	761
2"			
1.5"		100.0	
1"		94.9	
3/4"	100.0	94.9	
3/8"	97.1	94.3	
#4	96.3	93.6	
#10	95.4	92.1	100.0
#20	93.6	90.3	100.0
#40	83.4	68.0	99.9
#100	5.4	6.4	95.6
#200	0.7	4.4	83.8

	✕	●	◇
D_{60}			
D_{30}			
D_{10}			
C_u			
C_C			

Remarks:

*Assumed Value

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Bloomington, Minnesota 55420-3436

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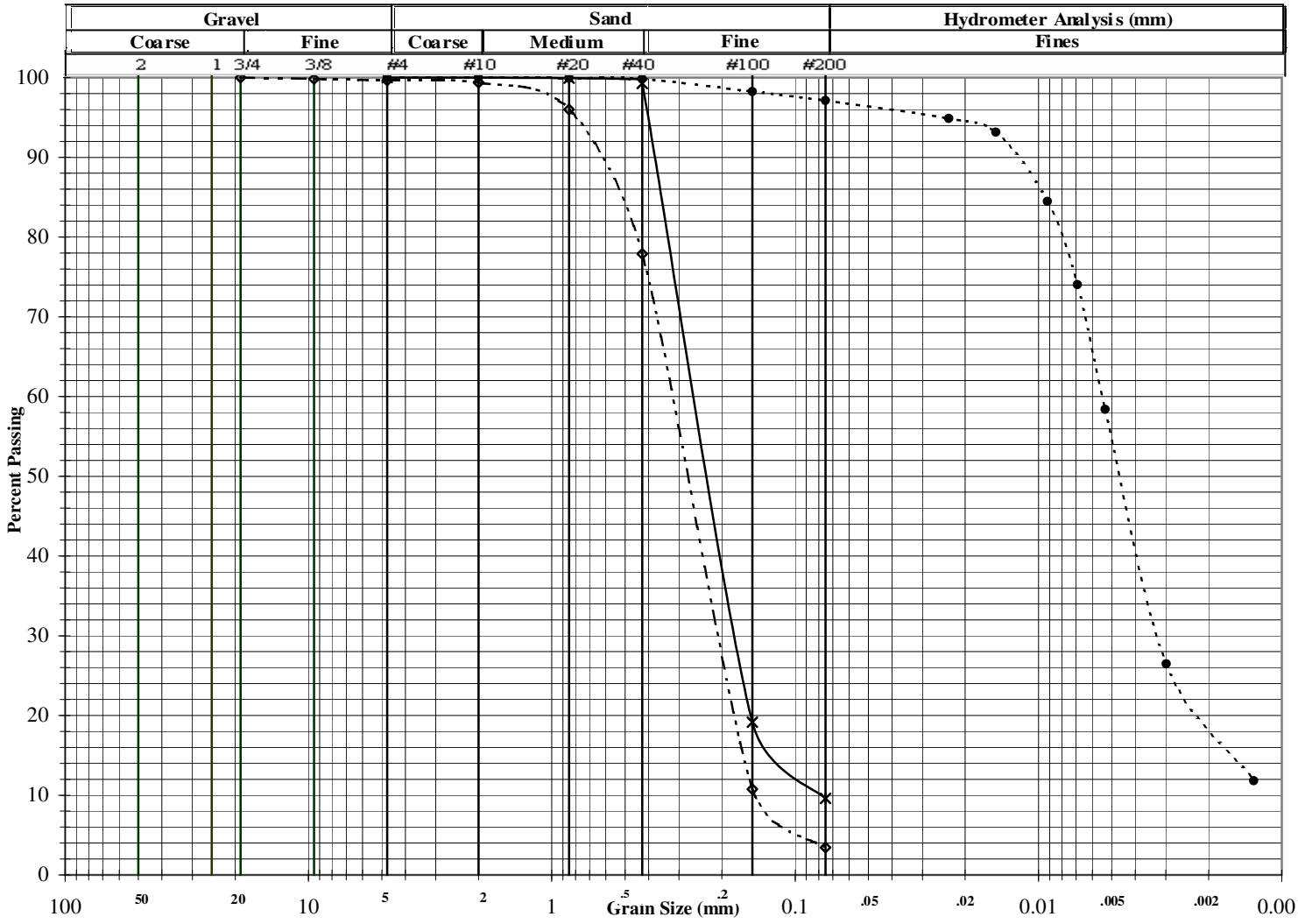
Grain Size Distribution ASTM D422

Job No. : **5004-B**

Project: **Eagle** | Test Date: 11/24/04

Reported To: **North Jackson Company** | Report Date: 11/30/04

	Location/ Boring No.	Sample No.	Depth (ft)	Sample Type	Soil Classification
✕	QAL008	EAG-1001283	88	Bag	Sand w/silt, fine grained (SP-SM)
●	QAL008	EAG-1001284	107-109	3T	Lean Clay (CL)
◇	QAL008	EAG-1001285	117	Bag	Sand, fine grained (SP)



Other Tests

	✕	●	◇
Liquid Limit			
Plastic Limit			
Plasticity Index			
Water Content	18.2		15.3
Dry Density (PCF)			
Specific Gravity		2.67*	
Porosity			
Organic Content			
pH			
Shrinkage Limit			
Penetrometer			
Qu (PSF)			

Percent Passing

	✕	●	◇
Mass (g)	1246	327	1666
2"			
1.5"			
1"			
3/4"			100.0
3/8"			99.8
#4	100.0	100.0	99.6
#10	100.0	100.0	99.4
#20	99.9	99.9	96.0
#40	99.3	99.8	77.9
#100	19.2	98.2	10.7
#200	9.6	97.1	3.4

	✕	●	◇
D_{60}			
D_{30}			
D_{10}			
C_u			
C_C			

Remarks:

**Assumed Value*

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Bloomington, Minnesota 55420-3436

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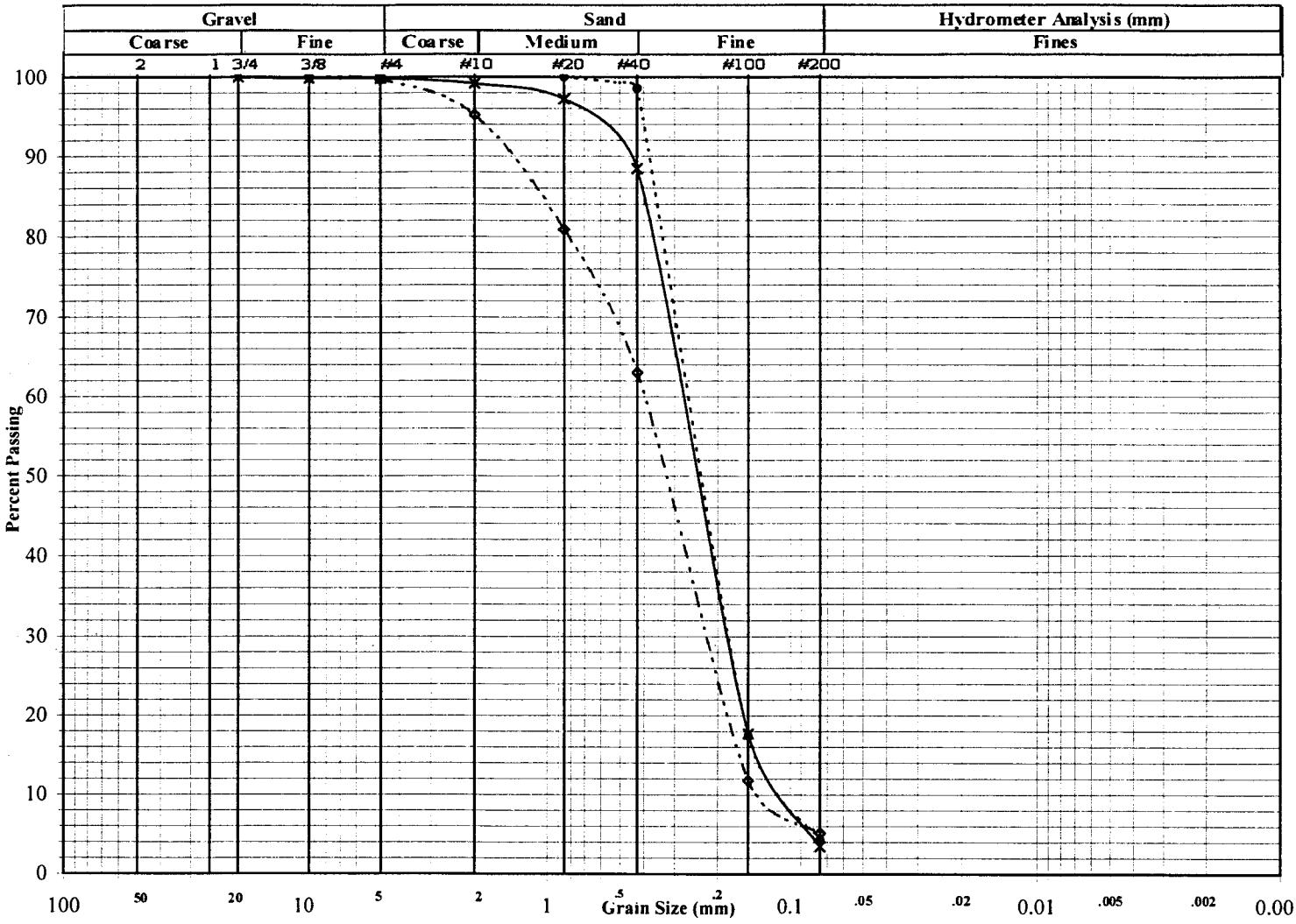
Grain Size Distribution ASTM D422

Job No. : **5004-B**

Project: **Eagle** | Test Date: 11/24/04

Reported To: **North Jackson Company** | Report Date: 11/30/04

	Location/ Boring No.	Sample No.	Depth (ft)	Sample Type	Soil Classification
✕	QAL009	EAG-1001286	37	Bag	Sand, fine grained (SP)
●	QAL009	EAG-1001287	102	Bag	Sand, fine grained (SP/SP-SM)
◇	QAL009	EAG-1001288	145	Bag	Sand, fine to medium grained (SP/SP-SM)



Other Tests

	✕	●	◇
Liquid Limit			
Plastic Limit			
Plasticity Index			
Water Content	16.3	21.5	14.2
Dry Density (PCF)			
Specific Gravity			
Porosity			
Organic Content			
pH			
Shrinkage Limit			
Penetrometer			
Qu (PSF)			

Percent Passing

	✕	●	◇
Mass (g)	1187	805	1569
2"			
1.5"			
1"			
3/4"	100.0		
3/8"	99.9		100.0
#4	99.9	100.0	99.7
#10	99.2	100.0	95.2
#20	97.2	100.0	80.9
#40	88.4	98.6	63.0
#100	17.7	17.5	11.8
#200	3.5	4.3	5.2

	✕	●	◇
D_{60}			
D_{30}			
D_{10}			
C_u			
C_C			

Remarks:

*Assumed Value

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Bloomington, Minnesota 55420-3436

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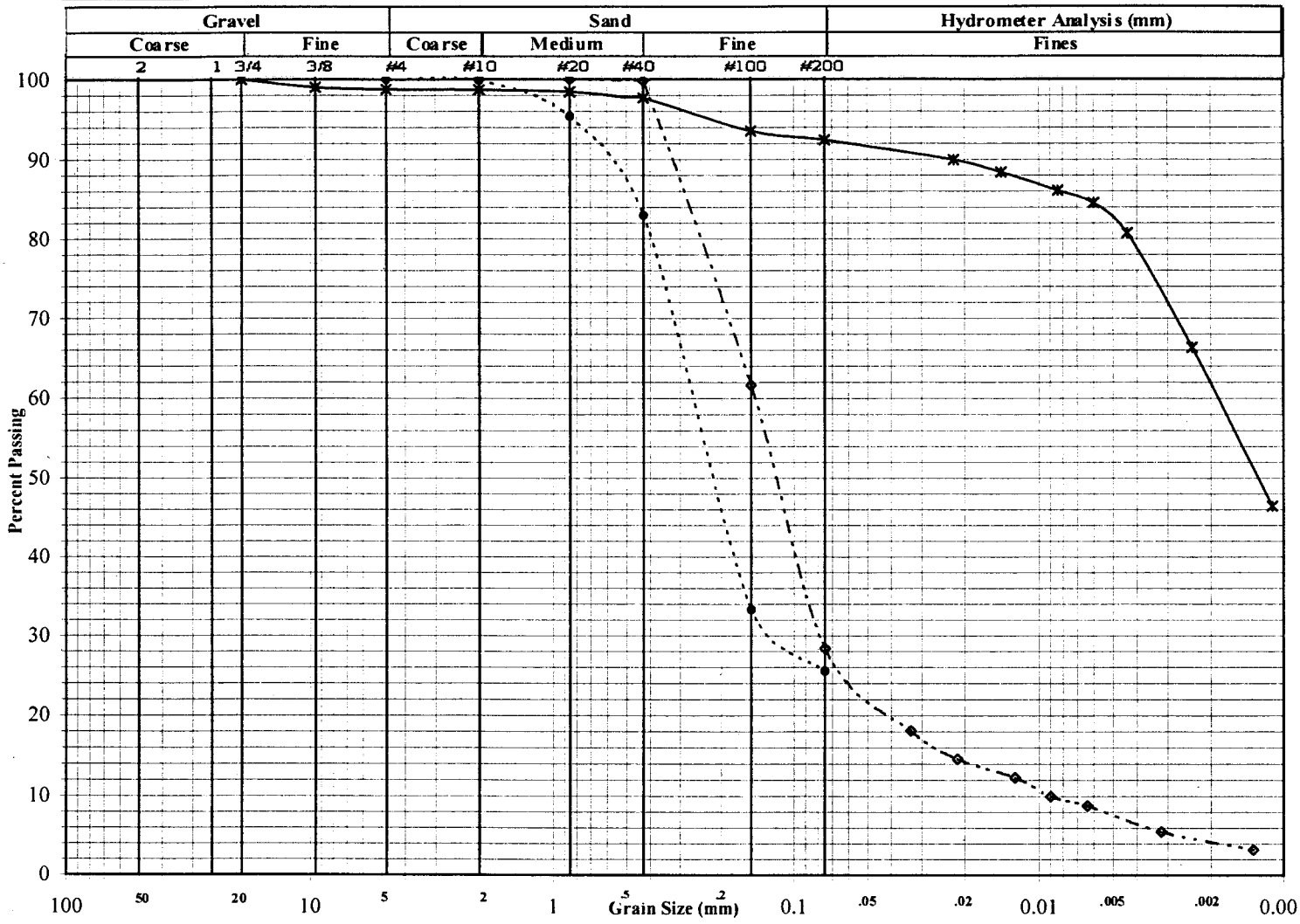
Grain Size Distribution ASTM D422

Job No. : **5004-B**

Project: **Eagle** | Test Date: 11/24/04

Reported To: **North Jackson Company** | Report Date: 11/30/04

	Location/ Boring No.	Sample No.	Depth (ft)	Sample Type	Soil Classification
✳	QAL009	EAG-1001289	157	Bag	Fat Clay (CH)
●	QAL009	EAG-1001290	163	Bag	Silty Sand (SM)
◇	QAL009	EAG-1001291	185	Bag	Silty Sand (SM)



Other Tests

	✳	●	◇
Liquid Limit			
Plastic Limit			
Plasticity Index			
Water Content		4.0	
Dry Density (PCF)			
Specific Gravity	2.71*		2.66*
Porosity			
Organic Content			
pH			
Shrinkage Limit			
Penetrometer			
Qu (PSF)			

Percent Passing

	✳	●	◇
Mass (g)	346	925	417
2"			
1.5"			
1"			
3/4"	100.0		
3/8"	99.0		
#4	98.8	100.0	
#10	98.7	99.8	100.0
#20	98.5	95.4	100.0
#40	97.7	83.0	99.8
#100	93.6	33.3	61.6
#200	92.4	25.5	28.4

	✳	●	◇
D_{60}			
D_{30}			
D_{10}			
C_u			
C_C			

Remarks:

*Assumed Value

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Bloomington, Minnesota 55420-3436

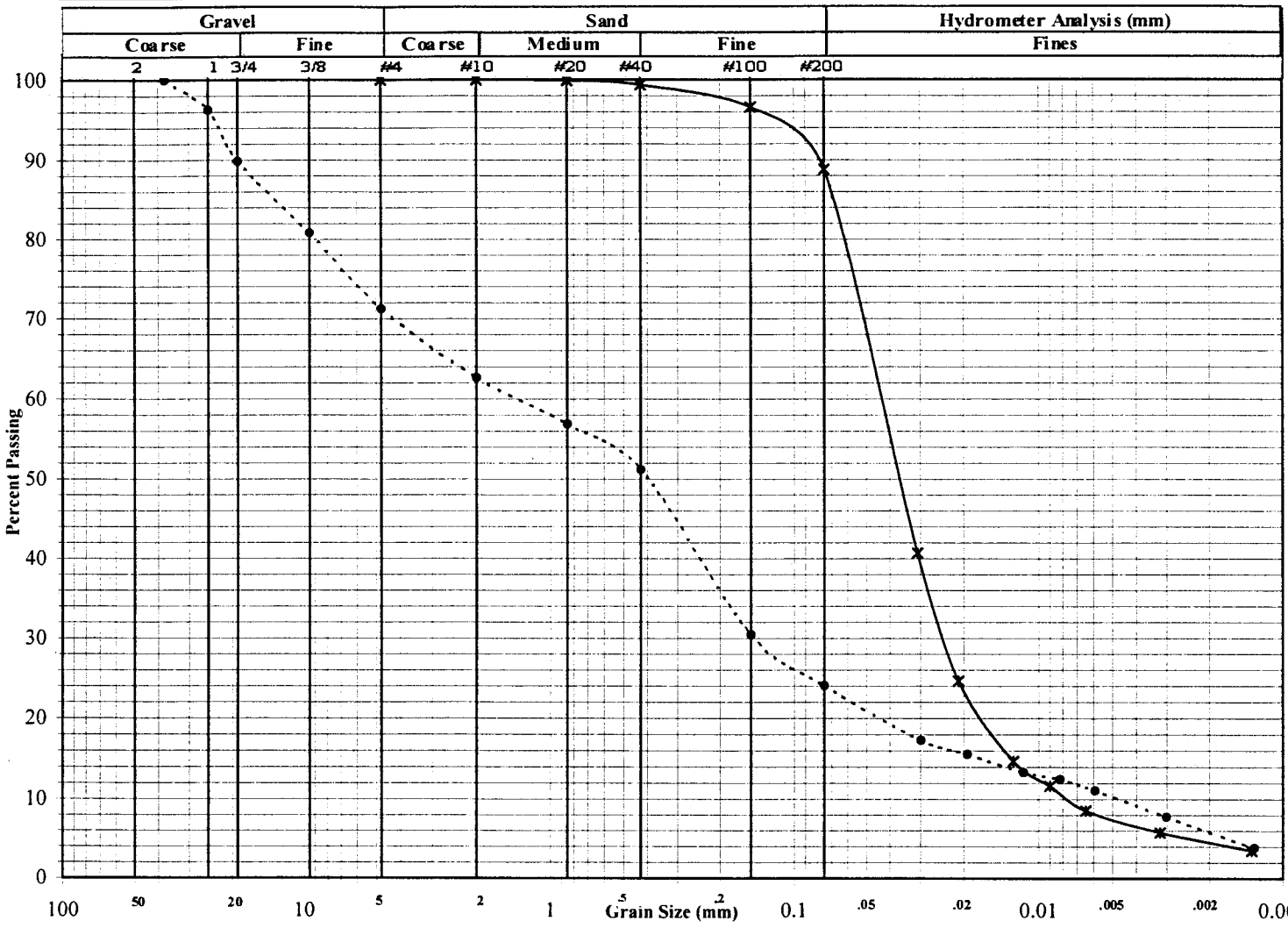
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Grain Size Distribution ASTM D422

Job No. : **5004-B**

Project:	**Eagle**	Test Date:	11/24/04
Reported To:	**North Jackson Company**	Report Date:	11/30/04

	Location/ Boring No.	Sample No.	Depth (ft)	Sample Type	Soil Classification
✱	QAL009	EAG-1001292	238	Bag	Silt (ML)
●	QAL009	EAG-1001293	254	Bag	Clayey Sand w/gravel (SC)
◇					



Other Tests

	✱	●	◇
Liquid Limit			
Plastic Limit			
Plasticity Index			
Water Content			
Dry Density (PCF)			
Specific Gravity	2.65*	2.67*	
Porosity			
Organic Content			
pH			
Shrinkage Limit			
Penetrometer			
Qu (PSF)			

Percent Passing

	✱	●	◇
Mass (g)	629	1486	
2"			
1.5"		100.0	
1"		96.3	
3/4"		89.8	
3/8"		80.9	
#4	100.0	71.2	
#10	100.0	62.7	
#20	99.9	56.9	
#40	99.4	51.2	
#100	96.6	30.4	
#200	88.8	24.1	

	✱	●	◇
D_{60}			
D_{30}			
D_{10}			
C_u			
C_C			

Remarks:

*Assumed Value

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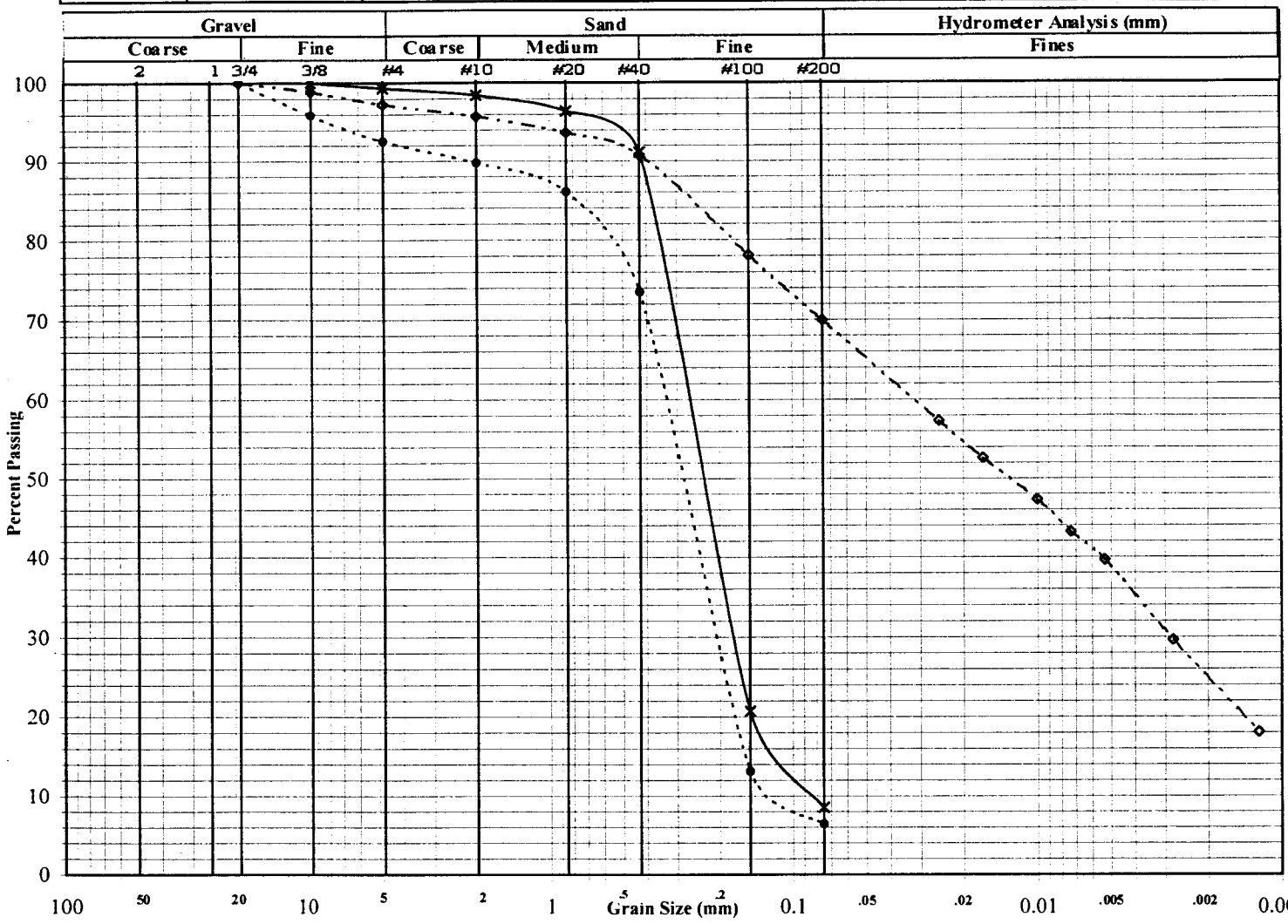
Grain Size Distribution ASTM D422

Job No. : **5004-B**

Project: **Eagle** | Test Date: 11/24/04

Reported To: **North Jackson Company** | Report Date: 11/30/04

	Location/ Boring No.	Sample No.	Depth (ft)	Sample Type	Soil Classification
✕	QAL010	EAG-1001294	43	Bag	Sand w/silt, fine grained (SP-SM)
●	QAL010	EAG-1001295	102	Bag	Sand w/silt and a little gravel, fine grained (SP-SM)
◇	QAL010	EAG-1001296	134	Bag	Sandy Lean Clay (CL/CH)



Other Tests

	✕	●	◇
Liquid Limit			
Plastic Limit			
Plasticity Index			
Water Content	17.9	14.3	
Dry Density (PCF)			
Specific Gravity			2.68*
Porosity			
Organic Content			
pH			
Shrinkage Limit			
Penetrometer			
Qu (PSF)			

Percent Passing

	✕	●	◇
Mass (g)	694	1023	897
2"			
1.5"			
1"			
3/4"		100.0	100.0
3/8"	100.0	95.9	98.9
#4	99.3	92.5	97.2
#10	98.4	89.8	95.7
#20	96.4	86.1	93.6
#40	91.1	73.5	90.8
#100	20.7	13.2	78.1
#200	8.5	6.4	69.9

	✕	●	◇
D_{60}			
D_{30}			
D_{10}			
C_u			
C_C			

Remarks:

*Assumed Value

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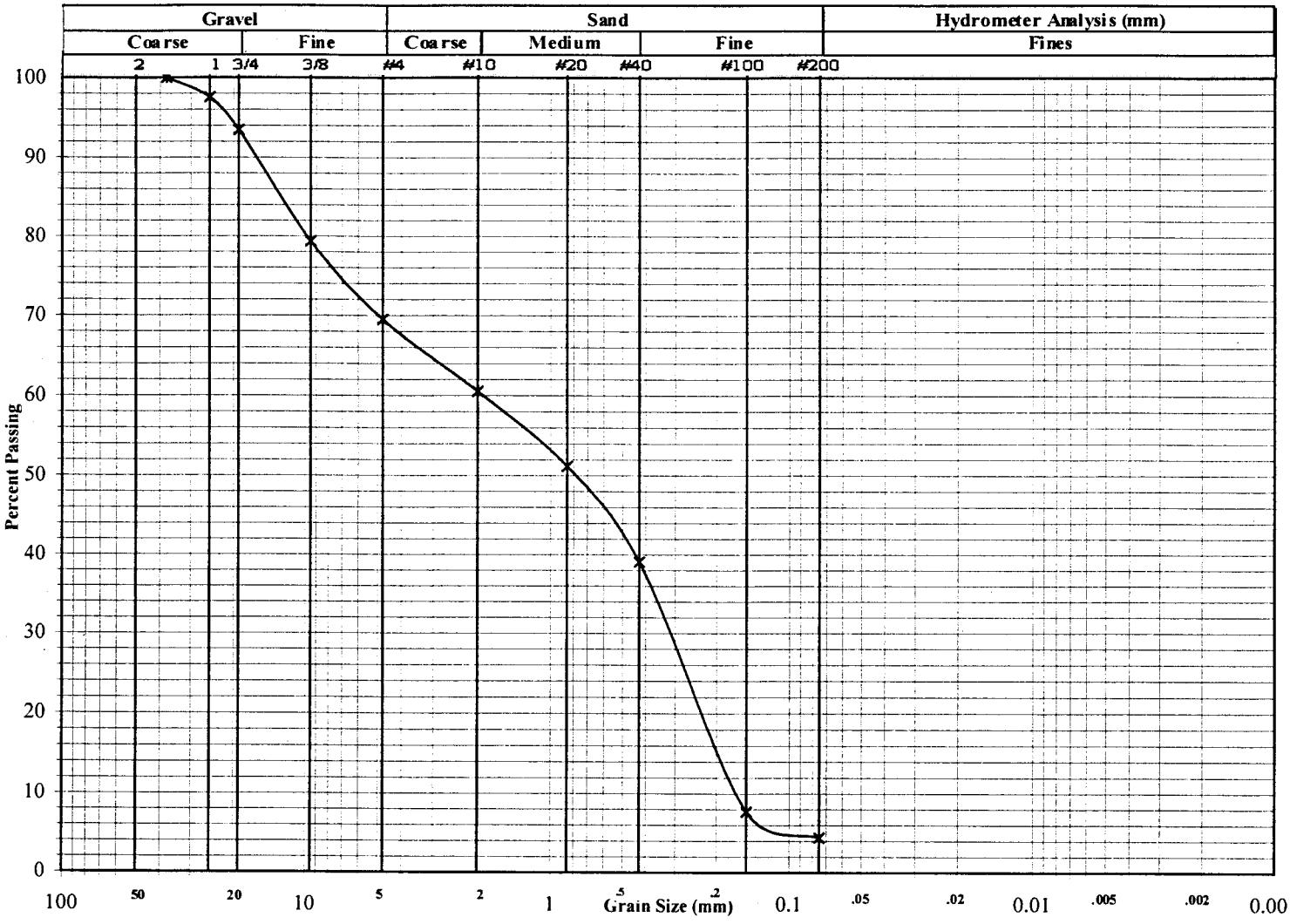
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Grain Size Distribution ASTM D422

Job No. :	**5004-B**		
Project:	**Eagle**	Test Date:	11/24/04
Reported To:	**North Jackson Company**	Report Date:	11/30/04

	Location/ Boring No.	Sample No.	Depth (ft)	Sample Type	Soil Classification
X	QAL010	EAG-1001297	178	Bag	Sand w/gravel, fine to medium grained (SP/SP-SM)
●					
◇					



Other Tests

	X	●	◇
Liquid Limit			
Plastic Limit			
Plasticity Index			
Water Content	2.3		
Dry Density (PCF)			
Specific Gravity			
Porosity			
Organic Content			
pH			
Shrinkage Limit			
Penetrometer			
Qu (PSF)			

Percent Passing

	X	●	◇
Mass (g)	1023		
2"			
1.5"	100.0		
1"	97.5		
3/4"	93.5		
3/8"	79.4		
#4	69.5		
#10	60.5		
#20	51.1		
#40	39.1		
#100	7.7		
#200	4.4		

	X	●	◇
D_{60}			
D_{30}			
D_{10}			
C_u			
C_C			

Remarks:

*Assumed Value

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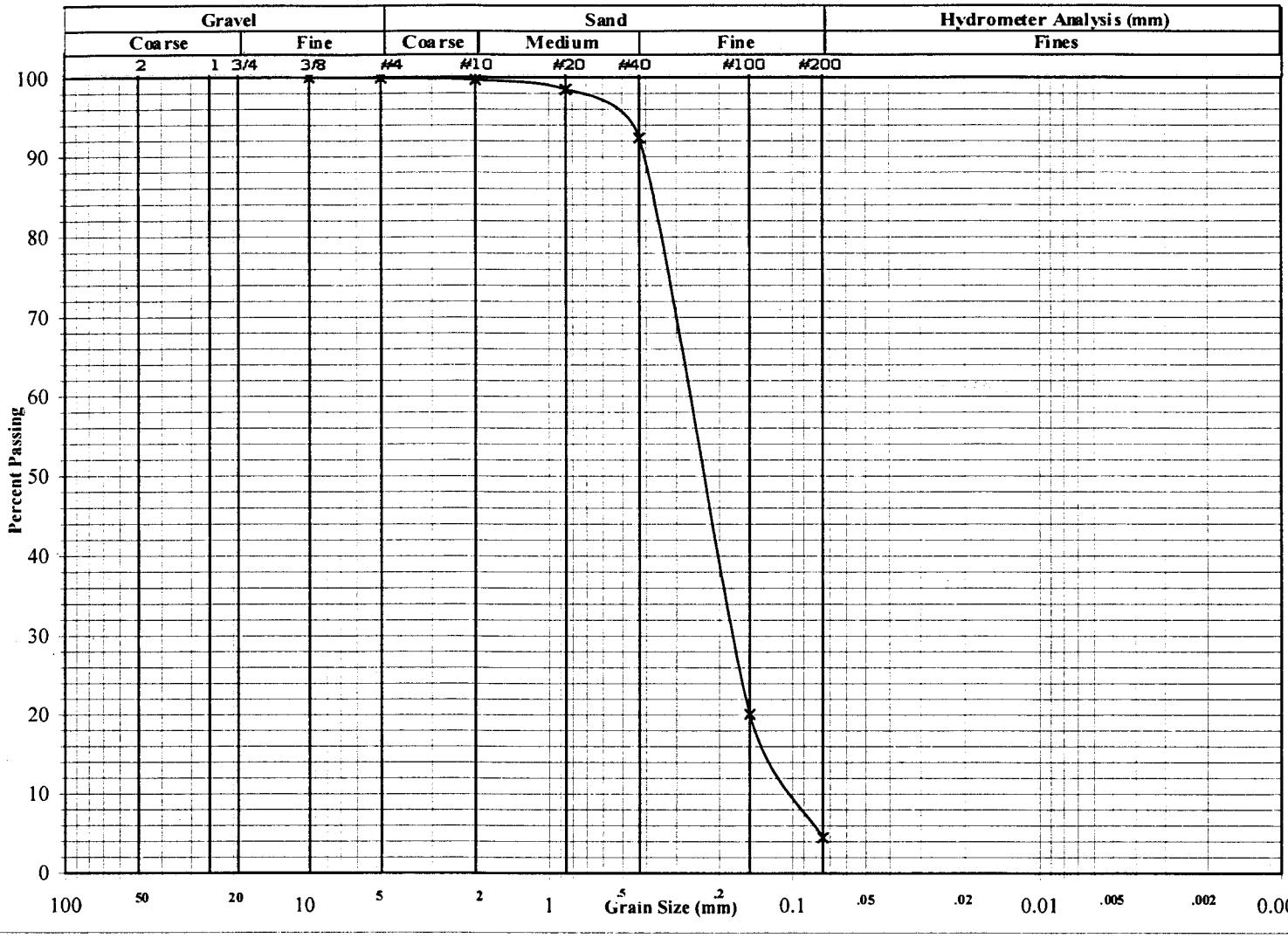
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Grain Size Distribution ASTM D422

Job No. : **5004-B**

Project:	**Eagle**	Test Date:	11/24/04
Reported To:	**North Jackson Company**	Report Date:	11/30/04

	Location/ Boring No.	Sample No.	Depth (ft)	Sample Type	Soil Classification
X	QAL011	EAG-1001298	39	Bag	Sand, fine grained (SP/SP-SM)
●					
◇					



Other Tests

	X	●	◇
Liquid Limit			
Plastic Limit			
Plasticity Index			
Water Content	17.4		
Dry Density (PCF)			
Specific Gravity			
Porosity			
Organic Content			
pH			
Shrinkage Limit			
Penetrometer			
Qu (PSF)			

Percent Passing

	X	●	◇
Mass (g)	1714		
2"			
1.5"			
1"			
3/4"			
3/8"	100.0		
#4	99.9		
#10	99.7		
#20	98.5		
#40	92.4		
#100	20.1		
#200	4.5		

	X	●	◇
D_{60}			
D_{30}			
D_{10}			
C_u			
C_C			

Remarks:

*Assumed Value

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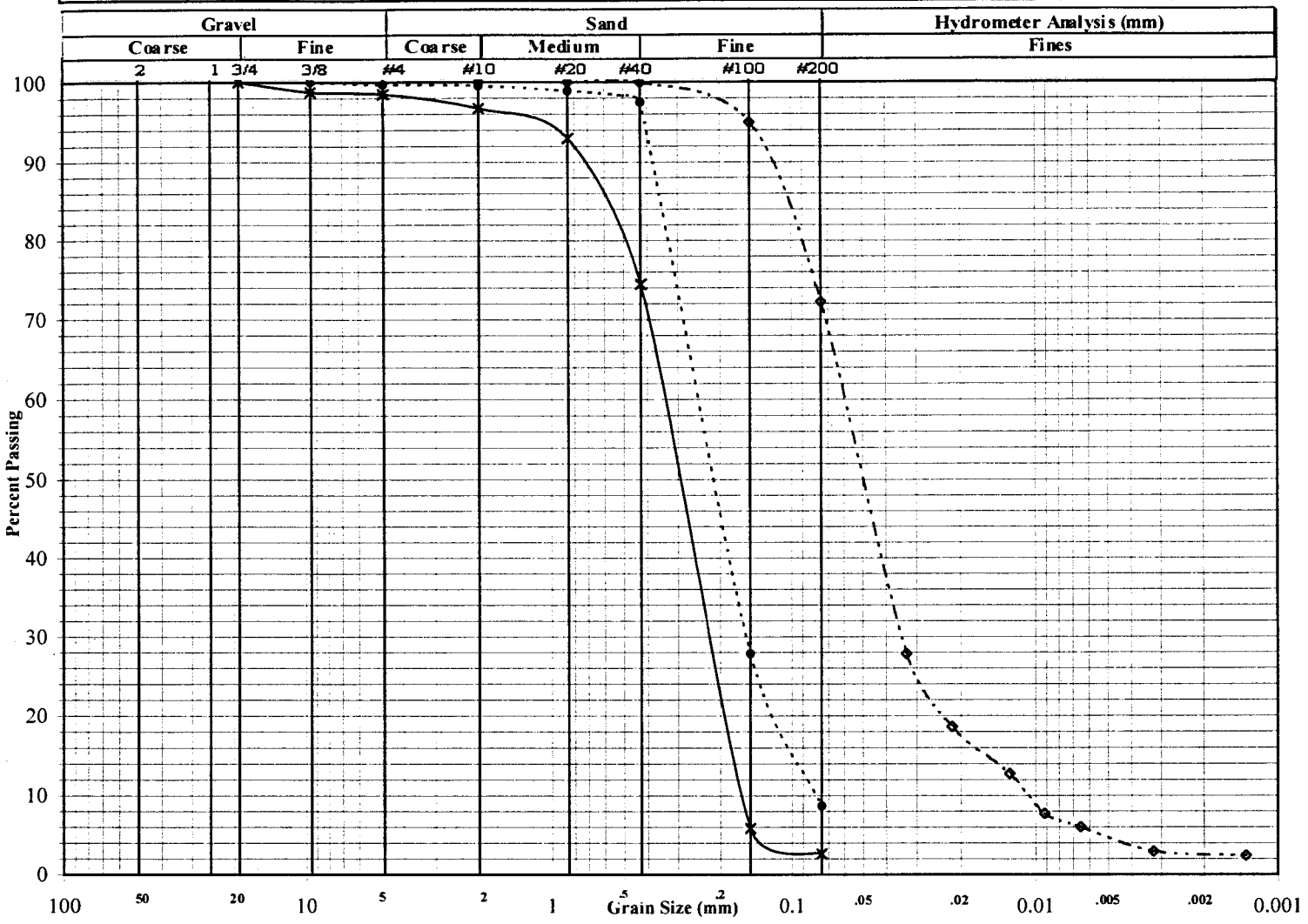
Grain Size Distribution ASTM D422

Job No. : **5004-B**

Project: **Eagle** | Test Date: 11/24/04

Reported To: **North Jackson Company** | Report Date: 11/30/04

	Location/ Boring No.	Sample No.	Depth (ft)	Sample Type	Soil Classification
✕	QAL013	EAG-1001299	17	Bag	Sand w/a trace of gravel, fine grained (SP)
●	QAL013	EAG-1001300	43	Bag	Sand w/silt, fine grained (SP-SM)
◇	QAL013	EAG-1001301	57	Bag	Silt w/sand (ML)



Other Tests

	✕	●	◇
Liquid Limit			
Plastic Limit			
Plasticity Index			
Water Content	3.5	18.5	
Dry Density (PCF)			
Specific Gravity			2.66*
Porosity			
Organic Content			
pH			
Shrinkage Limit			
Penetrometer			
Qu (PSF)			

Percent Passing

	✕	●	◇
Mass (g)	1210	1174	656
2"			
1.5"			
1"			
3/4"	100.0		
3/8"	98.8	100.0	
#4	98.5	99.7	
#10	96.7	99.6	100.0
#20	93.0	98.9	100.0
#40	74.4	97.5	100.0
#100	5.9	27.9	95.0
#200	2.6	8.7	72.2

	✕	●	◇
D_{60}			
D_{30}			
D_{10}			
C_u			
C_C			

Remarks:

*Assumed Value

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Bloomington, Minnesota 55420-3436

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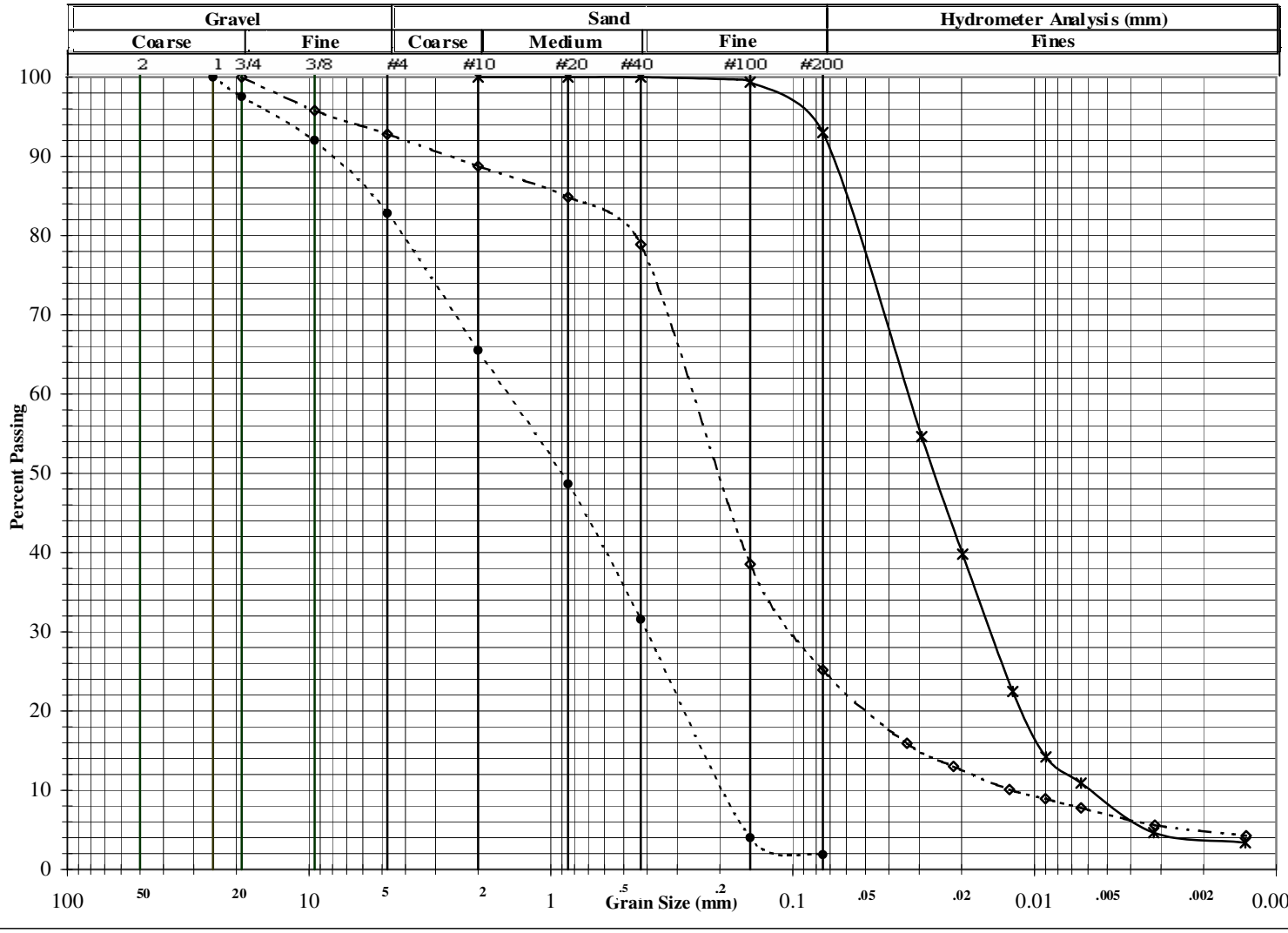
Grain Size Distribution ASTM D422

Job No. : **5004-B**

Project: **Eagle** | Test Date: 11/24/04

Reported To: **North Jackson Company** | Report Date: 11/30/04

	Location/ Boring No.	Sample No.	Depth (ft)	Sample Type	Soil Classification
✕	QAL013	EAG-1001302	67-69	3T	Silt (ML)
●	QAL013	EAG-1001303	121	Bag	Sand w/gravel, medium to fine grained (SP)
◇	QAL013	EAG-1001304	144	Bag	Silty Sand w/a little gravel (SM)



Other Tests

	✕	●	◇
Liquid Limit			
Plastic Limit			
Plasticity Index			
Water Content		12.4	
Dry Density (PCF)			
Specific Gravity	2.65*		2.66*
Porosity			
Organic Content			
pH			
Shrinkage Limit			
Penetrometer			
Qu (PSF)			

Percent Passing

	✕	●	◇
Mass (g)	509	1711	1480
2"			
1.5"			
1"		100.0	
3/4"		97.5	100.0
3/8"		92.0	95.8
#4		82.8	92.8
#10	100.0	65.5	88.8
#20	100.0	48.7	84.9
#40	100.0	31.6	78.9
#100	99.4	4.0	38.5
#200	93.0	1.9	25.2

	✕	●	◇
D_{60}			
D_{30}			
D_{10}			
C_u			
C_C			

Remarks:

**Assumed Value*

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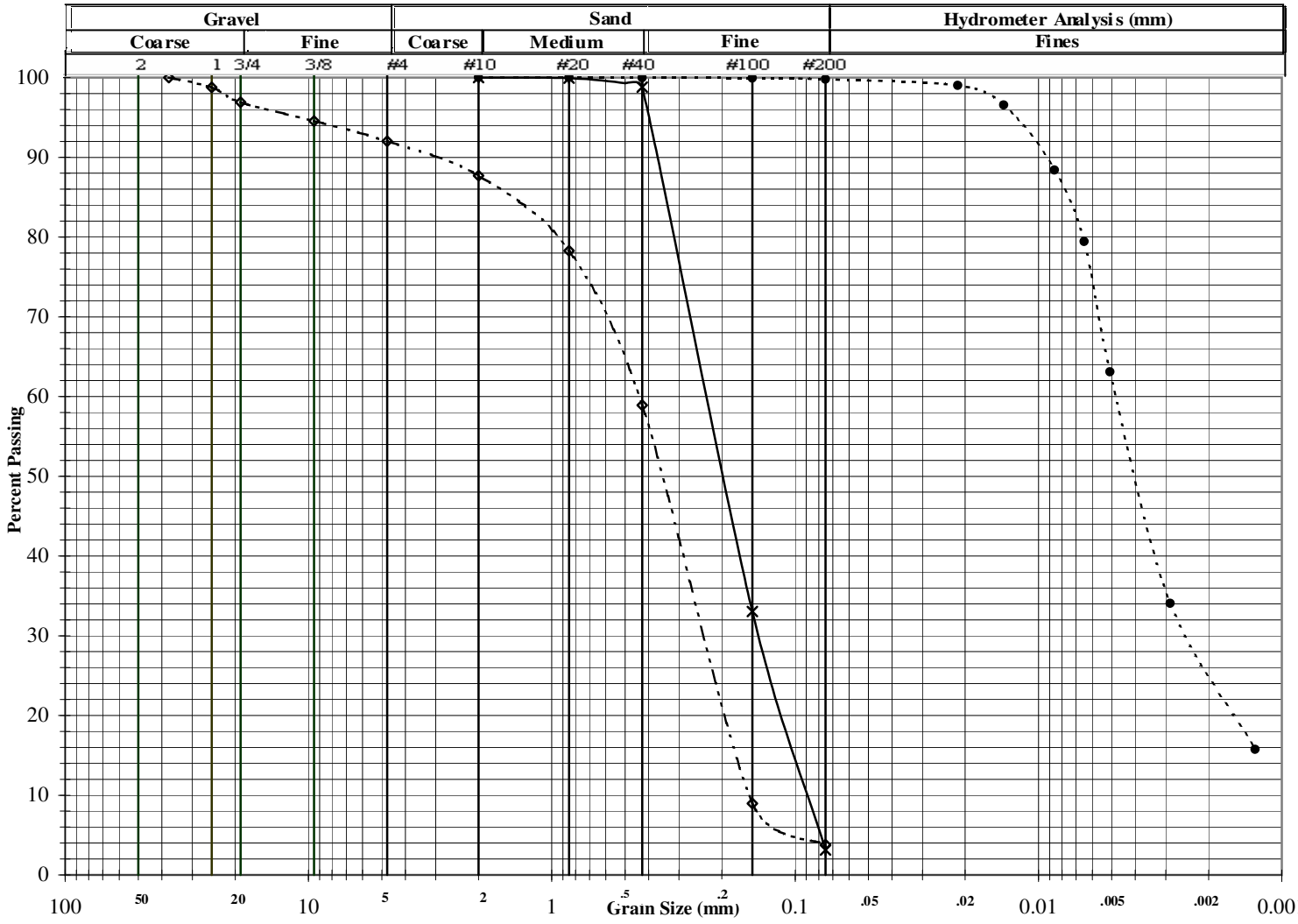
Grain Size Distribution ASTM D422

Job No. : **5004-B**

Project: **Eagle** | Test Date: 11/24/04

Reported To: **North Jackson Company** | Report Date: 11/30/04

	Location/ Boring No.	Sample No.	Depth (ft)	Sample Type	Soil Classification
X	QAL014	EAG-1001305	37	Bag	Sand, fine grained (SP)
●	QAL014	EAG-1001306	108-110	3T	Lean Clay (CL)
◇	QAL014	EAG-1001307	137	Bag	Sand w/silt fine grained (SP-SM)



Other Tests

	X	●	◇
Liquid Limit			
Plastic Limit			
Plasticity Index			
Water Content	24.9		14.9
Dry Density (PCF)			
Specific Gravity		2.69*	
Porosity			
Organic Content			
pH			
Shrinkage Limit			
Penetrometer			
Qu (PSF)			

Percent Passing

	X	●	◇
Mass (g)	1095	201	2962
2"			
1.5"			100.0
1"			98.8
3/4"			96.9
3/8"			94.6
#4			92.0
#10	100.0	100.0	87.7
#20	99.9	100.0	78.3
#40	98.8	100.0	58.9
#100	33.0	99.9	9.0
#200	3.1	99.8	3.8

	X	●	◇
D_{60}			
D_{30}			
D_{10}			
C_u			
C_C			

Remarks:

*Assumed Value

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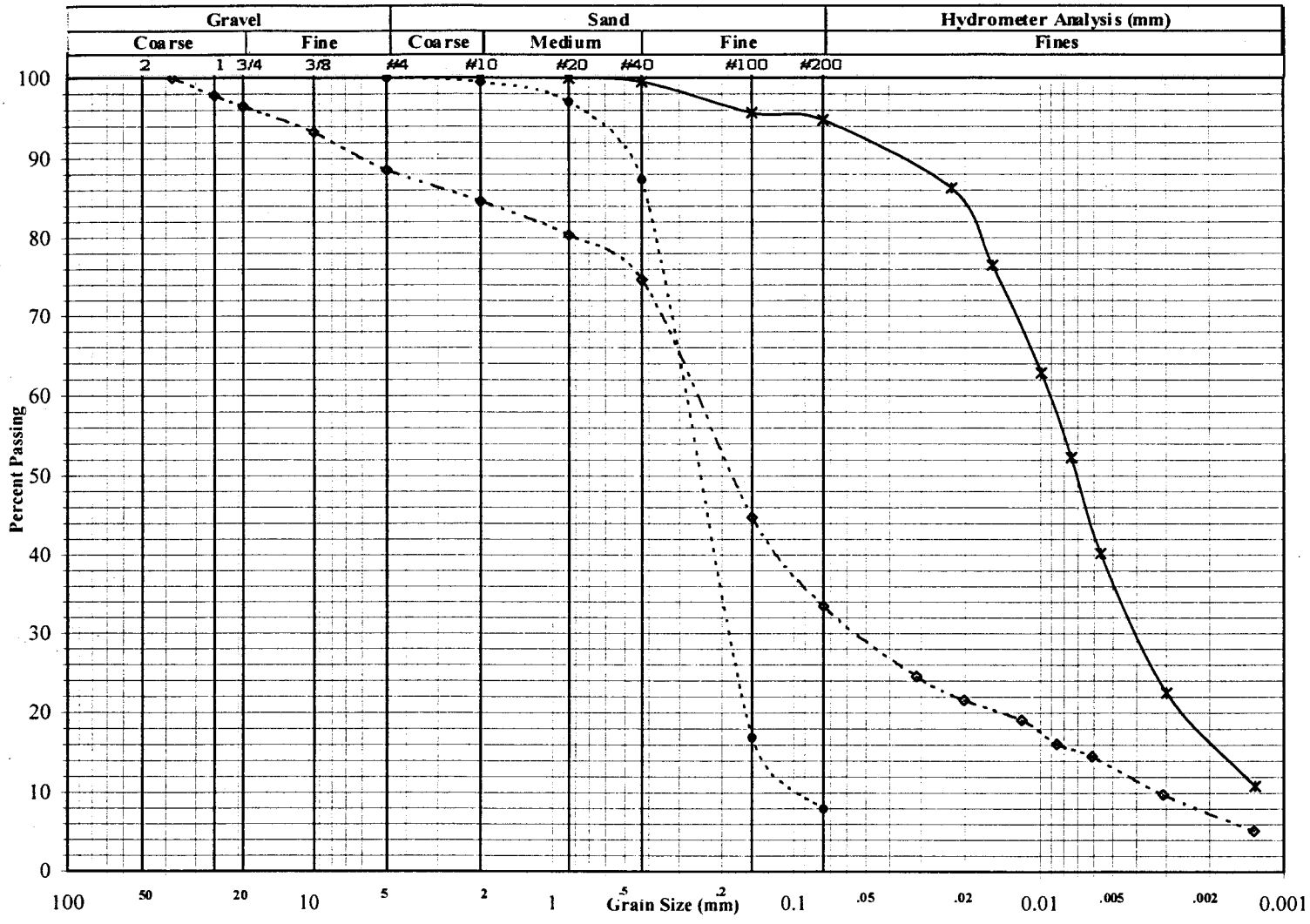
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Grain Size Distribution ASTM D422

Job No. : **5004-B**

Project:	**Eagle**	Test Date:	11/24/04
Reported To:	**North Jackson Company**	Report Date:	11/30/04

	Location/ Boring No.	Sample No.	Depth (ft)	Sample Type	Soil Classification
✕	QAL023	EAG-1001308	16	Bag	Lean Clay (CL)
●	QAL023	EAG-1001309	28	Bag	Sand w/silt, fine grained (SP-SM)
◇	QAL023	EAG-1001310	34	Bag	Silty Clayey Sand w/a little gravel (SC-SM)



Other Tests

	✕	●	◇
Liquid Limit			
Plastic Limit			
Plasticity Index			
Water Content		14.7	
Dry Density (PCF)			
Specific Gravity	2.67*		2.67*
Porosity			
Organic Content			
pH			
Shrinkage Limit			
Penetrometer			
Qu (PSF)			

Percent Passing

	✕	●	◇
Mass (g)	909	2974	3246
2"			
1.5"			100.0
1"			97.8
3/4"			96.4
3/8"			93.3
#4		100.0	88.6
#10	100.0	99.5	84.6
#20	100.0	97.0	80.3
#40	99.5	87.3	74.6
#100	95.7	16.9	44.8
#200	94.8	8.0	33.4

	✕	●	◇
D_{60}			
D_{30}			
D_{10}			
C_u			
C_C			

Remarks:

*Assumed Value

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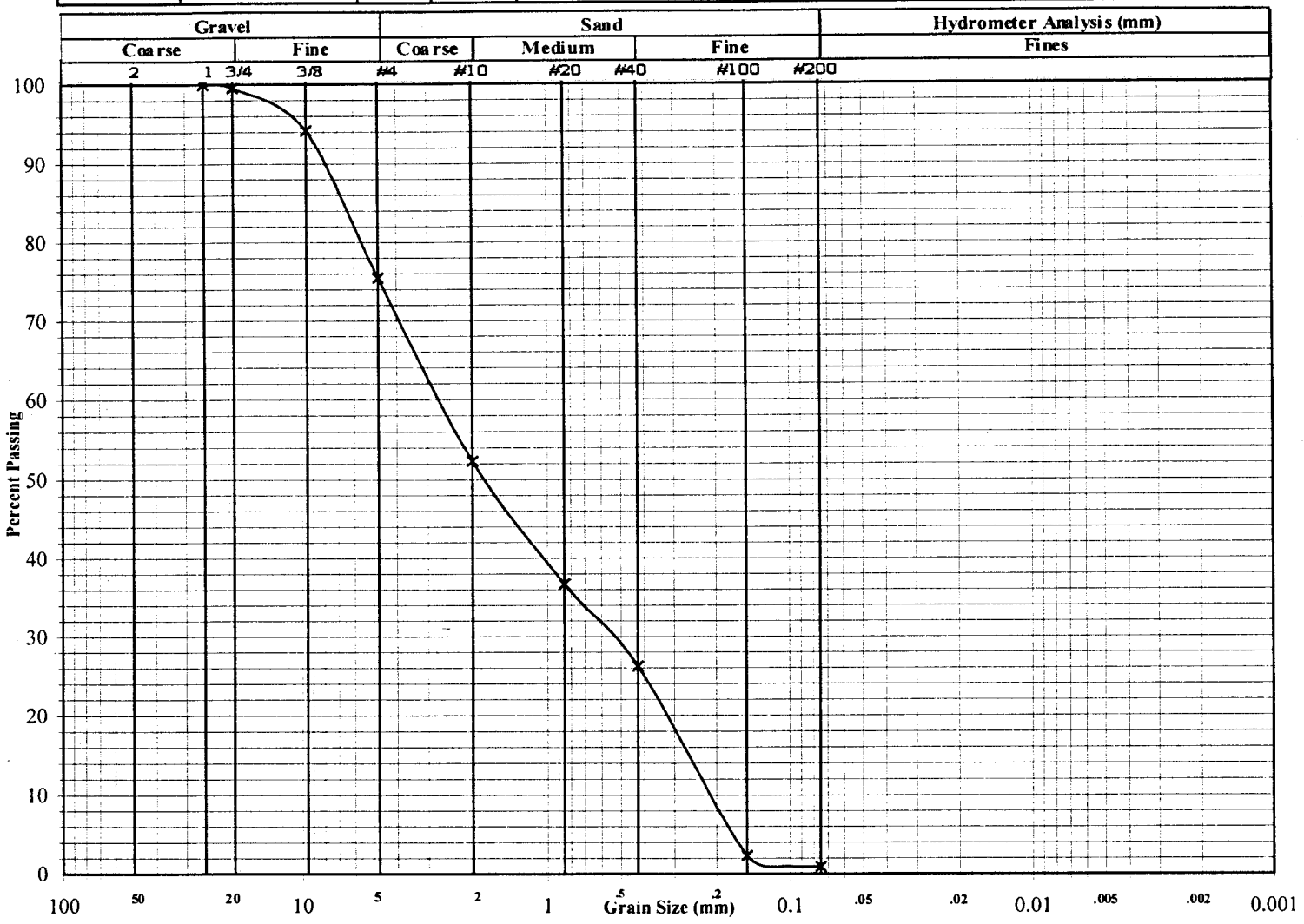
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Grain Size Distribution ASTM D422

Job No. : **5004-B**

Project:	**Eagle**	Test Date:	11/24/04
Reported To:	**North Jackson Company**	Report Date:	11/30/04

	Location/ Boring No.	Sample No.	Depth (ft)	Sample Type	Soil Classification
X	YDRMD002	EAG-1001316		Bag	Sand w/gravel, medium grained (SP)
●					
◇					



Other Tests

	X	●	◇
Liquid Limit			
Plastic Limit			
Plasticity Index			
Water Content	13.6		
Dry Density (PCF)			
Specific Gravity			
Porosity			
Organic Content			
pH			
Shrinkage Limit			
Penetrometer			
Qu (PSF)			

Percent Passing

	X	●	◇
Mass (g)	2661		
2"			
1.5"			
1"	100.0		
3/4"	99.5		
3/8"	94.2		
#4	75.5		
#10	52.3		
#20	36.7		
#40	26.2		
#100	2.3		
#200	0.9		

	X	●	◇
D_{60}			
D_{30}			
D_{10}			
C_u			
C_C			

Remarks:

*Assumed Value

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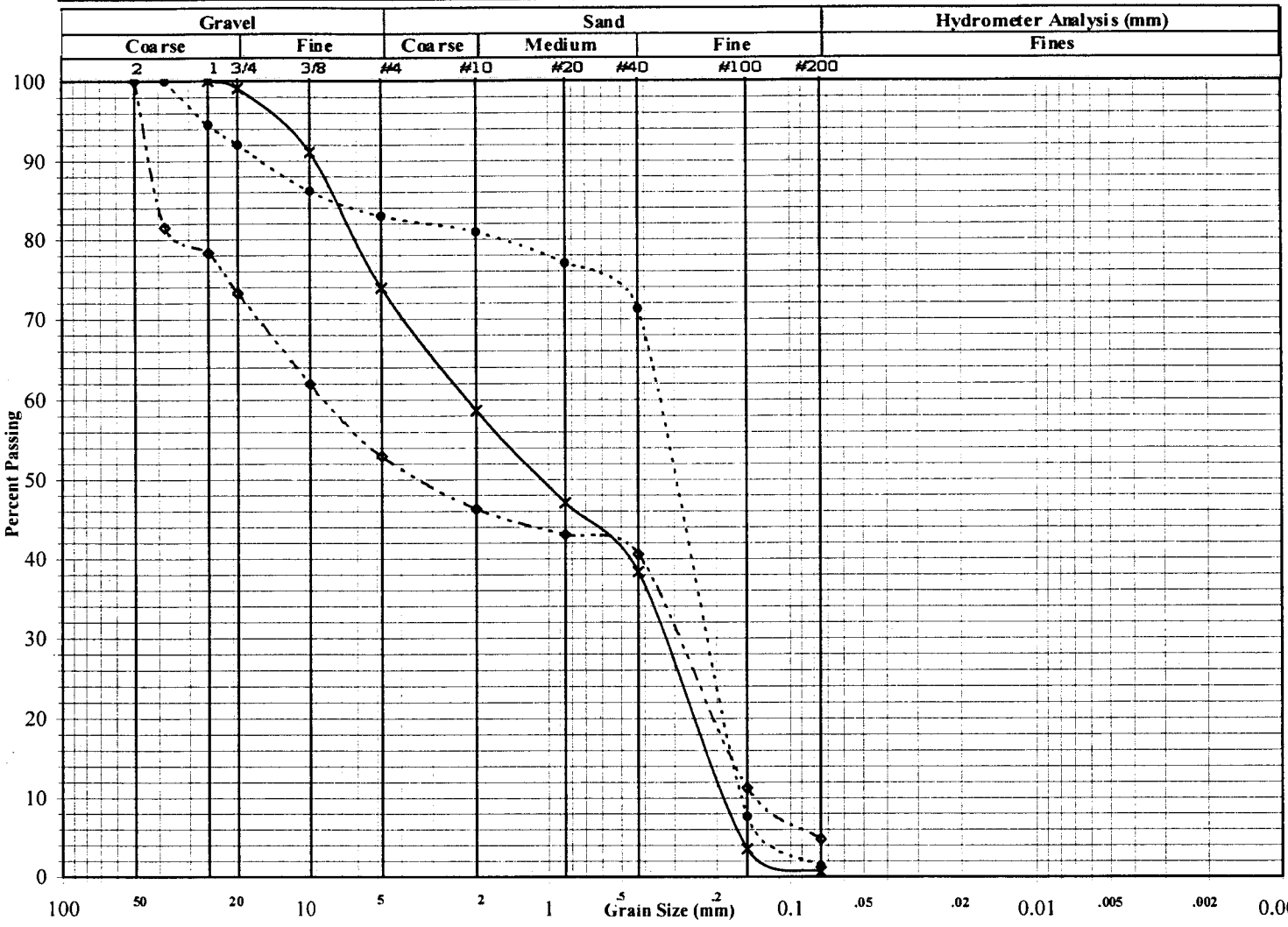
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Grain Size Distribution ASTM D422

Job No. : **5004-B**

Project:	**Eagle**	Test Date:	11/24/04
Reported To:	**North Jackson Company**	Report Date:	11/30/04

	Location/ Boring No.	Sample No.	Depth (ft)	Sample Type	Soil Classification
X	STRED006	EAG-1001312		Bag	Sand w/gravel, fine to medium grained (SP)
●	STRED007	EAG-1001311		Bag	Sand w/gravel, fine grained (SP)
◇	STRED008	EAG-1001315		Bag	Sand w/gravel, fine grained (SP/SP-SM)



Other Tests

	X	●	◇
Liquid Limit			
Plastic Limit			
Plasticity Index			
Water Content	14.0	21.9	12.9
Dry Density (PCF)			
Specific Gravity			
Porosity			
Organic Content			
pH			
Shrinkage Limit			
Penetrometer			
Qu (PSF)			

Percent Passing

	X	●	◇
Mass (g)	2113	2136	1693
2"			100.0
1.5"		100.0	81.6
1"	100.0	94.6	78.3
3/4"	99.1	92.0	73.2
3/8"	91.1	86.2	62.0
#4	73.9	83.0	53.0
#10	58.7	81.0	46.3
#20	47.1	77.0	43.1
#40	38.3	71.3	40.6
#100	3.5	7.6	11.3
#200	0.6	1.4	4.8

	X	●	◇
D_{60}			
D_{30}			
D_{10}			
C_u			
C_C			

Remarks:

*Assumed Value

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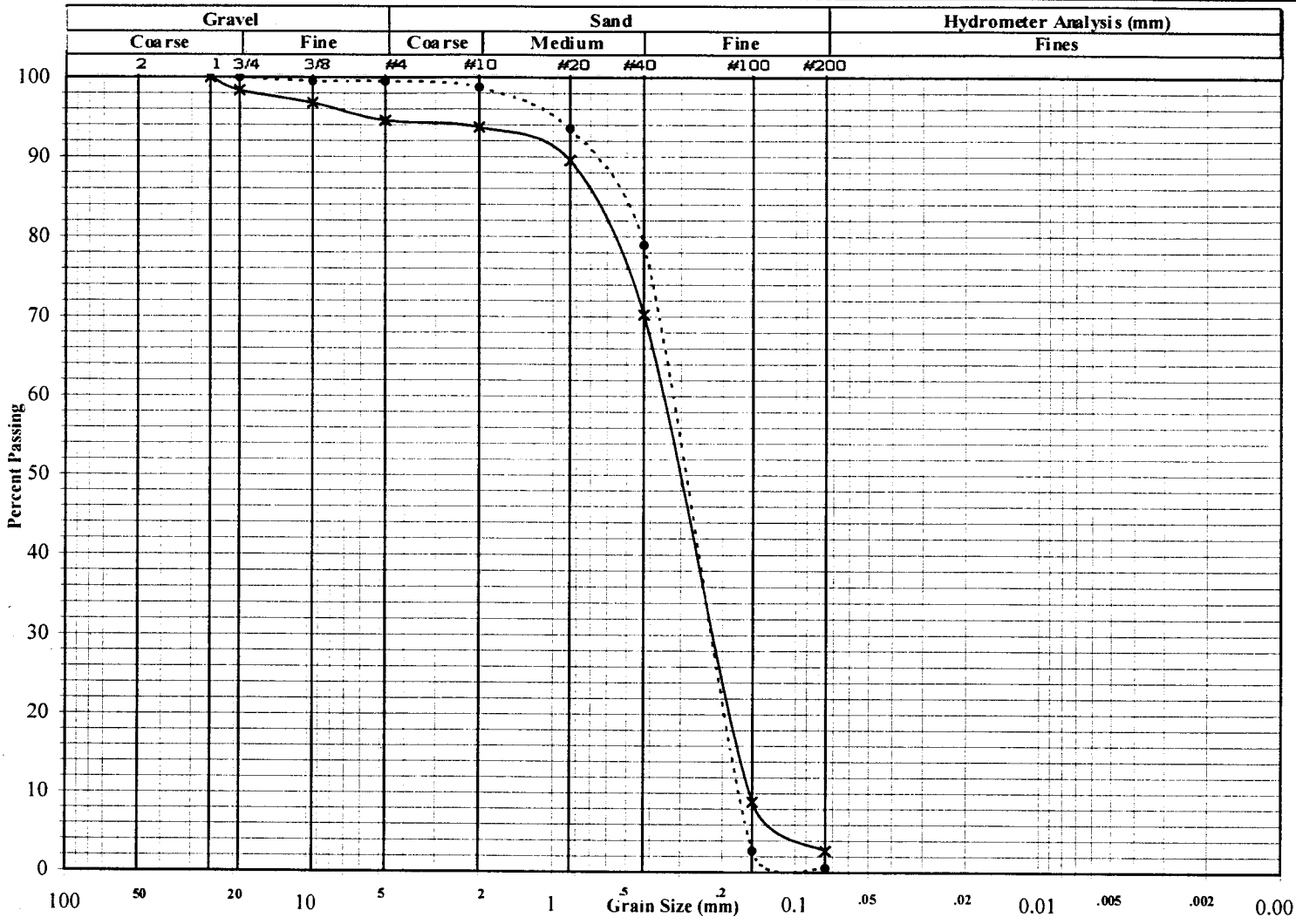
Bloomington, Minnesota 55420-3436

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Grain Size Distribution ASTM D422

Project:	**Eagle**	Job No. :	**5004-B**
Reported To:	**North Jackson Company**	Test Date:	11/24/04
		Report Date:	11/30/04

	Location/ Boring No.	Sample No.	Depth (ft)	Sample Type	Soil Classification
✱	STRMD002	EAG-1001314		Bag	Sand w/a little gravel, a few roots & twigs, fine grained (SP)
●	STRMD003	EAG-1001313		Bag	Sand, fine grained (SP)
◇					



Other Tests

	✱	●	◇
Liquid Limit			
Plastic Limit			
Plasticity Index			
Water Content	22.4	20.3	
Dry Density (PCF)			
Specific Gravity			
Porosity			
Organic Content			
pH			
Shrinkage Limit			
Penetrometer			
Qu (PSF)			

Percent Passing

	✱	●	◇
Mass (g)	1497	2288	
2"			
1.5"			
1"	100.0		
3/4"	98.3	100.0	
3/8"	96.8	99.5	
#4	94.6	99.5	
#10	93.7	98.7	
#20	89.5	93.5	
#40	70.2	78.9	
#100	8.9	2.7	
#200	2.7	0.6	

	✱	●	◇
D_{60}			
D_{30}			
D_{10}			
C_u			
C_C			

Remarks:

*Assumed Value

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SOIL ENGINEERING TESTING, INC.

Bloomington, Minnesota 55420-3436

File:

Permeability Test Data

(Undisturbed / In-situ Samples)

Project: EAGLE Date: 4-19-04

Reported To: NORTH JACKSON COMPANY Job No.: 5004

Boring No.	QAL 002B	QAL 002B	QAL 003B	QAL 004B
Sample No.	EAG-1001071	EAG-1001072	EAG-1001073	EAG-1001074
Depth (Ft)	56-58	118-120	28-30	98-100
Location		(BOTTOM)	(MIDDLE)	(BOTTOM)
Type of Sample	3T	3T	3T	3T
Soil Type	SAND W/SILT, A TRACE OF GRAVEL, FINE GRAINED (SP-SM)	LEAN CLAY (CL)	SILTY CLAY (CL-ML)	SILTY CLAY (CL-ML)
Atterberg Limits				
Liquid Limit				
Plastic Limit				
Plasticity Index				
Permeability Test				
% Saturation (After Test)	NA	101.7	104.8	95.8
Height (Inches)	15.93	2.46	2.64	3.11
Diameter (Inches)	2.88	2.91	2.90	2.91
Dry Density (pcf)	104.1	89.0	95.3	94.4
Water Content (%)	14.2	32.4	26.4	29.1
Type of Test (Head)	Constant	Falling	Falling	Falling
Max. Head Differential (ft)	0.93	5.0	5.0	5.0
Confining Pressure (Effective-psi)	NONE (IN-TUBE TEST)	65.3	15.2	55.0
Trial No.	9-12	12-16	12-16	12-16
Water Temp. (°C)	22.8	23	23	23
Coefficient of Permeability				
K @ 20°C (cm/sec)	2.8×10^{-3}	2.0×10^{-8}	1.9×10^{-6}	1.8×10^{-6}
K @ 20°C (ft/min)	5.5×10^{-3}	3.8×10^{-8}	3.8×10^{-6}	3.6×10^{-6}

Permeability Test Data

(Undisturbed / In-situ Samples)

Project: EAGLE Date: 4-19-04

Reported To: NORTH JACKSON COMPANY Job No.: 5004

Boring No.	QAL006B			
Sample No.	EAG1001075			
Depth (Ft)	118-120			
Location				
Type of Sample	3T			
Soil Type	SILTY SAND, FINE GRAINED (SM)			
Atterberg Limits				
Liquid Limit				
Plastic Limit				
Plasticity Index				
Permeability Test				
% Saturation (After Test)	NA			
Height (Inches)	3.42			
Diameter (Inches)	2.81			
Dry Density (pcf)	108.8			
Water Content (%)	17.2			
Type of Test (Head)	Constant			
Max. Head Differential (ft)	2.08			
Confining Pressure (Effective-psi)	55.3			
Trial No.	8-11			
Water Temp. (°C)	23.0			
Coefficient of Permeability				
K @ 20°C (cm/sec)	2.1×10^{-4}			
K @ 20°C (ft/min)	4.2×10^{-4}			

SET Job#: 500X

Extrusion Log

Date: X-8-0X

Project/Client: Eagle Soils

Boring # (Sample ID)	~~Sample #~~ (Depth (MT))	Recovery (Inches)	Soil Description
QALC028 →	56-58	BE 25 AE 25	Top 9" - Disturbed 9"-25" - Sand w/ Silt, & a Trace of Gravel, Fine Grained (SP)
QAL002B	118-120	BE 26 AE 25½	Top 19" Pickup (SP) 19"-25½" - Lean Clay, Reddish Brown (CL)
QAL003B	28-30	BE 25 AE 24½	Top 4" - Pickup / Disturbed 4"-24½ - Silty Clay, Reddish Brown (CL-ML)
QAL004B	98-100	BE 26 AE 25½	Top 5½ - Pickup / Disturbed 5½-10½ - Silty Clay, Reddish Brown (CL-ML) 10½"-11" - Lean Clay, Blocky Structured Reddish Brown (CL) 11"-25½" - Silty Clay, Reddish Brown (CL-ML)
QAL006	118-120	BE 25 AE 24½	Top 2½ - Disturbed 2½-22 - Silty Sand, Fine grained (SM) 22-24½ - Silt / Disturbed / Reddish Brown (ML)

Permeability Test Data

(Undisturbed / In-situ Samples)

Project: EAGLE Date: 12-13-04

Reported To: NORTH JACKSON COMPANY Job No.: 5004-C

Boring No.	QALB008107	QALB013068	QALB014108	
Sample No.	EAG-1001284	EAG-1001302	EAG-1001306	
Depth (Ft)	107-109 (BOT.)	67-69 (BOT.)	108-110 (M.D. - BOT.)	
Location	QAL008	QAL013	QAL014	
Type of Sample	3T	3T	3T	
Soil Type	LEAN CLAY W/LAMINATIONS OF SILT, FAT CLAY AND SAND W/SILT (CL)	SILT W/A FEW LAMINATIONS OF LEAN CLAY (ML)	LEAN CLAY W/A FEW LAMINATIONS OF SILT (CL)	
Atterberg Limits				
Liquid Limit				
Plastic Limit				
Plasticity Index				
Permeability Test				
% Saturation (After Test)	102.8	104.4	101.0	
Height (Inches)	2.65	2.82	2.92	
Diameter (Inches)	2.87	2.82	2.82	
Dry Density (pcf)	90.4	106.7	86.8	
Water Content (%)	32.6	21.6	35.6	
Type of Test (Head)	FALLING	FALLING	FALLING	
Max. Head Differential (ft)	5.0	5.0	5.0	
Confining Pressure (Effective-psi)	83.1	48.1	86.3	
Trial No.	18-22	28-32	18-22	
Water Temp. (°C)	23	23	23	
Coefficient of Permeability				
K @ 20°C (cm/sec)	3.0×10^{-8}	2.1×10^{-6}	2.2×10^{-8}	
K @ 20°C (ft/min)	5.8×10^{-8}	4.1×10^{-6}	4.3×10^{-8}	

ET Job#: 5004-C **Extrusion Log** Date: 11-22-04

Project/Client: EAGLE / NORTH JACKSON COMPANY

Boring #/Sample#	Depth (ft)	Recovery (Inches)	Soil Description
QALB008107	107-109	B.E. ≈ 27	≈ 1" PICKUP/DISTURBED
EAG-1001284		A.E. ≈ 25	≈ 12" LEAN CLAY W/LAMINATIONS OF SILT, FAT CLAY, SAND W/SILT AND SAND, REDDISH BROWN (CL)
QAL008			≈ 3½" SAND W/SILT, FINE GRAINED, WATERBEARING, REDDISH BROWN (SP-SM)
			≈ 8½" LEAN CLAY W/LAMINATIONS OF SILT, FAT CLAY AND SAND W/SILT, REDDISH BROWN (CL)
QALB013068	67-69	B.E. ≈ 23½	≈ 7" DISTURBED
EAG-1001302		A.E. ≈ 23½	≈ 16½" SILT, W/A FEW LAMINATIONS OF LEAN CLAY, REDDISH BROWN (ML)
QAL013			
QALB014108	108-110	B.E. ≈ 27½	LEAN CLAY, W/A FEW LAMINATIONS OF SILT, REDDISH BROWN W/A LITTLE GRAY MOTTLED (CL)
EAG-1001306		A.E. ≈ 26¾	
QAL014			

LABORATORY REPORTS

Water Quality Samples

Compendium of Laboratory Reports
Water Quality Sample Identification
November 2002 - May 2005
Eagle Project

Sampling Event	Location	Sample ID	KEX ID	Sample Date	TriMatrix (TM) Lab Report	Brooks Rand (BR) Lab Report	Notes
2002 SW Fall Rain Runoff	STRM001	STR001	EAG-1001001	11/5/02	36162-1	02BR612	Sample time error on TM COC and report (1330).
2002 SW Fall Rain Runoff	STRM002	STR002	EAG-1001002	11/5/02	36162-1	02BR612	
2002 SW Fall Rain Runoff	YDRM001	YDR001	EAG-1001003	11/5/02	36162-1	02BR612	
2002 SW Fall Rain Runoff	YDRM002	YDR002	EAG-1001004	11/5/02	36162-1	02BR612	
2002 SW Fall Rain Runoff	STRM002	Duplicate	EAG-1001005	11/5/02	36162-1	02BR612	BR report lists as STR002 (DUP).
2003 SW Winter Baseflow	STRM001	STR001	EAG-1001006	2/25/03	36162-2	03BR089	
2003 SW Winter Baseflow	STRM002	STR002	EAG-1001007	2/25/03	36162-2	03BR089	
2003 SW Winter Baseflow	YDRM001	YDR001	EAG-1001008	2/26/03	36162-2	03BR089	Sample time error on TM COC and report (1200).
2003 SW Winter Baseflow	YDRM002	YDR002	EAG-1001009	2/26/03	36162-2	03BR089	Sample time error on TM COC and report (1400).
2003 SW Winter Baseflow	YDRM002	Duplicate	EAG-1001010	2/26/03	36162-2	03BR089	
2003 SW Spring Snowmelt Runoff	STRM001	STR001	EAG-1001011	4/23 & 5/6/03	36162-3 & 36162-4	03BR236	Sample time error on TM COC and report (1030).
2003 SW Spring Snowmelt Runoff	STRM002	STR002	EAG-1001012	4/23 & 5/6/03	36162-3 & 36162-4	03BR236	Sample time error on TM COC and report (1100).
2003 SW Spring Snowmelt Runoff	YDRM001	YDR001	EAG-1001013	4/23/03	36162-3	03BR236	
2003 SW Spring Snowmelt Runoff	YDRM002	YDR002	EAG-1001014	4/23/03	36162-3	03BR236	
2003 SW Spring Snowmelt Runoff	CDRA001	CR001	EAG-1001015	5/6/03	36162-4	03BR236	Sample time error on TM COC and report (1345).
2003 SW Spring Snowmelt Runoff	CDRA002	CR002	EAG-1001016	5/6/03	36162-4	03BR236	
2003 SW Spring Snowmelt Runoff	CDRA002	M-1	EAG-1001017	5/6/03	36162-4	03BR236	
2003 SW Spring Snowmelt Runoff	QA/QC	Field Blank	EAG-1001456	4/23/03	NA	03BR326	
2003 SW Spring Rain Runoff	STRM001	STR001	EAG-1001018	6/19/03	36162-5	03BR333	
2003 SW Spring Rain Runoff	STRM002	STR002	EAG-1001019	6/19/03	36162-5	03BR333	
2003 SW Spring Rain Runoff	YDRM001	YDR001	EAG-1001020	6/19/03	36162-5	03BR333	
2003 SW Spring Rain Runoff	YDRM002	YDR002	EAG-1001021	6/19/03	36162-5	03BR333	
2003 SW Spring Rain Runoff	CDRA002	CR002	EAG-1001022	6/25/03	36162-5	03BR333	
2003 SW Spring Rain Runoff	CDRA003	CR003	EAG-1001023	6/25/03	36162-5	03BR333	
2003 SW Spring Rain Runoff	QA/QC	Field Blank	EAG-1001024	6/25/03	36162-5	03BR333	
2003 SW Summer Baseflow	STRM001	STR001	EAG-1001025	8/13/03	36162-6	03BR438	
2003 SW Summer Baseflow	STRM002	STR002	EAG-1001026	8/13/03	36162-6	03BR438	
2003 SW Summer Baseflow	YDRM001	YDR001	EAG-1001027	8/13/03	36162-6	03BR438	
2003 SW Summer Baseflow	YDRM002	YDR002	EAG-1001028	8/13/03	36162-6	03BR438	
2003 SW Summer Baseflow	CDRA002	CR002	EAG-1001029	8/14/03	36162-6	03BR438	
2003 SW Summer Baseflow	CDRM004	CR004	EAG-1001030	8/14/03	36162-6	03BR438	
2003 SW Summer Baseflow	CDRA002	Duplicate	EAG-1001031	8/14/03	36162-6	03BR438	
2003 SW Fall Rain Runoff	STRM001	STR001	EAG-1001032	10/28/03	36162-7	03BR680	Sample time error on BR COC (845).
2003 SW Fall Rain Runoff	STRM002	STR002	EAG-1001033	10/28/03	36162-7	03BR680	Sample time error BR COC (1030).
2003 SW Fall Rain Runoff	YDRM001	YDR001	EAG-1001034	10/28/03	36162-7	03BR680	
2003 SW Fall Rain Runoff	YDRM002	YDR002	EAG-1001035	10/28/03	36162-7	03BR680	
2003 SW Fall Rain Runoff	CDRA002	CR002	EAG-1001036	10/29/03	36162-7	03BR680	
2003 SW Fall Rain Runoff	CDRM004	CR004	EAG-1001037	10/29/03	36162-7	03BR680	
2003 SW Fall Rain Runoff	STRM002	Duplicate	EAG-1001038	10/28/03	36162-7	03BR680	
2003 SW Fall Rain Runoff	QA/QC	Field Blank	EAG-1001039	10/28/03	36162-7	03BR680	
Dec 2003 DEQ Split SW	STRM002	STR002	EAG-1001040	12/4/03	36162-8	NA	
Dec 2003 DEQ Split SW	YDRM002	YDR002	EAG-1001041	12/4/03	36162-8	NA	
2004 SW Winter Baseflow	YDRM001	YDRMS001	EAG-1001043	2/18/04	36162-9	04BR109	
2004 SW Winter Baseflow	YDRM002	YDRMS002	EAG-1001044	2/18/04	36162-9	04BR109	
2004 SW Winter Baseflow	STRM002	STRMS002	EAG-1001045	2/18/04	36162-9	04BR109	
2004 SW Winter Baseflow	STRM001	STRMS001	EAG-1001046	2/18/04	36162-9	04BR109	
2004 SW Winter Baseflow	YDRM003	YDRMS003	EAG-1001047	2/19/04	36162-9	04BR109	
2004 SW Winter Baseflow	CDRM004	CDRMS004	EAG-1001048	2/24/04	36162-9	04BR109	
2004 SW Winter Baseflow	CDRA002	CDRAS002	EAG-1001049	2/24/04	36162-9	04BR109	
2004 SW Winter Baseflow	QA/QC	TBK001	EAG-1001050	2/24/04	36162-9	04BR109	Sample includes EQBS001 and FBKS001.
2004 SW Winter Baseflow	STRW001	STRWS001	EAG-1001051	2/24/04	36162-9	04BR109	
2004 SW Winter Baseflow	STRM003	STRMS003	EAG-1001052	2/24/04	36162-9	04BR109	
2004 SW Winter Baseflow	STRE001	STRES001	EAG-1001053	2/24/04	36162-9	04BR109	
2004 SW Winter Baseflow	STRW001	DUP001	EAG-1001054	2/24/04	36162-9	04BR109	
2004 SW Spring Snowmelt Runoff	YDRM001	YDRMS001	EAG-1001059	4/7/04	36162-11	04BR206	Sample ID error on BR COC (YDRMS002). Lab report correct.
2004 SW Spring Snowmelt Runoff	YDRM002	YDRMS002	EAG-1001060	4/6/04	36162-11	04BR206	
2004 SW Spring Snowmelt Runoff	YDRM003	YDRMS003	EAG-1001061	4/6/04	36162-11	04BR206	
2004 SW Spring Snowmelt Runoff	STRM002	STRMS002	EAG-1001062	4/7/04	36162-11	04BR206	
2004 SW Spring Snowmelt Runoff	STRM001	STRMS001	EAG-1001063	4/7/04	36162-11	04BR206	
2004 SW Spring Snowmelt Runoff	STRM003	STRMS003	EAG-1001064	4/7/04	36162-11	04BR206	
2004 SW Spring Snowmelt Runoff	STRW001	STRWS001	EAG-1001065	4/7/04	36162-11	04BR206	
2004 SW Spring Snowmelt Runoff	STRE001	STRES001	EAG-1001066	4/7/04	36162-11	04BR206	
2004 SW Spring Snowmelt Runoff	STRW001	DUPS001	EAG-1001067	4/7/04	36162-11	04BR206	
2004 SW Spring Snowmelt Runoff	CDRM004	CDRMS004	EAG-1001068	4/8/04	36162-11	04BR206	
2004 SW Spring Snowmelt Runoff	CDRA002	CDRAS002	EAG-1001069	4/8/04	36162-11	04BR206	
2004 SW Spring Snowmelt Runoff	QA/QC	EQBS001	EAG-1001070	4/8/04	36162-11	04BR206	Sample includes FBKS001.
2004 GW Spring Snowmelt Runoff	WLD021	WLDP021	EAG-1001055	3/31/04	36162-10	04BR184	
2004 GW Spring Snowmelt Runoff	WLD006	WLDP006	EAG-1001056	3/31/04	36162-10	04BR184	

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2004 GW Spring Snowmelt Runoff	WLD016	WLDP016	EAG-1001057	3/31/04	36162-10	04BR184	
2004 GW Spring Snowmelt Runoff	WLD001	WLDP001	EAG-1001058	3/31/04	36162-10	04BR184	
2004 GW Spring Snowmelt Runoff	QAL003A	QALM003A	EAG-1001087	4/13/04	36162-12	04BR238	
2004 GW Spring Snowmelt Runoff	QAL003B	QALM003B	EAG-1001088	4/13/04	36162-12	04BR238	
2004 GW Spring Snowmelt Runoff	QAL003B	DUP001	EAG-1001089	4/13/04	36162-12	04BR238	Identified by KEX ID only on TM COC.
2004 GW Spring Snowmelt Runoff	QAL004A	QALM004A	EAG-1001090	4/14/04	36162-12	04BR238	
2004 GW Spring Snowmelt Runoff	QAL004D	QALM004D	EAG-1001091	4/14/04	36162-12	04BR238	
2004 GW Spring Snowmelt Runoff	QAL001A	QALM001A	EAG-1001092	4/14/04	36162-12	04BR238	
2004 GW Spring Snowmelt Runoff	QAL001D	QALM001D	EAG-1001093	4/15/04	36162-12	04BR238	
2004 GW Spring Snowmelt Runoff	QAL005A	QALM005A	EAG-1001094	4/15/04	36162-12	04BR238	
2004 GW Spring Snowmelt Runoff	QAL005D	QALM005D	EAG-1001095	4/15/04	36162-12	04BR238	
2004 GW Spring Snowmelt Runoff	QAL006A	QALM006A	EAG-1001096	4/28/04	36162-13	04BR263	
2004 GW Spring Snowmelt Runoff	QAL006A	DUP002	EAG-1001097	4/28/04	36162-13	04BR263	
2004 GW Spring Snowmelt Runoff	QAL006B	QALM006B	EAG-1001098	4/28/04	36162-13	04BR263	
2004 GW Spring Snowmelt Runoff	QAL006B	DUP003	EAG-1001099	4/28/04	36162-13	04BR263	
2004 GW Spring Snowmelt Runoff	QAL002D	QALM002D	EAG-1001100	4/29/04	36162-13	04BR263	Sample date error on BR COC (4/28). Lab report correct.
2004 GW Spring Snowmelt Runoff	QAL002A	QALM002A	EAG-1001101	4/28/04	36162-13	04BR263	
2004 GW Spring Snowmelt Runoff	QAL002A	DUP001	EAG-1001102	4/28/04	36162-13	04BR263	Sample ID error on BR COC (DUP002). Lab report correct.
2004 GW Spring Snowmelt Runoff	QA/QC	FBK001	EAG-1001103	4/29/04	36162-13	04BR263	
2004 GW Spring Snowmelt Runoff	QA/QC	FBK002	EAG-1001104	4/29/04	36162-13	04BR263	
2004 GW Spring Snowmelt Runoff	QA/QC	EQB001	EAG-1001105	4/29/04	36162-13	04BR263	
2004 GW Spring Snowmelt Runoff	QA/QC	EQB002	EAG-1001106	4/29/04	36162-13	04BR263	
2004 SW Spring Rain Runoff	CDRM004	CDRMS004	EAG-1001108	6/29/04	36162-15	04BR460	
2004 SW Spring Rain Runoff	CDRA002	CDRAS002	EAG-1001109	6/29/04	36162-15	04BR460	
2004 SW Spring Rain Runoff	CDRM004	DUPS001	EAG-1001110	6/29/04	36162-15	04BR460	
2004 SW Spring Rain Runoff	STRE001	STRES001	EAG-1001111	6/29/04	36162-15	04BR460	
2004 SW Spring Rain Runoff	STRE002	STRES002	EAG-1001112	6/30/04	36162-15	04BR460	
2004 SW Spring Rain Runoff	STRM003	STRMS003	EAG-1001113	6/29/04	36162-15	04BR460	
2004 SW Spring Rain Runoff	STRW001	DUPS002	EAG-1001114	6/29/04	36162-15	04BR460	
2004 SW Spring Rain Runoff	QA/QC	EQBS001	EAG-1001115	6/30/04	36162-15	04BR460	Sample includes FBKS001.
2004 SW Spring Rain Runoff	QA/QC	EQBS002	EAG-1001116	6/30/04	36162-15	04BR460	Sample includes FBKS002.
2004 SW Spring Rain Runoff	STRW001	STRWS001	EAG-1001117	6/29/04	36162-15	04BR460	
2004 SW Spring Rain Runoff	STRM002	STRMS002	EAG-1001118	6/29/04	36162-15	04BR460	
2004 SW Spring Rain Runoff	YDRM003	YDRMS003	EAG-1001119	6/30/04	36162-15	04BR460	
2004 SW Spring Rain Runoff	YDRM002	YDRMS002	EAG-1001120	6/30/04	36162-15	04BR460	
2004 SW Spring Rain Runoff	STRM001	STRMS001	EAG-1001121	6/30/04	36162-15	04BR460	
2004 SW Spring Rain Runoff	STRM004	STRMS004	EAG-1001122	7/6/04	36162-15	04BR494	
2004 SW Summer Baseflow	STRM001	STRMS001	EAG-1001123	8/4 & 8/5/04	36162-16	04BR528	KEX ID error on BR COC (EAG-1001127).
2004 SW Summer Baseflow	STRM002	STRMS002	EAG-1001124	8/3/04	36162-16	04BR528	
2004 SW Summer Baseflow	STRM003	STRMS003	EAG-1001125	8/4/04	36162-16	04BR528	
2004 SW Summer Baseflow	STRM004	STRMS004	EAG-1001126	8/5/04	36162-16	04BR528	
2004 SW Summer Baseflow	STRM005	STRMS005	EAG-1001127	8/25/04	36162-18	04BR624	
2004 SW Summer Baseflow	STRW001	STRWS001	EAG-1001128	8/5/04	36162-16	04BR528	
2004 SW Summer Baseflow	STRE001	STRES001	EAG-1001129	8/5/04	36162-16	04BR528	
2004 SW Summer Baseflow	STRE002	STRES002	EAG-1001130	8/5/04	36162-16	04BR528	
2004 SW Summer Baseflow	YDRM002	YDRMS002	EAG-1001131	8/3/04	36162-16	04BR528	
2004 SW Summer Baseflow	YDRM003	YDRMS003	EAG-1001132	8/4/04	36162-16	04BR528	
2004 SW Summer Baseflow	CDRA002	CDRAS002	EAG-1001133	8/3/04	36162-16	04BR528	
2004 SW Summer Baseflow	CDRM004	CDRMS004	EAG-1001134	8/3/04	36162-16	04BR528	
2004 SW Summer Baseflow	STRM002	DUPS001	EAG-1001135	8/3/04	36162-16	04BR528	
2004 SW Summer Baseflow	STRM003	DUPS002	EAG-1001136	8/4/04	36162-16	04BR528	
2004 SW Summer Baseflow	QA/QC	EQBS001	EAG-1001137	8/4/04	36162-16	04BR528	Sample includes FBKS001.
2004 SW Summer Baseflow	QA/QC	EQBS002	EAG-1001138	8/4/04	36162-16	04BR528	Sample includes FBKS002.
2004 SW Summer Baseflow	YDRM002	DUPS003	EAG-1001139	8/3/04	36162-16	04BR528	
2004 GW Summer Baseflow	WLD001	WLDP001	EAG-1001143	8/19/04	36162-17	04BR613	
2004 GW Summer Baseflow	WLD006	WLDP006	EAG-1001144	8/18/04	36162-17	04BR613	
2004 GW Summer Baseflow	WLD016	WLDP016	EAG-1001145	8/19/04	36162-17	04BR613	
2004 GW Summer Baseflow	WLD021	WLDP021	EAG-1001146	8/19/04	36162-17	04BR613	
2004 GW Summer Baseflow	QAL001A	QALM001A	EAG-1001147	8/19/04	36162-17	04BR613	
2004 GW Summer Baseflow	QAL001D	QALM001D	EAG-1001148	8/19 & 9/9/04	36162-17 & 36162-19	04BR650	
2004 GW Summer Baseflow	QAL002A	QALM002A	EAG-1001149	8/19/04	36162-17	04BR613	
2004 GW Summer Baseflow	QAL003A	QALM003A	EAG-1001166	8/18/04	36162-17	04BR613	
2004 GW Summer Baseflow	QAL003B	QALM003B	EAG-1001167	8/18/04	36162-17	04BR613	
2004 GW Summer Baseflow	QAL004A	QALM004A	EAG-1001168	8/17/04	36162-17	04BR613	
2004 GW Summer Baseflow	QAL004D	QALM004D	EAG-1001169	8/17/04	36162-17	04BR613	
2004 GW Summer Baseflow	QAL005A	QALM005A	EAG-1001170	8/17/04	36162-17	04BR613	
2004 GW Summer Baseflow	QAL005D	QALM005D	EAG-1001171	8/17/04	36162-17	04BR613	
2004 GW Summer Baseflow	QAL006A	QALM006A	EAG-1001172	8/17/04	36162-17	04BR613	
2004 GW Summer Baseflow	QAL006B	QALM006B	EAG-1001173	8/17/04	36162-17	04BR613	Sample ID error in TM report (QAL006B). Correct on COC.

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2004 GW Summer Baseflow	QAL015	QALP015	EAG-1001174	9/9/04	36162-19	04BR650	
2004 GW Summer Baseflow	QAL016	QALP016	EAG-1001175	9/9/04	36162-19	04BR650	
2004 GW Summer Baseflow	QAL018	QALP018	EAG-1001176	8/19/04	36162-17	04BR613	Sample not on BR COC. Details were phoned in.
2004 GW Summer Baseflow	QAL020	QALP020	EAG-1001177	8/18/04	36162-17	04BR613	
2004 GW Summer Baseflow	QAL004A	DUPM001	EAG-1001178	8/17/04	36162-17	04BR613	
2004 GW Summer Baseflow	QAL005D	DUPM002	EAG-1001179	8/17/04	36162-17	04BR613	
2004 GW Summer Baseflow	QAL016	DUPP003	EAG-1001180	9/9/04	36162-19	04BR650	
2004 GW Summer Baseflow	WLD021	DUPP004	EAG-1001181	8/19/04	36162-17	04BR613	Sample ID errors on TM COC and report (DUP-003 / EAG-1001180) and BR COC and report (DUPM004).
2004 GW Summer Baseflow	QA/QC	FBK001	EAG-1001182	8/25/04	36162-18	NA	
2004 GW Summer Baseflow	QA/QC	FBK002	EAG-1001183	8/25/04	36162-18	NA	
2004 GW Summer Baseflow	QA/QC	EQB001	EAG-1001184	8/25/04	36162-18	04BR624	
2004 GW Summer Baseflow	QA/QC	EQB002	EAG-1001185	8/25/04	36162-18	04BR624	
2004 SW Fall Rain Runoff	STRM002	STRMS002	EAG-1001186	9/14/04	36162-19	04BR693	
2004 SW Fall Rain Runoff	STRM004	STRMS004	EAG-1001187	9/15/04	36162-19	04BR693	
2004 SW Fall Rain Runoff	STRE002	STRES002	EAG-1001188	9/15/04	36162-19	04BR693	
2004 SW Fall Rain Runoff	YDRM002	YDRMS002	EAG-1001189	9/14/04	36162-19	04BR693	
2004 SW Fall Rain Runoff	CDRM004	CDRMS004	EAG-1001190	9/14/04	36162-19	04BR693	Sample date error on BR COC and report (9/15).
2004 SW Fall Rain Runoff	STRM002	DUPS001	EAG-1001191	9/14/04	36162-19	04BR693	
2004 SW Fall Rain Runoff	QA/QC	EQBS001	EAG-1001192	10/12/04	36162-23	NA	
2004 SW Fall Rain Runoff	QA/QC	FBKS001	EAG-1001193	10/12/04	36162-23	04BR763	
2004 GW Fall Rain Runoff	QAL004A	QALM004A	EAG-1001194	9/21/04	36162-19	04BR695	
2004 GW Fall Rain Runoff	QAL004D	QALM004D	EAG-1001195	9/21/04	36162-19	04BR695	
2004 GW Fall Rain Runoff	QAL005A	QALM005A	EAG-1001196	10/6/04	36162-21	04BR754	
2004 GW Fall Rain Runoff	QAL005D	QALM005D	EAG-1001197	9/16/04	36162-19	04BR695	
2004 GW Fall Rain Runoff	QAL006A	QALM006A	EAG-1001198	9/16/04	36162-19	04BR695	
2004 GW Fall Rain Runoff	QAL006B	QALM006B	EAG-1001199	10/6/04	36162-21	04BR754	
2004 GW Fall Rain Runoff	QAL004D	DUPM001	EAG-1001200	9/21/04	36162-19	04BR695	
2004 GW Fall Rain Runoff	QAL004A	DUPM002	EAG-1001201	9/21/04	36162-19	04BR695	
2004 GW Fall Rain Runoff	QA/QC	EQBM001	EAG-1001202	10/12/04	36162-23	04BR763	
2004 GW Fall Rain Runoff	QA/QC	EQBM002	EAG-1001203	10/12/04	36162-23	04BR763	
2004 GW Fall Rain Runoff	QA/QC	FBKM001	EAG-1001204	10/11/04	36162-23	NA	
2004 GW Fall Rain Runoff	QA/QC	FBKM002	EAG-1001205	10/11/04	36162-23	NA	
2004 SW Fall Rain Runoff	STRM001	STRMS001	EAG-1001206	10/4/04	36162-20	04BR754	
2004 SW Fall Rain Runoff	STRM002	STRMS002	EAG-1001207	10/4/04	36162-20	04BR754	
2004 SW Fall Rain Runoff	STRM003	STRMS003	EAG-1001208	10/4/04	36162-20	04BR754	
2004 SW Fall Rain Runoff	STRM004	STRMS004	EAG-1001209	10/6/04	36162-20	04BR754	
2004 SW Fall Rain Runoff	STRM005	STRMS005	EAG-1001210	10/6/04	36162-20	04BR754	
2004 SW Fall Rain Runoff	STRW001	STRWS001	EAG-1001211	10/6/04	36162-20	04BR754	
2004 SW Fall Rain Runoff	STRE001	STRES001	EAG-1001212	10/6/04	36162-20	04BR754	
2004 SW Fall Rain Runoff	STRE002	STRES002	EAG-1001213	10/6/04	36162-20	04BR754	
2004 SW Fall Rain Runoff	YDRM002	YDRMS002	EAG-1001214	10/4/04	36162-20	04BR754	
2004 SW Fall Rain Runoff	YDRM003	YDRMS003	EAG-1001215	10/13/04	36162-23	04BR773	TM report missing COC for this sample.
2004 SW Fall Rain Runoff	CDRA002	CDRAS002	EAG-1001216	10/6/04	36162-20	04BR754	
2004 SW Fall Rain Runoff	CDRM004	CDRMS004	EAG-1001217	10/4/04	36162-20	04BR754	
2004 SW Fall Rain Runoff	CDRA002	DUPS001	EAG-1001218	10/6/04	36162-20	04BR754	
2004 SW Fall Rain Runoff	STRE002	DUPS002	EAG-1001219	10/6/04	36162-20	04BR754	
2004 SW Fall Rain Runoff	QA/QC	EQBS001	EAG-1001221	10/11/04	36162-23	NA	
2004 SW Fall Rain Runoff	QA/QC	EQBS002	EAG-1001222	10/11/04	36162-23	NA	
2004 SW Fall Rain Runoff	QA/QC	FBKS001	EAG-1001223	10/11/04	36162-23	04BR755	
2004 SW Fall Rain Runoff	QA/QC	FBKS002	EAG-1001224	10/11/04	36162-23	04BR755	
2004 GW Fall Rain Runoff	WLDP001	WLDP001	EAG-1001220	10/18/04	36162-24	04BR833	
2004 GW Fall Rain Runoff	WLD006	WLDP006	EAG-1001225	10/19/04	36162-24	04BR833	Sample time error on BR COC (1245).
2004 GW Fall Rain Runoff	WLD016	WLDP016	EAG-1001226	10/19/04	36162-24	04BR833	
2004 GW Fall Rain Runoff	WLD021	WLDP021	EAG-1001227	10/19/04	36162-24	04BR833	Sample time error on BR COC (1130).
2004 GW Fall Rain Runoff	QAL001A	QALM001A	EAG-1001228	10/21/04	36162-24	04BR845	
2004 GW Fall Rain Runoff	QAL001D	QALM001D	EAG-1001229	10/21/04	36162-24	04BR845	
2004 GW Fall Rain Runoff	QAL002A	QALM002A	EAG-1001230	10/20/04	36162-24	04BR833	
2004 GW Fall Rain Runoff	QAL002D	QALM002D	EAG-1001231	10/20/04	36162-24	04BR833	
2004 GW Fall Rain Runoff	QAL003A	QALM003A	EAG-1001232	10/18/04	36162-24	04BR833	
2004 GW Fall Rain Runoff	QAL003B	QALM003B	EAG-1001233	10/18/04	36162-24	04BR833	
2004 GW Fall Rain Runoff	QAL004A	QALM004A	EAG-1001234	10/19 & 11/3/04	36162-24	04BR940	
2004 GW Fall Rain Runoff	QAL004D	QALM004D	EAG-1001235	10/19 & 11/3/04	36162-24	04BR833	
2004 GW Fall Rain Runoff	QAL005A	QALM005A	EAG-1001236	10/20/04	36162-24	04BR833	
2004 GW Fall Rain Runoff	QAL005D	QALM005D	EAG-1001237	10/20/04	36162-24	04BR833	
2004 GW Fall Rain Runoff	QAL006A	QALM006A	EAG-1001238	10/18/04	36162-24	04BR833	
2004 GW Fall Rain Runoff	QAL006B	QALM006B	EAG-1001239	10/18/04	36162-24	04BR833	
2004 GW Fall Rain Runoff	QAL007A	QALM007A	EAG-1001240	10/21/04	36162-24	04BR845	

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2004 GW Fall Rain Runoff	QAL007D	QALM007D	EAG-1001241	10/21/04	36162-24	04BR845	
2004 GW Fall Rain Runoff	QAL008A	QALM008A	EAG-1001242	11/3/04	36162-25	04BR940	
2004 GW Fall Rain Runoff	QAL008D	QALM008D	EAG-1001243	11/3/04	36162-25	04BR940	
2004 GW Fall Rain Runoff	QAL009A	QALM009A	EAG-1001244	10/20/04	36162-24	04BR833	
2004 GW Fall Rain Runoff	QAL009D	QALM009D	EAG-1001245	11/3/04	36162-25	04BR940	
2004 GW Fall Rain Runoff	QAL010A	QALM010A	EAG-1001246	10/20/04	36162-24	04BR833	
2004 GW Fall Rain Runoff	QAL015	QALP015	EAG-1001247	10/18/04	36162-24	04BR833	
2004 GW Fall Rain Runoff	QAL016	QALP016	EAG-1001248	10/20/04	36162-24	04BR833	
2004 GW Fall Rain Runoff	QAL018	QALP018	EAG-1001249	10/20/04	36162-24	04BR833	
2004 GW Fall Rain Runoff	QAL020	QALP020	EAG-1001250	10/21/04	36162-24	04BR845	
2004 GW Fall Rain Runoff	WLD006	DUPP001	EAG-1001256	10/19/04	36162-24	04BR833	
2004 GW Fall Rain Runoff	QAL007A	DUPM002	EAG-1001257	10/21/04	36162-24	04BR845	
2004 GW Fall Rain Runoff	QAL010A	DUPM003	EAG-1001258	10/20/04	36162-24	04BR833	
2004 GW Fall Rain Runoff	QAL018	DUPP004	EAG-1001259	10/20/04	36162-24	04BR833	
2004 GW Fall Rain Runoff	QA/QC	EQBM001	EAG-1001260	11/3/04	36162-25	04BR940	
2004 GW Fall Rain Runoff	QA/QC	EQBM002	EAG-1001261	11/3/04	36162-25	04BR940	
2004 GW Fall Rain Runoff	QA/QC	EQBM003	EAG-1001262	11/3/04	36162-25	04BR940	
2004 GW Fall Rain Runoff	QA/QC	EQBM004	EAG-1001263	11/3/04	36162-25	04BR940	
2004 GW Fall Rain Runoff	QA/QC	FBK001	EAG-1001264	11/3/04	36162-25	NA	
2004 GW Fall Rain Runoff	QA/QC	FBK002	EAG-1001265	11/3/04	36162-25	NA	
2004 GW Fall Rain Runoff	QA/QC	FBK003	EAG-1001266	11/3/04	36162-25	NA	
2004 GW Fall Rain Runoff	QA/QC	FBK004	EAG-1001267	11/3/04	36162-25	NA	
August 2004 Pump Test	04EA054	04EA054A	EAG-1001042	8/2/04	36162-17	04BR573	
August 2004 Pump Test	04EA054	04EA054B	EAG-1001140	8/2/04	36162-17	04BR573	
August 2004 Pump Test	04EA054	04EA054D	EAG-1001141	8/3/04	36162-17	04BR573	
August 2004 Pump Test	04EA054	04EA054E	EAG-1001142	8/4/04	36162-17	04BR573	
SE September	SED07	SE-7	EAG-1001318	9/15/04	36162-19	NA	Sample analyzed only for suspended residue as part of surface erosion (SE) study. No field report included.
2004 SW Fall Rain Runoff	STRM002	STRMS002	EAG-1001268	11/9/04	36162-26	04BR941	
2004 SW Fall Rain Runoff	STRM003	STRMS003	EAG-1001269	11/9/04	36162-26	04BR941	
2004 SW Fall Rain Runoff	STRM001	STRMS001	EAG-1001270	11/9/04	36162-26	04BR941	
2004 SW Fall Rain Runoff	YDRM002	YDRMS002	EAG-1001271	11/9/04	36162-26	04BR941	
2004 SW Fall Rain Runoff	CDRM004	CDRMS004	EAG-1001272	11/9/04	36162-26	04BR941	
2004 SW Fall Rain Runoff	STRM001	DUPS001	EAG-1001273	11/9/04	36162-26	04BR941	
2004 SW Fall Rain Runoff	QA/QC	EQBS001	EAG-1001274	11/9/04	36162-26	04BR941	
2004 SW Fall Rain Runoff	QA/QC	FBKS001	EAG-1001275	11/9/04	36162-26	04BR941	
2004 SW Fall Rain Runoff	STRE006	STRES006	EAG-1001150	11/10/04	36162-26	04BR941	Sample identified as STRES0XX on COCs and in lab reports.
2004 SW Winter Baseflow	STRM002	STRMS002	EAG-1001319	12/14/04	36162-27	05BR092	
2004 SW Winter Baseflow	STRM004	STRMS004	EAG-1001320	12/14/04	36162-27	05BR092	
2004 SW Winter Baseflow	STRE002	STRES002	EAG-1001321	12/14/04	36162-27	05BR092	
2004 SW Winter Baseflow	YDRM002	YDRMS002	EAG-1001322	12/14/04	36162-27	05BR092	
2004 SW Winter Baseflow	CDRM004	CDRMS004	EAG-1001323	12/14/04	36162-27	05BR092	
2004 SW Winter Baseflow	YDRM002	DUPS001	EAG-1001324	12/14/04	36162-27	05BR092	
2004 SW Winter Baseflow	QA/QC	FBKS001	EAG-1001325	12/14/04	36162-27	05BR092	
2004 SW Winter Baseflow	QA/QC	EQBS001	EAG-1001326	12/14/04	36162-27	NA	
2004 GW Winter Baseflow	QAL004A	QALM004A	EAG-1001327	12/15/04	36162-27	05BR091	
2004 GW Winter Baseflow	QAL004D	QALM004D	EAG-1001328	12/15/04	36162-27	05BR091	
2004 GW Winter Baseflow	QAL005A	QALM005A	EAG-1001329	12/15/04	36162-27	05BR091	
2004 GW Winter Baseflow	QAL005D	QALM005D	EAG-1001330	12/15/04	36162-27	05BR091	
2004 GW Winter Baseflow	QAL006A	QALM006A	EAG-1001331	12/28/04	36162-28	05BR115	
2004 GW Winter Baseflow	QAL006B	QALM006B	EAG-1001332	12/28/04	36162-28	05BR115	
2004 GW Winter Baseflow	QAL008A	QALM008A	EAG-1001333	12/28/04	36162-28	05BR115	
2004 GW Winter Baseflow	QAL008D	QALM008D	EAG-1001334	12/28/04	36162-28	05BR115	
2004 GW Winter Baseflow	QAL009A	QALM009A	EAG-1001335	12/28/04	36162-28	05BR115	
2004 GW Winter Baseflow	QAL009D	QALM009D	EAG-1001336	12/28/04	36162-28	05BR115	
2004 GW Winter Baseflow	QAL005A	DUPM001	EAG-1001337	12/15/04	36162-27	05BR091	
2004 GW Winter Baseflow	QAL005D	DUPM002	EAG-1001338	12/15/04	36162-27	05BR091	
2004 GW Winter Baseflow	QA/QC	EQBM001	EAG-1001339	12/15/04	36162-27	05BR091	
2004 GW Winter Baseflow	QA/QC	EQBM002	EAG-1001340	12/15/04	36162-27	05BR091	
2004 GW Winter Baseflow	QA/QC	FBKM001	EAG-1001341	12/15/04	36162-27	NA	
2004 GW Winter Baseflow	QA/QC	FBKM002	EAG-1001342	12/15/04	36162-27	NA	
2005 SW Winter Baseflow	STRM001	STRMS001	EAG-1001343	2/21/05	36162-29	05BR331	Sample ID error on BR COC (STRMS003). Report correct.
2005 SW Winter Baseflow	STRM002	STRMS002	EAG-1001344	2/16/05	36162-29	05BR309	
2005 SW Winter Baseflow	STRM003	STRMS003	EAG-1001345	2/15/05	36162-29	05BR331 & 05BR309	Sample date error on STL COC and report (2/16/05).
2005 SW Winter Baseflow	STRM004	STRMS004	EAG-1001346	2/15/05	36162-29	05BR309	
2005 SW Winter Baseflow	STRM005	STRMS005	EAG-1001347	2/24/05	36162-29	05BR392	
2005 SW Winter Baseflow	STRW001	STRWS001	EAG-1001348	2/15/05	36162-29	05BR309	

Compendium of Laboratory Reports
Water Quality Sample Identification
November 2002 - May 2005
Eagle Project

Sampling Event	Location	Sample ID	KEX ID	Sample Date	TriMatrix (TM) Lab Report	Brooks Rand (BR) Lab Report	Notes
2005 SW Winter Baseflow	STRE001	STRES001	EAG-1001349	2/15/05	36162-29	05BR309	
2005 SW Winter Baseflow	STRE002	STRES002	EAG-1001350	2/21/05	36162-29	05BR331	
2005 SW Winter Baseflow	YDRM002	YDRMS002	EAG-1001351	2/16/05	36162-29	05BR309	
2005 SW Winter Baseflow	YDRM003	YDRMS003	EAG-1001352	2/16/05	36162-29	05BR309	
2005 SW Winter Baseflow	CDRA002	CDRAS002	EAG-1001353	2/15/05	36162-29	05BR309	
2005 SW Winter Baseflow	CDRM004	CDRMS004	EAG-1001354	2/15/05	36162-29	05BR309	
2005 SW Winter Baseflow	STRW001	DUPS001	EAG-1001355	2/15/05	36162-29	05BR309	
2005 SW Winter Baseflow	YDRM002	DUPS002	EAG-1001356	2/16/05	36162-29	05BR309	
2005 SW Winter Baseflow	QA/QC	EQBS001	EAG-1001357	2/21/05	36162-29	NA	
2005 SW Winter Baseflow	QA/QC	EQBS002	EAG-1001358	2/21/05	36162-29	NA	
2005 SW Winter Baseflow	QA/QC	FBKS001	EAG-1001359	2/21/05	36162-29	05BR331	
2005 SW Winter Baseflow	QA/QC	FBKS002	EAG-1001360	2/21/05	36162-29	05BR331	
2005 SW Winter Baseflow	STRE006	STRES006	EAG-1001361	2/21/05	36162-29	05BR331	
2005 GW Winter Baseflow	WLD001	WLDP001	EAG-1001362	2/22/05	36162-30	05BR331	
2005 GW Winter Baseflow	WLD006	WLDP006	EAG-1001363	2/22/05	36162-30	05BR331	
2005 GW Winter Baseflow	WLD016	WLDP016	EAG-1001364	2/22/05	36162-30	05BR331	
2005 GW Winter Baseflow	WLD021	WLDP021	EAG-1001365	2/22/05	36162-30	05BR331	
2005 GW Winter Baseflow	QAL001A	QALM001A	EAG-1001366	3/2/05	36162-30	05BR405	BR COC and report sample date error (3/1/05).
2005 GW Winter Baseflow	QAL001D	QALM001D	EAG-1001367	3/2/05	36162-30	05BR405	
2005 GW Winter Baseflow	QAL002A	QALM002A	EAG-1001368	3/3/05	36162-30	05BR405	
2005 GW Winter Baseflow	QAL002D	QALM002D	EAG-1001369	3/3/05	36162-30	05BR405	
2005 GW Winter Baseflow	QAL003A	QALM003A	EAG-1001370	3/1/05	36162-30	05BR405	
2005 GW Winter Baseflow	QAL003B	QALM003B	EAG-1001371	3/1/05	36162-30	05BR405	
2005 GW Winter Baseflow	QAL004A	QALM004A	EAG-1001372	2/24/05	36162-29	05BR392	
2005 GW Winter Baseflow	QAL004D	QALM004D	EAG-1001373	2/25/05	36162-30	05BR405	
2005 GW Winter Baseflow	QAL005A	QALM005A	EAG-1001374	2/24/05	36162-29	05BR392	
2005 GW Winter Baseflow	QAL005D	QALM005D	EAG-1001375	2/23/05	36162-30	05BR331	
2005 GW Winter Baseflow	QAL006A	QALM006A	EAG-1001376	2/22/05	36162-30	05BR331	
2005 GW Winter Baseflow	QAL006B	QALM006B	EAG-1001377	2/22/05	36162-30	05BR331	
2005 GW Winter Baseflow	QAL007A	QALM007A	EAG-1001378	3/1/05	36162-30	05BR405	
2005 GW Winter Baseflow	QAL007D	QALM007D	EAG-1001379	3/1/05	36162-30	05BR405	
2005 GW Winter Baseflow	QAL008A	QALM008A	EAG-1001380	2/25/05	36162-30	05BR405	
2005 GW Winter Baseflow	QAL008D	QALM008D	EAG-1001381	2/25/05	36162-30	05BR405	
2005 GW Winter Baseflow	QAL009A	QALM009A	EAG-1001382	2/25/05	36162-30	05BR405	
2005 GW Winter Baseflow	QAL009D	QALM009D	EAG-1001383	2/25/08	36162-30	05BR405	
2005 GW Winter Baseflow	QAL010A	QAL010A	EAG-1001384	2/23/05	36162-30	05BR331	
2005 GW Winter Baseflow	QAL015	QALP015	EAG-1001385	3/1/05	36162-30	05BR405	
2005 GW Winter Baseflow	QAL016	QALP016	EAG-1001386	2/23/05	36162-30	05BR331	
2005 GW Winter Baseflow	QAL018	QALP018	EAG-1001387	3/2/05	36162-30	05BR405	
2005 GW Winter Baseflow	QAL020	QALP020	EAG-1001388	2/23/05	36162-30	05BR331	
2005 GW Winter Baseflow	WLD001	DUPP001	EAG-1001389	2/22/05	36162-30	05BR331	
2005 GW Winter Baseflow	QAL005A	DUPM002	EAG-1001390	2/24/05	36162-29	05BR392	
2005 GW Winter Baseflow	QAL005D	DUPM003	EAG-1001391	2/23/05	36162-30	05BR331	
2005 GW Winter Baseflow	QAL016	DUPP004	EAG-1001392	2/23/05	36162-30	05BR331	
2005 GW Winter Baseflow	QA/QC	EQBM001	EAG-1001393	3/3/05	36162-30	05BR392	
2005 GW Winter Baseflow	QA/QC	EQBM002	EAG-1001394	3/3/05	36162-30	05BR392	
2005 GW Winter Baseflow	QA/QC	EQBM003	EAG-1001395	3/3/05	36162-30	05BR392	
2005 GW Winter Baseflow	QA/QC	EQBM004	EAG-1001396	3/3/05	36162-30	05BR392	
2005 GW Winter Baseflow	QA/QC	FBKM001	EAG-1001397	3/3/05	36162-30	NA	
2005 GW Winter Baseflow	QA/QC	FBKM002	EAG-1001398	3/3/05	36162-30	NA	
2005 GW Winter Baseflow	QA/QC	FBKM003	EAG-1001399	3/3/05	36162-30	NA	
2005 GW Winter Baseflow	QA/QC	FBKM004	EAG-1001400	3/3/05	36162-30	NA	
2005 SW Spring Snowmelt Runoff	STRM001	STRMS001	EAG-1001401	4/13/05	36162-31	05BR561	
2005 SW Spring Snowmelt Runoff	STRM002	STRMS002	EAG-1001402	4/13/05	36162-31	05BR561	
2005 SW Spring Snowmelt Runoff	STRM003	STRMS003	EAG-1001403	4/14/05	36162-31	05BR561	
2005 SW Spring Snowmelt Runoff	STRM004	STRMS004	EAG-1001404	4/14/05	36162-31	05BR561	
2005 SW Spring Snowmelt Runoff	STRM005	STRMS005	EAG-1001405	4/13/05	36162-31	05BR561	
2005 SW Spring Snowmelt Runoff	STRW001	STRWS001	EAG-1001406	4/14/05	36162-31	05BR561	
2005 SW Spring Snowmelt Runoff	STRE001	STRES001	EAG-1001407	4/14/05	36162-31	05BR561	
2005 SW Spring Snowmelt Runoff	STRE002	STRES002	EAG-1001408	4/19/05	36162-31	05BR605	
2005 SW Spring Snowmelt Runoff	YDRM002	YDRMS002	EAG-1001409	4/12/05	36162-31	05BR561	
2005 SW Spring Snowmelt Runoff	YDRM003	YDRMS003	EAG-1001410	4/21/05	36162-31	05BR605	
2005 SW Spring Snowmelt Runoff	CDRA002	CDRAS002	EAG-1001411	4/19/05	36162-31	05BR605	
2005 SW Spring Snowmelt Runoff	CDRM004	CDRMS004	EAG-1001412	4/19/05	36162-31	05BR605	
2005 SW Spring Snowmelt Runoff	YDRM002	DUPS001	EAG-1001413	4/12/05	36162-31	05BR561	Sample time error on BR COC (1315).
2005 SW Spring Snowmelt Runoff	STRM002	DUPS002	EAG-1001414	4/13/05	36162-31	05BR561	
2005 SW Spring Snowmelt Runoff	QA/QC	EQBS001	EAG-1001415	4/13/05	36162-31	NA	Not on TM COC details were communicated by phone.
2005 SW Spring Snowmelt Runoff	QA/QC	EQBS002	EAG-1001416	4/14/05	36162-31	NA	
2005 SW Spring Snowmelt Runoff	QA/QC	FBKS001	EAG-1001417	4/13/05	36162-31	05BR561	
2005 SW Spring Snowmelt Runoff	QA/QC	FBKS002	EAG-1001418	4/14/05	36162-31	05BR561	

Compendium of Laboratory Reports
Water Quality Sample Identification
November 2002 - May 2005
Eagle Project

Sampling Event	Location	Sample ID	KEX ID	Sample Date	TriMatrix (TM) Lab Report	Brooks Rand (BR) Lab Report	Notes
2005 GW Spring Snowmelt Runoff	WLD001	WLDP001	EAG-1001419	5/5/05	36162-32	05BR654	
2005 GW Spring Snowmelt Runoff	WLD006	WLDP006	EAG-1001420	5/5/05	36162-32	05BR654	
2005 GW Spring Snowmelt Runoff	WLD016	WLDP016	EAG-1001421	5/4/05	36162-32	05BR654	
2005 GW Spring Snowmelt Runoff	WLD021	WLDP021	EAG-1001422	5/5/05	36162-32	05BR654	
2005 GW Spring Snowmelt Runoff	QAL001A	QALM001A	EAG-1001423	4/28/05	36162-32	05BR654	
2005 GW Spring Snowmelt Runoff	QAL001D	QALM001D	EAG-1001424	4/28/05	36162-32	05BR654	
2005 GW Spring Snowmelt Runoff	QAL002A	QALM002A	EAG-1001425	5/5/05	36162-32	05BR654	
2005 GW Spring Snowmelt Runoff	QAL002D	QALM002D	EAG-1001426	5/5/05	36162-32	05BR654	
2005 GW Spring Snowmelt Runoff	QAL003A	QALM003A	EAG-1001427	4/26/05	36162-32	05BR604	
2005 GW Spring Snowmelt Runoff	QAL003B	QALM003B	EAG-1001428	4/26/05	36162-32	05BR604	
2005 GW Spring Snowmelt Runoff	QAL004A	QALM004A	EAG-1001429	4/27/05	36162-32	05BR604	
2005 GW Spring Snowmelt Runoff	QAL004D	QALM004D	EAG-1001430	4/27/05	36162-32	05BR604	
2005 GW Spring Snowmelt Runoff	QAL005A	QALM005A	EAG-1001431	4/26/05	36162-32	05BR604	
2005 GW Spring Snowmelt Runoff	QAL005D	QALM005D	EAG-1001432	4/26/05	36162-32	05BR604	
2005 GW Spring Snowmelt Runoff	QAL006A	QALM006A	EAG-1001433	4/27/05	36162-32	05BR604	
2005 GW Spring Snowmelt Runoff	QAL006B	QALM006B	EAG-1001434	4/27/05	36162-32	05BR604	
2005 GW Spring Snowmelt Runoff	QAL007A	QALM007A	EAG-1001435	4/26/05	36162-32	05BR604	
2005 GW Spring Snowmelt Runoff	QAL007D	QALM007D	EAG-1001436	4/26/05	36162-32	05BR604	
2005 GW Spring Snowmelt Runoff	QAL008A	QALM008A	EAG-1001437	4/27/05	36162-32	05BR604	
2005 GW Spring Snowmelt Runoff	QAL008D	QALM008D	EAG-1001438	4/27/05	36162-32	05BR604	
2005 GW Spring Snowmelt Runoff	QAL009A	QALM009A	EAG-1001439	4/27/05	36162-32	05BR604	
2005 GW Spring Snowmelt Runoff	QAL009D	QALM009D	EAG-1001440	4/28/05	36162-32	05BR654	
2005 GW Spring Snowmelt Runoff	QAL010A	QALM010A	EAG-1001441	4/26/05	36162-32	05BR604	
2005 GW Spring Snowmelt Runoff	QAL015	QALP015	EAG-1001442	5/3/05	36162-32	05BR654	
2005 GW Spring Snowmelt Runoff	QAL016	QALP016	EAG-1001443	5/3/05	36162-32	05BR654	
2005 GW Spring Snowmelt Runoff	QAL018	QALP018	EAG-1001444	5/3/05	36162-32	05BR654	
2005 GW Spring Snowmelt Runoff	QAL020	QALP020	EAG-1001445	5/3/05	36162-32	05BR654	
2005 GW Spring Snowmelt Runoff	WLD006	DUPP001	EAG-1001446	5/5/05	36162-32	05BR654	
2005 GW Spring Snowmelt Runoff	QAL004A	DUPM002	EAG-1001447	4/27/05	36162-32	05BR604	
2005 GW Spring Snowmelt Runoff	QAL004D	DUPM003	EAG-1001448	4/27/05	36162-32	05BR604	
2005 GW Spring Snowmelt Runoff	QALP016	DUPP004	EAG-1001449	5/3/05	36162-32	05BR654	
2005 GW Spring Snowmelt Runoff	QA/QC	EQBM001	EAG-1001450	5/3/05	36162-32	05BR654	
2005 GW Spring Snowmelt Runoff	QA/QC	EQBM002	EAG-1001451	5/3/05	36162-32	05BR654	
2005 GW Spring Snowmelt Runoff	QA/QC	EQBM003	EAG-1001452	5/5/05	36162-32	05BR654	
2005 GW Spring Snowmelt Runoff	QA/QC	EQBM004	EAG-1001453	5/5/05	36162-32	05BR654	
2005 GW Spring Snowmelt Runoff	QA/QC	FBKM001	EAG-1001454	5/3/05	36162-32	NA	
2005 GW Spring Snowmelt Runoff	QA/QC	FBKM002	EAG-1001455	5/3/05	36162-32	NA	
2005 GW Spring Snowmelt Runoff	QA/QC	FBKM003	EAG-1001457	5/5/05	36162-32	NA	
2005 GW Spring Snowmelt Runoff	QA/QC	FBKM004	EAG-1001458	5/5/05	36162-32	NA	

November 27, 2002

North Jackson Company
Attn: Mr. Peter Sabee
420 Rail Street
Negaunee, MI 49866

RE: Yellow Dog

Dear Mr. Peter Sabee:

Enclosed is a copy of your laboratory report and invoice for submittal **36162-1.** This submittal was completely received on November 6, 2002. All analyses have been validated and comply with our Quality Control program statistics unless otherwise noted.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosure

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Individual sample results relate only to the sample tested.

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Residue,Dissolved @ 180*C**
Residue-Gravimetric, Dried @ 180*C
WATER 160.1/SM 2540 C

Qualification:

The detection limit for this sample and corresponding analysis were elevated due to insufficient sample volume received.

Sample(s) Qualified: 319654 Duplicate

Analysis: **Residue, Suspended**
Residue-Gravimetric, Dried @ 103-105*C
WATER 160.2/SM 2540 D

Qualification:

The detection limit for this sample and corresponding analysis were elevated due to insufficient sample volume received.

Sample(s) Qualified:		
	319650	STR001
	319651	STR002
	319652	YDR001
	319653	YDR002
	319654	Duplicate

Note: This document is included as a part of the analytical report for the above referenced project and submittal, and should be retained as a permanent record thereof.

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Sodium, Dissolved**
Atomic Emission-ICP
WATER EPA-200.7/6010B

Qualification:

Duplicate instrument injection/aspiration precision was >20% RSD for this sample and analysis. Sample result must be considered estimated.

Explanation for Sample(s) listed below:

Replicates read 0.41 and 0.85 mg/L.

Sample(s) Qualified: 319654 Duplicate

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36162- 1

CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

The pH value of the sample is 6.60.

Sample(s) Narrated: 319653 YDR002

Explanation for Sample(s) listed below:

The pH value of the sample is 6.66.

Sample(s) Narrated: 319650 STR001

Explanation for Sample(s) listed below:

The pH value of the sample is 6.80.

Sample(s) Narrated: 319652 YDR001

Explanation for Sample(s) listed below:

The pH value of the sample is 7.03.

Sample(s) Narrated: 319654 Duplicate

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CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

The pH value of the sample is 7.04.

Sample(s) Narrated: 319651 STR002

Analysis: **BOD, (5-Day)**
Biochemical Oxygen Demand
WATER SDM 5210B

Narrative:

The reported Biochemical Oxygen Demand result for this sample was calculated on an oxygen depletion of <2.0 mg/l

Sample(s) Narrated:

319650	STR001
319651	STR002
319652	YDR001
319653	YDR002

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CASE NARRATIVE

Analysis: **Coliform, Total**
Enzyme Substrate Test (MPN)
WATER SM 9223B(9221C)

Narrative:

Total coliform bacterial colonies were detected in this sample. A confirmation procedure for the presence of E. coli was NEGATIVE.

Sample(s) Narrated:	319650	STR001
	319651	STR002
	319654	Duplicate

Narrative:

Total coliform bacterial colonies were detected in this sample. A confirmation procedure for the presence of E. coli was POSITIVE.

Sample(s) Narrated:	319652	YDR001
	319653	YDR002

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TriMatrix
Laboratories, Inc.

ANALYTICAL REPORT

North Jackson Company
Project: Yellow Dog

Submittal: November 5, 2002 Samples

Submittal #: **36162-1**
Sampled: 11/05/02 @ 13:30
Sampler: D. Wiitala
Received: 11/06/02 @ 08:55

Sample #: **319650**
Sample ID: **STR001**

Matrix: Water

Parameter	Analytical Result	Quant. Limit	Unit	Analysis Date	Chem	Reference Citation
SGT-HEM;Nonpolar Material	<10	10	mg/L	11/12/02	JMJ	USEPA-1664
Silver, Total	<0.2	0.2	ug/L	11/25/02	JAC	EPA-200.8/6020
Arsenic, Total	<1.0	1.0	ug/L	11/25/02	JAC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	11/25/02	JAC	EPA-200.8/6020
Beryllium, Total	<1.0	1.0	ug/L	11/25/02	JAC	EPA-200.8/6020
Boron, Total	<50	50	ug/L	11/25/02	JAC	EPA-200.8/6020
Aluminum, Total	<200	200	ug/L	11/14/02	DSC	EPA-200.7/6010B
Cadmium, Total	<0.2	0.2	ug/L	11/25/02	JAC	EPA-200.8/6020
Cobalt, Total	<10	10	ug/L	11/25/02	JAC	EPA-200.8/6020
Chromium, Total	<1.0	1.0	ug/L	11/25/02	JAC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	11/25/02	JAC	EPA-200.8/6020
Iron, Total	290	20	ug/L	11/14/02	DSC	EPA-200.7/6010B
Lithium, Total	<20	20	ug/L	11/14/02	DSC	EPA-200.7/6010B
Manganese, Total	12	10	ug/L	11/25/02	JAC	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	11/25/02	JAC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	11/25/02	JAC	EPA-200.8/6020
Lead, Total	<1.0	1.0	ug/L	11/25/02	JAC	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	11/25/02	JAC	EPA-200.8/6020
Antimony, Total	<2.0	2.0	ug/L	11/12/02	DWJ	EPA-200.8/6020
Zinc, Total	<10	10	ug/L	11/25/02	JAC	EPA-200.8/6020
Chloride	<1.0	1.0	mg/L	11/12/02	SAJ	325.2/4500-CL E
Nitrogen, Nitrate	<0.05	0.05	mg/L	11/06/02	JLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	11/06/02	JLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	11/13/02	GEH	350.1/4500 NH3G
Fluoride	<0.10	0.10	mg/L	11/08/02	VAS	340.2/4500 F-C
Sulfide	<1.0	1.0	mg/L	11/12/02	HLB	376.1/4500 S2-F
Sulfate	<5.0	5.0	mg/L	11/12/02	JLB	375.2/4500 SO4F
Calcium, Dissolved	4.7	0.50	mg/L	11/21/02	JMF	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	11/21/02	JMF	EPA-200.7/6010B
Magnesium, Dissolved	1.1	0.50	mg/L	11/21/02	JMF	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	11/21/02	JMF	EPA-200.7/6010B
Alkalinity, Bicarbonate	13	2.0	mg/L	11/07/02	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	11/07/02	VAS	310.1/SM 2320 B
Alkalinity, Total	13	2.0	mg/L	11/07/02	VAS	310.1/SM 2320 B
Hardness, (EDTA) as CaCO3	21	2.0	mg/L	11/08/02	VAS	130.2/SM 2340 C

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TriMatrix
Laboratories, Inc.

ANALYTICAL REPORT

North Jackson Company
Project: Yellow Dog

Submittal: November 5, 2002 Samples

Submittal #: **36162-1**
Sampled: 11/05/02 @ 13:30
Sampler: D. Wiitala
Received: 11/06/02 @ 08:55

Sample #: **319650**
Sample ID: **STR001**

Matrix: Water

Parameter	Analytical Result	Quant. Limit	Unit	Analysis Date	Chem	Reference Citation
BOD, (5-Day)	1.3	1.0	mg/L	11/07/02	HLB	SDM 5210B
Chemical Oxygen Demand	16	5.0	mg/L	11/12/02	JMJ	410.4/SM 5220 D
Coliform, Total	1600	2	col/100mL	11/06/02	HLB	SM 9223B(9221C)
Color (Apparent)	60	5	A.C.U.	11/07/02	GEH	USEPA-110.2
Turbidity	<1.0	1.0	NTU	11/06/02	HLB	USEPA-180.1
Residue, Suspended	*<5	5	mg/L	11/07/02	INR	160.2/SM 2540 D
Residue,Dissolved @ 180*C	56	50	mg/L	11/07/02	INR	160.1/SM 2540 C
Carbon, Dissolved Organic	8.9	1.0	mg/L	11/07/02	GEH	EPA-415.1/9060
Carbon, Total Organic	6.3	1.0	mg/L	11/07/02	GEH	EPA-415.1/9060

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

North Jackson Company
Project: Yellow Dog

Submittal: November 5, 2002 Samples

Sample #: **319650**
Sample ID: **STR001**

Matrix: Water

Submittal #: **36162-1**
Sampled: 11/05/02 @ 13:30
Sampler: D. Wiitala
Received: 11/06/02 @ 08:55
Extracted:
Analyzed: 11/14/02 by LEW
Ref. Citation: USEPA-8260B
Dilution Factor: 1
Analytical Batch: 194133
QC Batch: 080597-114

CAS Number	Volatile Organics USEPA Method 8260B	Analytical Result (ug/L)	Quantitation Limit (ug/L)
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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ANALYTICAL REPORT

North Jackson Company
Project: Yellow Dog

Submittal: November 5, 2002 Samples

Submittal #: **36162-1**
Sampled: 11/05/02 @ 10:30
Sampler: D. Wiitala
Received: 11/06/02 @ 08:55

Sample #: **319651**
Sample ID: **STR002**

Matrix: Water

Parameter	Analytical Result	Quant. Limit	Unit	Analysis Date	Chem	Reference Citation
SGT-HEM;Nonpolar Material	<10	10	mg/L	11/12/02	JMJ	USEPA-1664
Silver, Total	<0.2	0.2	ug/L	11/25/02	JAC	EPA-200.8/6020
Arsenic, Total	<1.0	1.0	ug/L	11/25/02	JAC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	11/25/02	JAC	EPA-200.8/6020
Beryllium, Total	<1.0	1.0	ug/L	11/25/02	JAC	EPA-200.8/6020
Boron, Total	<50	50	ug/L	11/25/02	JAC	EPA-200.8/6020
Aluminum, Total	<200	200	ug/L	11/14/02	DSC	EPA-200.7/6010B
Cadmium, Total	<0.2	0.2	ug/L	11/25/02	JAC	EPA-200.8/6020
Cobalt, Total	<10	10	ug/L	11/25/02	JAC	EPA-200.8/6020
Chromium, Total	<1.0	1.0	ug/L	11/25/02	JAC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	11/25/02	JAC	EPA-200.8/6020
Iron, Total	180	20	ug/L	11/14/02	DSC	EPA-200.7/6010B
Lithium, Total	<20	20	ug/L	11/14/02	DSC	EPA-200.7/6010B
Manganese, Total	<10	10	ug/L	11/25/02	JAC	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	11/25/02	JAC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	11/25/02	JAC	EPA-200.8/6020
Lead, Total	<1.0	1.0	ug/L	11/25/02	JAC	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	11/25/02	JAC	EPA-200.8/6020
Antimony, Total	<2.0	2.0	ug/L	11/12/02	DWJ	EPA-200.8/6020
Zinc, Total	<10	10	ug/L	11/25/02	JAC	EPA-200.8/6020
Chloride	<1.0	1.0	mg/L	11/12/02	SAJ	325.2/4500-CL E
Nitrogen, Nitrate	0.06	0.05	mg/L	11/06/02	JLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	11/06/02	JLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	11/13/02	GEH	350.1/4500 NH3G
Fluoride	<0.10	0.10	mg/L	11/08/02	VAS	340.2/4500 F-C
Sulfide	<1.0	1.0	mg/L	11/12/02	HLB	376.1/4500 S2-F
Sulfate	<5.0	5.0	mg/L	11/12/02	JLB	375.2/4500 SO4F
Calcium, Dissolved	7.4	0.50	mg/L	11/21/02	JMF	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	11/21/02	JMF	EPA-200.7/6010B
Magnesium, Dissolved	1.5	0.50	mg/L	11/21/02	JMF	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	11/21/02	JMF	EPA-200.7/6010B
Alkalinity, Bicarbonate	30	2.0	mg/L	11/07/02	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	11/07/02	VAS	310.1/SM 2320 B
Alkalinity, Total	30	2.0	mg/L	11/07/02	VAS	310.1/SM 2320 B
Hardness, (EDTA) as CaCO3	34	2.0	mg/L	11/08/02	VAS	130.2/SM 2340 C

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ANALYTICAL REPORT

North Jackson Company
Project: Yellow Dog

Submittal: November 5, 2002 Samples

Submittal #: **36162-1**
Sampled: 11/05/02 @ 10:30
Sampler: D. Wiitala
Received: 11/06/02 @ 08:55

Sample #: **319651**
Sample ID: **STR002**

Matrix: Water

Parameter	Analytical Result	Quant. Limit	Unit	Analysis Date	Chem	Reference Citation
BOD, (5-Day)	1.2	1.0	mg/L	11/07/02	HLB	SDM 5210B
Chemical Oxygen Demand	14	5.0	mg/L	11/12/02	JMJ	410.4/SM 5220 D
Coliform, Total	140	2	col/100mL	11/06/02	HLB	SM 9223B(9221C)
Color (Apparent)	70	5	A.C.U.	11/07/02	GEH	USEPA-110.2
Turbidity	<1.0	1.0	NTU	11/06/02	HLB	USEPA-180.1
Residue, Suspended	*<5	5	mg/L	11/07/02	INR	160.2/SM 2540 D
Residue,Dissolved @ 180*C	64	50	mg/L	11/07/02	INR	160.1/SM 2540 C
Carbon, Dissolved Organic	7.6	1.0	mg/L	11/07/02	GEH	EPA-415.1/9060
Carbon, Total Organic	6.1	1.0	mg/L	11/07/02	GEH	EPA-415.1/9060

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

North Jackson Company
Project: Yellow Dog

Submittal: November 5, 2002 Samples

Sample #: **319651**
Sample ID: **STR002**

Matrix: Water

Submittal #: **36162-1**
Sampled: 11/05/02 @ 10:30
Sampler: D. Wiitala
Received: 11/06/02 @ 08:55
Extracted:
Analyzed: 11/14/02 by LEW
Ref. Citation: USEPA-8260B
Dilution Factor: 1
Analytical Batch: 194133
QC Batch: 080597-114

CAS Number	Volatile Organics USEPA Method 8260B	Analytical Result (ug/L)	Quantitation Limit (ug/L)
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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ANALYTICAL REPORT

North Jackson Company
Project: Yellow Dog

Submittal: November 5, 2002 Samples

Submittal #: **36162-1**
Sampled: 11/05/02 @ 15:30
Sampler: D. Wiitala
Received: 11/06/02 @ 08:55

Sample #: **319652**
Sample ID: **YDR001**

Matrix: Water

Parameter	Analytical Result	Quant. Limit	Unit	Analysis Date	Chem	Reference Citation
SGT-HEM;Nonpolar Material	<10	10	mg/L	11/12/02	JMJ	USEPA-1664
Silver, Total	<0.2	0.2	ug/L	11/25/02	JAC	EPA-200.8/6020
Arsenic, Total	<1.0	1.0	ug/L	11/25/02	JAC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	11/25/02	JAC	EPA-200.8/6020
Beryllium, Total	<1.0	1.0	ug/L	11/25/02	JAC	EPA-200.8/6020
Boron, Total	<50	50	ug/L	11/25/02	JAC	EPA-200.8/6020
Aluminum, Total	<200	200	ug/L	11/14/02	DSC	EPA-200.7/6010B
Cadmium, Total	<0.2	0.2	ug/L	11/25/02	JAC	EPA-200.8/6020
Cobalt, Total	<10	10	ug/L	11/25/02	JAC	EPA-200.8/6020
Chromium, Total	<1.0	1.0	ug/L	11/25/02	JAC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	11/25/02	JAC	EPA-200.8/6020
Iron, Total	510	20	ug/L	11/14/02	DSC	EPA-200.7/6010B
Lithium, Total	<20	20	ug/L	11/14/02	DSC	EPA-200.7/6010B
Manganese, Total	34	10	ug/L	11/25/02	JAC	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	11/25/02	JAC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	11/25/02	JAC	EPA-200.8/6020
Lead, Total	<1.0	1.0	ug/L	11/25/02	JAC	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	11/25/02	JAC	EPA-200.8/6020
Antimony, Total	<2.0	2.0	ug/L	11/12/02	DWJ	EPA-200.8/6020
Zinc, Total	<10	10	ug/L	11/25/02	JAC	EPA-200.8/6020
Chloride	<1.0	1.0	mg/L	11/12/02	SAJ	325.2/4500-CL E
Nitrogen, Nitrate	0.06	0.05	mg/L	11/06/02	JLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	11/06/02	JLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	11/13/02	GEH	350.1/4500 NH3G
Fluoride	<0.10	0.10	mg/L	11/08/02	VAS	340.2/4500 F-C
Sulfide	<1.0	1.0	mg/L	11/12/02	HLB	376.1/4500 S2-F
Sulfate	12	5.0	mg/L	11/12/02	JLB	375.2/4500 SO4F
Calcium, Dissolved	6.3	0.50	mg/L	11/21/02	JMF	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	11/21/02	JMF	EPA-200.7/6010B
Magnesium, Dissolved	1.4	0.50	mg/L	11/21/02	JMF	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	11/21/02	JMF	EPA-200.7/6010B
Alkalinity, Bicarbonate	25	2.0	mg/L	11/07/02	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	11/07/02	VAS	310.1/SM 2320 B
Alkalinity, Total	25	2.0	mg/L	11/07/02	VAS	310.1/SM 2320 B
Hardness, (EDTA) as CaCO3	22	2.0	mg/L	11/08/02	VAS	130.2/SM 2340 C

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ANALYTICAL REPORT

North Jackson Company
Project: Yellow Dog

Submittal: November 5, 2002 Samples

Submittal #: **36162-1**
Sampled: 11/05/02 @ 15:30
Sampler: D. Wiitala
Received: 11/06/02 @ 08:55

Sample #: **319652**
Sample ID: **YDR001**

Matrix: Water

Parameter	Analytical Result	Quant. Limit	Unit	Analysis Date	Chem	Reference Citation
BOD, (5-Day)	1.4	1.0	mg/L	11/07/02	HLB	SDM 5210B
Chemical Oxygen Demand	26	5.0	mg/L	11/12/02	JMJ	410.4/SM 5220 D
Coliform, Total	280	2	col/100mL	11/06/02	HLB	SM 9223B(9221C)
Color (Apparent)	100	5	A.C.U.	11/07/02	GEH	USEPA-110.2
Turbidity	1.3	1.0	NTU	11/06/02	HLB	USEPA-180.1
Residue, Suspended	*<5	5	mg/L	11/07/02	INR	160.2/SM 2540 D
Residue,Dissolved @ 180*C	68	50	mg/L	11/07/02	INR	160.1/SM 2540 C
Carbon, Dissolved Organic	12	1.0	mg/L	11/07/02	GEH	EPA-415.1/9060
Carbon, Total Organic	12	1.0	mg/L	11/07/02	GEH	EPA-415.1/9060

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

North Jackson Company
Project: Yellow Dog

Submittal: November 5, 2002 Samples

Sample #: **319652**
Sample ID: **YDR001**

Matrix: Water

Submittal #: **36162-1**
Sampled: 11/05/02 @ 15:30
Sampler: D. Wiitala
Received: 11/06/02 @ 08:55
Extracted:
Analyzed: 11/14/02 by LEW
Ref. Citation: USEPA-8260B
Dilution Factor: 1
Analytical Batch: 194133
QC Batch: 080597-114

CAS Number	Volatile Organics USEPA Method 8260B	Analytical Result (ug/L)	Quantitation Limit (ug/L)
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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ANALYTICAL REPORT

North Jackson Company
Project: Yellow Dog

Submittal: November 5, 2002 Samples

Submittal #: **36162-1**
Sampled: 11/05/02 @ 14:30
Sampler: D. Wiitala
Received: 11/06/02 @ 08:55

Sample #: **319653**
Sample ID: **YDR002**

Matrix: Water

Parameter	Analytical Result	Quant. Limit	Unit	Analysis Date	Chem	Reference Citation
SGT-HEM;Nonpolar Material	<10	10	mg/L	11/12/02	JMJ	USEPA-1664
Silver, Total	<0.2	0.2	ug/L	11/25/02	JAC	EPA-200.8/6020
Arsenic, Total	<1.0	1.0	ug/L	11/25/02	JAC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	11/25/02	JAC	EPA-200.8/6020
Beryllium, Total	<1.0	1.0	ug/L	11/25/02	JAC	EPA-200.8/6020
Boron, Total	<50	50	ug/L	11/25/02	JAC	EPA-200.8/6020
Aluminum, Total	<200	200	ug/L	11/14/02	DSC	EPA-200.7/6010B
Cadmium, Total	<0.2	0.2	ug/L	11/25/02	JAC	EPA-200.8/6020
Cobalt, Total	<10	10	ug/L	11/25/02	JAC	EPA-200.8/6020
Chromium, Total	<1.0	1.0	ug/L	11/25/02	JAC	EPA-200.8/6020
Copper, Total	1.1	1.0	ug/L	11/25/02	JAC	EPA-200.8/6020
Iron, Total	620	20	ug/L	11/14/02	DSC	EPA-200.7/6010B
Lithium, Total	<20	20	ug/L	11/14/02	DSC	EPA-200.7/6010B
Manganese, Total	37	10	ug/L	11/25/02	JAC	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	11/25/02	JAC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	11/25/02	JAC	EPA-200.8/6020
Lead, Total	<1.0	1.0	ug/L	11/25/02	JAC	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	11/25/02	JAC	EPA-200.8/6020
Antimony, Total	<2.0	2.0	ug/L	11/12/02	DWJ	EPA-200.8/6020
Zinc, Total	<10	10	ug/L	11/25/02	JAC	EPA-200.8/6020
Chloride	<1.0	1.0	mg/L	11/12/02	SAJ	325.2/4500-CL E
Nitrogen, Nitrate	0.05	0.05	mg/L	11/06/02	JLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	11/06/02	JLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	11/13/02	GEH	350.1/4500 NH3G
Fluoride	<0.10	0.10	mg/L	11/08/02	VAS	340.2/4500 F-C
Sulfide	<1.0	1.0	mg/L	11/12/02	HLB	376.1/4500 S2-F
Sulfate	15	5.0	mg/L	11/12/02	JLB	375.2/4500 SO4F
Calcium, Dissolved	6.6	0.50	mg/L	11/21/02	JMF	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	11/21/02	JMF	EPA-200.7/6010B
Magnesium, Dissolved	1.4	0.50	mg/L	11/21/02	JMF	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	11/21/02	JMF	EPA-200.7/6010B
Alkalinity, Bicarbonate	20	2.0	mg/L	11/07/02	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	11/07/02	VAS	310.1/SM 2320 B
Alkalinity, Total	20	2.0	mg/L	11/07/02	VAS	310.1/SM 2320 B
Hardness, (EDTA) as CaCO3	23	2.0	mg/L	11/08/02	VAS	130.2/SM 2340 C

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ANALYTICAL REPORT

North Jackson Company
Project: Yellow Dog

Submittal: November 5, 2002 Samples

Submittal #: **36162-1**
Sampled: 11/05/02 @ 14:30
Sampler: D. Wiitala
Received: 11/06/02 @ 08:55

Sample #: **319653**
Sample ID: **YDR002**

Matrix: Water

Parameter	Analytical Result	Quant. Limit	Unit	Analysis Date	Chem	Reference Citation
BOD, (5-Day)	1.3	1.0	mg/L	11/07/02	HLB	SDM 5210B
Chemical Oxygen Demand	28	5.0	mg/L	11/12/02	JMJ	410.4/SM 5220 D
Coliform, Total	240	2	col/100mL	11/06/02	HLB	SM 9223B(9221C)
Color (Apparent)	125	5	A.C.U.	11/07/02	GEH	USEPA-110.2
Turbidity	3.8	1.0	NTU	11/06/02	HLB	USEPA-180.1
Residue, Suspended	*<5	5	mg/L	11/07/02	INR	160.2/SM 2540 D
Residue,Dissolved @ 180*C	68	50	mg/L	11/07/02	INR	160.1/SM 2540 C
Carbon, Dissolved Organic	13	1.0	mg/L	11/07/02	GEH	EPA-415.1/9060
Carbon, Total Organic	12	1.0	mg/L	11/07/02	GEH	EPA-415.1/9060

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

North Jackson Company
Project: Yellow Dog

Submittal: November 5, 2002 Samples

Sample #: **319653**
Sample ID: **YDR002**

Matrix: Water

Submittal #: **36162-1**
Sampled: 11/05/02 @ 14:30
Sampler: D. Wiitala
Received: 11/06/02 @ 08:55
Extracted:
Analyzed: 11/14/02 by LEW
Ref. Citation: USEPA-8260B
Dilution Factor: 1
Analytical Batch: 194133
QC Batch: 080597-114

CAS Number	Volatile Organics USEPA Method 8260B	Analytical Result (ug/L)	Quantitation Limit (ug/L)
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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ANALYTICAL REPORT

North Jackson Company
Project: Yellow Dog

Submittal: November 5, 2002 Samples

Submittal #: **36162-1**
Sampled: 11/05/02 @ 00:00
Sampler: D. Wiitala
Received: 11/06/02 @ 08:55

Sample #: **319654**
Sample ID: **Duplicate**

Matrix: Water

Parameter	Analytical Result	Quant. Limit	Unit	Analysis Date	Chem	Reference Citation
SGT-HEM;Nonpolar Material	<10	10	mg/L	11/12/02	JMJ	USEPA-1664
Silver, Total	<0.2	0.2	ug/L	11/25/02	JAC	EPA-200.8/6020
Arsenic, Total	<1.0	1.0	ug/L	11/25/02	JAC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	11/25/02	JAC	EPA-200.8/6020
Beryllium, Total	<1.0	1.0	ug/L	11/25/02	JAC	EPA-200.8/6020
Boron, Total	<50	50	ug/L	11/25/02	JAC	EPA-200.8/6020
Aluminum, Total	<200	200	ug/L	11/14/02	DSC	EPA-200.7/6010B
Cadmium, Total	<0.2	0.2	ug/L	11/25/02	JAC	EPA-200.8/6020
Cobalt, Total	<10	10	ug/L	11/25/02	JAC	EPA-200.8/6020
Chromium, Total	<1.0	1.0	ug/L	11/25/02	JAC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	11/25/02	JAC	EPA-200.8/6020
Iron, Total	180	20	ug/L	11/14/02	DSC	EPA-200.7/6010B
Lithium, Total	<20	20	ug/L	11/14/02	DSC	EPA-200.7/6010B
Manganese, Total	<10	10	ug/L	11/25/02	JAC	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	11/25/02	JAC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	11/25/02	JAC	EPA-200.8/6020
Lead, Total	<1.0	1.0	ug/L	11/25/02	JAC	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	11/25/02	JAC	EPA-200.8/6020
Antimony, Total	<2.0	2.0	ug/L	11/12/02	DWJ	EPA-200.8/6020
Zinc, Total	<10	10	ug/L	11/25/02	JAC	EPA-200.8/6020
Chloride	<1.0	1.0	mg/L	11/12/02	SAJ	325.2/4500-CL E
Nitrogen, Nitrate	0.06	0.05	mg/L	11/06/02	JLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	11/06/02	JLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	11/13/02	GEH	350.1/4500 NH3G
Fluoride	<0.10	0.10	mg/L	11/08/02	VAS	340.2/4500 F-C
Sulfide	<1.0	1.0	mg/L	11/12/02	HLB	376.1/4500 S2-F
Sulfate	13	5.0	mg/L	11/12/02	JLB	375.2/4500 SO4F
Calcium, Dissolved	7.2	0.50	mg/L	11/25/02	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.57	0.50	mg/L	11/25/02	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	1.5	0.50	mg/L	11/25/02	KLVM	EPA-200.7/6010B
Sodium, Dissolved	* 0.63	0.50	mg/L	11/25/02	KLVM	EPA-200.7/6010B
Alkalinity, Bicarbonate	25	2.0	mg/L	11/07/02	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	11/07/02	VAS	310.1/SM 2320 B
Alkalinity, Total	25	2.0	mg/L	11/07/02	VAS	310.1/SM 2320 B
Hardness, (EDTA) as CaCO3	29	2.0	mg/L	11/08/02	VAS	130.2/SM 2340 C

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

North Jackson Company
Project: Yellow Dog

Submittal: November 5, 2002 Samples

Submittal #: **36162-1**
Sampled: 11/05/02 @ 00:00
Sampler: D. Wiitala
Received: 11/06/02 @ 08:55

Sample #: **319654**
Sample ID: **Duplicate**

Matrix: Water

Parameter	Analytical Result	Quant. Limit	Unit	Analysis Date	Chem	Reference Citation
BOD, (5-Day)	1.6	1.0	mg/L	11/07/02	HLB	SDM 5210B
Chemical Oxygen Demand	14	5.0	mg/L	11/12/02	JMJ	410.4/SM 5220 D
Coliform, Total	220	2	col/100mL	11/06/02	HLB	SM 9223B(9221C)
Color (Apparent)	70	5	A.C.U.	11/07/02	GEH	USEPA-110.2
Turbidity	<1.0	1.0	NTU	11/06/02	HLB	USEPA-180.1
Residue, Suspended	*<5	5	mg/L	11/07/02	INR	160.2/SM 2540 D
Residue,Dissolved @ 180*C	*<50	50	mg/L	11/07/02	INR	160.1/SM 2540 C
Carbon, Dissolved Organic	7.3	1.0	mg/L	11/07/02	GEH	EPA-415.1/9060
Carbon, Total Organic	6.4	1.0	mg/L	11/07/02	GEH	EPA-415.1/9060

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

North Jackson Company
Project: Yellow Dog

Submittal: November 5, 2002 Samples

Sample #: **319654**
Sample ID: **Duplicate**

Matrix: Water

Submittal #: **36162-1**
Sampled: 11/05/02 @ 00:00
Sampler: D. Wiitala
Received: 11/06/02 @ 08:55
Extracted:
Analyzed: 11/14/02 by LEW
Ref. Citation: USEPA-8260B
Dilution Factor: 1
Analytical Batch: 194133
QC Batch: 080668-114

CAS Number	Volatile Organics USEPA Method 8260B	Analytical Result (ug/L)	Quantitation Limit (ug/L)
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

End of Analytical Report

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Bicarbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/07/02	193800	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/07/02	193800	VAS	238	244	103	95-103

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Carbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/07/02	193800	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/07/02	193800	VAS	377	349	93	81-107

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Total**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/07/02	193800	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/07/02	193800	VAS	238	244	103	95-103

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QUALITY CONTROL REPORT

Parameter: **Aluminum, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/14/02	194126	DSC	<200
11/21/02	194373	JMF	<100

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/14/02	194126	DSC	1000	1093	109	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/14/02	80665	DSC	<200

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/14/02	80665	DSC	2500	2288	92	86-120

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QUALITY CONTROL REPORT

Parameter: **Antimony, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/12/02	193939	DWJ	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/12/02	193939	DWJ	40	41.4	104	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/12/02	80513	DWJ	<2.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/12/02	80513	DWJ	50	54.0	108	85-127

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/14/02	194126	DSC	<100

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/25/02	194484	JAC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/25/02	194484	JAC	40	40.1	100	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/25/02	80918	JAC	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/25/02	80918	JAC	50	48.1	96	87-120

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/14/02	194126	DSC	<10

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/25/02	194484	JAC	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/25/02	194484	JAC	40	40.5	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/25/02	80918	JAC	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/25/02	80918	JAC	50	48.3	97	86-119

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QUALITY CONTROL REPORT

Parameter: **Beryllium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/25/02	194484	JAC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/25/02	194484	JAC	40	37.7	94	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/25/02	80918	JAC	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/25/02	80918	JAC	50	47.5	95	76-125

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QUALITY CONTROL REPORT

Parameter: **BOD, (5-Day)**
Method: Biochemical Oxygen Demand SDM 5210B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/07/02	194125	HLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/07/02	194125	HLB	198	193	97	82-135

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QUALITY CONTROL REPORT

Parameter: **Boron, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/25/02	194484	JAC	<50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/25/02	194484	JAC	40	40.2	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/25/02	80918	JAC	<50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/25/02	80918	JAC	50	47.7	95	78-121

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QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/14/02	194126	DSC	<10

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QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/25/02	194484	JAC	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/25/02	194484	JAC	40	40.3	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/25/02	80918	JAC	<0.2

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/25/02	80918	JAC	50	48.9	98	86-119

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QUALITY CONTROL REPORT

Parameter: **Carbon, Total Organic**
Method: Organic Carbon, Total EPA-415.1/9060 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/07/02	193999	GEH	<0.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/07/02	193999	GEH	25	25	100	86-117

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QUALITY CONTROL REPORT

Parameter: **Chemical Oxygen Demand**
Method: Closed Reflux, Colorimetric Method 410.4/SM 5220 D WATER
Units: mg/L

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/12/02	80537	JMJ	<5.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/12/02	80537	JMJ	30	28	93	90-110

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QUALITY CONTROL REPORT

Parameter: **Chloride**
Method: Colorimetric, Automated Ferricyanide 325.2/4500-CL E WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/12/02	194082	SAJ	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/12/02	194082	SAJ	110	111	101	95-109

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QUALITY CONTROL REPORT

Parameter: **Chromium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/14/02	194126	DSC	<50

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QUALITY CONTROL REPORT

Parameter: **Chromium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/25/02	194484	JAC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/25/02	194484	JAC	40	39.7	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/25/02	80918	JAC	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/25/02	80918	JAC	50	49.0	98	84-122

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QUALITY CONTROL REPORT

Parameter: **Cobalt, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/25/02	194484	JAC	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/25/02	194484	JAC	40	39.9	100	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/25/02	80918	JAC	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/25/02	80918	JAC	50	47.3	95	80-125

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QUALITY CONTROL REPORT

Parameter: **Color (Apparent)**
Method: Colorimetric, Platinum-Cobalt USEPA-110.2 WATER
Units: A.C.U.

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/07/02	193983	GEH	<5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/07/02	193983	GEH	50	50	100	80-120

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/14/02	194126	DSC	<10
11/21/02	194373	JMF	<10

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/25/02	194484	JAC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/25/02	194484	JAC	40	40.1	100	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/25/02	80918	JAC	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/25/02	80918	JAC	50	49.5	99	86-123

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QUALITY CONTROL REPORT

Parameter: **Fluoride**
Method: Potentiometric, Ion Selective Electrode 340.2/4500 F-C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/08/02	193986	VAS	<0.10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/08/02	193986	VAS	3.89	3.94	101	88-116

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QUALITY CONTROL REPORT

Parameter: **Hardness, (EDTA) as CaCO3**
Method: Hardness-Titrimetric, EDTA 130.2/SM 2340 C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/08/02	193988	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/08/02	193988	VAS	117	110	94	94-107

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QUALITY CONTROL REPORT

Parameter: **Iron, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/14/02	194126	DSC	<20
11/21/02	194373	JMF	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/14/02	194126	DSC	1000	972	97	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/14/02	80665	DSC	<20

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/14/02	80665	DSC	500	464	93	83-118

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QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/14/02	194126	DSC	<50

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QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/25/02	194484	JAC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/25/02	194484	JAC	40	39.8	100	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/25/02	80918	JAC	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/25/02	80918	JAC	50	48.5	97	89-120

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QUALITY CONTROL REPORT

Parameter: **Lithium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/14/02	194126	DSC	<20

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/14/02	194126	DSC	1000	952	95	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/14/02	80665	DSC	<20

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/14/02	80665	DSC	500	456	91	86-115

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QUALITY CONTROL REPORT

Parameter: **Magnesium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/21/02	194373	JMF	<0.50
11/25/02	194471	KLVM	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/21/02	194373	JMF	10	9.73	97	90-110
11/25/02	194471	KLVM	10	10.0	100	90-110

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/25/02	194484	JAC	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/25/02	194484	JAC	40	39.6	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/25/02	80918	JAC	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/25/02	80918	JAC	50	48.9	98	84-126

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QUALITY CONTROL REPORT

Parameter: **Molybdenum, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/25/02	194484	JAC	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/25/02	194484	JAC	40	40.3	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/25/02	80918	JAC	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/25/02	80918	JAC	50	50.4	101	90-110

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/14/02	194126	DSC	<10
11/21/02	194373	JMF	<10

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/25/02	194484	JAC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/25/02	194484	JAC	40	40.2	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/25/02	80918	JAC	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/25/02	80918	JAC	50	47.9	96	82-124

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Ammonia**
Method: Colorimetric, Automated Phenate 350.1/4500 NH3G WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/13/02	194014	GEH	<0.01

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/13/02	194014	GEH	0.7527	0.774	103	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrate**
Method: Colorimetric, Auto-Cadmium Reduction 353.2/4500 NO3F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/06/02	193930	JLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/06/02	193930	JLB	6.93	6.32	91	90-110
11/06/02	193930	JLB	0.693	0.692	100	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrite**
Method: Colorimetric, Automated USEPA-353.2 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/06/02	193931	JLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/06/02	193931	JLB	0.50	0.48	96	90-110

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QUALITY CONTROL REPORT

Parameter: **Potassium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/21/02	194373	JMF	<0.20
11/25/02	194471	KLVM	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/21/02	194373	JMF	10	8.95	90	90-110
11/25/02	194471	KLVM	10	9.34	93	90-110

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QUALITY CONTROL REPORT

Parameter: **Residue,Dissolved @ 180*C**
Method: Residue-Gravimetric, Dried @ 180*C 160.1/SM 2540 C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/07/02	193873	INR	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/07/02	193873	INR	467.4	431	92	90-108

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QUALITY CONTROL REPORT

Parameter: **Residue, Suspended**
Method: Residue-Gravimetric, Dried @ 103-105*C 160.2/SM 2540 D WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/07/02	193991	INR	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/07/02	193991	INR	47.8	48	100	89-106

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QUALITY CONTROL REPORT

Parameter: **Selenium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/14/02	194126	DSC	<100

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QUALITY CONTROL REPORT

Parameter: **Selenium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/25/02	194484	JAC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/25/02	194484	JAC	40	39.6	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/25/02	80918	JAC	<2.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/25/02	80918	JAC	50	47.0	94	84-120

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QUALITY CONTROL REPORT

Parameter: **SGT-HEM;Nonpolar Material**
Method: Hexane Extractable Material-SGT USEPA-1664 WATER
Units: mg/L

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/12/02	80550	JMJ	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/12/02	80550	JMJ	20	16.9	85	80-110

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QUALITY CONTROL REPORT

Parameter: **Silver, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/14/02	194126	DSC	<10

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QUALITY CONTROL REPORT

Parameter: **Silver, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/25/02	194484	JAC	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/25/02	194484	JAC	40	40.4	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/25/02	80918	JAC	<0.2

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/25/02	80918	JAC	50	48.9	98	86-117

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QUALITY CONTROL REPORT

Parameter: **Sodium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/21/02	194373	JMF	<0.50
11/25/02	194471	KLVM	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/21/02	194373	JMF	10	9.56	96	90-110
11/25/02	194471	KLVM	10	9.81	98	90-110

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QUALITY CONTROL REPORT

Parameter: **Sulfate**
Method: Automated, Methylthymol Blue 375.2/4500 SO4F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/12/02	193992	JLB	<5.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/12/02	193992	JLB	51.08	52.19	102	90-110

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QUALITY CONTROL REPORT

Parameter: **Sulfide**
Method: Titrimetric, Iodine 376.1/4500 S2-F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/12/02	194066	HLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/12/02	194066	HLB	11	11.2	102	97-103

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QUALITY CONTROL REPORT

Parameter: **Turbidity**
Method: Nephelometric USEPA-180.1 WATER
Units: NTU

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/06/02	193984	HLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/06/02	193984	HLB	401	395	99	90-110

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QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/14/02	194126	DSC	<20
11/21/02	194373	JMF	<20

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QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/25/02	194484	JAC	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/25/02	194484	JAC	40	38.9	97	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/25/02	80918	JAC	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/25/02	80918	JAC	50	47.1	94	88-127

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QUALITY CONTROL REPORT

METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
Method: Volatiles Purge & Trap-GC/MS
Analyst: Laurel E. Wood Test Date: 11/14/02
Units: ug/L
QC Batch: 80597-114

Parameter	Blank Concentration	Quantitation Limit
Benzene	<1.0	1.0
Ethylbenzene	<1.0	1.0
Toluene	<1.0	1.0
Xylene (Total)	<3.0	3.0

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QUALITY CONTROL REPORT

METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
Method: Volatiles Purge & Trap-GC/MS
Analyst: Laurel E. Wood Test Date: 11/14/02
Units: ug/L
QC Batch: 80668-114

Parameter	Blank Concentration	Quantitation Limit
Benzene	<1.0	1.0
Ethylbenzene	<1.0	1.0
Toluene	<1.0	1.0
Xylene (Total)	<3.0	3.0

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QUALITY CONTROL REPORT

LABORATORY FORTIFIED BLANK

Fraction: Quality Control Fraction
Method: Volatiles Purge & Trap-GC/MS
Analyst: Laurel E. Wood Test Date: 11/14/02
Units: ug/L
QC Batch: 80597-114

Parameter	Spike Quantity	Spike Result	Spike % Rec	Control Limits
Benzene	40.0	37.3	93	79 - 120
Chlorobenzene	40.0	37.7	94	79 - 122
1,1-Dichloroethylene	40.0	37.8	95	72 - 126
Ethylbenzene	40.0	38.3	96	77 - 125
Trichloroethene	40.0	35.6	89	71 - 127
Toluene	40.0	36.7	92	79 - 126
Isopropanol	100	95.3	95	50 - 148

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QUALITY CONTROL REPORT

LABORATORY FORTIFIED BLANK

Fraction: Quality Control Fraction
Method: Volatiles Purge & Trap-GC/MS
Analyst: Laurel E. Wood Test Date: 11/14/02
Units: ug/L
QC Batch: 80668-114

Parameter	Spike Quantity	Spike Result	Spike % Rec	Control Limits
Benzene	40.0	37.3	93	79 - 120
Chlorobenzene	40.0	37.7	94	79 - 122
1,1-Dichloroethylene	40.0	37.8	95	72 - 126
Ethylbenzene	40.0	38.3	96	77 - 125
Trichloroethene	40.0	35.6	89	71 - 127
Toluene	40.0	36.7	92	79 - 126
Isopropanol	100	95.3	95	50 - 148

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QUALITY CONTROL REPORT
SURROGATE RECOVERIES

Method: Volatiles Purge & Trap-GC/MS USEPA-8260B WATER

Surrogate Compound List

SUR-1: Dibromofluoromethane-sur
SUR-2: d4-1,2-Dichloroethane-sur
SUR-3: d8-Toluene-sur
SUR-4: 4-Bromofluorobenzene-sur

% R = Percent Recovery

Compounds:		SUR-1	SUR-2	SUR-3	SUR-4
Control Limits:		79-124	75-128	87-113	70-121
Sample # / ID	Batch	% R	% R	% R	% R
MPB-01	80597-114	103	105	102	95
MPB-01	80668-114	103	105	102	95
LFB-01	80597-114	104	102	100	105
LFB-01	80668-114	104	102	100	105
319650	80597-114	105	108	101	94
319651	80597-114	103	108	100	94
319652	80597-114	104	106	99	96
319653	80597-114	103	107	100	95
319654	80668-114	103	108	99	94

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TM0209, TM0505, TM0236

Cart 1

TriMatrix Laboratories, Inc.

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Chain of Custody Record

COC No. Nº 66491

Project Manager	Project Name	Project No.	Sampler (Print)	Sampler Signature
DWW	Yellow Dog / North Jackson		D WILTALA	

Date Sampled	Time Sampled	Matrix*	Composite	Grab	Sample Identification	No. of Containers	Container Type	Analysis Required/Comments	Sample No.	Filtered Date/Time
11-05-02	1330 ~~1030~~	WTR		X	STR001 TM0236 TM0505			See Attached List	319650	01
11-05-02	1030	WTR		X	STR002 TM0505 TM0236				319651	
11-05-02	1550	WTR		X	SDR001 TM0209				319652	
11-05-02	1430	WTR		X	SDR002 TM0209 TM0505				319653	
11-05-02	—	WTR		X	DUPLICATE TM0209 TM0236				319654	

Call P. Schee w questions 1 906 475 9882

For Lab Use Only

Rack/Tray No: 702-R-12

Lab Project #: 36168-1

Relinquished By:	Date/Time	Received By:	Received to Lab By:	Date/Time	Logged in By:	Date/Time
	11-5-02			11/6/02 8:55		11/6/02 2:05

* Matrix: Water (WTR), Wastewater (WW), Soil (SOIL), Sludge (SLG), Air, Oil, Waste (WASTE)

March 14, 2003

North Jackson Company
Attn: Mr. Peter Sabee
420 Rail Street
Negaunee, MI 49866

RE: Yellow Dog

Dear Mr. Peter Sabee:

Enclosed is a copy of your laboratory report and invoice for submittal **36162-2.** This submittal was completely received on February 27, 2003. All analyses have been validated and comply with our Quality Control program statistics unless otherwise noted.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosure

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Residue, Suspended**
Residue-Gravimetric, Dried @ 103-105*C
WATER 160.2/SM 2540 D

Qualification:

The detection limit for this sample and corresponding analysis were elevated due to insufficient sample volume received.

Sample(s) Qualified: 325604 STR001

Analysis: **Coliform, Total**
Enzyme Substrate Test (MPN)
WATER SM 9223B

Qualification:

Analysis performed beyond established USEPA maximum allowable parameter hold time. All positive results must be considered estimated, and all non-detectable results must be considered approximate.

Explanation for Sample(s) listed below:

Sample received after EPA established hold time expired.

Sample(s) Qualified: 325604 STR001
325605 STR002

Page 1 - **End of Statement of Data Qualifications**

Note: This document is included as a part of the analytical report for the above referenced project and submittal, and should be retained as a permanent record thereof.

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CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

6.32

Sample(s) Narrated: 325604 STR001

Explanation for Sample(s) listed below:

6.75

Sample(s) Narrated: 325605 STR002

Explanation for Sample(s) listed below:

6.94

Sample(s) Narrated: 325606 YDR001

Explanation for Sample(s) listed below:

6.95

Sample(s) Narrated: 325608 Duplicate

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CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

6.96

Sample(s) Narrated: 325607 YDR002

Analysis: **BOD, (5-Day)**
Biochemical Oxygen Demand
WATER SDM 5210B

Narrative:

The reported Biochemical Oxygen Demand result for this sample was calculated on an oxygen depletion of <2.0 mg/l

Sample(s) Narrated: 325606 YDR001
325607 YDR002
325608 Duplicate

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CASE NARRATIVE

Analysis: **Coliform, Total**
Enzyme Substrate Test (MPN)
WATER SM 9223B

Narrative:

Total coliform bacterial colonies were detected in this sample. A confirmation procedure for the presence of E. coli was NEGATIVE.

Sample(s) Narrated:		
	325604	STR001
	325607	YDR002
	325608	Duplicate

Narrative:

Total coliform bacterial colonies were detected in this sample. A confirmation procedure for the presence of E. coli was POSITIVE.

Sample(s) Narrated:		
	325605	STR002
	325606	YDR001

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

North Jackson Company
Project: Yellow Dog

Submittal: 02/25-26/03 Samples

Submittal #: **36162-2**
Sampled: 02/25/03 @ 14:00
Sampler: D.W./P.S.
Received: 02/27/03 @ 08:55

Sample #: **325604**
Sample ID: **STR001**

Matrix: Surface Water

Parameter	Analytical Result	Quant. Limit	Unit	Analysis Date	Chem	Reference Citation
SGT-HEM;Nonpolar Material	<10	10	mg/L	03/04/03	JMJ	USEPA-1664A
Silver, Total	<0.2	0.2	ug/L	03/05/03	DWJ	EPA-200.8/6020
Arsenic, Total	<1.0	1.0	ug/L	03/05/03	DWJ	EPA-200.8/6020
Barium, Total	11	10	ug/L	03/05/03	DWJ	EPA-200.8/6020
Beryllium, Total	<1.0	1.0	ug/L	03/07/03	DWJ	EPA-200.8/6020
Boron, Total	<50	50	ug/L	03/07/03	DWJ	EPA-200.8/6020
Aluminum, Total	<200	200	ug/L	03/04/03	KLVM	EPA-200.7/6010B
Cadmium, Total	<0.2	0.2	ug/L	03/05/03	DWJ	EPA-200.8/6020
Cobalt, Total	<10	10	ug/L	03/05/03	DWJ	EPA-200.8/6020
Chromium, Total	<1.0	1.0	ug/L	03/05/03	DWJ	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	03/05/03	DWJ	EPA-200.8/6020
Iron, Total	600	20	ug/L	03/04/03	KLVM	EPA-200.7/6010B
Lithium, Total	<20	20	ug/L	03/04/03	KLVM	EPA-200.7/6010B
Manganese, Total	36	10	ug/L	03/05/03	DWJ	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	03/05/03	DWJ	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	03/05/03	DWJ	EPA-200.8/6020
Lead, Total	<1.0	1.0	ug/L	03/05/03	DWJ	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	03/05/03	DWJ	EPA-200.8/6020
Antimony, Total	<2.0	2.0	ug/L	03/10/03	DWJ	EPA-200.8/6020
Zinc, Total	<10	10	ug/L	03/05/03	DWJ	EPA-200.8/6020
Chloride	<1.0	1.0	mg/L	03/03/03	SAJ	325.2/4500-CL E
Nitrogen, Nitrate	<0.05	0.05	mg/L	02/27/03	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	02/27/03	HLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	03/05/03	JLB	350.1/4500 NH3G
Fluoride	<0.10	0.10	mg/L	02/28/03	VAS	340.2/4500 F-C
Sulfide	<1.0	1.0	mg/L	02/28/03	HLB	376.1/4500 S2-F
Sulfate	<5.0	5.0	mg/L	03/04/03	JLB	375.2/4500 SO4F
Calcium, Dissolved	5.0	0.50	mg/L	03/10/03	JAC	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	03/10/03	JAC	EPA-200.7/6010B
Magnesium, Dissolved	1.1	0.50	mg/L	03/10/03	JAC	EPA-200.7/6010B
Sodium, Dissolved	0.77	0.50	mg/L	03/12/03	DWJ	EPA-200.7/6010B
Alkalinity, Bicarbonate	21	2.0	mg/L	03/06/03	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	03/06/03	VAS	310.1/SM 2320 B
Alkalinity, Total	21	2.0	mg/L	03/06/03	VAS	310.1/SM 2320 B
Hardness, (EDTA) as CaCO3	20	2.0	mg/L	02/28/03	VAS	130.2/SM 2340 C

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TriMatrix
Laboratories, Inc.

ANALYTICAL REPORT

North Jackson Company
Project: Yellow Dog

Submittal: 02/25-26/03 Samples

Sample #: **325604**
Sample ID: **STR001**

Matrix: Surface Water

Submittal #: **36162-2**
Sampled: 02/25/03 @ 14:00
Sampler: D.W./P.S.
Received: 02/27/03 @ 08:55

Parameter	Analytical Result	Quant. Limit	Unit	Analysis Date	Chem	Reference Citation
BOD, (5-Day)	<1.0	1.0	mg/L	02/27/03	TAM	SDM 5210B
Chemical Oxygen Demand	9.8	5.0	mg/L	02/28/03	JMJ	410.4/SM 5220 D
Coliform, Total	* 130	2	col/100mL	02/27/03	GEH	SM 9223B
Color (Apparent)	30	5	A.C.U.	02/27/03	GEH	USEPA-110.2
Turbidity	<1.0	1.0	NTU	02/27/03	HLB	USEPA-180.1
Residue, Suspended	*<6	6	mg/L	02/28/03	INR	160.2/SM 2540 D
Residue,Dissolved @ 180*C	27	25	mg/L	02/28/03	INR	160.1/SM 2540 C
Carbon, Total Organic	4.1	1.0	mg/L	02/28/03	GEH	EPA-415.1/9060
SGT-HEM;Nonpolar Material	<10	10	mg/L	03/04/03	JMJ	USEPA-1664A

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

North Jackson Company
Project: Yellow Dog

Submittal: 02/25-26/03 Samples

Sample #: **325604**
Sample ID: **STR001**

Matrix: Surface Water

Submittal #: **36162-2**
Sampled: 02/25/03 @ 14:00
Sampler: D.W./P.S.
Received: 02/27/03 @ 08:55
Extracted:
Analyzed: 03/03/03 by LEW
Ref. Citation: USEPA-8260B
Dilution Factor: 1
Analytical Batch: 197547
QC Batch: 083044-103

CAS Number	Volatile Organics USEPA Method 8260B	Analytical Result (ug/L)	Quantitation Limit (ug/L)
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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ANALYTICAL REPORT

North Jackson Company
Project: Yellow Dog

Submittal: 02/25-26/03 Samples

Submittal #: **36162-2**
Sampled: 02/25/03 @ 12:00
Sampler: D.W./P.S.
Received: 02/27/03 @ 08:55

Sample #: **325605**
Sample ID: **STR002**

Matrix: Surface Water

Parameter	Analytical Result	Quant. Limit	Unit	Analysis Date	Chem	Reference Citation
SGT-HEM;Nonpolar Material	<10	10	mg/L	03/04/03	JMJ	USEPA-1664A
Silver, Total	<0.2	0.2	ug/L	03/05/03	DWJ	EPA-200.8/6020
Arsenic, Total	<1.0	1.0	ug/L	03/05/03	DWJ	EPA-200.8/6020
Barium, Total	<10	10	ug/L	03/05/03	DWJ	EPA-200.8/6020
Beryllium, Total	<1.0	1.0	ug/L	03/07/03	DWJ	EPA-200.8/6020
Boron, Total	<50	50	ug/L	03/07/03	DWJ	EPA-200.8/6020
Aluminum, Total	<200	200	ug/L	03/04/03	KLVM	EPA-200.7/6010B
Cadmium, Total	<0.2	0.2	ug/L	03/05/03	DWJ	EPA-200.8/6020
Cobalt, Total	<10	10	ug/L	03/05/03	DWJ	EPA-200.8/6020
Chromium, Total	<1.0	1.0	ug/L	03/05/03	DWJ	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	03/05/03	DWJ	EPA-200.8/6020
Iron, Total	160	20	ug/L	03/04/03	KLVM	EPA-200.7/6010B
Lithium, Total	<20	20	ug/L	03/04/03	KLVM	EPA-200.7/6010B
Manganese, Total	<10	10	ug/L	03/05/03	DWJ	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	03/05/03	DWJ	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	03/05/03	DWJ	EPA-200.8/6020
Lead, Total	<1.0	1.0	ug/L	03/05/03	DWJ	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	03/05/03	DWJ	EPA-200.8/6020
Antimony, Total	<2.0	2.0	ug/L	03/10/03	DWJ	EPA-200.8/6020
Zinc, Total	<10	10	ug/L	03/05/03	DWJ	EPA-200.8/6020
Chloride	<1.0	1.0	mg/L	03/03/03	SAJ	325.2/4500-CL E
Nitrogen, Nitrate	0.14	0.05	mg/L	02/27/03	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	02/27/03	HLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	03/05/03	JLB	350.1/4500 NH3G
Fluoride	<0.10	0.10	mg/L	02/28/03	VAS	340.2/4500 F-C
Sulfide	<1.0	1.0	mg/L	02/28/03	HLB	376.1/4500 S2-F
Sulfate	<5.0	5.0	mg/L	03/04/03	JLB	375.2/4500 SO4F
Calcium, Dissolved	9.0	0.50	mg/L	03/10/03	JAC	EPA-200.7/6010B
Potassium, Dissolved	0.65	0.50	mg/L	03/10/03	JAC	EPA-200.7/6010B
Magnesium, Dissolved	1.8	0.50	mg/L	03/10/03	JAC	EPA-200.7/6010B
Sodium, Dissolved	1.2	0.50	mg/L	03/12/03	DWJ	EPA-200.7/6010B
Alkalinity, Bicarbonate	33	2.0	mg/L	03/06/03	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	03/06/03	VAS	310.1/SM 2320 B
Alkalinity, Total	33	2.0	mg/L	03/06/03	VAS	310.1/SM 2320 B
Hardness, (EDTA) as CaCO3	32	2.0	mg/L	02/28/03	VAS	130.2/SM 2340 C

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ANALYTICAL REPORT

North Jackson Company
Project: Yellow Dog

Submittal: 02/25-26/03 Samples

Submittal #: **36162-2**
Sampled: 02/25/03 @ 12:00
Sampler: D.W./P.S.
Received: 02/27/03 @ 08:55

Sample #: **325605**
Sample ID: **STR002**

Matrix: Surface Water

Parameter	Analytical Result	Quant. Limit	Unit	Analysis Date	Chem	Reference Citation
BOD, (5-Day)	<1.0	1.0	mg/L	02/27/03	TAM	SDM 5210B
Chemical Oxygen Demand	7.4	5.0	mg/L	02/28/03	JMJ	410.4/SM 5220 D
Coliform, Total	* 70	2	col/100mL	02/27/03	GEH	SM 9223B
Color (Apparent)	25	5	A.C.U.	02/27/03	GEH	USEPA-110.2
Turbidity	<1.0	1.0	NTU	02/27/03	HLB	USEPA-180.1
Residue, Suspended	<3	3	mg/L	02/28/03	INR	160.2/SM 2540 D
Residue,Dissolved @ 180*C	66	50	mg/L	02/28/03	INR	160.1/SM 2540 C
Carbon, Total Organic	3.0	1.0	mg/L	02/28/03	GEH	EPA-415.1/9060
SGT-HEM;Nonpolar Material	<10	10	mg/L	03/04/03	JMJ	USEPA-1664A

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

North Jackson Company
Project: Yellow Dog

Submittal: 02/25-26/03 Samples

Sample #: **325605**
Sample ID: **STR002**

Matrix: Surface Water

Submittal #: **36162-2**
Sampled: 02/25/03 @ 12:00
Sampler: D.W./P.S.
Received: 02/27/03 @ 08:55
Extracted:
Analyzed: 03/04/03 by LEW
Ref. Citation: USEPA-8260B
Dilution Factor: 1
Analytical Batch: 197547
QC Batch: 083044-103

CAS Number	Volatile Organics USEPA Method 8260B	Analytical Result (ug/L)	Quantitation Limit (ug/L)
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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ANALYTICAL REPORT

North Jackson Company
Project: Yellow Dog

Submittal: 02/25-26/03 Samples

Sample #: **325606**
Sample ID: **YDR001**

Submittal #: **36162-2**
Sampled: 02/26/03 @ 12:00
Sampler: D.W./P.S.
Received: 02/27/03 @ 08:55

Matrix: Surface Water

Parameter	Analytical Result	Quant. Limit	Unit	Analysis Date	Chem	Reference Citation
SGT-HEM;Nonpolar Material	<10	10	mg/L	03/04/03	JMJ	USEPA-1664A
Silver, Total	<0.2	0.2	ug/L	03/05/03	DWJ	EPA-200.8/6020
Arsenic, Total	<1.0	1.0	ug/L	03/05/03	DWJ	EPA-200.8/6020
Barium, Total	<10	10	ug/L	03/05/03	DWJ	EPA-200.8/6020
Beryllium, Total	<1.0	1.0	ug/L	03/07/03	DWJ	EPA-200.8/6020
Boron, Total	<50	50	ug/L	03/07/03	DWJ	EPA-200.8/6020
Aluminum, Total	<200	200	ug/L	03/04/03	KLVM	EPA-200.7/6010B
Cadmium, Total	<0.2	0.2	ug/L	03/05/03	DWJ	EPA-200.8/6020
Cobalt, Total	<10	10	ug/L	03/05/03	DWJ	EPA-200.8/6020
Chromium, Total	<1.0	1.0	ug/L	03/05/03	DWJ	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	03/05/03	DWJ	EPA-200.8/6020
Iron, Total	400	20	ug/L	03/04/03	KLVM	EPA-200.7/6010B
Lithium, Total	<20	20	ug/L	03/04/03	KLVM	EPA-200.7/6010B
Manganese, Total	20	10	ug/L	03/05/03	DWJ	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	03/05/03	DWJ	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	03/05/03	DWJ	EPA-200.8/6020
Lead, Total	<1.0	1.0	ug/L	03/05/03	DWJ	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	03/05/03	DWJ	EPA-200.8/6020
Antimony, Total	<2.0	2.0	ug/L	03/10/03	DWJ	EPA-200.8/6020
Zinc, Total	<10	10	ug/L	03/05/03	DWJ	EPA-200.8/6020
Chloride	<1.0	1.0	mg/L	03/03/03	SAJ	325.2/4500-CL E
Nitrogen, Nitrate	0.12	0.05	mg/L	02/27/03	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	02/27/03	HLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	03/05/03	JLB	350.1/4500 NH3G
Fluoride	<0.10	0.10	mg/L	02/28/03	VAS	340.2/4500 F-C
Sulfide	<1.0	1.0	mg/L	02/28/03	HLB	376.1/4500 S2-F
Sulfate	6.5	5.0	mg/L	03/04/03	JLB	375.2/4500 SO4F
Calcium, Dissolved	9.6	0.50	mg/L	03/10/03	JAC	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	03/10/03	JAC	EPA-200.7/6010B
Magnesium, Dissolved	2.0	0.50	mg/L	03/10/03	JAC	EPA-200.7/6010B
Sodium, Dissolved	1.5	0.50	mg/L	03/12/03	DWJ	EPA-200.7/6010B
Alkalinity, Bicarbonate	52	2.0	mg/L	03/06/03	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	03/06/03	VAS	310.1/SM 2320 B
Alkalinity, Total	52	2.0	mg/L	03/06/03	VAS	310.1/SM 2320 B
Hardness, (EDTA) as CaCO3	30	2.0	mg/L	02/28/03	VAS	130.2/SM 2340 C

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ANALYTICAL REPORT

North Jackson Company
Project: Yellow Dog

Submittal: 02/25-26/03 Samples

Sample #: **325606**
Sample ID: **YDR001**

Matrix: Surface Water

Submittal #: **36162-2**
Sampled: 02/26/03 @ 12:00
Sampler: D.W./P.S.
Received: 02/27/03 @ 08:55

Parameter	Analytical Result	Quant. Limit	Unit	Analysis Date	Chem	Reference Citation
BOD, (5-Day)	1.2	1.0	mg/L	02/27/03	TAM	SDM 5210B
Chemical Oxygen Demand	14	5.0	mg/L	02/28/03	JMJ	410.4/SM 5220 D
Coliform, Total	70	2	col/100mL	02/27/03	GEH	SM 9223B
Color (Apparent)	40	5	A.C.U.	02/27/03	GEH	USEPA-110.2
Turbidity	1.4	1.0	NTU	02/27/03	HLB	USEPA-180.1
Residue, Suspended	<3	3	mg/L	02/28/03	INR	160.2/SM 2540 D
Residue,Dissolved @ 180*C	74	50	mg/L	02/28/03	INR	160.1/SM 2540 C
Carbon, Total Organic	5.7	1.0	mg/L	02/28/03	GEH	EPA-415.1/9060
SGT-HEM;Nonpolar Material	<10	10	mg/L	03/04/03	JMJ	USEPA-1664A

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ANALYTICAL REPORT

North Jackson Company
Project: Yellow Dog

Submittal: 02/25-26/03 Samples

Sample #: **325606**
Sample ID: **YDR001**

Matrix: Surface Water

Submittal #: **36162-2**
Sampled: 02/26/03 @ 12:00
Sampler: D.W./P.S.
Received: 02/27/03 @ 08:55
Extracted:
Analyzed: 03/04/03 by LEW
Ref. Citation: USEPA-8260B
Dilution Factor: 1
Analytical Batch: 197547
QC Batch: 083044-103

CAS Number	Volatile Organics USEPA Method 8260B	Analytical Result (ug/L)	Quantitation Limit (ug/L)
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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ANALYTICAL REPORT

North Jackson Company
Project: Yellow Dog

Submittal: 02/25-26/03 Samples

Submittal #: **36162-2**
Sampled: 02/26/03 @ 14:00
Sampler: D.W./P.S.
Received: 02/27/03 @ 08:55

Sample #: **325607**
Sample ID: **YDR002**

Matrix: Surface Water

Parameter	Analytical Result	Quant. Limit	Unit	Analysis Date	Chem	Reference Citation
SGT-HEM;Nonpolar Material	<10	10	mg/L	03/04/03	JMJ	USEPA-1664A
Silver, Total	<0.2	0.2	ug/L	03/07/03	DWJ	EPA-200.8/6020
Arsenic, Total	<1.0	1.0	ug/L	03/07/03	DWJ	EPA-200.8/6020
Barium, Total	<10	10	ug/L	03/07/03	DWJ	EPA-200.8/6020
Beryllium, Total	<1.0	1.0	ug/L	03/07/03	DWJ	EPA-200.8/6020
Boron, Total	<50	50	ug/L	03/07/03	DWJ	EPA-200.8/6020
Aluminum, Total	<200	200	ug/L	03/04/03	KLVM	EPA-200.7/6010B
Cadmium, Total	<0.2	0.2	ug/L	03/07/03	DWJ	EPA-200.8/6020
Cobalt, Total	<10	10	ug/L	03/07/03	DWJ	EPA-200.8/6020
Chromium, Total	<1.0	1.0	ug/L	03/07/03	DWJ	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	03/07/03	DWJ	EPA-200.8/6020
Iron, Total	550	20	ug/L	03/04/03	KLVM	EPA-200.7/6010B
Lithium, Total	<20	20	ug/L	03/04/03	KLVM	EPA-200.7/6010B
Manganese, Total	22	10	ug/L	03/07/03	DWJ	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	03/07/03	DWJ	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	03/07/03	DWJ	EPA-200.8/6020
Lead, Total	<1.0	1.0	ug/L	03/07/03	DWJ	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	03/07/03	DWJ	EPA-200.8/6020
Antimony, Total	<2.0	2.0	ug/L	03/10/03	DWJ	EPA-200.8/6020
Zinc, Total	<10	10	ug/L	03/07/03	DWJ	EPA-200.8/6020
Chloride	133	1.0	mg/L	03/03/03	SAJ	325.2/4500-CL E
Nitrogen, Nitrate	0.11	0.05	mg/L	02/27/03	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	02/27/03	HLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	03/05/03	JLB	350.1/4500 NH3G
Fluoride	<0.10	0.10	mg/L	02/28/03	VAS	340.2/4500 F-C
Sulfide	<1.0	1.0	mg/L	02/28/03	HLB	376.1/4500 S2-F
Sulfate	5.1	5.0	mg/L	03/04/03	JLB	375.2/4500 SO4F
Calcium, Dissolved	9.6	0.50	mg/L	03/10/03	JAC	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	03/10/03	JAC	EPA-200.7/6010B
Magnesium, Dissolved	2.0	0.50	mg/L	03/10/03	JAC	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	03/13/03	KLVM	EPA-200.7/6010B
Alkalinity, Bicarbonate	30	2.0	mg/L	03/06/03	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	03/06/03	VAS	310.1/SM 2320 B
Alkalinity, Total	30	2.0	mg/L	03/06/03	VAS	310.1/SM 2320 B
Hardness, (EDTA) as CaCO3	38	2.0	mg/L	02/28/03	VAS	130.2/SM 2340 C

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TriMatrix
Laboratories, Inc.

ANALYTICAL REPORT

North Jackson Company
Project: Yellow Dog

Submittal: 02/25-26/03 Samples

Sample #: **325607**
Sample ID: **YDR002**

Matrix: Surface Water

Submittal #: **36162-2**
Sampled: 02/26/03 @ 14:00
Sampler: D.W./P.S.
Received: 02/27/03 @ 08:55

Parameter	Analytical Result	Quant. Limit	Unit	Analysis Date	Chem	Reference Citation
BOD, (5-Day)	1.8	1.0	mg/L	02/27/03	TAM	SDM 5210B
Chemical Oxygen Demand	14	5.0	mg/L	02/28/03	JMJ	410.4/SM 5220 D
Coliform, Total	170	2	col/100mL	02/27/03	GEH	SM 9223B
Color (Apparent)	40	5	A.C.U.	02/27/03	GEH	USEPA-110.2
Turbidity	1.8	1.0	NTU	02/27/03	HLB	USEPA-180.1
Residue, Suspended	<3	3	mg/L	02/28/03	INR	160.2/SM 2540 D
Residue,Dissolved @ 180*C	94	50	mg/L	02/28/03	INR	160.1/SM 2540 C
Carbon, Total Organic	6.1	1.0	mg/L	02/28/03	GEH	EPA-415.1/9060
SGT-HEM;Nonpolar Material	<10	10	mg/L	03/04/03	JMJ	USEPA-1664A

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ANALYTICAL REPORT

North Jackson Company
Project: Yellow Dog

Submittal: 02/25-26/03 Samples

Sample #: **325607**
Sample ID: **YDR002**

Matrix: Surface Water

Submittal #: **36162-2**
Sampled: 02/26/03 @ 14:00
Sampler: D.W./P.S.
Received: 02/27/03 @ 08:55
Extracted:
Analyzed: 03/04/03 by LEW
Ref. Citation: USEPA-8260B
Dilution Factor: 1
Analytical Batch: 197547
QC Batch: 083044-103

CAS Number	Volatile Organics USEPA Method 8260B	Analytical Result (ug/L)	Quantitation Limit (ug/L)
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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ANALYTICAL REPORT

North Jackson Company
Project: Yellow Dog

Submittal: 02/25-26/03 Samples

Submittal #: **36162-2**
Sampled: 02/26/03 @ 12:00
Sampler: D.W./P.S.
Received: 02/27/03 @ 08:55

Sample #: **325608**
Sample ID: **Duplicate**

Matrix: Surface Water

Parameter	Analytical Result	Quant. Limit	Unit	Analysis Date	Chem	Reference Citation
SGT-HEM;Nonpolar Material	<10	10	mg/L	03/04/03	JMJ	USEPA-1664A
Silver, Total	<0.2	0.2	ug/L	03/07/03	DWJ	EPA-200.8/6020
Arsenic, Total	<1.0	1.0	ug/L	03/07/03	DWJ	EPA-200.8/6020
Barium, Total	<10	10	ug/L	03/07/03	DWJ	EPA-200.8/6020
Beryllium, Total	<1.0	1.0	ug/L	03/07/03	DWJ	EPA-200.8/6020
Boron, Total	<50	50	ug/L	03/07/03	DWJ	EPA-200.8/6020
Aluminum, Total	<200	200	ug/L	03/04/03	KLVM	EPA-200.7/6010B
Cadmium, Total	<0.2	0.2	ug/L	03/07/03	DWJ	EPA-200.8/6020
Cobalt, Total	<10	10	ug/L	03/07/03	DWJ	EPA-200.8/6020
Chromium, Total	<1.0	1.0	ug/L	03/07/03	DWJ	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	03/07/03	DWJ	EPA-200.8/6020
Iron, Total	550	20	ug/L	03/04/03	KLVM	EPA-200.7/6010B
Lithium, Total	<20	20	ug/L	03/04/03	KLVM	EPA-200.7/6010B
Manganese, Total	22	10	ug/L	03/07/03	DWJ	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	03/07/03	DWJ	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	03/07/03	DWJ	EPA-200.8/6020
Lead, Total	<1.0	1.0	ug/L	03/07/03	DWJ	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	03/07/03	DWJ	EPA-200.8/6020
Antimony, Total	<2.0	2.0	ug/L	03/10/03	DWJ	EPA-200.8/6020
Zinc, Total	<10	10	ug/L	03/07/03	DWJ	EPA-200.8/6020
Chloride	25	1.0	mg/L	03/03/03	SAJ	325.2/4500-CL E
Nitrogen, Nitrate	0.12	0.05	mg/L	02/27/03	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	02/27/03	HLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	03/05/03	JLB	350.1/4500 NH3G
Fluoride	<0.10	0.10	mg/L	02/28/03	VAS	340.2/4500 F-C
Sulfide	<1.0	1.0	mg/L	02/28/03	HLB	376.1/4500 S2-F
Sulfate	<5.0	5.0	mg/L	03/04/03	JLB	375.2/4500 SO4F
Calcium, Dissolved	9.6	0.50	mg/L	03/10/03	JAC	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	03/10/03	JAC	EPA-200.7/6010B
Magnesium, Dissolved	2.0	0.50	mg/L	03/10/03	JAC	EPA-200.7/6010B
Sodium, Dissolved	1.1	0.50	mg/L	03/12/03	DWJ	EPA-200.7/6010B
Alkalinity, Bicarbonate	32	2.0	mg/L	03/06/03	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	03/06/03	VAS	310.1/SM 2320 B
Alkalinity, Total	32	2.0	mg/L	03/06/03	VAS	310.1/SM 2320 B
Hardness, (EDTA) as CaCO3	34	2.0	mg/L	02/28/03	VAS	130.2/SM 2340 C

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

North Jackson Company
Project: Yellow Dog

Submittal: 02/25-26/03 Samples

Sample #: **325608**
Sample ID: **Duplicate**

Matrix: Surface Water

Submittal #: **36162-2**
Sampled: 02/26/03 @ 12:00
Sampler: D.W./P.S.
Received: 02/27/03 @ 08:55

Parameter	Analytical Result	Quant. Limit	Unit	Analysis Date	Chem	Reference Citation
BOD, (5-Day)	1.1	1.0	mg/L	02/27/03	TAM	SDM 5210B
Chemical Oxygen Demand	15	5.0	mg/L	02/28/03	JMJ	410.4/SM 5220 D
Coliform, Total	220	2	col/100mL	02/27/03	GEH	SM 9223B
Color (Apparent)	40	5	A.C.U.	02/27/03	GEH	USEPA-110.2
Turbidity	1.8	1.0	NTU	02/27/03	HLB	USEPA-180.1
Residue, Suspended	<3	3	mg/L	02/28/03	INR	160.2/SM 2540 D
Residue,Dissolved @ 180*C	126	50	mg/L	02/28/03	INR	160.1/SM 2540 C
Carbon, Total Organic	6.2	1.0	mg/L	02/28/03	GEH	EPA-415.1/9060
SGT-HEM;Nonpolar Material	<10	10	mg/L	03/04/03	JMJ	USEPA-1664A

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ANALYTICAL REPORT

North Jackson Company
Project: Yellow Dog

Submittal: 02/25-26/03 Samples

Sample #: **325608**
Sample ID: **Duplicate**

Matrix: Surface Water

Submittal #: **36162-2**
Sampled: 02/26/03 @ 12:00
Sampler: D.W./P.S.
Received: 02/27/03 @ 08:55
Extracted:
Analyzed: 03/04/03 by LEW
Ref. Citation: USEPA-8260B
Dilution Factor: 1
Analytical Batch: 197547
QC Batch: 083044-103

CAS Number	Volatile Organics USEPA Method 8260B	Analytical Result (ug/L)	Quantitation Limit (ug/L)
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

End of Analytical Report

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Individual sample results relate only to the sample tested.
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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Bicarbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/06/03	197663	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/06/03	197663	VAS	238	248	104	93-105

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Carbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/06/03	197663	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/06/03	197663	VAS	377	345	92	81-107

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Total**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/06/03	197663	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/06/03	197663	VAS	238	248	104	92-105

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QUALITY CONTROL REPORT

Parameter: **Aluminum, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/04/03	197556	KLVM	<200
03/10/03	197836	JAC	<200

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/04/03	197556	KLVM	500	486	97	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/04/03	83068	KLVM	<200

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/04/03	83068	KLVM	2500	2473	99	86-120

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QUALITY CONTROL REPORT

Parameter: **Antimony, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/10/03	197836	JAC	<200

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QUALITY CONTROL REPORT

Parameter: **Antimony, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/10/03	197761	DWJ	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/10/03	197761	DWJ	40	43.3	108	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/10/03	83189	DWJ	<2.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/10/03	83189	DWJ	50	53.5	107	85-127

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/04/03	197556	KLVM	<100

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/05/03	197716	DWJ	<1.0
03/07/03	197743	DWJ	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/05/03	197716	DWJ	40	40.8	102	90-110
03/07/03	197743	DWJ	40	41.2	103	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/05/03	83163	DWJ	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/05/03	83163	DWJ	50	50.9	102	87-120

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/04/03	197556	KLVM	<10
03/10/03	197836	JAC	<10

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/05/03	197716	DWJ	<10
03/07/03	197740	DWJ	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/05/03	197716	DWJ	40	39.5	99	90-110
03/07/03	197740	DWJ	40	40.9	102	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/05/03	83163	DWJ	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/05/03	83163	DWJ	50	52.3	105	86-119

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QUALITY CONTROL REPORT

Parameter: **Beryllium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/04/03	197556	KLVM	<1
03/10/03	197836	JAC	<10

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QUALITY CONTROL REPORT

Parameter: **Beryllium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/07/03	197741	DWJ	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/07/03	197741	DWJ	40	43.4	109	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/07/03	83163	DWJ	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/07/03	83163	DWJ	50	51.1	102	76-125

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QUALITY CONTROL REPORT

Parameter: **BOD, (5-Day)**
Method: Biochemical Oxygen Demand SDM 5210B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/27/03	197655	TAM	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/27/03	197655	TAM	198	213	108	82-135

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QUALITY CONTROL REPORT

Parameter: **Boron, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/10/03	197836	JAC	<100

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QUALITY CONTROL REPORT

Parameter: **Boron, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/07/03	197741	DWJ	<50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/07/03	197741	DWJ	40	43.0	108	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/07/03	83163	DWJ	<50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/07/03	83163	DWJ	50	47.9	96	78-121

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QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/04/03	197556	KLVM	<10
03/10/03	197836	JAC	<10

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QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/05/03	197716	DWJ	<0.2
03/07/03	197743	DWJ	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/05/03	197716	DWJ	40	41.1	103	90-110
03/07/03	197743	DWJ	40	39.1	98	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/05/03	83163	DWJ	<0.2

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/05/03	83163	DWJ	50	49.9	100	86-119

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QUALITY CONTROL REPORT

Parameter: **Carbon, Total Organic**
Method: Organic Carbon, Total EPA-415.1/9060 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/28/03	197507	GEH	<0.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/28/03	197507	GEH	25	25	100	86-117

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QUALITY CONTROL REPORT

Parameter: **Chemical Oxygen Demand**
Method: Closed Reflux, Colorimetric Method 410.4/SM 5220 D WATER
Units: mg/L

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
02/28/03	83024	JMJ	<5.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/28/03	83024	JMJ	30	31	103	90-110

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QUALITY CONTROL REPORT

Parameter: **Chloride**
Method: Colorimetric, Automated Ferricyanide 325.2/4500-CL E WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/03/03	197528	SAJ	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/03/03	197528	SAJ	109	111	102	95-109

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QUALITY CONTROL REPORT

Parameter: **Chromium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/04/03	197556	KLVM	<50
03/10/03	197836	JAC	<50

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QUALITY CONTROL REPORT

Parameter: **Chromium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/05/03	197716	DWJ	<1.0
03/07/03	197743	DWJ	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/05/03	197716	DWJ	40	40.4	101	90-110
03/07/03	197743	DWJ	40	39.6	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/05/03	83163	DWJ	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/05/03	83163	DWJ	50	48.0	96	84-122

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QUALITY CONTROL REPORT

Parameter: **Cobalt, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/04/03	197556	KLVM	<10
03/10/03	197836	JAC	<10

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QUALITY CONTROL REPORT

Parameter: **Cobalt, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/05/03	197716	DWJ	<10
03/07/03	197743	DWJ	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/05/03	197716	DWJ	40	41.4	104	90-110
03/07/03	197743	DWJ	40	39.5	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/05/03	83163	DWJ	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/05/03	83163	DWJ	50	49.6	99	80-125

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QUALITY CONTROL REPORT

Parameter: **Color (Apparent)**
Method: Colorimetric, Platinum-Cobalt USEPA-110.2 WATER
Units: A.C.U.

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/27/03	197445	GEH	<5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/27/03	197445	GEH	50	50	100	80-120

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/04/03	197556	KLVM	<10
03/10/03	197836	JAC	<10

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/05/03	197716	DWJ	<1.0
03/07/03	197743	DWJ	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/05/03	197716	DWJ	40	41.2	103	90-110
03/07/03	197743	DWJ	40	40.2	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/05/03	83163	DWJ	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/05/03	83163	DWJ	50	51.8	104	86-123

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QUALITY CONTROL REPORT

Parameter: **Fluoride**
Method: Potentiometric, Ion Selective Electrode 340.2/4500 F-C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/28/03	197463	VAS	<0.10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/28/03	197463	VAS	3.89	4.05	104	88-116

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QUALITY CONTROL REPORT

Parameter: **Hardness, (EDTA) as CaCO3**
Method: Hardness-Titrimetric, EDTA 130.2/SM 2340 C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/28/03	197446	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/28/03	197446	VAS	73.5	76	103	94-107

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QUALITY CONTROL REPORT

Parameter: **Iron, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/04/03	197556	KLVM	<10
03/10/03	197836	JAC	<100

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/04/03	197556	KLVM	500	476	95	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/04/03	83068	KLVM	<20

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/04/03	83068	KLVM	500	501	100	83-118

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QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/04/03	197556	KLVM	<50
03/10/03	197836	JAC	<50

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QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/05/03	197716	DWJ	<1.0
03/07/03	197743	DWJ	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/05/03	197716	DWJ	40	41.0	103	90-110
03/07/03	197743	DWJ	40	40.8	102	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/05/03	83163	DWJ	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/05/03	83163	DWJ	50	49.0	98	89-120

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QUALITY CONTROL REPORT

Parameter: **Lithium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/04/03	197556	KLVM	<20

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/04/03	197556	KLVM	500	466	93	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/04/03	83068	KLVM	<20

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/04/03	83068	KLVM	500	473	95	86-115

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QUALITY CONTROL REPORT

Parameter: **Magnesium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/04/03	197556	KLVM	<0.50
03/10/03	197836	JAC	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/10/03	197836	JAC	5.0	4.96	99	90-110

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/04/03	197556	KLVM	<10

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/05/03	197716	DWJ	<10
03/07/03	197743	DWJ	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/05/03	197716	DWJ	40	40.9	102	90-110
03/07/03	197743	DWJ	40	39.8	100	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/05/03	83163	DWJ	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/05/03	83163	DWJ	50	50.2	100	84-126

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QUALITY CONTROL REPORT

Parameter: **Molybdenum, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/04/03	197556	KLVM	<100
03/10/03	197836	JAC	<100

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QUALITY CONTROL REPORT

Parameter: **Molybdenum, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/05/03	197716	DWJ	<10
03/07/03	197743	DWJ	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/05/03	197716	DWJ	40	40.2	101	90-110
03/07/03	197743	DWJ	40	39.7	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/05/03	83163	DWJ	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/05/03	83163	DWJ	50	51.6	103	88-114

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/04/03	197556	KLVM	<10
03/10/03	197836	JAC	<10

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/05/03	197716	DWJ	<1.0
03/07/03	197740	DWJ	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/05/03	197716	DWJ	40	42.9	107	90-110
03/07/03	197740	DWJ	40	41.4	104	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/05/03	83163	DWJ	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/05/03	83163	DWJ	50	50.2	100	82-124

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Ammonia**
Method: Colorimetric, Automated Phenate 350.1/4500 NH3G WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/05/03	197579	JLB	<0.01

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/05/03	197579	JLB	0.7527	0.767	102	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrate**
Method: Colorimetric, Auto-Cadmium Reduction 353.2/4500 NO3F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/27/03	197488	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/27/03	197488	HLB	0.693	0.667	96	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrite**
Method: Colorimetric, Automated USEPA-353.2 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/27/03	197490	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/27/03	197490	HLB	0.50	0.50	100	90-110

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QUALITY CONTROL REPORT

Parameter: **Potassium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/04/03	197556	KLVM	<0.10
03/10/03	197836	JAC	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/10/03	197836	JAC	5.0	5.02	100	90-110

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QUALITY CONTROL REPORT

Parameter: **Residue,Dissolved @ 180*C**
Method: Residue-Gravimetric, Dried @ 180*C 160.1/SM 2540 C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/28/03	197578	INR	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/28/03	197578	INR	303.7	304	100	90-108

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QUALITY CONTROL REPORT

Parameter: **Residue, Suspended**
Method: Residue-Gravimetric, Dried @ 103-105*C 160.2/SM 2540 D WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/28/03	197593	INR	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/28/03	197593	INR	78.4	75	96	89-106

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QUALITY CONTROL REPORT

Parameter: **Selenium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/10/03	197836	JAC	<100

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QUALITY CONTROL REPORT

Parameter: **Selenium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/05/03	197716	DWJ	<2.0
03/07/03	197743	DWJ	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/05/03	197716	DWJ	40	41.0	103	90-110
03/07/03	197743	DWJ	40	40.5	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/05/03	83163	DWJ	<2.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/05/03	83163	DWJ	50	51.5	103	84-120

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QUALITY CONTROL REPORT

Parameter: **SGT-HEM;Nonpolar Material**
Method: Hexane Extractable Material-SGT USEPA-1664A WATER
Units: mg/L

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/04/03	83088	JMJ	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/04/03	83088	JMJ	20	14.5	73	64-132

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QUALITY CONTROL REPORT

Parameter: **Silver, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/04/03	197556	KLVM	<10
03/10/03	197836	JAC	<10

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QUALITY CONTROL REPORT

Parameter: **Silver, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/05/03	197716	DWJ	<0.2
03/07/03	197743	DWJ	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/05/03	197716	DWJ	40	40.8	102	90-110
03/07/03	197743	DWJ	40	39.8	100	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/05/03	83163	DWJ	<0.2

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/05/03	83163	DWJ	50	51.2	102	86-117

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QUALITY CONTROL REPORT

Parameter: **Sodium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/04/03	197556	KLVM	<0.50
03/10/03	197836	JAC	<0.50
03/12/03	197870	DWJ	<0.50
03/13/03	197899	KLVM	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/12/03	197870	DWJ	5.0	4.66	93	90-110
03/13/03	197899	KLVM	5.0	4.96	99	90-110

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QUALITY CONTROL REPORT

Parameter: **Sulfate**
Method: Automated, Methylthymol Blue 375.2/4500 SO4F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/04/03	197589	JLB	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/04/03	197589	JLB	37.48	36.52	97	90-110

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QUALITY CONTROL REPORT

Parameter: **Sulfide**
Method: Titrimetric, Iodine 376.1/4500 S2-F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/28/03	197486	HLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/28/03	197486	HLB	15.2	15	99	97-103

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QUALITY CONTROL REPORT

Parameter: **Turbidity**
Method: Nephelometric USEPA-180.1 WATER
Units: NTU

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/27/03	197503	HLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/27/03	197503	HLB	401	389	97	90-110

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QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/04/03	197556	KLVM	<10
03/10/03	197836	JAC	<20

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QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/05/03	197716	DWJ	<10
03/07/03	197743	DWJ	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/05/03	197716	DWJ	40	40.5	101	90-110
03/07/03	197743	DWJ	40	39.9	100	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/05/03	83163	DWJ	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/05/03	83163	DWJ	50	48.9	98	88-127

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QUALITY CONTROL REPORT

METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
Method: Volatiles Purge & Trap-GC/MS
Analyst: Laurel E. Wood
Test Date: 03/03/03
Units: ug/L
QC Batch: 83044-103

Parameter	Blank Concentration	Quantitation Limit
Benzene	<1.0	1.0
Ethylbenzene	<1.0	1.0
Toluene	<1.0	1.0
Xylene (Total)	<3.0	3.0

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QUALITY CONTROL REPORT

LABORATORY FORTIFIED BLANK

Fraction: Quality Control Fraction
Method: Volatiles Purge & Trap-GC/MS
Analyst: Laurel E. Wood Test Date: 03/03/03
Units: ug/L
QC Batch: 83044-103

Parameter	Spike Quantity	Spike Result	Spike % Rec	Control Limits
Benzene	40.0	39.0	98	79 - 120
Ethylbenzene	40.0	38.1	95	77 - 125
Toluene	40.0	39.7	99	79 - 126
Xylene (Total)	120	110	92	80 - 119

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QUALITY CONTROL REPORT
SURROGATE RECOVERIES

Method: Volatiles Purge & Trap-GC/MS USEPA-8260B WATER

Surrogate Compound List

SUR-1: Dibromofluoromethane-sur
SUR-2: d4-1,2-Dichloroethane-sur
SUR-3: d8-Toluene-sur
SUR-4: 4-Bromofluorobenzene-sur

% R = Percent Recovery

Compounds:		SUR-1	SUR-2	SUR-3	SUR-4
Control Limits:		79-124	75-128	87-113	70-121
Sample # / ID	Batch	% R	% R	% R	% R
MPB-01	83044-103	98	98	100	88
LFB-01	83044-103	99	101	101	104
325604	83044-103	98	97	102	88
325605	83044-103	98	99	102	87
325606	83044-103	107	100	99	85
325607	83044-103	99	99	102	87
325608	83044-103	110	111	101	86

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www.trimatrixlabs.com

Chain of Custody Record

COC No. 90946

Page ____ of ____

For Lab Use Only

Cart: 8
VOA Rack/Tray: 538-R-12
Receipt Log No.: 1-1
Project Chemist: JM
Laboratory Project No.: 30162-2

Client Name: North Jackson Co
Address: 420 Rail St.
Negaunee MI 49866
Phone: 906-475-9865
Fax: 906-475-0238

Project Name: Yellow Dog
Client Project No. / P.O. No.:
Invoice To: ☐ Client ☐ Other (comments)
Contact/Report To: Dan Wiitala

Analyses Requested

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List) A	C	B	F	D	Total	Sample Comments
										Number of Containers Submitted 11 7 15 3 4 6 9 8 10						
	WS	325604	1 STR001	TM0527	2-25-03	1400		X	wtr	3	6	2	1	2	15	
	WS	325605	2 STR002	↓	2-25-03	1200		X	wtr	3	6	2	1	2	15	
			3													
			4													
			5													
			6													
			7													
			8													
			9													
			10													

Sampled By (print): D. Wiitala / P. Sabeq
Sampler's Signature: Dan Wiitala
Company: North Jackson Co.

How Shipped? Hand Carrier Fed EX
Tracking No. 826251222605

Comments: See Attached List for Analyses

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
Dan Wiitala	2-25-03	1800						
1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
						[illegible] Parker	2/27/03	8:55

TriMatrixCOC -- COC

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Chain of Custody Record

COC No. 90947

Page ____ of ____

For Lab Use Only

Cart: 8
VOA Rack/Tray: 538-R-12
Receipt Log No.: 1-2
Project Chemist: JWS
Laboratory Project No.: 36162 2

Client Name: North Jackson Co
Address: 420 Rail St.
Phone: 906-475-9865
Fax: 906-475-0238

Project Name: Yellow Dog
Client Project No. / P.O. No.:
Invoice To: ☐ Client ☐ Other (comments)
Contact/Report To: Dan Wiitala

Analyses Requested

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type A	C	B	F	D	Total	Sample Comments
											Number of Containers Submitted 3	6	2	1	2	2	
	WS	325606	1	YDR001	TM0265	2-26-03	12:00		X	wtr						15	
	WS	325607	2	YDR002	TM0465	2-26-03	14:00		X	wtr						15	
	WS	325608	3	Duplicate	↓	2-26-03	12:00		X	wtr						15	
			4	STR002	TM0527	2-25-03	12:00		X	wtr						!	- Bottle missing from 2-25-03 shipment
			5														
			6														
			7														
			8														
			9														
			10														

Sampled By (print): D. Wiitala / P. Sabee
Sampler's Signature:

How Shipped? Hand Carrier Fed Ex
Tracking No. 826251222646 2 pkgs

Comments: See Attach List For Analyses

Company: North Jackson Co

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
	2-26-03	15:00						
1. Received By	**Date**	**Time**	**2. Received By**	**Date**	**Time**	**3. Received for Lab By**	**Date**	**Time**
							2/27/03	10:00

TriMatrixCOC -- COC WHITE COPY - REPORT YELLOW COPY - LABORATORY PINK COPY - FIELD

May 9, 2003

North Jackson Company
Attn: Mr. Peter Sabee
420 Rail Street
Negaunee, MI 49866

RE: Eagle

Dear Mr. Peter Sabee:

Enclosed is a copy of your laboratory report and invoice for submittal **36162-3.** This submittal was completely received on April 25, 2003. All analyses have been validated and comply with our Quality Control program statistics unless otherwise noted.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosure

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36162- 3

STATEMENT OF DATA QUALIFICATIONS

Analysis: **Residue, Suspended**
Residue-Gravimetric, Dried @ 103-105*C
WATER 160.2/SM 2540 D

Qualification:

The detection limit for this sample and corresponding analysis were elevated due to insufficient sample volume received.

Sample(s) Qualified: 329342 YDR001

Note: This document is included as a part of the analytical report for the above referenced project and submittal, and should be retained as a permanent record thereof.

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Carbon, Total Organic**
Organic Carbon, Total
WATER EPA-415.1/9060

Qualification:

The analytical requirements of the method require quadruplicate analysis on every sample submitted for TOC testing. The reporting requirements require both the average and the range of the four analysis be reported. The result reported is the average; the range of the replicates is:

Explanation for Sample(s) listed below:

10.35 - 11.04

Sample(s) Qualified: 329342 YDR001

Explanation for Sample(s) listed below:

11.27 - 11.46

Sample(s) Qualified: 329343 YDR002

Explanation for Sample(s) listed below:

7.08 - 7.25

Sample(s) Qualified: 329344 STR001

Explanation for Sample(s) listed below:

9.33 - 9.57

Sample(s) Qualified: 329345 STR002

Note: This document is included as a part of the analytical report for the above referenced project and submittal, and should be retained as a permanent record thereof.

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CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

The pH value of the sample is 4.12.

Sample(s) Narrated: 329345 STR002

Explanation for Sample(s) listed below:

The pH value of the sample is 5.72.

Sample(s) Narrated: 329343 YDR002

Explanation for Sample(s) listed below:

The pH value of the sample is 5.89.

Sample(s) Narrated: 329342 YDR001

Explanation for Sample(s) listed below:

The pH value of the sample is 6.11.

Sample(s) Narrated: 329344 STR001

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CASE NARRATIVE

Analysis: **BOD, (5-Day)**
Biochemical Oxygen Demand
WATER SDM 5210B

Narrative:

The reported Biochemical Oxygen Demand result for this sample was calculated on an oxygen depletion of <2.0 mg/l

Sample(s) Narrated: 329342 YDR001
329343 YDR002

Narrative:

The precision result between the sample and its duplicate was out of control when compared to the precision window. Because the amounts found in both analyses were less than five times the reporting limit, no qualifications are necessary.

Sample(s) Narrated: 329342 YDR001

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TriMatrix
Laboratories, Inc.

ANALYTICAL REPORT

North Jackson Company
Project: Eagle

Submittal: 04/23-25/03 Samples

Submittal #: **36162-3**
Sampled: 04/23/03 @ 13:00
Sampler: P. Sabee
Received: 04/25/03 @ 08:40

Sample #: **329342**
Sample ID: **YDR001**

Matrix: Surface Water

Parameter	Analytical Result	Quant. Limit	Unit	Analysis Date	Chem	Reference Citation
Arsenic, Total	<1.0	1.0	ug/L	05/07/03	DSC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	05/07/03	DSC	EPA-200.8/6020
Copper, Total	1.1	1.0	ug/L	05/07/03	DSC	EPA-200.8/6020
Iron, Total	200	20	ug/L	04/28/03	JAC	EPA-200.7/6010B
Manganese, Total	<10	10	ug/L	05/07/03	DSC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	05/07/03	DSC	EPA-200.8/6020
Chloride	<1.0	1.0	mg/L	04/28/03	SAJ	325.2/4500-CL E
Nitrogen, Nitrate	0.09	0.05	mg/L	04/25/03	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	04/25/03	HLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	04/29/03	GEH	350.1/4500 NH3G
Sulfate	5.3	5.0	mg/L	04/30/03	JLB	375.2/4500 SO4E
Calcium, Dissolved	3.0	0.50	mg/L	05/06/03	JAC	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	05/06/03	JAC	EPA-200.7/6010B
Magnesium, Dissolved	0.70	0.50	mg/L	05/06/03	JAC	EPA-200.7/6010B
Sodium, Dissolved	0.54	0.50	mg/L	05/06/03	JAC	EPA-200.7/6010B
Alkalinity, Bicarbonate	6.4	2.0	mg/L	05/01/03	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	05/01/03	VAS	310.1/SM 2320 B
Alkalinity, Total	6.4	2.0	mg/L	05/01/03	VAS	310.1/SM 2320 B
Hardness, (EDTA) as CaCO3	16	2.0	mg/L	05/02/03	VAS	130.2/SM 2340 C
Chemical Oxygen Demand	25	5.0	mg/L	04/29/03	JMJ	410.4/SM 5220 D
Color (Apparent)	75	5	A.C.U.	04/25/03	GEH	USEPA-110.2
Turbidity	1.3	1.0	NTU	04/25/03	HLB	USEPA-180.1
Residue, Suspended	*<6	6	mg/L	04/29/03	INR	160.2/SM 2540 D
Residue,Dissolved @ 180*C	66	50	mg/L	04/29/03	INR	160.1/SM 2540 C
Carbon, Total Organic	* 11	1.0	mg/L	04/30/03	GEH	EPA-415.1/9060
BOD, (5-Day)	1.9	1.0	mg/L	04/25/03	HLB	SDM 5210B

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

North Jackson Company
Project: Eagle

Submittal: 04/23-25/03 Samples

Submittal #: **36162-3**
Sampled: 04/23/03 @ 15:30
Sampler: P. Sabee
Received: 04/25/03 @ 08:40

Sample #: **329343**
Sample ID: **YDR002**

Matrix: Surface Water

Parameter	Analytical Result	Quant. Limit	Unit	Analysis Date	Chem	Reference Citation
Arsenic, Total	<1.0	1.0	ug/L	05/07/03	DSC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	05/07/03	DSC	EPA-200.8/6020
Copper, Total	1.2	1.0	ug/L	05/07/03	DSC	EPA-200.8/6020
Iron, Total	230	20	ug/L	04/28/03	JAC	EPA-200.7/6010B
Manganese, Total	<10	10	ug/L	05/07/03	DSC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	05/07/03	DSC	EPA-200.8/6020
Chloride	<1.0	1.0	mg/L	04/28/03	SAJ	325.2/4500-CL E
Nitrogen, Nitrate	0.10	0.05	mg/L	04/25/03	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	04/25/03	HLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	04/29/03	GEH	350.1/4500 NH3G
Sulfate	6.0	5.0	mg/L	04/30/03	JLB	375.2/4500 SO4E
Calcium, Dissolved	2.8	0.50	mg/L	05/05/03	DSC	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	05/05/03	DSC	EPA-200.7/6010B
Magnesium, Dissolved	0.64	0.50	mg/L	05/05/03	DSC	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	05/05/03	DSC	EPA-200.7/6010B
Alkalinity, Bicarbonate	5.3	2.0	mg/L	05/01/03	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	05/01/03	VAS	310.1/SM 2320 B
Alkalinity, Total	5.3	2.0	mg/L	05/01/03	VAS	310.1/SM 2320 B
Hardness, (EDTA) as CaCO3	18	2.0	mg/L	05/02/03	VAS	130.2/SM 2340 C
Chemical Oxygen Demand	28	5.0	mg/L	04/29/03	JMJ	410.4/SM 5220 D
Color (Apparent)	75	5	A.C.U.	04/25/03	GEH	USEPA-110.2
Turbidity	1.3	1.0	NTU	04/25/03	HLB	USEPA-180.1
Residue, Suspended	<3	3	mg/L	04/29/03	INR	160.2/SM 2540 D
Residue,Dissolved @ 180*C	60	50	mg/L	04/29/03	INR	160.1/SM 2540 C
Carbon, Total Organic	* 11	1.0	mg/L	04/30/03	GEH	EPA-415.1/9060
BOD, (5-Day)	2.1	1.0	mg/L	04/25/03	HLB	SDM 5210B

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

North Jackson Company
Project: Eagle

Submittal: 04/23-25/03 Samples

Submittal #: **36162-3**
Sampled: 04/23/03 @ 10:30
Sampler: P. Sabee
Received: 04/25/03 @ 08:40

Sample #: **329344**
Sample ID: **STR001**

Matrix: Surface Water

Parameter	Analytical Result	Quant. Limit	Unit	Analysis Date	Chem	Reference Citation
Arsenic, Total	<1.0	1.0	ug/L	05/07/03	DSC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	05/07/03	DSC	EPA-200.8/6020
Copper, Total	1.2	1.0	ug/L	05/07/03	DSC	EPA-200.8/6020
Iron, Total	240	20	ug/L	04/28/03	JAC	EPA-200.7/6010B
Manganese, Total	<10	10	ug/L	05/07/03	DSC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	05/07/03	DSC	EPA-200.8/6020
Chloride	<1.0	1.0	mg/L	04/28/03	SAJ	325.2/4500-CL E
Nitrogen, Nitrate	<0.05	0.05	mg/L	04/25/03	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	04/25/03	HLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	04/29/03	GEH	350.1/4500 NH3G
Sulfate	6.7	5.0	mg/L	04/30/03	JLB	375.2/4500 SO4F
Calcium, Dissolved	3.3	0.50	mg/L	05/05/03	DSC	EPA-200.7/6010B
Potassium, Dissolved	0.56	0.50	mg/L	05/05/03	DSC	EPA-200.7/6010B
Magnesium, Dissolved	0.78	0.50	mg/L	05/05/03	DSC	EPA-200.7/6010B
Sodium, Dissolved	0.56	0.50	mg/L	05/05/03	DSC	EPA-200.7/6010B
Alkalinity, Bicarbonate	11	2.0	mg/L	05/01/03	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	05/01/03	VAS	310.1/SM 2320 B
Alkalinity, Total	11	2.0	mg/L	05/01/03	VAS	310.1/SM 2320 B
Hardness, (EDTA) as CaCO3	14	2.0	mg/L	05/02/03	VAS	130.2/SM 2340 C
Chemical Oxygen Demand	17	5.0	mg/L	04/29/03	JMJ	410.4/SM 5220 D
Color (Apparent)	62	5	A.C.U.	04/25/03	GEH	USEPA-110.2
Turbidity	<1.0	1.0	NTU	04/25/03	HLB	USEPA-180.1
Residue, Suspended	<3	3	mg/L	04/29/03	INR	160.2/SM 2540 D
Residue,Dissolved @ 180*C	92	50	mg/L	04/29/03	INR	160.1/SM 2540 C
Carbon, Total Organic	* 7.2	1.0	mg/L	05/01/03	GEH	EPA-415.1/9060

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

North Jackson Company
Project: Eagle

Submittal: 04/23-25/03 Samples

Submittal #: **36162-3**
Sampled: 04/23/03 @ 11:00
Sampler: P. Sabee
Received: 04/25/03 @ 08:40

Sample #: **329345**
Sample ID: **STR002**

Matrix: Surface Water

Parameter	Analytical Result	Quant. Limit	Unit	Analysis Date	Chem	Reference Citation
Arsenic, Total	<1.0	1.0	ug/L	05/07/03	DSC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	05/07/03	DSC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	05/07/03	DSC	EPA-200.8/6020
Iron, Total	200	20	ug/L	04/28/03	JAC	EPA-200.7/6010B
Manganese, Total	<10	10	ug/L	05/07/03	DSC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	05/07/03	DSC	EPA-200.8/6020
Chloride	<1.0	1.0	mg/L	04/28/03	SAJ	325.2/4500-CL E
Nitrogen, Nitrate	<0.05	0.05	mg/L	04/25/03	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	04/25/03	HLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	04/29/03	GEH	350.1/4500 NH3G
Sulfate	5.7	5.0	mg/L	04/30/03	JLB	375.2/4500 SO4F
Calcium, Dissolved	4.5	0.50	mg/L	05/05/03	DSC	EPA-200.7/6010B
Potassium, Dissolved	0.68	0.50	mg/L	05/05/03	DSC	EPA-200.7/6010B
Magnesium, Dissolved	0.97	0.50	mg/L	05/05/03	DSC	EPA-200.7/6010B
Sodium, Dissolved	0.63	0.50	mg/L	05/05/03	DSC	EPA-200.7/6010B
Alkalinity, Bicarbonate	14	2.0	mg/L	05/01/03	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	05/01/03	VAS	310.1/SM 2320 B
Alkalinity, Total	14	2.0	mg/L	05/01/03	VAS	310.1/SM 2320 B
Hardness, (EDTA) as CaCO3	44	2.0	mg/L	05/02/03	VAS	130.2/SM 2340 C
Chemical Oxygen Demand	23	5.0	mg/L	04/29/03	JMJ	410.4/SM 5220 D
Color (Apparent)	75	5	A.C.U.	04/25/03	GEH	USEPA-110.2
Turbidity	<1.0	1.0	NTU	04/25/03	HLB	USEPA-180.1
Residue, Suspended	<3	3	mg/L	04/29/03	INR	160.2/SM 2540 D
Residue,Dissolved @ 180*C	110	50	mg/L	04/29/03	INR	160.1/SM 2540 C
Carbon, Total Organic	* 9.5	1.0	mg/L	05/01/03	GEH	EPA-415.1/9060

* See attached Statement of Data Qualifications.

End of Analytical Report

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Bicarbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/01/03	200187	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/01/03	200187	VAS	238	247	104	93-105

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Carbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/01/03	200187	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/01/03	200187	VAS	377	358	95	81-107

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Total**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/01/03	200187	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/01/03	200187	VAS	238	247	104	92-105

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/28/03	199965	JAC	<200

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/07/03	200347	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/07/03	200347	DSC	40	42.4	106	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/07/03	84793	DSC	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/07/03	84793	DSC	25	27.1	108	87-120

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/28/03	199965	JAC	<10

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/07/03	200347	DSC	<5.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/07/03	200347	DSC	40	43.3	108	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/07/03	84793	DSC	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/07/03	84793	DSC	25	26.3	105	86-119

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QUALITY CONTROL REPORT

Parameter: **BOD, (5-Day)**
Method: Biochemical Oxygen Demand SDM 5210B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/25/03	200104	HLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/25/03	200104	HLB	198	209	106	83-125

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QUALITY CONTROL REPORT

Parameter: **Carbon, Total Organic**
Method: Organic Carbon, Total EPA-415.1/9060 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/30/03	200248	GEH	<0.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/30/03	200248	GEH	25	26	104	86-117

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QUALITY CONTROL REPORT

Parameter: **Chemical Oxygen Demand**
Method: Closed Reflux, Colorimetric Method 410.4/SM 5220 D WATER
Units: mg/L

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/29/03	84763	JMJ	<5.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/29/03	84763	JMJ	30	30	100	90-110

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36162- 3

QUALITY CONTROL REPORT

Parameter: **Chloride**
Method: Colorimetric, Automated Ferricyanide 325.2/4500-CL E WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/28/03	200052	SAJ	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/28/03	200052	SAJ	109	112	103	95-109

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36162- 3

QUALITY CONTROL REPORT

Parameter: **Color (Apparent)**
Method: Colorimetric, Platinum-Cobalt USEPA-110.2 WATER
Units: A.C.U.

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/25/03	200194	GEH	<5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/25/03	200194	GEH	50	50	100	80-120

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36162- 3

QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/28/03	199965	JAC	<10

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/07/03	200347	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/07/03	200347	DSC	40	39.3	98	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/07/03	84793	DSC	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/07/03	84793	DSC	25	27.9	112	86-123

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QUALITY CONTROL REPORT

Parameter: **Hardness, (EDTA) as CaCO3**
Method: Hardness-Titrimetric, EDTA 130.2/SM 2340 C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/02/03	200212	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/02/03	200212	VAS	119	124	104	94-107

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QUALITY CONTROL REPORT

Parameter: **Iron, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/28/03	199965	JAC	<20
05/05/03	200246	DSC	<20
05/06/03	200324	JAC	<20

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/28/03	199965	JAC	500	504	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/28/03	84668	JAC	<20

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/28/03	84668	JAC	250	252	101	83-118

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QUALITY CONTROL REPORT

Parameter: **Magnesium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/28/03	199965	JAC	<0.50
05/05/03	200246	DSC	<0.50
05/06/03	200324	JAC	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/05/03	200246	DSC	5.0	5.08	102	90-110
05/06/03	200324	JAC	5.0	4.88	98	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/06/03	84668	JAC	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/06/03	84668	JAC	12.5	13.5	108	87-115

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/28/03	199965	JAC	<10
05/05/03	200246	DSC	<10

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/07/03	200347	DSC	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/07/03	200347	DSC	40	41.1	103	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/07/03	84793	DSC	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/07/03	84793	DSC	25	27.3	109	84-126

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/07/03	200347	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/07/03	200347	DSC	40	41.4	104	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/07/03	84793	DSC	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/07/03	84793	DSC	25	26.6	106	82-124

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Ammonia**
Method: Colorimetric, Automated Phenate 350.1/4500 NH3G WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/29/03	200105	GEH	<0.01

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/29/03	200105	GEH	0.7527	0.799	106	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrate**
Method: Colorimetric, Auto-Cadmium Reduction 353.2/4500 NO3F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/25/03	199934	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/25/03	199934	HLB	6.93	6.69	97	90-110
04/25/03	199934	HLB	0.693	0.716	103	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrite**
Method: Colorimetric, Automated USEPA-353.2 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/25/03	199935	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/25/03	199935	HLB	0.50	0.51	102	90-110

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QUALITY CONTROL REPORT

Parameter: **Potassium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/28/03	199965	JAC	<0.50
05/05/03	200246	DSC	<0.10
05/06/03	200324	JAC	<0.10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/05/03	200246	DSC	5.0	4.90	98	90-110
05/06/03	200324	JAC	5.0	4.51	90	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/06/03	84668	JAC	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/06/03	84668	JAC	12.5	13.8	110	87-125

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QUALITY CONTROL REPORT

Parameter: **Residue,Dissolved @ 180*C**
Method: Residue-Gravimetric, Dried @ 180*C 160.1/SM 2540 C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/29/03	200214	INR	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/29/03	200214	INR	156.3	159	102	90-108

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QUALITY CONTROL REPORT

Parameter: **Residue, Suspended**
Method: Residue-Gravimetric, Dried @ 103-105*C 160.2/SM 2540 D WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/29/03	200215	INR	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/29/03	200215	INR	80.2	79	99	89-106

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QUALITY CONTROL REPORT

Parameter: **Sodium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/28/03	199965	JAC	<0.50
05/05/03	200246	DSC	<0.50
05/06/03	200324	JAC	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/05/03	200246	DSC	5.0	4.84	97	90-110
05/06/03	200324	JAC	5.0	4.51	90	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/06/03	84668	JAC	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/06/03	84668	JAC	12.5	13.8	110	86-117

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QUALITY CONTROL REPORT

Parameter: **Sulfate**
Method: Automated, Methylthymol Blue 375.2/4500 SO4F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/30/03	200018	JLB	<5.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/30/03	200018	JLB	34.23	35.45	104	90-110

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36162- 3

QUALITY CONTROL REPORT

Parameter: **Turbidity**
Method: Nephelometric USEPA-180.1 WATER
Units: NTU

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/25/03	200157	HLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/25/03	200157	HLB	401	392	98	90-110

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TriMatrix Laboratories, Inc.

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Phone (616) 975-4500 Fax (616) 942-7463
www.trimatrixlabs.com

Chain of Custody Record

COC No. 92044

Page 1 of 1

For Lab Use Only

Cart: 4
VOA Rack/Tray:
Receipt Log No: 47-4
Project Chemist: JK
Laboratory Project No: 3011023

Client Name: North Jackson Co
Address: P.O. Box 30
420 Rail St
Negaunee MI 49866
Phone: 906 475 9882
Fax: 906 475 0239

Project Name: EAGLE
Client Project No. / P.O. No.:
Invoice To: [X] Client [X] Other (comments)
Contact/Report To: D SABEE

Analyses Requested: See Attached List

⇦ PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List) 3	4	6	11	15	Total	Sample Comments
											Number of Containers Submitted						
03	WS	329342	1	YDR001	TM0417	4-23-03	1300 1030 1536		X	Water	3	1	1	3	1	9	
		329343	2	YDR002			1106		X		3	1	1	3	1	9	
02		329344	3	STR001			1030		X		3	1	1	3	1	9	
		329345	4	STR002			1100		X		3	1	1	3	1	9	
			5														
			6														
			7														
			8														
			9														
			10														

Sampled By (print): D SABEE
Sampler's Signature: D Sabee
Company: North Jackson Co

How Shipped? Hand Carrier Fed Exp
Tracking No.:

Comments:

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
1. Received By	**Date**	**Time**	**2. Received By**	**Date**	**Time**	**3. Received For Laboratory**	**Date**	**Time**
						[signature]	4/25/03	8:40

TriMatrixCOC -- COC WHITE COPY - REPORT YELLOW COPY - LABORATORY PINK COPY - FIELD

May 16, 2003

North Jackson Company
Attn: Mr. Peter Sabee
420 Rail Street
Negaunee, MI 49866

RE: Eagle

Dear Mr. Peter Sabee:

Enclosed is a copy of your laboratory report and invoice for submittal **36162-4.** This submittal was completely received on May 7, 2003. All analyses have been validated and comply with our Quality Control program statistics unless otherwise noted.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosure

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Carbon, Total Organic**
Organic Carbon, Total
WATER EPA-415.1/9060

Qualification:

The analytical requirements of the method require quadruplicate analysis on every sample submitted for TOC testing. The reporting requirements require both the average and the range of the four analysis be reported. The result reported is the average; the range of the replicates is:

Explanation for Sample(s) listed below:

0.70 - 0.72

Sample(s) Qualified: 330747 CR001

Explanation for Sample(s) listed below:

0.81 - 0.86

Sample(s) Qualified: 330749 M-1

Explanation for Sample(s) listed below:

0.82 - 0.86

Sample(s) Qualified: 330748 CR002

Page 1 - **End of Statement of Data Qualifications**

Note: This document is included as a part of the analytical report for the above referenced project and submittal, and should be retained as a permanent record thereof.

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CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

7.71

Sample(s) Narrated: 330747 CR001

Explanation for Sample(s) listed below:

7.72

Sample(s) Narrated: 330748 CR002
330749 M-1

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CASE NARRATIVE

Analysis: **BOD, (5-Day)**
Biochemical Oxygen Demand
WATER SDM 5210B

Narrative:

The reported Biochemical Oxygen Demand result for this sample was calculated on an oxygen depletion of <2.0 mg/l

Sample(s) Narrated:	330747	CR001
	330750	STR001
	330751	STR002

Narrative:

The precision result between the sample and its duplicate was out of control when compared to the precision window. Because the amounts found in both analyses were less than five times the reporting limit, no qualifications are necessary.

Sample(s) Narrated:	330747	CR001

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

North Jackson Company
Project: Eagle

Submittal: May 6, 2003 Samples

Submittal #: **36162-4**
Sampled: 05/06/03 @ 13:45
Sampler: P. Sabee
Received: 05/07/03 @ 08:55

Sample #: **330747**
Sample ID: **CR001**

Matrix: Surface Water

Parameter	Analytical Result	Quant. Limit	Unit	Analysis Date	Chem	Reference Citation
Arsenic, Total	<1.0	1.0	ug/L	05/14/03	DSC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	05/14/03	JMF	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	05/14/03	DSC	EPA-200.8/6020
Iron, Total	<20	20	ug/L	05/12/03	KLVM	EPA-200.7/6010B
Manganese, Total	<10	10	ug/L	05/14/03	DSC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	05/14/03	DSC	EPA-200.8/6020
Chloride	3.7	1.0	mg/L	05/13/03	SAJ	325.2/4500-CL E
Nitrogen, Nitrate	0.06	0.05	mg/L	05/07/03	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	05/07/03	HLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	05/08/03	GEH	350.1/4500 NH3G
Sulfate	<5.0	5.0	mg/L	05/14/03	JLB	375.2/4500 SO4F
Calcium, Dissolved	16	0.50	mg/L	05/13/03	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.52	0.50	mg/L	05/13/03	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	2.2	0.50	mg/L	05/13/03	KLVM	EPA-200.7/6010B
Sodium, Dissolved	0.69	0.50	mg/L	05/13/03	KLVM	EPA-200.7/6010B
Alkalinity, Bicarbonate	42	2.0	mg/L	05/08/03	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	05/08/03	VAS	310.1/SM 2320 B
Alkalinity, Total	42	2.0	mg/L	05/08/03	VAS	310.1/SM 2320 B
Hardness, (EDTA) as CaCO3	54	2.0	mg/L	05/09/03	VAS	130.2/SM 2340 C
BOD, (5-Day)	1.3	1.0	mg/L	05/07/03	TAM	SDM 5210B
Chemical Oxygen Demand	<5.0	5.0	mg/L	05/08/03	JMJ	410.4/SM 5220 D
Color (Apparent)	10	5	A.C.U.	05/07/03	GEH	USEPA-110.2
Turbidity	<1.0	1.0	NTU	05/07/03	HLB	USEPA-180.1
Residue, Suspended	<3	3	mg/L	05/09/03	INR	160.2/SM 2540 D
Residue,Dissolved @ 180*C	54	50	mg/L	05/09/03	INR	160.1/SM 2540 C
Carbon, Total Organic	*<1.0	1.0	mg/L	05/09/03	GEH	EPA-415.1/9060

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

North Jackson Company
Project: Eagle

Submittal: May 6, 2003 Samples

Submittal #: **36162-4**
Sampled: 05/06/03 @ 13:40
Sampler: P. Sabee
Received: 05/07/03 @ 08:55

Sample #: **330748**
Sample ID: **CR002**

Matrix: Surface Water

Parameter	Analytical Result	Quant. Limit	Unit	Analysis Date	Chem	Reference Citation
Arsenic, Total	<1.0	1.0	ug/L	05/14/03	DSC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	05/14/03	JMF	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	05/14/03	DSC	EPA-200.8/6020
Iron, Total	<20	20	ug/L	05/12/03	KLVM	EPA-200.7/6010B
Manganese, Total	<10	10	ug/L	05/14/03	DSC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	05/14/03	DSC	EPA-200.8/6020
Chloride	<1.0	1.0	mg/L	05/13/03	SAJ	325.2/4500-CL E
Nitrogen, Nitrate	<0.05	0.05	mg/L	05/07/03	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	05/07/03	HLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	05/08/03	GEH	350.1/4500 NH3G
Sulfate	<5.0	5.0	mg/L	05/14/03	JLB	375.2/4500 SO4F
Calcium, Dissolved	15	0.50	mg/L	05/13/03	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.51	0.50	mg/L	05/13/03	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	2.1	0.50	mg/L	05/13/03	KLVM	EPA-200.7/6010B
Sodium, Dissolved	0.50	0.50	mg/L	05/13/03	KLVM	EPA-200.7/6010B
Alkalinity, Bicarbonate	43	2.0	mg/L	05/08/03	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	05/08/03	VAS	310.1/SM 2320 B
Alkalinity, Total	43	2.0	mg/L	05/08/03	VAS	310.1/SM 2320 B
Hardness, (EDTA) as CaCO3	46	2.0	mg/L	05/09/03	VAS	130.2/SM 2340 C
BOD, (5-Day)	<1.0	1.0	mg/L	05/07/03	TAM	SDM 5210B
Chemical Oxygen Demand	<5.0	5.0	mg/L	05/08/03	JMJ	410.4/SM 5220 D
Color (Apparent)	10	5	A.C.U.	05/07/03	GEH	USEPA-110.2
Turbidity	<1.0	1.0	NTU	05/07/03	HLB	USEPA-180.1
Residue, Suspended	<3	3	mg/L	05/09/03	INR	160.2/SM 2540 D
Residue,Dissolved @ 180*C	66	50	mg/L	05/09/03	INR	160.1/SM 2540 C
Carbon, Total Organic	*<1.0	1.0	mg/L	05/09/03	GEH	EPA-415.1/9060

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

North Jackson Company
Project: Eagle

Submittal: May 6, 2003 Samples

Submittal #: **36162-4**
Sampled: 05/06/03 @ 13:40
Sampler: P. Sabee
Received: 05/07/03 @ 08:55

Sample #: **330749**
Sample ID: **M-1**

Matrix: Surface Water

Parameter	Analytical Result	Quant. Limit	Unit	Analysis Date	Chem	Reference Citation
Arsenic, Total	<1.0	1.0	ug/L	05/14/03	DSC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	05/14/03	JMF	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	05/14/03	DSC	EPA-200.8/6020
Iron, Total	<20	20	ug/L	05/12/03	KLVM	EPA-200.7/6010B
Manganese, Total	<10	10	ug/L	05/14/03	DSC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	05/14/03	DSC	EPA-200.8/6020
Chloride	<1.0	1.0	mg/L	05/13/03	SAJ	325.2/4500-CL E
Nitrogen, Nitrate	<0.05	0.05	mg/L	05/07/03	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	05/07/03	HLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	05/08/03	GEH	350.1/4500 NH3G
Sulfate	<5.0	5.0	mg/L	05/14/03	JLB	375.2/4500 SO4F
Calcium, Dissolved	16	0.50	mg/L	05/13/03	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.54	0.50	mg/L	05/13/03	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	2.1	0.50	mg/L	05/13/03	KLVM	EPA-200.7/6010B
Sodium, Dissolved	0.50	0.50	mg/L	05/13/03	KLVM	EPA-200.7/6010B
Alkalinity, Bicarbonate	40	2.0	mg/L	05/08/03	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	05/08/03	VAS	310.1/SM 2320 B
Alkalinity, Total	40	2.0	mg/L	05/08/03	VAS	310.1/SM 2320 B
Hardness, (EDTA) as CaCO3	58	2.0	mg/L	05/09/03	VAS	130.2/SM 2340 C
BOD, (5-Day)	<1.0	1.0	mg/L	05/07/03	TAM	SDM 5210B
Chemical Oxygen Demand	<5.0	5.0	mg/L	05/08/03	JMJ	410.4/SM 5220 D
Color (Apparent)	5	5	A.C.U.	05/07/03	GEH	USEPA-110.2
Turbidity	<1.0	1.0	NTU	05/07/03	HLB	USEPA-180.1
Residue, Suspended	<3	3	mg/L	05/09/03	INR	160.2/SM 2540 D
Residue,Dissolved @ 180*C	66	50	mg/L	05/09/03	INR	160.1/SM 2540 C
Carbon, Total Organic	*<1.0	1.0	mg/L	05/09/03	GEH	EPA-415.1/9060

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

North Jackson Company
Project: Eagle

Submittal: May 6, 2003 Samples

Sample #: **330750**
Sample ID: **STR001**

Matrix: Surface Water

Submittal #: **36162-4**
Sampled: 05/06/03 @ 15:30
Sampler: P. Sabee
Received: 05/07/03 @ 08:55

Parameter	Analytical Result	Quant. Limit	Unit	Analysis Date	Chem	Reference Citation
BOD, (5-Day)	6.1	1.0	mg/L	05/07/03	TAM	SDM 5210B

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

North Jackson Company
Project: Eagle

Submittal: May 6, 2003 Samples

Sample #: **330751**
Sample ID: **STR002**

Matrix: Surface Water

Submittal #: **36162-4**
Sampled: 05/06/03 @ 15:00
Sampler: P. Sabee
Received: 05/07/03 @ 08:55

Parameter	Analytical Result	Quant. Limit	Unit	Analysis Date	Chem	Reference Citation
BOD, (5-Day)	4.4	1.0	mg/L	05/07/03	TAM	SDM 5210B

End of Analytical Report

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Bicarbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/08/03	200436	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/08/03	200436	VAS	238	229	96	93-105

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Carbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/08/03	200436	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/08/03	200436	VAS	377	326	86	81-107

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Total**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/08/03	200436	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/08/03	200436	VAS	238	229	96	92-105

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/12/03	200544	KLVM	<100

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/14/03	200679	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/14/03	200679	DSC	40	42.5	106	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/14/03	84969	DSC	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/14/03	84969	DSC	25	26.6	106	87-120

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/14/03	200675	JMF	<5.0
05/14/03	200679	DSC	<5.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/14/03	200675	JMF	40	40.8	102	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/14/03	84969	JMF	<5.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/14/03	84969	JMF	25	26.7	107	86-119

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QUALITY CONTROL REPORT

Parameter: **BOD, (5-Day)**
Method: Biochemical Oxygen Demand SDM 5210B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/07/03	200629	TAM	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/07/03	200629	TAM	198	224	113	83-125

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QUALITY CONTROL REPORT

Parameter: **Carbon, Total Organic**
Method: Organic Carbon, Total
Units: mg/L

EPA-415.1/9060 WATER

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/08/03	200472	GEH	<0.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/08/03	200472	GEH	25	26	104	86-117

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QUALITY CONTROL REPORT

Parameter: **Chemical Oxygen Demand**
Method: Closed Reflux, Colorimetric Method 410.4/SM 5220 D WATER
Units: mg/L

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/08/03	85008	JMJ	<5.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/08/03	85008	JMJ	30	32	107	90-110

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QUALITY CONTROL REPORT

Parameter: **Chloride**
Method: Colorimetric, Automated Ferricyanide 325.2/4500-CL E WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/13/03	200570	SAJ	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/13/03	200570	SAJ	109	111	102	95-109

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QUALITY CONTROL REPORT

Parameter: **Color (Apparent)**
Method: Colorimetric, Platinum-Cobalt USEPA-110.2 WATER
Units: A.C.U.

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/07/03	200599	GEH	<5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/07/03	200599	GEH	25	25	100	80-120

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/12/03	200544	KLVM	<10

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/14/03	200679	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/14/03	200679	DSC	40	39.1	98	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/14/03	84969	DSC	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/14/03	84969	DSC	25	24.7	99	86-123

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QUALITY CONTROL REPORT

Parameter: **Hardness, (EDTA) as CaCO3**
Method: Hardness-Titrimetric, EDTA 130.2/SM 2340 C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/09/03	200459	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/09/03	200459	VAS	119	112	94	94-107

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QUALITY CONTROL REPORT

Parameter: **Iron, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/12/03	200544	KLVM	<20
05/13/03	200581	KLVM	<20

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/12/03	200544	KLVM	500	508	102	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/12/03	84964	KLVM	<20

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/12/03	84964	KLVM	250	243	97	83-118

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QUALITY CONTROL REPORT

Parameter: **Magnesium, Total**
Method: Atomic Emission-ICP
Units: mg/L

EPA-200.7/6010B WATER

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/12/03	200544	KLVM	<0.50
05/13/03	200581	KLVM	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/13/03	200581	KLVM	5.0	5.01	100	90-110

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/12/03	200544	KLVM	<10
05/13/03	200581	KLVM	<10

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/14/03	200675	JMF	<5.0
05/14/03	200679	DSC	<5.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/14/03	200679	DSC	40	42.9	107	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/14/03	84969	DSC	<5.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/14/03	84969	DSC	25	23.6	94	84-126

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/12/03	200544	KLVM	<10
05/13/03	200581	KLVM	<10

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/14/03	200679	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/14/03	200679	DSC	40	42.1	105	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/14/03	84969	DSC	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/14/03	84969	DSC	25	24.3	97	82-124

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Ammonia**
Method: Colorimetric, Automated Phenate 350.1/4500 NH3G WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/08/03	200416	GEH	<0.01

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/08/03	200416	GEH	0.7527	0.788	105	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrate**
Method: Colorimetric, Auto-Cadmium Reduction 353.2/4500 NO3F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/07/03	200586	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/07/03	200586	HLB	0.693	0.654	94	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrite**
Method: Colorimetric, Automated USEPA-353.2 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/07/03	200585	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/07/03	200585	HLB	0.50	0.51	102	90-110

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QUALITY CONTROL REPORT

Parameter: **Potassium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/12/03	200544	KLVM	<0.10
05/13/03	200581	KLVM	<0.10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/13/03	200581	KLVM	5.0	4.93	99	90-110

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QUALITY CONTROL REPORT

Parameter: **Residue,Dissolved @ 180*C**
Method: Residue-Gravimetric, Dried @ 180*C 160.1/SM 2540 C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/09/03	200654	INR	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/09/03	200654	INR	156.3	142	91	90-108

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QUALITY CONTROL REPORT

Parameter: **Residue, Suspended**
Method: Residue-Gravimetric, Dried @ 103-105*C 160.2/SM 2540 D WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/09/03	200554	INR	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/09/03	200554	INR	80.2	75	94	89-106

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QUALITY CONTROL REPORT

Parameter: **Sodium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/12/03	200544	KLVM	<0.50
05/13/03	200581	KLVM	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/13/03	200581	KLVM	5.0	4.94	99	90-110

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QUALITY CONTROL REPORT

Parameter: **Sulfate**
Method: Automated, Methylthymol Blue 375.2/4500 SO4F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/14/03	200690	JLB	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/14/03	200690	JLB	34.23	35.78	105	90-110

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QUALITY CONTROL REPORT

Parameter: **Turbidity**
Method: Nephelometric USEPA-180.1 WATER
Units: NTU

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/07/03	200596	HLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/07/03	200596	HLB	401	386	96	90-110

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Chain of Custody Record

COC No. 92045

Page 1 of 1

For Lab Use Only
Cart: 1
VOA Rack/Tray:
Receipt Log No.: 17-5
Project Chemist: JK
Laboratory Project No.: 30162.4

Client Name: North Jackson
Address: P.O. Box 30 420 Rail St
NEGAUNEE, MI 49866
Phone: 906 475 9882
Fax: 906 475 0238

Project Name: EAGLE
Client Project No. / P.O. No.:
Invoice To: ☐ Client ☒ Other (comments)
Contact/Report To: P SABEE

Analyses Requested

Extra Attached List

⇦ PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List) 3	4	6	11	15	Total	Sample Comments
				Number of Containers Submitted													
02	WS	330747	1	~~BHR001~~ CR001 PSS	TM0302	5-6-03 PSS	1345		X	Wtr	3	1	1	3	1	9	Attached List
1		330748	2	~~BHR002~~ CR002 PSS			1340		X		3	1	1	3	1		
1		330749	3	~~Duplicate~~ MW1			1340		X		3	1	1	3	1		
04		330750	4	STR001			1530		X		1					1	BOD *
1		330751	5	STR002			1500		X		1					1	BOD *
			6														
			7														
			8														
			9														
			10														

Sampled By (print): P. SABEE
Sampler's Signature: P Sabee
Company: NORTH JACKSON CO

How Shipped? Hand Carrier Fed Exp
Tracking No.: 5-6-03 1700

Comments: Please analyze STR001 + STR002 for SVOC parameters out of hold time in prev. shipment

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
						L. Peters	5/7/03	8:55

TriMatrixCOC -- COC

WHITE COPY - REPORT YELLOW COPY - LABORATORY PINK COPY - FIELD

TriMatrix
Laboratories, Inc.

July 14, 2003

North Jackson Company
Attn: Mr. Peter Sabee
420 Rail Street
Negaunee, MI 49866

RE: Eagle

Dear Mr. Peter Sabee:

Enclosed is a copy of your laboratory report and invoice for submittal **36162-5.** This submittal was completely received on June 26, 2003. All analyses have been validated and comply with our Quality Control program statistics unless otherwise noted.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosure

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36162- 5

STATEMENT OF DATA QUALIFICATIONS

Analysis: **Residue,Dissolved @ 180*C**
Residue-Gravimetric, Dried @ 180*C
WATER 160.1/SM 2540 C

Qualification:

The detection limit for this sample and corresponding analysis were elevated due to insufficient sample volume received.

Sample(s) Qualified:

335484	CR002	
335485	CR003	
335486	Field	**Blank**

Analysis: **Iron, Total**
Atomic Emission-ICP
WATER EPA-200.7/6010B

Qualification:

One of the matrix spike accuracies fell outside of the laboratory control limits, but the precision between the MS/MSD is within the control limit for this matrix and method. The corresponding sample result is not considered estimated.

Explanation for Sample(s) listed below:

Percent Recovery	Control Limits
96%	74- 121
130%	74- 121

Sample(s) Qualified: 334873 STR001

Note: This document is included as a part of the analytical report for the above referenced project and submittal, and should be retained as a permanent record thereof.

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Manganese, Total**
ICP Mass Spectrometry (ICP-MS)
WATER EPA-200.8/6020

Qualification:

Matrix QC results (SPK and MSD) for this sample, QC batch, matrix and analysis are unavailable due to high analyte concentrations resulting in a dilution of this sample and/or its extract.

Sample(s) Qualified: 334873 STR001

Analysis: **Carbon, Total Organic**
Organic Carbon, Total
WATER EPA-415.1/9060

Qualification:

The analytical requirements of the method require quadruplicate analysis on every sample submitted for TOC testing. The reporting requirements require both the average and the range of the four analysis be reported. The result reported is the average; the range of the replicates is:

Explanation for Sample(s) listed below:

0.00 - 0.00

Sample(s) Qualified: 335486 Field Blank

Explanation for Sample(s) listed below:

0.53 - 0.58

Sample(s) Qualified: 335485 CR003

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Carbon, Total Organic**
Organic Carbon, Total
WATER EPA-415.1/9060

Qualification:

The analytical requirements of the method require quadruplicate analysis on every sample submitted for TOC testing. The reporting requirements require both the average and the range of the four analysis be reported. The result reported is the average; the range of the replicates is:

Explanation for Sample(s) listed below:

0.58 - 0.77

Sample(s) Qualified: 335484 CR002

Explanation for Sample(s) listed below:

15.71 - 16.97

Sample(s) Qualified: 334873 STR001

Explanation for Sample(s) listed below:

8.62 - 8.86

Sample(s) Qualified: 334875 YDR001

Explanation for Sample(s) listed below:

8.68 - 8.91

Sample(s) Qualified: 334874 STR002

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Carbon, Total Organic**
Organic Carbon, Total
WATER EPA-415.1/9060

Qualification:

The analytical requirements of the method require quadruplicate analysis on every sample submitted for TOC testing. The reporting requirements require both the average and the range of the four analysis be reported. The result reported is the average; the range of the replicates is:

Explanation for Sample(s) listed below:

9.05 - 9.46

Sample(s) Qualified: 334876 YDR002

Page 4 - **End of Statement of Data Qualifications**

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36162- 5

CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

4.64

Sample(s) Narrated: 335486 Field Blank

Explanation for Sample(s) listed below:

7.50

Sample(s) Narrated: 335484 CR002

Explanation for Sample(s) listed below:

7.56

Sample(s) Narrated: 335485 CR003

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CASE NARRATIVE

Analysis: **BOD, (5-Day)**
Biochemical Oxygen Demand
WATER SDM 5210B

Narrative:

The reported Biochemical Oxygen Demand result for this sample was calculated on an oxygen depletion of <2.0 mg/l

Sample(s) Narrated:

334873	STR001
334874	STR002
334876	YDR002

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

North Jackson Company
Project: Eagle

Submittal: 06/19-25/03 Samples

Submittal #: **36162-5**
Sampled: 06/19/03 @ 00:00
Sampler: D.W.
Received: 06/20/03 @ 08:50

Sample #: **334873**
Sample ID: **STR001**

Matrix: Surface Water

Parameter	Analytical Result	Quant. Limit	Unit	Analysis Date	Chem	Reference Citation
Arsenic, Total	<1.0	1.0	ug/L	07/01/03	JAC	EPA-200.8/6020
Barium, Total	22	10	ug/L	07/01/03	JAC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	07/01/03	JAC	EPA-200.8/6020
Iron, Total	* 1530	20	ug/L	06/24/03	JMF	EPA-200.7/6010B
Manganese, Total	* 145	10	ug/L	07/01/03	JAC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	07/01/03	JAC	EPA-200.8/6020
Chloride	8.0	1.0	mg/L	06/23/03	SAJ	325.2/4500-CL E
Nitrogen, Nitrate	<0.05	0.05	mg/L	06/21/03	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	06/21/03	HLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	06/24/03	GEH	350.1/4500 NH3G
Sulfate	8.4	5.0	mg/L	06/24/03	JLB	375.2/4500 SO4F
Calcium, Dissolved	9.5	0.50	mg/L	06/24/03	JMF	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	06/24/03	JMF	EPA-200.7/6010B
Magnesium, Dissolved	2.2	0.50	mg/L	06/24/03	JMF	EPA-200.7/6010B
Sodium, Dissolved	0.80	0.50	mg/L	06/24/03	JMF	EPA-200.7/6010B
Alkalinity, Bicarbonate	38	2.0	mg/L	06/26/03	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	06/26/03	VAS	310.1/SM 2320 B
Alkalinity, Total	38	2.0	mg/L	06/26/03	VAS	310.1/SM 2320 B
Hardness, (EDTA) as CaCO3	34	2.0	mg/L	06/26/03	JMJ	130.2/SM 2340 C
BOD, (5-Day)	1.2	1.0	mg/L	06/20/03	TAM	SDM 5210B
Chemical Oxygen Demand	26	5.0	mg/L	06/26/03	JMJ	410.4/SM 5220 D
Color (Apparent)	250	50	A.C.U.	06/20/03	HLB	USEPA-110.2
Turbidity	2.0	1.0	NTU	06/20/03	HLB	USEPA-180.1
Residue, Suspended	<10	10	mg/L	06/23/03	INR	160.2/SM 2540 D
Residue,Dissolved @ 180*C	74	50	mg/L	06/23/03	INR	160.1/SM 2540 C
Carbon, Total Organic	* 16	1.0	mg/L	06/24/03	GEH	EPA-415.1/9060

* See attached Statement of Data Qualifications.

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TriMatrix
Laboratories, Inc.

ANALYTICAL REPORT

North Jackson Company
Project: Eagle

Submittal: 06/19-25/03 Samples

Submittal #: **36162-5**
Sampled: 06/19/03 @ 00:00
Sampler: D.W.
Received: 06/20/03 @ 08:50

Sample #: **334874**
Sample ID: **STR002**

Matrix: Surface Water

Parameter	Analytical Result	Quant. Limit	Unit	Analysis Date	Chem	Reference Citation
Arsenic, Total	<1.0	1.0	ug/L	07/01/03	JAC	EPA-200.8/6020
Barium, Total	12	10	ug/L	07/01/03	JAC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	07/01/03	JAC	EPA-200.8/6020
Iron, Total	650	20	ug/L	06/24/03	JMF	EPA-200.7/6010B
Manganese, Total	54	10	ug/L	07/01/03	JAC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	07/01/03	JAC	EPA-200.8/6020
Chloride	1.5	1.0	mg/L	06/23/03	SAJ	325.2/4500-CL E
Nitrogen, Nitrate	<0.05	0.05	mg/L	06/21/03	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	06/21/03	HLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	06/24/03	GEH	350.1/4500 NH3G
Sulfate	5.2	5.0	mg/L	06/24/03	JLB	375.2/4500 SO4F
Calcium, Dissolved	8.3	0.50	mg/L	06/24/03	JMF	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	06/24/03	JMF	EPA-200.7/6010B
Magnesium, Dissolved	1.7	0.50	mg/L	06/24/03	JMF	EPA-200.7/6010B
Sodium, Dissolved	0.83	0.50	mg/L	06/24/03	JMF	EPA-200.7/6010B
Alkalinity, Bicarbonate	32	2.0	mg/L	06/26/03	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	06/26/03	VAS	310.1/SM 2320 B
Alkalinity, Total	32	2.0	mg/L	06/26/03	VAS	310.1/SM 2320 B
Hardness, (EDTA) as CaCO3	28	2.0	mg/L	06/26/03	JMJ	130.2/SM 2340 C
BOD, (5-Day)	1.6	1.0	mg/L	06/20/03	TAM	SDM 5210B
Chemical Oxygen Demand	22	5.0	mg/L	07/07/03	JMJ	410.4/SM 5220 D
Color (Apparent)	125	25	A.C.U.	06/20/03	HLB	USEPA-110.2
Turbidity	1.6	1.0	NTU	06/20/03	HLB	USEPA-180.1
Residue, Suspended	<6	6	mg/L	06/23/03	INR	160.2/SM 2540 D
Residue,Dissolved @ 180*C	60	50	mg/L	06/23/03	INR	160.1/SM 2540 C
Carbon, Total Organic	* 8.8	1.0	mg/L	06/24/03	GEH	EPA-415.1/9060

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

North Jackson Company
Project: Eagle

Submittal: 06/19-25/03 Samples

Submittal #: **36162-5**
Sampled: 06/19/03 @ 00:00
Sampler: D.W.
Received: 06/20/03 @ 08:50

Sample #: **334875**
Sample ID: **YDR001**

Matrix: Surface Water

Parameter	Analytical Result	Quant. Limit	Unit	Analysis Date	Chem	Reference Citation
Arsenic, Total	<1.0	1.0	ug/L	07/01/03	JAC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	07/01/03	JAC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	07/01/03	JAC	EPA-200.8/6020
Iron, Total	710	20	ug/L	06/24/03	JMF	EPA-200.7/6010B
Manganese, Total	30	10	ug/L	07/01/03	JAC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	07/01/03	JAC	EPA-200.8/6020
Chloride	1.4	1.0	mg/L	06/23/03	SAJ	325.2/4500-CL E
Nitrogen, Nitrate	<0.05	0.05	mg/L	06/21/03	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	06/21/03	HLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	06/24/03	GEH	350.1/4500 NH3G
Sulfate	7.1	5.0	mg/L	06/24/03	JLB	375.2/4500 SO4F
Calcium, Dissolved	8.4	0.50	mg/L	06/24/03	JMF	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	06/24/03	JMF	EPA-200.7/6010B
Magnesium, Dissolved	1.8	0.50	mg/L	06/24/03	JMF	EPA-200.7/6010B
Sodium, Dissolved	0.91	0.50	mg/L	06/24/03	JMF	EPA-200.7/6010B
Alkalinity, Bicarbonate	30	2.0	mg/L	06/26/03	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	06/26/03	VAS	310.1/SM 2320 B
Alkalinity, Total	30	2.0	mg/L	06/26/03	VAS	310.1/SM 2320 B
Hardness, (EDTA) as CaCO3	32	2.0	mg/L	06/26/03	JMJ	130.2/SM 2340 C
BOD, (5-Day)	<1.0	1.0	mg/L	06/20/03	TAM	SDM 5210B
Chemical Oxygen Demand	24	5.0	mg/L	06/26/03	JMJ	410.4/SM 5220 D
Color (Apparent)	138	25	A.C.U.	06/20/03	HLB	USEPA-110.2
Turbidity	1.7	1.0	NTU	06/20/03	HLB	USEPA-180.1
Residue, Suspended	<3	3	mg/L	06/23/03	INR	160.2/SM 2540 D
Residue,Dissolved @ 180*C	60	50	mg/L	06/23/03	INR	160.1/SM 2540 C
Carbon, Total Organic	* 8.8	1.0	mg/L	06/24/03	GEH	EPA-415.1/9060

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

North Jackson Company
Project: Eagle

Submittal: 06/19-25/03 Samples

Submittal #: **36162-5**
Sampled: 06/19/03 @ 00:00
Sampler: D.W.
Received: 06/20/03 @ 08:50

Sample #: **334876**
Sample ID: **YDR002**

Matrix: Surface Water

Parameter	Analytical Result	Quant. Limit	Unit	Analysis Date	Chem	Reference Citation
Arsenic, Total	<1.0	1.0	ug/L	07/01/03	JAC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	07/01/03	JAC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	07/01/03	JAC	EPA-200.8/6020
Iron, Total	1030	20	ug/L	06/24/03	JMF	EPA-200.7/6010B
Manganese, Total	40	10	ug/L	07/01/03	JAC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	07/01/03	JAC	EPA-200.8/6020
Chloride	1.2	1.0	mg/L	06/23/03	SAJ	325.2/4500-CL E
Nitrogen, Nitrate	<0.05	0.05	mg/L	06/21/03	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	06/21/03	HLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	06/24/03	GEH	350.1/4500 NH3G
Sulfate	8.3	5.0	mg/L	06/24/03	JLB	375.2/4500 SO4F
Calcium, Dissolved	8.8	0.50	mg/L	06/24/03	JMF	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	06/24/03	JMF	EPA-200.7/6010B
Magnesium, Dissolved	1.9	0.50	mg/L	06/24/03	JMF	EPA-200.7/6010B
Sodium, Dissolved	0.96	0.50	mg/L	06/24/03	JMF	EPA-200.7/6010B
Alkalinity, Bicarbonate	30	2.0	mg/L	06/26/03	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	06/26/03	VAS	310.1/SM 2320 B
Alkalinity, Total	30	2.0	mg/L	06/26/03	VAS	310.1/SM 2320 B
Hardness, (EDTA) as CaCO3	30	2.0	mg/L	06/26/03	JMJ	130.2/SM 2340 C
BOD, (5-Day)	1.2	1.0	mg/L	06/20/03	TAM	SDM 5210B
Chemical Oxygen Demand	27	5.0	mg/L	06/26/03	JMJ	410.4/SM 5220 D
Color (Apparent)	112	25	A.C.U.	06/20/03	HLB	USEPA-110.2
Turbidity	4.8	1.0	NTU	06/20/03	HLB	USEPA-180.1
Residue, Suspended	<3	3	mg/L	06/23/03	INR	160.2/SM 2540 D
Residue,Dissolved @ 180*C	66	50	mg/L	06/23/03	INR	160.1/SM 2540 C
Carbon, Total Organic	* 9.3	1.0	mg/L	06/24/03	GEH	EPA-415.1/9060

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

North Jackson Company
Project: Eagle

Submittal: 06/19-25/03 Samples

Submittal #: **36162-5**
Sampled: 06/25/03 @ 13:50
Sampler: D.W.
Received: 06/26/03 @ 08:40

Sample #: **335484**
Sample ID: **CR002**

Matrix: Surface Water

Parameter	Analytical Result	Quant. Limit	Unit	Analysis Date	Chem	Reference Citation
Arsenic, Total	<1.0	1.0	ug/L	07/03/03	JMF	EPA-200.8/6020
Barium, Total	<10	10	ug/L	07/03/03	JMF	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	07/03/03	JMF	EPA-200.8/6020
Iron, Total	44	20	ug/L	07/01/03	JMF	EPA-200.7/6010B
Manganese, Total	<10	10	ug/L	07/03/03	JMF	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	07/03/03	JMF	EPA-200.8/6020
Chloride	<1.0	1.0	mg/L	06/30/03	SAJ	325.2/4500-CL E
Nitrogen, Nitrate	<0.05	0.05	mg/L	06/26/03	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	06/26/03	HLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	07/01/03	GEH	350.1/4500 NH3G
Sulfate	<5.0	5.0	mg/L	07/02/03	JLB	USEPA-375.4
Calcium, Dissolved	15	0.50	mg/L	07/09/03	JMF	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	07/09/03	JMF	EPA-200.7/6010B
Magnesium, Dissolved	2.1	0.50	mg/L	07/09/03	JMF	EPA-200.7/6010B
Sodium, Dissolved	0.71	0.50	mg/L	07/09/03	JMF	EPA-200.7/6010B
Alkalinity, Bicarbonate	48	2.0	mg/L	07/02/03	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	07/02/03	VAS	310.1/SM 2320 B
Alkalinity, Total	48	2.0	mg/L	07/02/03	VAS	310.1/SM 2320 B
Hardness, (EDTA) as CaCO3	46	2.0	mg/L	07/02/03	JMJ	130.2/SM 2340 C
BOD, (5-Day)	<1.0	1.0	mg/L	06/26/03	TAM	SDM 5210B
Chemical Oxygen Demand	<5.0	5.0	mg/L	06/27/03	JMJ	410.4/SM 5220 D
Color (Apparent)	5	5	A.C.U.	06/26/03	GEH	USEPA-110.2
Turbidity	<1.0	1.0	NTU	06/27/03	HLB	USEPA-180.1
Residue, Suspended	4	3	mg/L	06/27/03	INR	160.2/SM 2540 D
Residue,Dissolved @ 180*C	*<25	25	mg/L	06/27/03	INR	160.1/SM 2540 C
Carbon, Total Organic	*<1.0	1.0	mg/L	06/27/03	GEH	EPA-415.1/9060

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

North Jackson Company
Project: Eagle

Submittal: 06/19-25/03 Samples

Submittal #: **36162-5**
Sampled: 06/25/03 @ 12:45
Sampler: D.W.
Received: 06/26/03 @ 08:40

Sample #: **335485**
Sample ID: **CR003**

Matrix: Surface Water

Parameter	Analytical Result	Quant. Limit	Unit	Analysis Date	Chem	Reference Citation
Arsenic, Total	<1.0	1.0	ug/L	07/03/03	JMF	EPA-200.8/6020
Barium, Total	<10	10	ug/L	07/03/03	JMF	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	07/03/03	JMF	EPA-200.8/6020
Iron, Total	100	20	ug/L	07/01/03	JMF	EPA-200.7/6010B
Manganese, Total	<10	10	ug/L	07/03/03	JMF	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	07/03/03	JMF	EPA-200.8/6020
Chloride	<1.0	1.0	mg/L	06/30/03	SAJ	325.2/4500-CL E
Nitrogen, Nitrate	0.10	0.05	mg/L	06/26/03	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	06/26/03	HLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	07/01/03	GEH	350.1/4500 NH3G
Sulfate	<5.0	5.0	mg/L	07/02/03	JLB	USEPA-375.4
Calcium, Dissolved	16	0.50	mg/L	07/09/03	JMF	EPA-200.7/6010B
Potassium, Dissolved	0.53	0.50	mg/L	07/09/03	JMF	EPA-200.7/6010B
Magnesium, Dissolved	2.3	0.50	mg/L	07/09/03	JMF	EPA-200.7/6010B
Sodium, Dissolved	0.77	0.50	mg/L	07/09/03	JMF	EPA-200.7/6010B
Alkalinity, Bicarbonate	56	2.0	mg/L	07/02/03	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	07/02/03	VAS	310.1/SM 2320 B
Alkalinity, Total	56	2.0	mg/L	07/02/03	VAS	310.1/SM 2320 B
Hardness, (EDTA) as CaCO3	50	2.0	mg/L	07/02/03	JMJ	130.2/SM 2340 C
BOD, (5-Day)	<1.0	1.0	mg/L	06/26/03	TAM	SDM 5210B
Chemical Oxygen Demand	<5.0	5.0	mg/L	06/27/03	JMJ	410.4/SM 5220 D
Color (Apparent)	10	5	A.C.U.	06/26/03	GEH	USEPA-110.2
Turbidity	2.5	1.0	NTU	06/27/03	HLB	USEPA-180.1
Residue, Suspended	4	3	mg/L	06/27/03	INR	160.2/SM 2540 D
Residue,Dissolved @ 180*C	*<25	25	mg/L	06/27/03	INR	160.1/SM 2540 C
Carbon, Total Organic	*<1.0	1.0	mg/L	06/27/03	GEH	EPA-415.1/9060

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

North Jackson Company
Project: Eagle

Submittal: 06/19-25/03 Samples

Submittal #: **36162-5**
Sampled: 06/25/03 @ 14:25
Sampler: D.W.
Received: 06/26/03 @ 08:40

Sample #: **335486**
Sample ID: **Field Blank**

Matrix: QC Water

Parameter	Analytical Result	Quant. Limit	Unit	Analysis Date	Chem	Reference Citation
Arsenic, Total	<1.0	1.0	ug/L	07/03/03	JMF	EPA-200.8/6020
Barium, Total	<10	10	ug/L	07/03/03	JMF	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	07/03/03	JMF	EPA-200.8/6020
Iron, Total	<20	20	ug/L	07/01/03	JMF	EPA-200.7/6010B
Manganese, Total	<10	10	ug/L	07/03/03	JMF	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	07/03/03	JMF	EPA-200.8/6020
Chloride	<1.0	1.0	mg/L	06/30/03	SAJ	325.2/4500-CL E
Nitrogen, Nitrate	<0.05	0.05	mg/L	06/26/03	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	06/26/03	HLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	07/01/03	GEH	350.1/4500 NH3G
Sulfate	<5.0	5.0	mg/L	07/02/03	JLB	USEPA-375.4
Calcium, Dissolved	<0.50	0.50	mg/L	07/09/03	JMF	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	07/09/03	JMF	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	07/09/03	JMF	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	07/09/03	JMF	EPA-200.7/6010B
Alkalinity, Bicarbonate	<2.0	2.0	mg/L	07/02/03	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	07/02/03	VAS	310.1/SM 2320 B
Alkalinity, Total	<2.0	2.0	mg/L	07/02/03	VAS	310.1/SM 2320 B
Hardness, (EDTA) as CaCO3	<2.0	2.0	mg/L	07/02/03	JMJ	130.2/SM 2340 C
BOD, (5-Day)	<1.0	1.0	mg/L	06/26/03	TAM	SDM 5210B
Chemical Oxygen Demand	<5.0	5.0	mg/L	06/27/03	JMJ	410.4/SM 5220 D
Color (Apparent)	<5	5	A.C.U.	06/26/03	GEH	USEPA-110.2
Turbidity	<1.0	1.0	NTU	06/27/03	HLB	USEPA-180.1
Residue, Suspended	<3	3	mg/L	06/27/03	INR	160.2/SM 2540 D
Residue,Dissolved @ 180*C	*<25	25	mg/L	06/27/03	INR	160.1/SM 2540 C
Carbon, Total Organic	*<1.0	1.0	mg/L	06/27/03	GEH	EPA-415.1/9060

* See attached Statement of Data Qualifications.

End of Analytical Report

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Bicarbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
06/26/03	202653	VAS	<1.0
07/02/03	202865	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
06/26/03	202653	VAS	238	243	102	93-105
07/02/03	202865	VAS	238	239	100	93-105

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Carbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
06/26/03	202653	VAS	<1.0
07/02/03	202865	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
06/26/03	202653	VAS	377	359	95	81-107
07/02/03	202865	VAS	377	360	95	81-107

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Total**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
06/26/03	202653	VAS	<2.0
07/02/03	202865	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
06/26/03	202653	VAS	238	243	102	92-105
07/02/03	202865	VAS	238	239	100	92-105

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/01/03	202856	JAC	<1.0
07/03/03	202950	JMF	**1.0**

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/01/03	202856	JAC	40	38.6	97	90-110
07/03/03	202950	JMF	40	39.1	98	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
07/01/03	86612	JAC	<1.0
07/03/03	86583	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/01/03	86612	JAC	25	26.0	104	87-120
07/03/03	86583	JMF	25	23.8	95	87-120

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/01/03	202807	JMF	<10

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/01/03	202856	JAC	<1.0
07/03/03	202950	JMF	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/01/03	202856	JAC	40	39.6	99	90-110
07/03/03	202950	JMF	40	39.5	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
07/01/03	86612	JAC	<10
07/03/03	86583	JMF	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/01/03	86612	JAC	25	26.2	105	86-119
07/03/03	86583	JMF	25	23.6	94	86-119

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QUALITY CONTROL REPORT

Parameter: **BOD, (5-Day)**
Method: Biochemical Oxygen Demand SDM 5210B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
06/20/03	202621	TAM	<1.0
06/26/03	202827	TAM	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
06/20/03	202621	TAM	198	214	108	83-125
06/26/03	202827	TAM	198	217	110	83-125

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QUALITY CONTROL REPORT

Parameter: **Carbon, Total Organic**
Method: Organic Carbon, Total EPA-415.1/9060 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
06/23/03	202644	GEH	<0.5
06/27/03	202707	GEH	<0.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
06/23/03	202644	GEH	25	24	96	86-117
06/27/03	202707	GEH	25	25	100	86-117

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QUALITY CONTROL REPORT

Parameter: **Chemical Oxygen Demand**
Method: Closed Reflux, Colorimetric Method 410.4/SM 5220 D WATER
Units: mg/L

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
06/26/03	86445	JMJ	<5.0
06/27/03	86517	JMJ	<5.0
07/07/03	86711	JMJ	<5.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
06/26/03	86445	JMJ	30	30	100	90-110
06/27/03	86517	JMJ	30	31	103	90-110
07/07/03	86711	JMJ	30	31	103	90-110

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QUALITY CONTROL REPORT

Parameter: **Chloride**
Method: Colorimetric, Automated Ferricyanide 325.2/4500-CL E WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
06/23/03	202404	SAJ	<1.0
06/30/03	202688	SAJ	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
06/23/03	202404	SAJ	109	110	101	95-109
06/30/03	202688	SAJ	109	112	103	95-109

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QUALITY CONTROL REPORT

Parameter: **Color (Apparent)**
Method: Colorimetric, Platinum-Cobalt USEPA-110.2 **WATER**
Units: A.C.U.

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
06/20/03	202654	HLB	<5
06/26/03	202715	GEH	<5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
06/20/03	202654	HLB	25	25	100	80-120
06/26/03	202715	GEH	25	25	100	80-120

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/01/03	202856	JAC	<1.0
07/03/03	202950	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/01/03	202856	JAC	40	39.0	98	90-110
07/03/03	202950	JMF	40	39.8	100	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
07/01/03	86612	JAC	<1.0
07/03/03	86583	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/01/03	86612	JAC	25	27.4	110	86-123
07/03/03	86583	JMF	25	24.8	99	86-123

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QUALITY CONTROL REPORT

Parameter: **Hardness, (EDTA) as CaCO3**
Method: Hardness-Titrimetric, EDTA 130.2/SM 2340 C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
06/26/03	202671	JMJ	<2.0
07/02/03	202837	JMJ	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
06/26/03	202671	JMJ	119	126	106	94-107
07/02/03	202837	JMJ	119	126	106	94-107

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QUALITY CONTROL REPORT

Parameter: **Iron, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
06/24/03	202510	JMF	<20
07/01/03	202807	JMF	<20

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
06/24/03	202510	JMF	500	505	101	90-110
07/01/03	202807	JMF	500	516	103	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
06/24/03	86363	JMF	<20
07/01/03	86400	JMF	<20

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
06/24/03	86363	JMF	250	248	99	83-118
07/01/03	86400	JMF	250	249	100	83-118

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QUALITY CONTROL REPORT

Parameter: **Magnesium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
06/24/03	202510	JMF	<0.50
07/01/03	202807	JMF	<0.50
07/09/03	203136	JMF	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
06/24/03	202510	JMF	5.0	4.95	99	90-110
07/09/03	203136	JMF	5.0	5.03	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
06/24/03	86363	JMF	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
06/24/03	86363	JMF	12.5	12.5	100	87-115

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/01/03	202807	JMF	<10

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/01/03	202856	JAC	<10
07/03/03	202950	JMF	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/01/03	202856	JAC	40	39.3	98	90-110
07/03/03	202950	JMF	40	43.6	109	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
07/01/03	86612	JAC	<10
07/03/03	86583	JMF	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/01/03	86612	JAC	25	27.5	110	84-126
07/03/03	86583	JMF	25	27.0	108	84-126

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/01/03	202807	JMF	<10

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/01/03	202856	JAC	<1.0
07/03/03	202950	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/01/03	202856	JAC	40	39.2	98	90-110
07/03/03	202950	JMF	40	38.3	96	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
07/01/03	86612	JAC	<1.0
07/03/03	86583	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/01/03	86612	JAC	25	27.0	108	82-124
07/03/03	86583	JMF	25	23.8	95	82-124

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Ammonia**
Method: Colorimetric, Automated Phenate 350.1/4500 NH3G WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
06/24/03	202546	GEH	<0.01
07/01/03	202826	GEH	<0.01

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
06/24/03	202546	GEH	1.25	1.26	101	90-110
07/01/03	202826	GEH	1.25	1.27	102	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrate**
Method: Colorimetric, Auto-Cadmium Reduction 353.2/4500 NO3F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
06/21/03	202515	HLB	<0.05
06/26/03	203034	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
06/21/03	202515	HLB	0.693	0.678	98	90-110
06/26/03	203034	HLB	0.693	0.687	99	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrite**
Method: Colorimetric, Automated USEPA-353.2 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
06/21/03	202520	HLB	<0.05
06/26/03	203040	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
06/21/03	202520	HLB	0.50	0.50	100	90-110
06/26/03	203040	HLB	0.50	0.51	102	90-110

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QUALITY CONTROL REPORT

Parameter: **Potassium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
06/24/03	202510	JMF	<0.50
07/09/03	203136	JMF	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
06/24/03	202510	JMF	5.0	4.95	99	90-110
07/09/03	203136	JMF	5.0	4.60	92	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
06/24/03	86363	JMF	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
06/24/03	86363	JMF	12.5	12.6	101	87-125

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QUALITY CONTROL REPORT

Parameter: **Residue,Dissolved @ 180*C**
Method: Residue-Gravimetric, Dried @ 180*C 160.1/SM 2540 C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
06/23/03	202646	INR	<2.5
06/27/03	202834	INR	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
06/23/03	202646	INR	527.8	544	103	90-108
06/27/03	202834	INR	527.8	519	98	90-108

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QUALITY CONTROL REPORT

Parameter: **Residue, Suspended**
Method: Residue-Gravimetric, Dried @ 103-105*C 160.2/SM 2540 D WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
06/23/03	202650	INR	<2.5
06/27/03	202794	INR	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
06/23/03	202650	INR	44.9	45	100	89-106
06/27/03	202794	INR	44.9	45	100	89-106

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QUALITY CONTROL REPORT

Parameter: **Sodium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
06/24/03	202510	JMF	<0.50
07/01/03	202807	JMF	<0.50
07/09/03	203136	JMF	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
06/24/03	202510	JMF	5.0	4.96	99	90-110
07/09/03	203136	JMF	5.0	4.67	93	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
06/24/03	86363	JMF	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
06/24/03	86363	JMF	12.5	12.4	99	86-117

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QUALITY CONTROL REPORT

Parameter: **Sulfate**
Method: Automated, Methylthymol Blue 375.2/4500 SO4F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
06/24/03	202522	JLB	<5.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
06/24/03	202522	JLB	34.23	35.80	105	90-110

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QUALITY CONTROL REPORT

Parameter: **Sulfate**
Method: Turbidimetric Method (Manual) USEPA-375.4 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/02/03	202822	JLB	<5.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/02/03	202822	**JLB**	34.23	34.38	100	85-113

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QUALITY CONTROL REPORT

Parameter: **Turbidity**
Method: Nephelometric USEPA-180.1 WATER
Units: NTU

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
06/20/03	202657	HLB	<1.0
06/27/03	202793	HLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
06/20/03	202657	HLB	401	384	96	90-110
06/27/03	202793	HLB	401	382	95	90-110

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Brooks Rand Ltd. Chain of Custody Record

TM0360 Cart 5 361625

Page ___ of ___

Client: North Jackson Co.	e-mail address: dan@northjacksoncom	Ship to: ~~Brooks Rand Ltd.~~ Trimatrix
Contact: Dan Wittala	PO #:	~~3950 6th Avenue NW~~ 5560 Corp. Rd.
Address: 420 Rail St. Negaunee MI 49866	Sampler's signatures: Dan Wittala	~~Seattle, WA 98107~~ G.R.
		~~206.632.6206~~ 49512
Phone #: 906.475.7865	Client project ID: Eagle Kennecott	~~206.632.6017~~ fax
Fax #: .0238	BRL project ID: ~~ALT001~~	e-mail: brl@brooksrand.com
		www.brooksrand.com

For BRL use only	Cooler temp (°C):	Custody seals present? (Y/N)	Custody seals intact? (Y/N)	Date:	Initials:

	Sample ID	Collection: Date	Collection: Time	Misc: Sampler (initials)	Misc: Matrix type	Misc: # of containers	Misc: Sample field filtered, Y/N	Field Preservation: Unpreserved (ice only)	Field Preservation: HNO_3 (1 ml Hered)	Field Preservation: ~~HCl~~ H_2SO_4 (40 ml)	Field Preservation: BrCl H_2SO_4	Field Preservation: Other (specify)	Analyses required	Comments
	WS													Same analyses as Samples Sent 6-19-03 Call w/ questions.
1	CR002							3	2	3	1		02 1 3354841	
2	CR003							3	2	3	1		3354845	
3	Field Blank WQ							3	2	3	1		3354846	
4														
5														
6														
7														
8														
9														
10														

Shipping carrier: Fed Ex # of coolers:

Relinquished by:	Date:	Time:	Received by: KSB	Date: 6/26/03	Time: 5:40
Relinquished by:	Date:	Time:	Received at BRL:	Date:	Time:

White: LAB COPY **Yellow: CUSTOMER COPY**

49-5

TriMatrix Laboratories, Inc.

5560 Corporate Exchange Court SE Grand Rapids, MI 49512
Phone (616) 975-4500 Fax (616) 942-7463
www.trimatrixlabs.com

Chain of Custody Record

COC No. 90340

Page 1 of 1

For Lab Use Only

Cart: 5
VOA Rack/Tray:
Receipt Log No.: 39-2
Project Chemist: JLC
Laboratory Project No.: 36162-5

Client Name: North Jackson Co.
Address: P.O. Box 30
425 Rail St.
Negaunee, MI 49866
Phone: 906-475-9865
Fax: 906-475-0238

Project Name: EAGLE
Client Project No. / P.O. No.:
Invoice To: ☐ Client ☑ Other (comments)
Contact/Report To: D. Wiitala

Analyses Requested

A	B	B	C	C
Filtered	500ml	40ml		

⇦ PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

	Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List)	Number of Containers Submitted	Total	Sample Comments
											3 6 15 4 11			
1	02	WS	334873	STR001	1	6/19	1		X			3 1 1 1 3	9	*See below
2			334874	STR002					X			3 1 1 1 3	9	
3			334875	YDR001					X			3 1 1 1 3	9	
4			334876	YDR002					X			3 1 1 1 3	9	
5				~~CR001~~					X			3 1 1 1 3	9	
6				~~CR002~~					X			3 1 1 1 3	9	
7				~~Field Blank~~					X			3 1 1 1 3	9	
8														
9														
10														

Sampled By (print): Don Wiitala
Sampler's Signature: Don Wiitala
Company: North Jackson Co.

How Shipped? Hand Carrier Fed Exp
Tracking No. 2908 1530 5355

Comments: Bill to Kennecott Canada
Parameters: Same as April/May Eagle Samples
Call Don Wiitala @ 906.475.9865 w/questions

	1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
	Don Wiitala	6-19-03	18:00						
	1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
							Tom Pekol	6/20/03	8:50

TriMatrixCOC -- COC

WHITE COPY - REPORT YELLOW COPY - LABORATORY PINK COPY - FIELD

September 1, 2003

North Jackson Company
Attn: Mr. Peter Sabee
420 Rail Street
Negaunee, MI 49866

RE: Eagle
Submittal Number: 36162-6

Dear Mr. Peter Sabee:

Enclosed is a copy of your laboratory report for test samples received by our laboratory on August 17, 2003.

Please note that the test results of the enclosed analyses relate only to the sample(s) as received at the laboratory, and are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC) standards. Qualification of test standards, including sample acceptance requirements, are presented within the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosure(s)

The total number of pages in this report, including this page, is 46.

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Individual sample results relate only to the sample tested.

STATEMENT OF DATA QUALIFICATIONS

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Qualification:

Analysis performed beyond established USEPA maximum allowable parameter hold time. All positive results must be considered estimated, and all non-detectable results must be considered approximate.

Explanation for Sample(s) listed below:

Sample received after EPA established hold time expired.

Sample(s) Qualified:		
	340187	CR002
	340188	CR004
	340189	Duplicate

Analysis: **Turbidity**
Nephelometric
WATER USEPA-180.1

Qualification:

Analysis performed beyond established USEPA maximum allowable parameter hold time. All positive results must be considered estimated, and all non-detectable results must be considered approximate.

Explanation for Sample(s) listed below:

Sample received after EPA established hold time expired.

Sample(s) Qualified:		
	340187	CR002
	340188	CR004
	340189	Duplicate

Note: This document is included as a part of the analytical report for the above referenced project and submittal, and should be retained as a permanent record thereof.

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Iron, Total**
Atomic Emission-ICP
WATER EPA-200.7/6010B

Qualification:

One of the matrix spike accuracies fell outside of the laboratory control limits, but the precision between the MS/MSD is within the control limit for this matrix and method. The corresponding sample result is not considered estimated.

Explanation for Sample(s) listed below:

Percent Recovery	Control Limits
110%	74- 121
124%	74- 121

Sample(s) Qualified: 339930 YDR002

Analysis: **BOD, (5-Day)**
Biochemical Oxygen Demand
WATER SDM 5210B

Qualification:

Analysis performed beyond established USEPA maximum allowable parameter hold time. All positive results must be considered estimated, and all non-detectable results must be considered approximate.

Explanation for Sample(s) listed below:

Sample was received with insufficient time to complete analysis within hold.

Sample(s) Qualified:

340187	CR002
340188	CR004
340189	Duplicate

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Carbon, Total Organic**
Organic Carbon, Total
WATER 4151/5310D/9060

Qualification:

The analytical requirements of the method require quadruplicate analysis on every sample submitted for TOC testing. The reporting requirements require both the average and the range of the four analysis be reported. The result reported is the average; the range of the replicates is:

Explanation for Sample(s) listed below:

0.32 - 0.45

Sample(s) Qualified: 340187 CR002

Explanation for Sample(s) listed below:

0.37 - 0.44

Sample(s) Qualified: 340189 Duplicate

Explanation for Sample(s) listed below:

12.24 - 12.72

Sample(s) Qualified: 339927 STR001

Explanation for Sample(s) listed below:

3.20 - 3.31

Sample(s) Qualified: 340188 CR004

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Carbon, Total Organic**
Organic Carbon, Total
WATER 4151/5310D/9060

Qualification:

The analytical requirements of the method require quadruplicate analysis on every sample submitted for TOC testing. The reporting requirements require both the average and the range of the four analysis be reported. The result reported is the average; the range of the replicates is:

Explanation for Sample(s) listed below:

6.59 - 6.74

Sample(s) Qualified: 339929 YDR001

Explanation for Sample(s) listed below:

6.94 - 7.17

Sample(s) Qualified: 339930 YDR002

Explanation for Sample(s) listed below:

8.23 - 8.40

Sample(s) Qualified: 339928 STR002

Page 4 - **End of Statement of Data Qualifications**

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Individual sample results relate only to the sample tested.

CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

5.64

Sample(s) Narrated: 339927 STR001

Explanation for Sample(s) listed below:

5.83

Sample(s) Narrated: 339928 STR002

Explanation for Sample(s) listed below:

5.96

Sample(s) Narrated: 339930 YDR002

Explanation for Sample(s) listed below:

5.99

Sample(s) Narrated: 339929 YDR001

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CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

7.75

Sample(s) Narrated: 340187 CR002

Explanation for Sample(s) listed below:

7.89

Sample(s) Narrated: 340189 Duplicate

Explanation for Sample(s) listed below:

7.93

Sample(s) Narrated: 340188 CR004

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CASE NARRATIVE

Analysis: **Nickel, Total**
ICP Mass Spectrometry (ICP-MS)
WATER EPA-200.8/6020

Narrative:

The quantitated values of the isotopes monitored for this analyte exceeded a difference of 25%. The lower of the two values has been reported.

Sample(s) Narrated: 340188 **CR004**

Analysis: **BOD, (5-Day)**
Biochemical Oxygen Demand
WATER SDM 5210B

Narrative:

The reported Biochemical Oxygen Demand result for this sample was calculated on an oxygen depletion of <2.0 mg/l

Sample(s) Narrated: 339927 STR001
340188 CR004

Analysis: Nitrogen, Nitrate
Colorimetric, Auto-Cadmium Reduction
WATER 353.2/4500 NO3F

Narrative:
Sample was analyzed from a H2SO4 preserved sample. The NO3+NO2 result was <0.05 mg/L, therefore the Nitrogen Nitrate result is <0.05 mg/L.

Sample(s) Narrated: 340187 CR002
340188 CR004
340189 Duplicate

Analysis: Nitrogen, Nitrite
Colorimetric, Automated
WATER USEPA-353.2

Narrative:
Sample was analyzed from a H2SO4 preserved sample. The NO3+NO2 result was <0.05 mg/L, therefore the Nitrogen Nitrite result is <0.05 mg/L.

Sample(s) Narrated: 340187 CR002
340188 CR004
340189 Duplicate

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/13/03 @ 13:00
Sampler: D.W.
Received: 08/14/03 @ 09:15

Submittal #: **36162-6**
Submittal: August 2003 Samples

Sample ID: **STR001**
Sample #: 339927
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Chloride	1.4	1.0	mg/L	08/21/03	JLB	325.2/4500-CL E
Nitrogen, Nitrate	<0.05	0.05	mg/L	08/15/03	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	08/15/03	HLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	08/19/03	GEH	350.1/4500 NH3G
Sulfate	<5.0	5.0	mg/L	08/21/03	JLB	USEPA-375.4
Alkalinity, Bicarbonate	37	2.0	mg/L	08/21/03	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	08/21/03	VAS	310.1/SM 2320 B
Alkalinity, Total	37	2.0	mg/L	08/21/03	VAS	310.1/SM 2320 B
Hardness, (EDTA) as CaCO3	32	2.0	mg/L	08/22/03	JMJ	130.2/SM 2340 C
BOD, (5-Day)	1.7	1.0	mg/L	08/14/03	TAM	SDM 5210B
Chemical Oxygen Demand	32	5.0	mg/L	08/18/03	JMJ	410.4/SM 5220 D
Color (Apparent)	200	50	A.C.U.	08/15/03	GEH	USEPA-110.2
Turbidity	6.7	1.0	NTU	08/15/03	HLB	USEPA-180.1
Residue, Suspended	<10	10	mg/L	08/18/03	JMJ	160.2/SM 2540 D
Residue,Dissolved @ 180*C	64	50	mg/L	08/18/03	JMJ	160.1/SM 2540 C
* Carbon, Total Organic	12	1.0	mg/L	08/18/03	GEH	4151/5310D/9060
Arsenic, Total	<1.0	1.0	ug/L	08/27/03	JMF	EPA-200.8/6020
Barium, Total	21	10	ug/L	08/26/03	KLVM	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	08/26/03	KLVM	EPA-200.8/6020
Iron, Total	3120	20	ug/L	08/21/03	DWJ	EPA-200.7/6010B
Manganese, Total	199	10	ug/L	08/26/03	KLVM	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	08/27/03	JMF	EPA-200.8/6020
Calcium, Dissolved	9.5	0.50	mg/L	08/21/03	DWJ	EPA-200.7/6010B
Potassium, Dissolved	0.51	0.50	mg/L	08/21/03	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	2.1	0.50	mg/L	08/21/03	DWJ	EPA-200.7/6010B
Sodium, Dissolved	0.63	0.50	mg/L	08/21/03	DWJ	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/13/03 @ 14:00
Sampler: D.W.
Received: 08/14/03 @ 09:15

Submittal #: **36162-6**
Submittal: August 2003 Samples

Sample ID: **STR002**
Sample #: 339928
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Chloride	1.3	1.0	mg/L	08/21/03	JLB	325.2/4500-CL E
	Nitrogen, Nitrate	<0.05	0.05	mg/L	08/15/03	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	08/15/03	HLB	USEPA-353.2
	Nitrogen, Ammonia	<0.05	0.05	mg/L	08/19/03	GEH	350.1/4500 NH3G
	Sulfate	<5.0	5.0	mg/L	08/21/03	JLB	USEPA-375.4
	Alkalinity, Bicarbonate	33	2.0	mg/L	08/21/03	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	08/21/03	VAS	310.1/SM 2320 B
	Alkalinity, Total	33	2.0	mg/L	08/21/03	VAS	310.1/SM 2320 B
	Hardness, (EDTA) as CaCO3	14	2.0	mg/L	08/22/03	JMJ	130.2/SM 2340 C
	BOD, (5-Day)	<1.0	1.0	mg/L	08/14/03	TAM	SDM 5210B
	Chemical Oxygen Demand	22	5.0	mg/L	08/18/03	JMJ	410.4/SM 5220 D
	Color (Apparent)	100	25	A.C.U.	08/15/03	GEH	USEPA-110.2
	Turbidity	1.5	1.0	NTU	08/15/03	HLB	USEPA-180.1
	Residue, Suspended	<3	3	mg/L	08/18/03	JMJ	160.2/SM 2540 D
	Residue,Dissolved @ 180*C	60	50	mg/L	08/18/03	JMJ	160.1/SM 2540 C
*	Carbon, Total Organic	8.3	1.0	mg/L	08/18/03	GEH	4151/5310D/9060
	Arsenic, Total	<1.0	1.0	ug/L	08/27/03	JMF	EPA-200.8/6020
	Barium, Total	11	10	ug/L	08/26/03	KLVM	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	08/26/03	KLVM	EPA-200.8/6020
	Iron, Total	580	20	ug/L	08/21/03	DWJ	EPA-200.7/6010B
	Manganese, Total	21	10	ug/L	08/26/03	KLVM	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	08/27/03	JMF	EPA-200.8/6020
	Calcium, Dissolved	8.9	0.50	mg/L	08/21/03	DWJ	EPA-200.7/6010B
	Potassium, Dissolved	<0.50	0.50	mg/L	08/21/03	DWJ	EPA-200.7/6010B
	Magnesium, Dissolved	1.9	0.50	mg/L	08/21/03	DWJ	EPA-200.7/6010B
	Sodium, Dissolved	0.74	0.50	mg/L	08/21/03	DWJ	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/13/03 @ 10:15
Sampler: D.W.
Received: 08/14/03 @ 09:15

Submittal #: **36162-6**
Submittal: August 2003 Samples

Sample ID: **YDR001**
Sample #: **339929**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Chloride	1.2	1.0	mg/L	08/21/03	JLB	325.2/4500-CL E
Nitrogen, Nitrate	<0.05	0.05	mg/L	08/15/03	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	08/15/03	HLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	08/19/03	GEH	350.1/4500 NH3G
Sulfate	<5.0	5.0	mg/L	08/21/03	JLB	USEPA-375.4
Alkalinity, Bicarbonate	35	2.0	mg/L	08/21/03	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	08/21/03	VAS	310.1/SM 2320 B
Alkalinity, Total	35	2.0	mg/L	08/21/03	VAS	310.1/SM 2320 B
Hardness, (EDTA) as CaCO3	36	2.0	mg/L	08/22/03	JMJ	130.2/SM 2340 C
BOD, (5-Day)	<1.0	1.0	mg/L	08/14/03	TAM	SDM 5210B
Chemical Oxygen Demand	18	5.0	mg/L	08/18/03	JMJ	410.4/SM 5220 D
Color (Apparent)	75	25	A.C.U.	08/15/03	GEH	USEPA-110.2
Turbidity	2.0	1.0	NTU	08/15/03	HLB	USEPA-180.1
Residue, Suspended	<3	3	mg/L	08/18/03	JMJ	160.2/SM 2540 D
Residue,Dissolved @ 180*C	59	20	mg/L	08/18/03	JMJ	160.1/SM 2540 C
* Carbon, Total Organic	6.7	1.0	mg/L	08/18/03	GEH	4151/5310D/9060
Arsenic, Total	<1.0	1.0	ug/L	08/27/03	JMF	EPA-200.8/6020
Barium, Total	<10	10	ug/L	08/26/03	KLVM	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	08/26/03	KLVM	EPA-200.8/6020
Iron, Total	640	20	ug/L	08/21/03	DWJ	EPA-200.7/6010B
Manganese, Total	18	10	ug/L	08/26/03	KLVM	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	08/27/03	JMF	EPA-200.8/6020
Calcium, Dissolved	9.8	0.50	mg/L	08/21/03	DWJ	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	08/21/03	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	2.2	0.50	mg/L	08/21/03	DWJ	EPA-200.7/6010B
Sodium, Dissolved	0.82	0.50	mg/L	08/21/03	DWJ	EPA-200.7/6010B

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/13/03 @ 11:30
Sampler: D.W.
Received: 08/14/03 @ 09:15

Submittal #: **36162-6**
Submittal: August 2003 Samples

Sample ID: **YDR002**
Sample #: 339930
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Chloride	1.2	1.0	mg/L	08/21/03	JLB	325.2/4500-CL E
	Nitrogen, Nitrate	<0.05	0.05	mg/L	08/15/03	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	08/15/03	HLB	USEPA-353.2
	Nitrogen, Ammonia	<0.05	0.05	mg/L	08/19/03	GEH	350.1/4500 NH3G
	Sulfate	<5.0	5.0	mg/L	08/21/03	JLB	USEPA-375.4
	Alkalinity, Bicarbonate	34	2.0	mg/L	08/21/03	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	08/21/03	VAS	310.1/SM 2320 B
	Alkalinity, Total	34	2.0	mg/L	08/21/03	VAS	310.1/SM 2320 B
	Hardness, (EDTA) as CaCO3	26	2.0	mg/L	08/22/03	JMJ	130.2/SM 2340 C
	BOD, (5-Day)	<1.0	1.0	mg/L	08/14/03	TAM	SDM 5210B
	Chemical Oxygen Demand	18	5.0	mg/L	08/18/03	JMJ	410.4/SM 5220 D
	Color (Apparent)	75	25	A.C.U.	08/15/03	GEH	USEPA-110.2
	Turbidity	2.6	1.0	NTU	08/15/03	HLB	USEPA-180.1
	Residue, Suspended	<3	3	mg/L	08/18/03	JMJ	160.2/SM 2540 D
	Residue,Dissolved @ 180*C	56	50	mg/L	08/18/03	JMJ	160.1/SM 2540 C
*	Carbon, Total Organic	7.1	1.0	mg/L	08/18/03	GEH	4151/5310D/9060
	Arsenic, Total	<1.0	1.0	ug/L	08/27/03	JMF	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	08/26/03	KLVM	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	08/26/03	KLVM	EPA-200.8/6020
*	Iron, Total	830	20	ug/L	08/21/03	DWJ	EPA-200.7/6010B
	Manganese, Total	19	10	ug/L	08/26/03	KLVM	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	08/27/03	JMF	EPA-200.8/6020
	Calcium, Dissolved	9.9	0.50	mg/L	08/21/03	DWJ	EPA-200.7/6010B
	Potassium, Dissolved	<0.50	0.50	mg/L	08/21/03	DWJ	EPA-200.7/6010B
	Magnesium, Dissolved	2.2	0.50	mg/L	08/21/03	DWJ	EPA-200.7/6010B
	Sodium, Dissolved	0.84	0.50	mg/L	08/21/03	DWJ	EPA-200.7/6010B

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/14/03 @ 09:00
Sampler: D.W.
Received: 08/16/03 @ 08:40

Submittal #: **36162-6**
Submittal: August 2003 Samples

Sample ID: **CR002**
Sample #: **340187**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Chloride	<1.0	1.0	mg/L	08/21/03	JLB	325.2/4500-CL E
Nitrogen, Nitrate	<0.05	0.05	mg/L	08/20/03	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	08/20/03	HLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	08/19/03	GEH	350.1/4500 NH3G
Sulfate	<5.0	5.0	mg/L	08/21/03	JLB	USEPA-375.4
Alkalinity, Bicarbonate	48	2.0	mg/L	08/21/03	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	08/21/03	VAS	310.1/SM 2320 B
Alkalinity, Total	48	2.0	mg/L	08/21/03	VAS	310.1/SM 2320 B
Hardness, (EDTA) as CaCO3	46	2.0	mg/L	08/22/03	JMJ	130.2/SM 2340 C
* BOD, (5-Day)	<1.0	1.0	mg/L	08/20/03	TAM	SDM 5210B
Chemical Oxygen Demand	<5.0	5.0	mg/L	08/18/03	JMJ	410.4/SM 5220 D
* Color (Apparent)	5	5	A.C.U.	08/19/03	GEH	USEPA-110.2
* Turbidity	<1.0	1.0	NTU	08/20/03	HLB	USEPA-180.1
Residue, Suspended	<3	3	mg/L	08/18/03	JMJ	160.2/SM 2540 D
Residue,Dissolved @ 180*C	56	50	mg/L	08/18/03	JMJ	160.1/SM 2540 C
* Carbon, Total Organic	<1.0	1.0	mg/L	08/18/03	GEH	4151/5310D/9060
Arsenic, Total	<1.0	1.0	ug/L	08/27/03	JMF	EPA-200.8/6020
Barium, Total	<10	10	ug/L	08/26/03	KLVM	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	08/26/03	KLVM	EPA-200.8/6020
Iron, Total	29	20	ug/L	08/21/03	DWJ	EPA-200.7/6010B
Manganese, Total	<10	10	ug/L	08/26/03	KLVM	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	08/27/03	JMF	EPA-200.8/6020
Calcium, Dissolved	15	0.50	mg/L	08/21/03	DWJ	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	08/21/03	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	2.0	0.50	mg/L	08/21/03	DWJ	EPA-200.7/6010B
Sodium, Dissolved	0.55	0.50	mg/L	08/21/03	DWJ	EPA-200.7/6010B

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/14/03 @ 11:15
Sampler: D.W.
Received: 08/16/03 @ 08:40

Submittal #: **36162-6**
Submittal: August 2003 Samples

Sample ID: **CR004**
Sample #: **340188**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Chloride	<1.0	1.0	mg/L	08/21/03	JLB	325.2/4500-CL E
	Nitrogen, Nitrate	<0.05	0.05	mg/L	08/20/03	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	08/20/03	HLB	USEPA-353.2
	Nitrogen, Ammonia	<0.05	0.05	mg/L	08/19/03	GEH	350.1/4500 NH3G
	Sulfate	<5.0	5.0	mg/L	08/21/03	JLB	USEPA-375.4
	Alkalinity, Bicarbonate	68	2.0	mg/L	08/21/03	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	08/21/03	VAS	310.1/SM 2320 B
	Alkalinity, Total	68	2.0	mg/L	08/21/03	VAS	310.1/SM 2320 B
	Hardness, (EDTA) as CaCO3	72	2.0	mg/L	08/22/03	JMJ	130.2/SM 2340 C
*	BOD, (5-Day)	1.1	1.0	mg/L	08/20/03	TAM	SDM 5210B
	Chemical Oxygen Demand	7.5	5.0	mg/L	08/18/03	JMJ	410.4/SM 5220 D
*	Color (Apparent)	30	5	A.C.U.	08/19/03	GEH	USEPA-110.2
*	Turbidity	<1.0	1.0	NTU	08/20/03	HLB	USEPA-180.1
	Residue, Suspended	<3	3	mg/L	08/18/03	JMJ	160.2/SM 2540 D
	Residue,Dissolved @ 180*C	84	50	mg/L	08/18/03	JMJ	160.1/SM 2540 C
*	Carbon, Total Organic	3.2	1.0	mg/L	08/18/03	GEH	4151/5310D/9060
	Arsenic, Total	1.9	1.0	ug/L	08/27/03	JMF	EPA-200.8/6020
	Barium, Total	14	10	ug/L	08/26/03	KLVM	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	08/26/03	KLVM	EPA-200.8/6020
	Iron, Total	190	20	ug/L	08/21/03	DWJ	EPA-200.7/6010B
	Manganese, Total	14	10	ug/L	08/26/03	KLVM	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	08/27/03	JMF	EPA-200.8/6020
	Calcium, Dissolved	22	0.50	mg/L	08/21/03	DWJ	EPA-200.7/6010B
	Potassium, Dissolved	<0.50	0.50	mg/L	08/21/03	DWJ	EPA-200.7/6010B
	Magnesium, Dissolved	3.7	0.50	mg/L	08/21/03	DWJ	EPA-200.7/6010B
	Sodium, Dissolved	1.0	0.50	mg/L	08/21/03	DWJ	EPA-200.7/6010B

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/14/03 @ 09:15
Sampler: D.W.
Received: 08/16/03 @ 08:40

Submittal #: **36162-6**
Submittal: August 2003 Samples

Sample ID: **Duplicate**
Sample #: **340189**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Chloride	<1.0	1.0	mg/L	08/21/03	JLB	325.2/4500-CL E
Nitrogen, Nitrate	<0.05	0.05	mg/L	08/20/03	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	08/20/03	HLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	08/19/03	GEH	350.1/4500 NH3G
Sulfate	<5.0	5.0	mg/L	08/21/03	JLB	USEPA-375.4
Alkalinity, Bicarbonate	47	2.0	mg/L	08/21/03	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	08/21/03	VAS	310.1/SM 2320 B
Alkalinity, Total	47	2.0	mg/L	08/21/03	VAS	310.1/SM 2320 B
Hardness, (EDTA) as CaCO3	68	2.0	mg/L	08/22/03	JMJ	130.2/SM 2340 C
* BOD, (5-Day)	<1.0	1.0	mg/L	08/20/03	TAM	SDM 5210B
Chemical Oxygen Demand	<5.0	5.0	mg/L	08/18/03	JMJ	410.4/SM 5220 D
* Color (Apparent)	5	5	A.C.U.	08/19/03	GEH	USEPA-110.2
* Turbidity	<1.0	1.0	NTU	08/20/03	HLB	USEPA-180.1
Residue, Suspended	<3	3	mg/L	08/18/03	JMJ	160.2/SM 2540 D
Residue,Dissolved @ 180*C	62	50	mg/L	08/18/03	JMJ	160.1/SM 2540 C
* Carbon, Total Organic	<1.0	1.0	mg/L	08/18/03	GEH	4151/5310D/9060
Arsenic, Total	<1.0	1.0	ug/L	08/27/03	JMF	EPA-200.8/6020
Barium, Total	<10	10	ug/L	08/26/03	KLVM	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	08/26/03	KLVM	EPA-200.8/6020
Iron, Total	25	20	ug/L	08/21/03	DWJ	EPA-200.7/6010B
Manganese, Total	<10	10	ug/L	08/26/03	KLVM	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	08/27/03	JMF	EPA-200.8/6020
Calcium, Dissolved	14	0.50	mg/L	08/21/03	DWJ	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	08/21/03	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	2.0	0.50	mg/L	08/21/03	DWJ	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	08/21/03	DWJ	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

End of Analytical Report

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Bicarbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/21/03	205338	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/21/03	205338	VAS	238	235	99	93-105

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Carbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/21/03	205338	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/21/03	205338	VAS	377	339	90	81-107

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Total**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/21/03	205338	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/21/03	205338	VAS	238	235	99	92-105

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/21/03	205173	DWJ	<100

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/27/03	205417	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/27/03	205417	JMF	40	38.8	97	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/27/03	88317	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/27/03	88317	JMF	25	25.2	101	88-118

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/21/03	205173	DWJ	<10

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/26/03	205373	KLVM	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/26/03	205373	KLVM	40	40.7	102	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/26/03	88317	KLVM	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/26/03	88317	KLVM	25	23.4	94	86-119

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QUALITY CONTROL REPORT

Parameter: **BOD, (5-Day)**
Method: Biochemical Oxygen Demand SDM 5210B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/14/03	205100	TAM	<1.0
08/20/03	205328	TAM	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/14/03	205100	TAM	198	207	105	85-116
08/20/03	205328	TAM	198	200	101	85-116

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QUALITY CONTROL REPORT

Parameter: **Carbon, Total Organic**
Method: Organic Carbon, Total 4151/5310D/9060 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/18/03	205285	GEH	<0.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/03	205285	GEH	25	25	100	90-110

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QUALITY CONTROL REPORT

Parameter: **Chemical Oxygen Demand**
Method: Closed Reflux, Colorimetric Method 410.4/SM 5220 D WATER
Units: mg/L

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/18/03	88028	JMJ	<5.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/03	88028	JMJ	30	31	103	90-110

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QUALITY CONTROL REPORT

Parameter: **Chloride**
Method: Colorimetric, Automated Ferricyanide 325.2/4500-CL E WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/21/03	205165	JLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/21/03	205165	JLB	44	44	100	97-108

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QUALITY CONTROL REPORT

Parameter: **Color (Apparent)**
Method: Colorimetric, Platinum-Cobalt USEPA-110.2 WATER
Units: A.C.U.

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/15/03	205031	GEH	<5
08/19/03	205030	GEH	<5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/15/03	205031	GEH	25	25	100	80-120
08/19/03	205030	GEH	25	25	100	80-120

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/21/03	205173	DWJ	<10

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/26/03	205373	KLVM	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/26/03	205373	KLVM	40	40.7	102	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/26/03	88317	KLVM	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/26/03	88317	KLVM	25	24.9	100	86-123

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QUALITY CONTROL REPORT

Parameter: **Hardness, (EDTA) as CaCO3**
Method: Hardness-Titrimetric, EDTA 130.2/SM 2340 C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/22/03	205216	JMJ	<2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/22/03	205216	JMJ	119	120	101	94-107

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QUALITY CONTROL REPORT

Parameter: **Iron, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/21/03	205173	DWJ	<20

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/21/03	205173	DWJ	500	497	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/21/03	88184	DWJ	<20

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/21/03	88184	DWJ	250	255	102	83-118

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QUALITY CONTROL REPORT

Parameter: **Magnesium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/21/03	205173	DWJ	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/21/03	205173	DWJ	5.0	5.00	100	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/21/03	88184	DWJ	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/21/03	88184	DWJ	12.5	13.1	105	87-115

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/21/03	205173	DWJ	<10

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/26/03	205373	KLVM	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/26/03	205373	KLVM	40	40.7	102	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/26/03	88317	KLVM	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/26/03	88317	KLVM	25	25.6	102	84-126

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/21/03	205173	DWJ	<10

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/27/03	205417	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/27/03	205417	JMF	40	40.2	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/27/03	88317	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/27/03	88317	JMF	25	25.6	102	82-124

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Ammonia**
Method: Colorimetric, Automated Phenate 350.1/4500 NH3G WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/19/03	205101	GEH	<0.01

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/19/03	205101	GEH	1.25	1.27	102	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrate**
Method: Colorimetric, Auto-Cadmium Reduction 353.2/4500 NO3F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/15/03	205089	HLB	<0.05
08/20/03	205380	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/15/03	205089	HLB	0.404	0.399	99	90-110
08/20/03	205380	HLB	0.404	0.399	99	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrite**
Method: Colorimetric, Automated USEPA-353.2 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/15/03	205090	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/15/03	205090	HLB	0.50	0.52	104	90-110

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QUALITY CONTROL REPORT

Parameter: **Potassium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/21/03	205173	DWJ	<0.10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/21/03	205173	DWJ	5.0	4.98	100	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/21/03	88184	DWJ	<0.10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/21/03	88184	DWJ	12.5	13.5	108	87-125

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QUALITY CONTROL REPORT

Parameter: **Residue,Dissolved @ 180*C**
Method: Residue-Gravimetric, Dried @ 180*C 160.1/SM 2540 C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/18/03	205065	JMJ	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/03	205065	JMJ	301.5	306	101	90-108

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QUALITY CONTROL REPORT

Parameter: **Residue, Suspended**
Method: Residue-Gravimetric, Dried @ 103-105*C 160.2/SM 2540 D WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/18/03	205039	JMJ	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/03	205039	JMJ	30.4	30	99	89-106

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QUALITY CONTROL REPORT

Parameter: **Sodium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/21/03	205173	DWJ	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/21/03	205173	DWJ	5.0	4.93	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/21/03	88184	DWJ	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/21/03	88184	DWJ	12.5	13.4	107	86-117

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QUALITY CONTROL REPORT

Parameter: **Sulfate**
Method: Turbidimetric Method (Manual) USEPA-375.4 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/21/03	205178	JLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/21/03	205178	JLB	14	13.5	96	85-113

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QUALITY CONTROL REPORT

Parameter: **Turbidity**
Method: Nephelometric USEPA-180.1 WATER
Units: NTU

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/15/03	205263	HLB	<1.0
08/20/03	205332	HLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/15/03	205263	HLB	401	387	97	90-110
08/20/03	205332	HLB	401	384	96	90-110

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TriMatrix Laboratories, Inc.

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Chain of Custody Record

COC No. 95337

Page 1 of 1

For Lab Use Only

Cart: 4

VOA Rack/Tray:

Receipt Log No.: 27-4

Project Chemist: JK

Laboratory Project No.: 301627-LP

Client Name: North Jackson Co.

Address: 420 Rail Street

Negaunee MI, 49866

Phone:

Fax:

Project Name: Eagle

Client Project No. / P.O. No.:

Invoice To: ☐ Client ☑ Other (comments)

Contact/Report To: Dan Wiitala

Analyses Requested

Container Type (corresponds to Container Packing List)	A	C	B	C	B						
	1000mL Plastic	500mL Plastic	500mL Plastic	40mL Amber vial	500mL Plastic						
Number of Containers Submitted	3	4	6	11	15					Total	

PRESERVATIVES
A NONE pH-7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	3	4	6	11	15	Total	Sample Comments
02	WS	339927	1	STR001	TM0353	8-13	13:40		X	GW	3	1	1	3	1		
		339928	2	STR002	↓	8-13	14:00		X	WW	3	1	1	3	1		
		339929	3	YDR001	N/A	8-13	10:15		X	WW	3	1	1	3	1		2nd Cooler
		339930	4	YDR002	TM0353	8-13	11:30		X	WW	3	1	1	3	1		
			5	~~GR002~~							3	1	1	3	1		
			6								3	1	1	3	1		
			7	Duplicate							3	1	1	3	1		
			8														
			9														
			10														

Sampled By (print): Dan Wiitala

Sampler's Signature: Dan Wiitala

Company: North Jackson

How Shipped? Hand Carrier FedEx

Tracking No.: 7914 6800 4697 + 4669

1. Relinquished By	Date	Time
Dan Wiitala	8/13/03	17:00

1. Received By	Date	Time

2. Relinquished By	Date	Time

2. Received By	Date	Time

3. Relinquished By	Date	Time

3. Received For Lab By	Date	Time
[illegible]	8/14/03	9:15

Comments:
two coolers in Shipment
Bill to Kennecott Canada

TriMatrixCOC

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TriMatrix Laboratories, Inc.

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Chain of Custody Record

COC No. 95338

Page 1 of 1

For Lab Use Only

Cart: 1

VOA Rack/Tray:

Receipt Log No.: 39-3 31-3

Project Chemist: JLK

Laboratory Project No.: 340162.6

Client Name: North Jackson Co.

Address: 420 Rail Street

Negaunee MI, 49866

Phone:

Fax:

Project Name: Eagle

Client Project No. / P.O. No.:

Invoice To: ☐ Client ☑ Other (comments)

Contact/Report To: Dan Wiitala

Analyses Requested

Container Type (corresponds to Container Packing List)	A	C	B	C	B						
	1000mL Plastic	500mL Plastic	500mL Plastic	40mL Amber vial	500mL Plastic						
Number of Containers Submitted	3	4	6	11	15					Total	Sample Comments
1 CR002	3	1	1	3	1					9	Same
2 CR004	3	1	1	3	1					9	as
3 Duplicate	3	1	1	3	1					9	June
4											2003
5											Analytes
6											List
7											
8											
9											
10											

Test Group	Matrix Code	Laboratory Sample Number	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix
CR		340137	TM04116	8-14	900		X	WTR
		340138		8-14	1115		X		
		340139		8-14	915		X	↓

Preservatives

- A NONE pH~7
- B HNO_3 pH<2
- C H_2SO_4 pH<2
- D 1+1 HCl pH<2
- E NaOH pH>12
- F ZnAc/NaOH pH>9
- G MeOH
- H Other (note below)

Sampled By (print): Dan Wiitala

Sampler's Signature:

Company: North Jackson Co

How Shipped? Hand Carrier FedEx

Tracking No. 7914 6801 3159

Comments: Bill to Renaissance Canada Attn: Ian Graham

1. Relinquished By	Date	Time
	8-14-03	1700

2. Relinquished By	Date	Time

3. Relinquished By	Date	Time

1. Received By	Date	Time

2. Received By	Date	Time

3. Received For Lab By	Date	Time
	8/15/03	8:40

TriMatrixCOC

WHITE COPY - REPORT YELLOW COPY - LABORATORY PINK COPY - FIELD

November 13, 2003

North Jackson Company
Attn: Mr. Peter Sabee
420 Rail Street
Negaunee, MI 49866

RE: Eagle
Submittal Number: 36162-7

Dear Mr. Peter Sabee:

Enclosed is a copy of your laboratory report for test samples received by our laboratory on October 30, 2003.

Please note that the test results of the enclosed analyses relate only to the sample(s) as received at the laboratory, and are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC) standards. Qualification of test standards, including sample acceptance requirements, are presented within the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosure(s)

The total number of pages in this report, including this page, is 45.

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Individual sample results relate only to the sample tested.

36162- 7

STATEMENT OF DATA QUALIFICATIONS

Analysis: **Residue, Suspended**
Residue-Gravimetric, Dried @ 103-105*C
WATER 160.2/SM 2540 D

Qualification:

The detection limit for this sample and corresponding analysis were elevated due to insufficient sample volume received.

Sample(s) Qualified:			
	347756	STR001	
	347757	STR002	
	347758	YDR001	
	347759	YDR002	
	347760	M-1	Duplicate
	347835	CR002	
	347836	CR004	

Analysis: **Carbon, Total Organic**
Organic Carbon, Total
WATER 4151/5310D/9060

Qualification:

The analytical requirements of the method require quadruplicate analysis on every sample submitted for TOC testing. The reporting requirements require both the average and the range of the four analysis be reported. The result reported is the average; the range of the replicates is:

Explanation for Sample(s) listed below:

0.29 - 0.35

Sample(s) Qualified:	347761	**Field**	Blank

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Carbon, Total Organic**
Organic Carbon, Total
WATER 4151/5310D/9060

Qualification:

The analytical requirements of the method require quadruplicate analysis on every sample submitted for TOC testing. The reporting requirements require both the average and the range of the four analysis be reported. The result reported is the average; the range of the replicates is:

Explanation for Sample(s) listed below:

0.79 - 0.86

Sample(s) Qualified: 347835 CR002

Explanation for Sample(s) listed below:

10.14 - 10.69

Sample(s) Qualified: 347759 YDR002

Explanation for Sample(s) listed below:

10.25 - 10.36

Sample(s) Qualified: 347758 YDR001

Explanation for Sample(s) listed below:

4.14 - 4.29

Sample(s) Qualified: 347836 CR004

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Carbon, Total Organic**
Organic Carbon, Total
WATER 4151/5310D/9060

Qualification:

The analytical requirements of the method require quadruplicate analysis on every sample submitted for TOC testing. The reporting requirements require both the average and the range of the four analysis be reported. The result reported is the average; the range of the replicates is:

Explanation for Sample(s) listed below:

4.64 - 4.87

Sample(s) Qualified: 347756 STR001

Explanation for Sample(s) listed below:

5.85 - 5.99

Sample(s) Qualified: 347757 STR002

Explanation for Sample(s) listed below:

5.91 - 6.03

Sample(s) Qualified: 347760 M-1 Duplicate

Page 3 - **End of Statement of Data Qualifications**

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36162- 7

CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

4.78

Sample(s) Narrated: 347761 Field Blank

Explanation for Sample(s) listed below:

6.58

Sample(s) Narrated: 347757 STR002

Explanation for Sample(s) listed below:

6.65

Sample(s) Narrated: 347758 YDR001

Explanation for Sample(s) listed below:

6.68

Sample(s) Narrated: 347835 CR002

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CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

6.72

Sample(s) Narrated:	347759	YDR002	
	347760	M-1	Duplicate

Explanation for Sample(s) listed below:

6.85

Sample(s) Narrated:	347756	STR001

Explanation for Sample(s) listed below:

7.37

Sample(s) Narrated:	347836	CR004

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CASE NARRATIVE

Analysis: **BOD, (5-Day)**
Biochemical Oxygen Demand
WATER SDM 5210B

Narrative:

The reported Biochemical Oxygen Demand result for this sample was calculated on an oxygen depletion of <2.0 mg/l

Sample(s) Narrated:	347756	STR001
	347757	STR002
	347758	YDR001
	347759	YDR002
	347835	CR002
	347836	CR004

Narrative:

The precision result between the sample and its duplicate was out of control when compared to the precision window. Because the amounts found in both analyses were less than five times the reporting limit, no qualifications are necessary.

Sample(s) Narrated:	347756	STR001

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/28/03 @ 10:30
Sampler: D.W.
Received: 10/29/03 @ 08:40

Submittal #: **36162-7**
Submittal: 10/28-29/03 Samples

Sample ID: **STR001**
Sample #: **347756**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Chloride	1.2	1.0	mg/L	11/04/03	JLB	325.2/4500-CL E
	Nitrogen, Nitrate	<0.05	0.05	mg/L	10/30/03	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	10/30/03	HLB	USEPA-353.2
	Nitrogen, Ammonia	<0.05	0.05	mg/L	11/04/03	GEH	350.1/4500 NH3G
	Sulfate	<5.0	5.0	mg/L	11/04/03	JLB	EPA-375.4/9038
	Alkalinity, Bicarbonate	20	2.0	mg/L	10/31/03	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	10/31/03	VAS	310.1/SM 2320 B
	Alkalinity, Total	20	2.0	mg/L	10/31/03	VAS	310.1/SM 2320 B
	Hardness, (EDTA) as CaCO3	18	2.0	mg/L	10/31/03	JMJ	130.2/SM 2340 C
	BOD, (5-Day)	1.6	1.0	mg/L	10/29/03	TAM	SDM 5210B
	Chemical Oxygen Demand	12	5.0	mg/L	10/31/03	JMJ	410.4/SM 5220 D
	Color (Apparent)	35	5	A.C.U.	10/29/03	HLB	USEPA-110.2
	Turbidity	<1.0	1.0	NTU	10/29/03	HLB	USEPA-180.1
*	Residue, Suspended	<13	13	mg/L	11/03/03	GEH	160.2/SM 2540 D
	Residue,Dissolved @ 180*C	52	50	mg/L	11/03/03	GEH	160.1/SM 2540 C
*	Carbon, Total Organic	4.8	1.0	mg/L	10/30/03	GEH	4151/5310D/9060
	Arsenic, Total	<1.0	1.0	ug/L	11/10/03	DWJ	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	11/10/03	DWJ	EPA-200.8/6020
	Copper, Total	1.3	1.0	ug/L	11/11/03	JMF	EPA-200.8/6020
	Iron, Total	330	20	ug/L	11/10/03	KLVM	EPA-200.7/6010B
	Manganese, Total	17	10	ug/L	11/10/03	DWJ	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	11/10/03	DWJ	EPA-200.8/6020
	Calcium, Dissolved	4.6	0.50	mg/L	11/07/03	JMF	EPA-200.7/6010B
	Potassium, Dissolved	0.63	0.50	mg/L	11/10/03	JMF	EPA-200.7/6010B
	Magnesium, Dissolved	1.1	0.50	mg/L	11/07/03	JMF	EPA-200.7/6010B
	Sodium, Dissolved	0.89	0.50	mg/L	11/10/03	JMF	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/28/03 @ 08:30
Sampler: D.W.
Received: 10/29/03 @ 08:40

Submittal #: **36162-7**
Submittal: 10/28-29/03 Samples

Sample ID: **STR002**
Sample #: **347757**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Chloride	1.0	1.0	mg/L	11/04/03	JLB	325.2/4500-CL E
Nitrogen, Nitrate	<0.05	0.05	mg/L	10/30/03	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	10/30/03	HLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	11/04/03	GEH	350.1/4500 NH3G
Sulfate	<5.0	5.0	mg/L	11/04/03	JLB	EPA-375.4/9038
Alkalinity, Bicarbonate	29	2.0	mg/L	10/31/03	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	10/31/03	VAS	310.1/SM 2320 B
Alkalinity, Total	29	2.0	mg/L	10/31/03	VAS	310.1/SM 2320 B
Hardness, (EDTA) as CaCO3	28	2.0	mg/L	10/31/03	JMJ	130.2/SM 2340 C
BOD, (5-Day)	1.2	1.0	mg/L	10/29/03	TAM	SDM 5210B
Chemical Oxygen Demand	16	5.0	mg/L	10/31/03	JMJ	410.4/SM 5220 D
Color (Apparent)	60	10	A.C.U.	10/29/03	HLB	USEPA-110.2
Turbidity	<1.0	1.0	NTU	10/29/03	HLB	USEPA-180.1
* Residue, Suspended	<5	5	mg/L	11/03/03	GEH	160.2/SM 2540 D
Residue,Dissolved @ 180*C	50	50	mg/L	11/03/03	GEH	160.1/SM 2540 C
* Carbon, Total Organic	5.9	1.0	mg/L	10/30/03	GEH	4151/5310D/9060
Arsenic, Total	<1.0	1.0	ug/L	11/10/03	DWJ	EPA-200.8/6020
Barium, Total	<10	10	ug/L	11/10/03	DWJ	EPA-200.8/6020
Copper, Total	1.2	1.0	ug/L	11/11/03	JMF	EPA-200.8/6020
Iron, Total	210	20	ug/L	11/10/03	KLVM	EPA-200.7/6010B
Manganese, Total	<10	10	ug/L	11/10/03	DWJ	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	11/10/03	DWJ	EPA-200.8/6020
Calcium, Dissolved	7.9	0.50	mg/L	11/07/03	JMF	EPA-200.7/6010B
Potassium, Dissolved	0.69	0.50	mg/L	11/10/03	JMF	EPA-200.7/6010B
Magnesium, Dissolved	1.7	0.50	mg/L	11/07/03	JMF	EPA-200.7/6010B
Sodium, Dissolved	1.1	0.50	mg/L	11/10/03	JMF	EPA-200.7/6010B

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/28/03 @ 13:00
Sampler: D.W.
Received: 10/29/03 @ 08:40

Submittal #: **36162-7**
Submittal: 10/28-29/03 Samples

Sample ID: **YDR001**
Sample #: 347758
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Chloride	1.3	1.0	mg/L	11/04/03	JLB	325.2/4500-CL E
	Nitrogen, Nitrate	0.05	0.05	mg/L	10/30/03	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	10/30/03	HLB	USEPA-353.2
	Nitrogen, Ammonia	<0.05	0.05	mg/L	11/04/03	GEH	350.1/4500 NH3G
	Sulfate	<5.0	5.0	mg/L	11/04/03	JLB	EPA-375.4/9038
	Alkalinity, Bicarbonate	40	2.0	mg/L	10/31/03	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	10/31/03	VAS	310.1/SM 2320 B
	Alkalinity, Total	40	2.0	mg/L	10/31/03	VAS	310.1/SM 2320 B
	Hardness, (EDTA) as CaCO3	32	2.0	mg/L	10/31/03	JMJ	130.2/SM 2340 C
	BOD, (5-Day)	1.2	1.0	mg/L	10/29/03	TAM	SDM 5210B
	Chemical Oxygen Demand	25	5.0	mg/L	10/31/03	JMJ	410.4/SM 5220 D
	Color (Apparent)	100	10	A.C.U.	10/29/03	HLB	USEPA-110.2
	Turbidity	1.3	1.0	NTU	10/29/03	HLB	USEPA-180.1
*	Residue, Suspended	<5	5	mg/L	11/03/03	GEH	160.2/SM 2540 D
	Residue,Dissolved @ 180*C	68	50	mg/L	11/03/03	GEH	160.1/SM 2540 C
*	Carbon, Total Organic	10	1.0	mg/L	10/30/03	GEH	4151/5310D/9060
	Arsenic, Total	<1.0	1.0	ug/L	11/10/03	DWJ	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	11/10/03	DWJ	EPA-200.8/6020
	Copper, Total	1.2	1.0	ug/L	11/11/03	JMF	EPA-200.8/6020
	Iron, Total	650	20	ug/L	11/10/03	KLVM	EPA-200.7/6010B
	Manganese, Total	34	10	ug/L	11/10/03	DWJ	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	11/10/03	DWJ	EPA-200.8/6020
	Calcium, Dissolved	9.6	0.50	mg/L	11/10/03	KLVM	EPA-200.7/6010B
	Potassium, Dissolved	0.51	0.50	mg/L	11/10/03	KLVM	EPA-200.7/6010B
	Magnesium, Dissolved	2.1	0.50	mg/L	11/10/03	KLVM	EPA-200.7/6010B
	Sodium, Dissolved	1.0	0.50	mg/L	11/10/03	KLVM	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/28/03 @ 12:00
Sampler: D.W.
Received: 10/29/03 @ 08:40

Submittal #: **36162-7**
Submittal: 10/28-29/03 Samples

Sample ID: **YDR002**
Sample #: **347759**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Chloride	1.4	1.0	mg/L	11/04/03	JLB	325.2/4500-CL E
Nitrogen, Nitrate	<0.05	0.05	mg/L	10/30/03	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	10/30/03	HLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	11/04/03	GEH	350.1/4500 NH3G
Sulfate	<5.0	5.0	mg/L	11/04/03	JLB	EPA-375.4/9038
Alkalinity, Bicarbonate	32	2.0	mg/L	10/31/03	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	10/31/03	VAS	310.1/SM 2320 B
Alkalinity, Total	32	2.0	mg/L	10/31/03	VAS	310.1/SM 2320 B
Hardness, (EDTA) as CaCO3	32	2.0	mg/L	10/31/03	JMJ	130.2/SM 2340 C
BOD, (5-Day)	1.0	1.0	mg/L	10/29/03	TAM	SDM 5210B
Chemical Oxygen Demand	27	5.0	mg/L	10/31/03	JMJ	410.4/SM 5220 D
Color (Apparent)	100	10	A.C.U.	10/29/03	HLB	USEPA-110.2
Turbidity	1.6	1.0	NTU	10/29/03	HLB	USEPA-180.1
* Residue, Suspended	<5	5	mg/L	11/03/03	GEH	160.2/SM 2540 D
Residue,Dissolved @ 180*C	70	50	mg/L	11/03/03	GEH	160.1/SM 2540 C
* Carbon, Total Organic	11	1.0	mg/L	10/30/03	GEH	4151/5310D/9060
Arsenic, Total	<1.0	1.0	ug/L	11/10/03	DWJ	EPA-200.8/6020
Barium, Total	<10	10	ug/L	11/10/03	DWJ	EPA-200.8/6020
Copper, Total	1.2	1.0	ug/L	11/11/03	JMF	EPA-200.8/6020
Iron, Total	840	20	ug/L	11/10/03	KLVM	EPA-200.7/6010B
Manganese, Total	32	10	ug/L	11/10/03	DWJ	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	11/10/03	DWJ	EPA-200.8/6020
Calcium, Dissolved	9.5	0.50	mg/L	11/07/03	JMF	EPA-200.7/6010B
Potassium, Dissolved	0.56	0.50	mg/L	11/10/03	JMF	EPA-200.7/6010B
Magnesium, Dissolved	2.1	0.50	mg/L	11/07/03	JMF	EPA-200.7/6010B
Sodium, Dissolved	1.0	0.50	mg/L	11/10/03	JMF	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/28/03 @ 08:30
Sampler: D.W.
Received: 10/29/03 @ 08:40

Submittal #: **36162-7**
Submittal: 10/28-29/03 Samples

Sample ID: **M-1 Duplicate**
Sample #: **347760**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Chloride	1.2	1.0	mg/L	11/04/03	JLB	325.2/4500-CL E
	Nitrogen, Nitrate	<0.05	0.05	mg/L	10/30/03	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	10/30/03	HLB	USEPA-353.2
	Nitrogen, Ammonia	<0.05	0.05	mg/L	11/04/03	GEH	350.1/4500 NH3G
	Sulfate	<5.0	5.0	mg/L	11/04/03	JLB	EPA-375.4/9038
	Alkalinity, Bicarbonate	29	2.0	mg/L	10/31/03	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	10/31/03	VAS	310.1/SM 2320 B
	Alkalinity, Total	29	2.0	mg/L	10/31/03	VAS	310.1/SM 2320 B
	Hardness, (EDTA) as CaCO3	28	2.0	mg/L	10/31/03	JMJ	130.2/SM 2340 C
	BOD, (5-Day)	<1.0	1.0	mg/L	10/29/03	TAM	SDM 5210B
	Chemical Oxygen Demand	16	5.0	mg/L	10/31/03	JMJ	410.4/SM 5220 D
	Color (Apparent)	60	5	A.C.U.	10/29/03	HLB	USEPA-110.2
	Turbidity	<1.0	1.0	NTU	10/29/03	HLB	USEPA-180.1
*	Residue, Suspended	<5	5	mg/L	11/03/03	GEH	160.2/SM 2540 D
	Residue,Dissolved @ 180*C	62	50	mg/L	11/03/03	GEH	160.1/SM 2540 C
*	Carbon, Total Organic	6.0	1.0	mg/L	10/30/03	GEH	4151/5310D/9060
	Arsenic, Total	<1.0	1.0	ug/L	11/10/03	DWJ	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	11/10/03	DWJ	EPA-200.8/6020
	Copper, Total	1.3	1.0	ug/L	11/11/03	JMF	EPA-200.8/6020
	Iron, Total	210	20	ug/L	11/10/03	KLVM	EPA-200.7/6010B
	Manganese, Total	13	10	ug/L	11/10/03	DWJ	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	11/10/03	DWJ	EPA-200.8/6020
	Calcium, Dissolved	8.0	0.50	mg/L	11/07/03	JMF	EPA-200.7/6010B
	Potassium, Dissolved	0.66	0.50	mg/L	11/10/03	JMF	EPA-200.7/6010B
	Magnesium, Dissolved	1.8	0.50	mg/L	11/07/03	JMF	EPA-200.7/6010B
	Sodium, Dissolved	0.92	0.50	mg/L	11/10/03	JMF	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/28/03 @ 09:15
Sampler: D.W.
Received: 10/29/03 @ 08:40

Submittal #: **36162-7**
Submittal: 10/28-29/03 Samples

Sample ID: **Field Blank**
Sample #: **347761**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Chloride	<1.0	1.0	mg/L	11/04/03	JLB	325.2/4500-CL E
Nitrogen, Nitrate	<0.05	0.05	mg/L	10/30/03	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	10/30/03	HLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	11/04/03	GEH	350.1/4500 NH3G
Sulfate	<5.0	5.0	mg/L	11/04/03	JLB	EPA-375.4/9038
Alkalinity, Bicarbonate	<2.0	2.0	mg/L	10/31/03	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	10/31/03	VAS	310.1/SM 2320 B
Alkalinity, Total	<2.0	2.0	mg/L	10/31/03	VAS	310.1/SM 2320 B
Hardness, (EDTA) as CaCO3	<2.0	2.0	mg/L	10/31/03	JMJ	130.2/SM 2340 C
BOD, (5-Day)	<1.0	1.0	mg/L	10/29/03	TAM	SDM 5210B
Chemical Oxygen Demand	<5.0	5.0	mg/L	10/31/03	JMJ	410.4/SM 5220 D
Color (Apparent)	<5	5	A.C.U.	10/29/03	HLB	USEPA-110.2
Turbidity	<1.0	1.0	NTU	10/29/03	HLB	USEPA-180.1
Residue, Suspended	<3	3	mg/L	11/03/03	GEH	160.2/SM 2540 D
Residue,Dissolved @ 180*C	<20	20	mg/L	11/03/03	GEH	160.1/SM 2540 C
* Carbon, Total Organic	<1.0	1.0	mg/L	10/30/03	GEH	4151/5310D/9060
Arsenic, Total	<1.0	1.0	ug/L	11/10/03	DWJ	EPA-200.8/6020
Barium, Total	<10	10	ug/L	11/10/03	DWJ	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	11/11/03	JMF	EPA-200.8/6020
Iron, Total	<20	20	ug/L	11/10/03	KLVM	EPA-200.7/6010B
Manganese, Total	<10	10	ug/L	11/10/03	DWJ	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	11/10/03	DWJ	EPA-200.8/6020
Calcium, Dissolved	<0.50	0.50	mg/L	11/07/03	JMF	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	11/10/03	JMF	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	11/07/03	JMF	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	11/10/03	JMF	EPA-200.7/6010B

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/29/03 @ 08:45
Sampler: D.W.
Received: 10/29/03 @ 08:40

Submittal #: **36162-7**
Submittal: 10/28-29/03 Samples

Sample ID: **CR002**
Sample #: **347835**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Chloride	<1.0	1.0	mg/L	11/04/03	JLB	325.2/4500-CL E
Nitrogen, Nitrate	<0.05	0.05	mg/L	10/30/03	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	10/30/03	HLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	11/04/03	GEH	350.1/4500 NH3G
Sulfate	<5.0	5.0	mg/L	11/04/03	JLB	EPA-375.4/9038
Alkalinity, Bicarbonate	52	2.0	mg/L	10/31/03	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	10/31/03	VAS	310.1/SM 2320 B
Alkalinity, Total	52	2.0	mg/L	10/31/03	VAS	310.1/SM 2320 B
Hardness, (EDTA) as CaCO3	80	2.0	mg/L	10/31/03	JMJ	130.2/SM 2340 C
BOD, (5-Day)	1.2	1.0	mg/L	10/30/03	TAM	SDM 5210B
Chemical Oxygen Demand	11	5.0	mg/L	10/31/03	JMJ	410.4/SM 5220 D
Color (Apparent)	5	5	A.C.U.	10/30/03	HLB	USEPA-110.2
Turbidity	<1.0	1.0	NTU	10/30/03	HLB	USEPA-180.1
* Residue, Suspended	<5	5	mg/L	11/03/03	GEH	160.2/SM 2540 D
Residue,Dissolved @ 180*C	68	50	mg/L	11/03/03	GEH	160.1/SM 2540 C
* Carbon, Total Organic	<1.0	1.0	mg/L	11/04/03	GEH	4151/5310D/9060
Arsenic, Total	<1.0	1.0	ug/L	11/11/03	JMF	EPA-200.8/6020
Barium, Total	<10	10	ug/L	11/11/03	JMF	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	11/11/03	JMF	EPA-200.8/6020
Iron, Total	<20	20	ug/L	11/10/03	KLVM	EPA-200.7/6010B
Manganese, Total	<10	10	ug/L	11/11/03	JMF	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	11/11/03	JMF	EPA-200.8/6020
Calcium, Dissolved	14	0.50	mg/L	11/07/03	JMF	EPA-200.7/6010B
Potassium, Dissolved	0.50	0.50	mg/L	11/10/03	JMF	EPA-200.7/6010B
Magnesium, Dissolved	2.0	0.50	mg/L	11/07/03	JMF	EPA-200.7/6010B
Sodium, Dissolved	0.84	0.50	mg/L	11/10/03	JMF	EPA-200.7/6010B

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/29/03 @ 10:00
Sampler: D.W.
Received: 10/29/03 @ 08:40

Submittal #: **36162-7**
Submittal: 10/28-29/03 Samples

Sample ID: **CR004**
Sample #: **347836**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Chloride	1.0	1.0	mg/L	11/04/03	JLB	325.2/4500-CL E
Nitrogen, Nitrate	<0.05	0.05	mg/L	10/30/03	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	10/30/03	HLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	11/04/03	GEH	350.1/4500 NH3G
Sulfate	<5.0	5.0	mg/L	11/04/03	JLB	EPA-375.4/9038
Alkalinity, Bicarbonate	60	2.0	mg/L	10/31/03	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	10/31/03	VAS	310.1/SM 2320 B
Alkalinity, Total	60	2.0	mg/L	10/31/03	VAS	310.1/SM 2320 B
Hardness, (EDTA) as CaCO3	70	2.0	mg/L	10/31/03	JMJ	130.2/SM 2340 C
BOD, (5-Day)	1.5	1.0	mg/L	10/30/03	TAM	SDM 5210B
Chemical Oxygen Demand	<5.0	5.0	mg/L	10/31/03	JMJ	410.4/SM 5220 D
Color (Apparent)	25	5	A.C.U.	10/30/03	HLB	USEPA-110.2
Turbidity	1.4	1.0	NTU	10/30/03	HLB	USEPA-180.1
* Residue, Suspended	<5	5	mg/L	11/03/03	GEH	160.2/SM 2540 D
Residue,Dissolved @ 180*C	88	50	mg/L	11/03/03	GEH	160.1/SM 2540 C
* Carbon, Total Organic	4.2	1.0	mg/L	11/04/03	GEH	4151/5310D/9060
Arsenic, Total	1.3	1.0	ug/L	11/11/03	JMF	EPA-200.8/6020
Barium, Total	11	10	ug/L	11/11/03	JMF	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	11/11/03	JMF	EPA-200.8/6020
Iron, Total	130	20	ug/L	11/10/03	KLVM	EPA-200.7/6010B
Manganese, Total	119	10	ug/L	11/11/03	JMF	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	11/11/03	JMF	EPA-200.8/6020
Calcium, Dissolved	19	0.50	mg/L	11/07/03	JMF	EPA-200.7/6010B
Potassium, Dissolved	0.55	0.50	mg/L	11/10/03	JMF	EPA-200.7/6010B
Magnesium, Dissolved	3.3	0.50	mg/L	11/07/03	JMF	EPA-200.7/6010B
Sodium, Dissolved	1.3	0.50	mg/L	11/10/03	JMF	EPA-200.7/6010B

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End of Analytical Report

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Bicarbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/31/03	208765	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/31/03	208765	VAS	238	246	103	93-105

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Carbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/31/03	208765	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/31/03	208765	VAS	377	331	88	81-107

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Total**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/31/03	208765	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/31/03	208765	VAS	238	246	103	92-105

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/10/03	209105	KLVM	<200

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/10/03	209153	DWJ	<1.0
11/11/03	209147	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/10/03	209153	DWJ	40	40.8	102	90-110
11/11/03	209147	JMF	40	42.4	106	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/10/03	90609	DWJ	<1.0
11/10/03	90797	MSG	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/10/03	90609	DWJ	25	23.6	94	88-118
11/10/03	90797	MSG	25	24.8	99	88-118

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/07/03	209062	JMF	<10
11/10/03	209105	KLVM	<10

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/10/03	209153	DWJ	<1.0
11/11/03	209147	JMF	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/10/03	209153	DWJ	40	40.5	101	90-110
11/11/03	209147	JMF	40	41.9	105	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/10/03	90609	DWJ	<10
11/11/03	90797	JMF	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/10/03	90609	DWJ	25	24.9	100	86-119
11/11/03	90797	JMF	25	25.0	100	86-119

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QUALITY CONTROL REPORT

Parameter: **BOD, (5-Day)**
Method: Biochemical Oxygen Demand SDM 5210B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/29/03	208842	TAM	<1.0
10/30/03	208806	TAM	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/29/03	208842	TAM	198	198	100	85-116
10/30/03	208806	TAM	198	221	112	85-116

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QUALITY CONTROL REPORT

Parameter: **Carbon, Total Organic**
Method: Organic Carbon, Total 4151/5310D/9060 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/30/03	208882	GEH	<0.5
11/03/03	208960	GEH	<0.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/30/03	208882	GEH	25	26	104	90-110
11/03/03	208960	GEH	25	26	104	90-110

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QUALITY CONTROL REPORT

Parameter: **Chemical Oxygen Demand**
Method: Closed Reflux, Colorimetric Method 410.4/SM 5220 D WATER
Units: mg/L

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/31/03	90528	JMJ	<5.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/31/03	90528	JMJ	30	30	100	90-110

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QUALITY CONTROL REPORT

Parameter: **Chloride**
Method: Colorimetric, Automated Ferricyanide 325.2/4500-CL E WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/04/03	208769	JLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/04/03	208769	JLB	44	44.7	102	97-108

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QUALITY CONTROL REPORT

Parameter: Color (Apparent)
Method: Colorimetric, Platinum-Cobalt USEPA-110.2 WATER
Units: A.C.U.

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/29/03	208701	HLB	<5
10/30/03	208976	HLB	<5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/29/03	208701	HLB	25	25	100	80-120
10/30/03	208976	HLB	25	25	100	80-120

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/07/03	209062	JMF	<10
11/10/03	209105	KLVM	<10

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/10/03	209153	DWJ	<1.0
11/11/03	209144	JMF	<1.0
11/11/03	209147	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/11/03	209144	JMF	40	41.5	104	90-110
11/11/03	209147	JMF	40	42.3	106	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/11/03	90609	JMF	<1.0
11/11/03	90797	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/11/03	90609	JMF	25	27.9	112	86-123
11/11/03	90797	JMF	25	26.6	106	86-123

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QUALITY CONTROL REPORT

Parameter: **Hardness, (EDTA) as CaCO3**
Method: Hardness-Titrimetric, EDTA 130.2/SM 2340 C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/31/03	208570	JMJ	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/31/03	208570	JMJ	119	120	101	94-107

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QUALITY CONTROL REPORT

Parameter: **Iron, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/10/03	209105	KLVM	<20

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/10/03	209105	KLVM	500	517	103	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/10/03	90769	KLVM	<20
11/10/03	90770	KLVM	<20

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/10/03	90769	KLVM	250	247	99	83-118
11/10/03	90770	KLVM	250	265	106	83-118

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QUALITY CONTROL REPORT

Parameter: **Magnesium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/07/03	209062	JMF	<0.50
11/10/03	209105	KLVM	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/07/03	209062	JMF	5.0	4.98	100	90-110
11/10/03	209105	KLVM	5.0	5.21	104	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/10/03	90770	KLVM	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/10/03	90770	KLVM	12.5	13.1	105	87-115

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/10/03	209105	KLVM	<10

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/10/03	209153	DWJ	<1.0
11/11/03	209147	JMF	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/10/03	209153	DWJ	40	41.8	105	90-110
11/11/03	209147	JMF	40	39.7	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/10/03	90609	DWJ	<10
11/10/03	90797	MSG	<5.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/10/03	90609	DWJ	25	27.7	111	84-126
11/10/03	90797	MSG	25	25.6	102	84-126

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Individual sample results relate only to the sample tested.

QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/10/03	209105	KLVM	<10

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/10/03	209153	DWJ	<1.0
11/11/03	209147	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/10/03	209153	DWJ	40	39.7	99	90-110
11/11/03	209147	JMF	40	40.9	102	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/10/03	90609	DWJ	<1.0
11/11/03	90797	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/10/03	90609	DWJ	25	25.6	102	82-124
11/11/03	90797	JMF	25	25.1	100	82-124

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Ammonia**
Method: Colorimetric, Automated Phenate 350.1/4500 NH3G WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/04/03	208909	GEH	<0.01

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/04/03	208909	GEH	1.25	1.28	102	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrate**
Method: Colorimetric, Auto-Cadmium Reduction 353.2/4500 NO3F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/30/03	208794	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/30/03	208794	HLB	0.404	0.403	100	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrite**
Method: Colorimetric, Automated USEPA-353.2 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/30/03	208795	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/30/03	208795	HLB	0.50	0.50	100	90-110

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QUALITY CONTROL REPORT

Parameter: **Potassium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/10/03	209075	JMF	<0.10
11/10/03	209105	KLVM	<0.10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/10/03	209075	JMF	5.0	4.96	99	90-110
11/10/03	209105	KLVM	5.0	4.94	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/10/03	90770	KLVM	<0.10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/10/03	90770	KLVM	12.5	13.2	106	87-125

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QUALITY CONTROL REPORT

Parameter: **Residue,Dissolved @ 180*C**
Method: Residue-Gravimetric, Dried @ 180*C 160.1/SM 2540 C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/03/03	208803	GEH	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/03/03	208803	GEH	385.4	386	100	90-108

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QUALITY CONTROL REPORT

Parameter: **Residue, Suspended**
Method: Residue-Gravimetric, Dried @ 103-105*C 160.2/SM 2540 D WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/03/03	208804	GEH	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/03/03	208804	GEH	65.0	59	91	89-106

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QUALITY CONTROL REPORT

Parameter: **Sodium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/10/03	209075	JMF	<0.50
11/10/03	209105	KLVM	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/10/03	209075	JMF	5.0	4.97	99	90-110
11/10/03	209105	KLVM	5.0	5.21	104	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/10/03	90770	KLVM	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/10/03	90770	KLVM	12.5	13.0	104	86-117

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QUALITY CONTROL REPORT

Parameter: **Sulfate**
Method: Turbidimetric Method (Manual) EPA-375.4/9038 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/04/03	208768	JLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/04/03	208768	JLB	14	13.5	96	85-113

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QUALITY CONTROL REPORT

Parameter: **Turbidity**
Method: Nephelometric USEPA-180.1 WATER
Units: NTU

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/29/03	208975	HLB	<1.0
10/30/03	208974	HLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/29/03	208975	HLB	401	382	95	90-110
10/30/03	208974	HLB	401	384	96	90-110

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TriMatrix Laboratories, Inc.

5560 Corporate Exchange Court SE Grand Rapids, MI 49512
Phone (616) 975-4500 Fax (616) 942-7463
www.trimatrixlabs.com

Chain of Custody Record

COC No. 94840

Page ____ of ____

For Lab Use Only

Cart: 8
VOA Rack/Tray: NA
Receipt Log No.: 5-7
Project Chemist: JAF
Laboratory Project No.: 34162-7

Client Name: North Jackson Co.
Address: 420 Rail Street
Negaunee MI, 49866
Phone: (906) - 475-9739
Fax:

Project Name: Eagle
Client Project No. / P.O. No.:
Invoice To: ☐ Client ☑ Other (comments)
Contact/Report To: Dan Wiitala

Analyses Requested

Container Type (corresponds to Container Packing List)	A	C	B	C	B						
	1000 mL Plastic	500 mL Plastic	500 mL Plastic	40 mL Amber vial	500 mL Plastic						
Number of Containers Submitted	3	4	6	11	15						Total
1 CR002	2	1	1	3	1						8
2 CR004	2	1	1	3	1						8

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Sample Comments
	WS	347835	1 CR002		10-29	0845		X	wtr	
	1	347836	2 CR004		10-29	1000		X	wtr	
			3							
			4							
			5							
			6							
			7							
			8							
			9							
			10							

Sampled By (print): Dan Wiitala
Sampler's Signature:
Company: North Jackson

How Shipped? Hand Carrier FedEx
Tracking No. 7929 9800 3448

1. Relinquished By: Date: Time: 10-29-03 18:00
1. Received By: Date: Time:
2. Relinquished By: Date: Time:
2. Received By: Date: Time:
3. Relinquished By: Date: Time:
3. Received For Lab By: Date: Time:

Comments: Bill to Kennecott (cc: North Jackson)

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JAF 7/30/03 8:40

TriMatrix Laboratories, Inc.

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Phone (616) 975-4500 Fax (616) 942-7463
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Chain of Custody Record

COC No. 94843

Page 1 of 1

For Lab Use Only
Cart: 8
VOA Rack/Tray:
Receipt Log No.: 3-8
Project Chemist: JK
Laboratory Project No.: 34162-7

Client Name: North Jackson Co.
Address: 420 Rail Street
Negaunee MI, 49866
Phone (906) 475-9739
Fax:

Project Name: Eagle
Client Project No. / P.O. No.:
Invoice To: ☐ Client ☑ Other (comments)
Contact/Report To: Dan Wiitala

Analyses Requested

Container Type (corresponds to Container Packing List)	A	C	B	C	B						
	1000 mL plastic	500mL Plastic	500mL Plastic	40 mL Amber vial	500mL plastic						
Number of Containers Submitted	3	4	6	11	15						Total

PRESERVATIVES
A NONE pH-7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	3	4	6	11	15	Total	Sample Comments
62	WS	347756	1	STR001	#2	10-28-03	10:30		X	wtr	2	1	1	3	1	8	
		347757	2	STR002	TMC165 #1	10-28-03	08~~45~~35				2	1	1	3	1	8	
		347758	3	YDR001	#2	10-28-03	13:00				2	1	1	3	1	8	
		347759	4	YDR002	#2	10-28-03	12:00				2	1	1	3	1	8	
		347760	5	MH (Duplicate)	TMC165 #1	10-28-03	08:30				2	1	1	3	1	8	
	WS	347761	6	Field Blank	TMC165 #1	10-28-03	9:15				2	1	1	3	1	8	
			7														
			8														
			9														
			10														

Sampled By (print): Dan Wiitala
Sampler's Signature:
Company: North Jackson Co

How Shipped? Hand Carrier: FedEx
Tracking No.: 7929 9799 9350

Comments: Invoice to Kennecott (CC: North Jackson)
-2 coolers shipped.

1. Relinquished By	Date	Time
	10-28-03	17:00
1. Received By	Date	Time
2. Relinquished By	Date	Time
2. Received By	Date	Time
3. Relinquished By	Date	Time
3. Received For Lab By	Date	Time
Jeri Parker	10/29/03	8:40

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TriMatrix
Laboratories, Inc.

December 18, 2003

North Jackson Company
Attn: Mr. Peter Sabee
420 Rail Street
Negaunee, MI 49866

DEQ SPLITS
-Need electronic submittal

RE: Eagle
Submittal Number: 36162-8

Dear Mr. Peter Sabee:

Enclosed is a copy of your laboratory report for test samples received by our laboratory on December 5, 2003.

Please note that the test results of the enclosed analyses relate only to the sample(s) as received at the laboratory, and are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC) standards. Qualification of test standards, including sample acceptance requirements, are presented within the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosure(s)

The total number of pages in this report, including this page, is 41.

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Carbon, Total Organic**
Organic Carbon, Total
WATER 4151/5310D/9060

Qualification:

The analytical requirements of the method require quadruplicate analysis on every sample submitted for TOC testing. The reporting requirements require both the average and the range of the four analysis be reported. The result reported is the average; the range of the replicates is:

Explanation for Sample(s) listed below:

4.32 - 4.45

Sample(s) Qualified: 350962 STR002

Explanation for Sample(s) listed below:

9.11 - 9.32

Sample(s) Qualified: 350963 YDR002

Page 1 - **End of Statement of Data Qualifications**

Note: This document is included as a part of the analytical report for the above referenced project and submittal, and should be retained as a permanent record thereof.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: North Jackson Company
Project: Eagle

Sampled: 12/04/03 @ 09:30
Sampler: J. Meier
Received: 12/05/03 @ 08:30

Submittal #: 36162-8
Submittal: December 4, 2003 Samples

Sample ID: STR002
Sample #: 350962
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
*	Carbon, Total Organic	4.4	1.0	mg/L	12/08/03	GEH	4151/5310D/9060
	Chemical Oxygen Demand	12	5.0	mg/L	12/10/03	JMJ	410.4/SM 5220 D
	Nitrogen, Nitrate	0.09	0.05	mg/L	12/05/03	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	12/05/03	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	12/16/03	JLB	EPA-375.4/9038
	Chloride	1.1	1.0	mg/L	12/12/03	JLB	325.2/4500-CL E
	Alkalinity, Bicarbonate	30	2.0	mg/L	12/11/03	VAS	310.1/SM 2320 B
	Nitrogen, Ammonia	<0.05	0.05	mg/L	12/08/03	GEH	350.1/4500 NH3G
	Hardness, (EDTA) as CaCO3	22	2.0	mg/L	12/09/03	JMJ	130.2/SM 2340 C
	Nitrogen, Total Kjeldahl	<0.50	0.50	mg/L	12/10/03	GEH	USEPA-351.2
	Arsenic, Total	<1.0	1.0	ug/L	12/11/03	KLVM	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	12/11/03	KLVM	EPA-200.8/6020
	Cadmium, Total	<0.2	0.2	ug/L	12/11/03	KLVM	EPA-200.8/6020
	Chromium, Total	<1.0	1.0	ug/L	12/11/03	KLVM	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	12/11/03	KLVM	EPA-200.8/6020
	Lead, Total	<1.0	1.0	ug/L	12/11/03	KLVM	EPA-200.8/6020
	Selenium, Total	<2.0	2.0	ug/L	12/11/03	KLVM	EPA-200.8/6020
	Silver, Total	<0.2	0.2	ug/L	12/11/03	KLVM	EPA-200.8/6020
	Zinc, Total	145	10	ug/L	12/15/03	JMF	EPA-200.8/6020
	Mercury, Total	<0.2	0.2	ug/L	12/10/03	MSS	USEPA-245.1
	Iron, Total	220	20	ug/L	12/09/03	DWJ	EPA-200.7/6010B
	Cobalt, Total	<10	10	ug/L	12/11/03	KLVM	EPA-200.8/6020
	Lithium, Total	<20	20	ug/L	12/09/03	DWJ	EPA-200.7/6010B
	Manganese, Total	<10	10	ug/L	12/11/03	KLVM	EPA-200.8/6020
	Nickel, Total	<10	10	ug/L	12/11/03	KLVM	EPA-200.8/6020
	Calcium, Dissolved	9.3	0.50	mg/L	12/09/03	DWJ	EPA-200.7/6010B
	Magnesium, Dissolved	2.0	0.50	mg/L	12/09/03	DWJ	EPA-200.7/6010B
	Sodium, Dissolved	3.2	0.50	mg/L	12/09/03	MSG	EPA-200.7/6010B
	Potassium, Dissolved	0.67	0.50	mg/L	12/09/03	DWJ	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 12/04/03 @ 10:30
Sampler: J. Meier
Received: 12/05/03 @ 08:30

Submittal #: **36162-8**
Submittal: December 4, 2003 Samples

Sample ID: **YDR002**
Sample #: 350963
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
*	Carbon, Total Organic	9.2	1.0	mg/L	12/08/03	GEH	4151/5310D/9060
	Chemical Oxygen Demand	24	5.0	mg/L	12/10/03	JMJ	410.4/SM 5220 D
	Nitrogen, Nitrate	0.10	0.05	mg/L	12/05/03	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	12/05/03	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	12/16/03	JLB	EPA-375.4/9038
	Chloride	<1.0	1.0	mg/L	12/12/03	JLB	325.2/4500-CL E
	Alkalinity, Bicarbonate	23	2.0	mg/L	12/11/03	VAS	310.1/SM 2320 B
	Nitrogen, Ammonia	<0.05	0.05	mg/L	12/08/03	GEH	350.1/4500 NH3G
	Hardness, (EDTA) as CaCO3	34	2.0	mg/L	12/09/03	JMJ	130.2/SM 2340 C
	Nitrogen, Total Kjeldahl	<0.50	0.50	mg/L	12/10/03	GEH	USEPA-351.2
	Arsenic, Total	<1.0	1.0	ug/L	12/11/03	KLVM	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	12/11/03	KLVM	EPA-200.8/6020
	Cadmium, Total	<0.2	0.2	ug/L	12/11/03	KLVM	EPA-200.8/6020
	Chromium, Total	<1.0	1.0	ug/L	12/11/03	KLVM	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	12/11/03	KLVM	EPA-200.8/6020
	Lead, Total	<1.0	1.0	ug/L	12/11/03	KLVM	EPA-200.8/6020
	Selenium, Total	<2.0	2.0	ug/L	12/11/03	KLVM	EPA-200.8/6020
	Silver, Total	<0.2	0.2	ug/L	12/11/03	KLVM	EPA-200.8/6020
	Zinc, Total	24	10	ug/L	12/15/03	JMF	EPA-200.8/6020
	Mercury, Total	<0.2	0.2	ug/L	12/10/03	MSS	USEPA-245.1
	Iron, Total	510	20	ug/L	12/09/03	DWJ	EPA-200.7/6010B
	Cobalt, Total	<10	10	ug/L	12/11/03	KLVM	EPA-200.8/6020
	Lithium, Total	<20	20	ug/L	12/09/03	DWJ	EPA-200.7/6010B
	Manganese, Total	28	10	ug/L	12/11/03	KLVM	EPA-200.8/6020
	Nickel, Total	<10	10	ug/L	12/11/03	KLVM	EPA-200.8/6020
	Calcium, Dissolved	7.2	0.50	mg/L	12/09/03	DWJ	EPA-200.7/6010B
	Magnesium, Dissolved	1.6	0.50	mg/L	12/09/03	DWJ	EPA-200.7/6010B
	Sodium, Dissolved	1.7	0.50	mg/L	12/09/03	MSG	EPA-200.7/6010B
	Potassium, Dissolved	<0.50	0.50	mg/L	12/09/03	DWJ	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

End of Analytical Report

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Bicarbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/11/03	210567	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/11/03	210567	VAS	238	237	100	93-105

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/09/03	210427	MSG	<200

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/11/03	210529	KLVM	<1.0
12/15/03	210623	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/11/03	210529	KLVM	40	40.4	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
12/11/03	91709	KLVM	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/11/03	91709	KLVM	25	24.5	98	88-118

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/09/03	210427	MSG	<10

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/11/03	210529	KLVM	<10
12/15/03	210623	JMF	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/11/03	210529	KLVM	40	40.2	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
12/11/03	91709	KLVM	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/11/03	91709	KLVM	25	23.2	93	86-119

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QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/09/03	210427	MSG	<10

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QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/11/03	210529	KLVM	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/11/03	210529	KLVM	40	39.9	100	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
12/11/03	91709	KLVM	<0.2

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/11/03	91709	KLVM	25	22.6	90	86-119

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QUALITY CONTROL REPORT

Parameter: **Carbon, Total Organic**
Method: Organic Carbon, Total 4151/5310D/9060 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/08/03	210487	GEH	<0.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/08/03	210487	GEH	25	25	100	90-110

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QUALITY CONTROL REPORT

Parameter: **Chemical Oxygen Demand**
Method: Closed Reflux, Colorimetric Method 410.4/SM 5220 D WATER
Units: mg/L

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
12/10/03	91734	JMJ	<5.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/10/03	91734	JMJ	3.0	3.1	103	90-110

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QUALITY CONTROL REPORT

Parameter: **Chloride**
Method: Colorimetric, Automated Ferricyanide 325.2/4500-CL E WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/12/03	210542	JLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/12/03	210542	JLB	44	44	100	97-108

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QUALITY CONTROL REPORT

Parameter: **Chromium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/09/03	210427	MSG	<50

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QUALITY CONTROL REPORT

Parameter: Chromium, Total
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/11/03	210568	KLVM	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/11/03	210568	KLVM	40	39.6	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
12/11/03	91709	KLVM	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/11/03	91709	KLVM	25	26.7	107	84-122

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QUALITY CONTROL REPORT

Parameter: **Cobalt, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/11/03	210529	KLVM	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/11/03	210529	KLVM	40	40.2	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
12/11/03	91709	KLVM	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/11/03	91709	KLVM	25	26.5	106	80-125

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/09/03	210427	MSG	<10

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/11/03	210529	KLVM	<1.0
12/15/03	210623	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/11/03	210529	KLVM	40	39.4	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
12/11/03	91709	KLVM	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/11/03	91709	KLVM	25	25.5	102	86-123

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QUALITY CONTROL REPORT

Parameter: **Hardness, (EDTA) as CaCO3**
Method: Hardness-Titrimetric, EDTA 130.2/SM 2340 C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/09/03	210481	JMJ	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/09/03	210481	JMJ	120	120	100	94-107

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QUALITY CONTROL REPORT

Parameter: **Iron, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/09/03	210430	DWJ	<20

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/09/03	210430	DWJ	500	517	103	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
12/09/03	91664	DWJ	<20

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/09/03	91664	DWJ	250	236	94	83-118

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QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/09/03	210427	MSG	<50
12/09/03	210430	DWJ	<50

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QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/11/03	210529	KLVM	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/11/03	210529	KLVM	40	39.1	98	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
12/10/03	91709	KLVM	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/10/03	91709	KLVM	25	24.5	98	89-120

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QUALITY CONTROL REPORT

Parameter: **Lithium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/09/03	210430	DWJ	<20

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/09/03	210430	DWJ	500	514	103	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
12/09/03	91664	DWJ	<20

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/09/03	91664	DWJ	250	236	94	86-115

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QUALITY CONTROL REPORT

Parameter: **Magnesium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/09/03	210430	DWJ	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/09/03	210430	DWJ	5.0	5.23	105	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
12/09/03	91664	DWJ	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/09/03	91664	DWJ	12.5	12.2	98	87-115

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/11/03	210529	KLVM	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/11/03	210529	KLVM	40	39.9	100	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
12/11/03	91709	KLVM	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/11/03	91709	KLVM	25	26.4	106	84-126

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QUALITY CONTROL REPORT

Parameter: **Mercury, Total**
Method: Cold Vapor, Mercury USEPA-7470A WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/10/03	210507	MSS	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/10/03	210507	MSS	3.0	2.89	96	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
12/10/03	91671	MSS	<0.2

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/10/03	91671	MSS	2.0	1.93	97	85-115

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/11/03	210529	KLVM	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/11/03	210529	KLVM	40	39.8	100	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
12/11/03	91709	KLVM	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/11/03	91709	KLVM	25	25.9	104	82-124

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Ammonia**
Method: Colorimetric, Automated Phenate 350.1/4500 NH3G WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/08/03	210466	GEH	<0.01

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/08/03	210466	GEH	1.25	1.36	109	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrate**
Method: Colorimetric, Auto-Cadmium Reduction 353.2/4500 NO3F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/05/03	210453	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/05/03	210453	HLB	0.404	0.401	99	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrite**
Method: Colorimetric, Automated USEPA-353.2 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/05/03	210457	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/05/03	210457	HLB	0.50	0.50	100	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Total Kjeldahl**
Method: Colorimetric, Semi-Automated USEPA-351.2 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/10/03	210664	GEH	<0.10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/10/03	210664	GEH	1.0	1.02	102	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
12/10/03	91834	GEH	<0.10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/10/03	91834	GEH	2.54	2.48	98	90-110

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QUALITY CONTROL REPORT

Parameter: **Potassium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/09/03	210430	DWJ	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/09/03	210430	DWJ	5.0	5.26	105	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
12/09/03	91664	DWJ	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/09/03	91664	DWJ	12.5	12.4	99	87-125

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QUALITY CONTROL REPORT

Parameter: **Selenium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/09/03	210427	MSG	<100

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QUALITY CONTROL REPORT

Parameter: **Selenium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/11/03	210529	KLVM	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/11/03	210529	KLVM	40	40.7	102	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
12/11/03	91709	KLVM	<2.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/11/03	91709	KLVM	25	23.5	94	79-120

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QUALITY CONTROL REPORT

Parameter: **Silver, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/09/03	210430	DWJ	<10

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QUALITY CONTROL REPORT

Parameter: **Silver, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/11/03	210529	KLVM	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/11/03	210529	KLVM	40	40.5	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
12/11/03	91709	KLVM	<0.2

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/11/03	91709	KLVM	25	23.9	96	86-117

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QUALITY CONTROL REPORT

Parameter: **Sodium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/09/03	210427	MSG	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/09/03	210427	MSG	5.0	5.09	102	90-110

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QUALITY CONTROL REPORT

Parameter: **Sulfate**
Method: Turbidimetric Method (Manual) EPA-375.4/9038 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/16/03	210683	JLB	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/16/03	210683	JLB	14	13.4	96	85-113

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QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/09/03	210427	MSG	<20

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QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/11/03	210529	KLVM	<4.0
12/15/03	210623	JMF	<4.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/15/03	210623	JMF	40	40.6	102	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
12/15/03	91709	JMF	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/15/03	91709	JMF	25	25.3	101	87-124

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www.trimatrixlabs.com

Chain of Custody Record

COC No. 097514

Page 1 of 1

For Lab Use Only
Cart: 7
VOA Rack/Tray:
Receipt Log No.: 11-2
Project Chemist: JM
Laboratory Project No.: 3c1602-8

Client Name: North Jackson
Address: P.O. Box 30
Negaunee MI. 49866
Phone: (906) 475-7865
Fax:

Project Name: SAGLE
Client Project No. / P.O. No.:
Invoice To: ☐ Client ☒ Other (comments)
Contact/Report To: Dan Witka

Analyses Requested

Major Anions (HCO3, SO4, Cl)
TOC
Color, Nitrate
Total Metals
Dissolved Metals
Ammonia, TKN
Hardness

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List)	Number of Containers Submitted					Total	Sample Comments
										11	3	6	15	1			
GS	WS	350962	1 STR002	TMOS13	12-4	9:30		X	Water	3	1	1	1	1			Call Dan Witka 906.475. 7865 w/ questions
1	1	350963	2 GDR002	↓	12-4	10:30		X	Water	3	1	1	1	1			
			3														
			4														
			5														
			6														
			7														
			8														
			9														
			10														

Sampled By (print): JOHN G. MEIER
Sampler's Signature: John G Meier
Company: North Jackson

How Shipped? Hand Carrier Fed Ex
Tracking No. 7909 8001 4359

1. Relinquished By: X [signature] Date: 12-4-03 Time: 16:00
1. Received By: Date: Time:

2. Relinquished By: Date: Time:
2. Received By: Date: Time:

3. Relinquished By: Date: Time:
3. Received For Lab By: [signature] Date: 12/5/03 Time: 8:30

Comments
Total Metal = 1 As, 2 Ba, 3 Cd, 4 Cr, 5 Cu, 6 Pb, 7 Se, 8 Ag, 9 Zn, 10 Hg, 11 Fe, 12 Co, 13 Li, 14 Mn, 15 Ni
Dissolved Metals = Ca, Mg, Na, K

TriMatrixCOC -- COC WHITE COPY - REPORT YELLOW COPY - LABORATORY PINK COPY - FIELD

March 9, 2004

North Jackson Company
Attn: Mr. Peter Sabee
420 Rail Street
Negaunee, MI 49866

RE: Eagle
Submittal Number: 36162-9

Dear Mr. Peter Sabee:

Enclosed is a copy of your laboratory report for test samples received by our laboratory on February 25, 2004.

Please note that the test results of the enclosed analyses relate only to the sample(s) as received at the laboratory, and are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC) standards. Qualification of test standards, including sample acceptance requirements, are presented within the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosure(s)

The total number of pages in this report, including this page, is 61.

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36162- 9

STATEMENT OF DATA QUALIFICATIONS

Analysis: **Carbon, Total Organic**
Organic Carbon, Total
WATER 4151/5310D/9060

Qualification:

The analytical requirements of the method require quadruplicate analysis on every sample submitted for TOC testing. The reporting requirements require both the average and the range of the four analysis be reported. The result reported is the average; the range of the replicates is:

Explanation for Sample(s) listed below:

0.63 - 0.67

Sample(s) Qualified:	355366	CDRAS002	EAG-	1001049

Explanation for Sample(s) listed below:

1.71 - 1.84

Sample(s) Qualified:	355371	STRES001	EAG-	1001053

Explanation for Sample(s) listed below:

2.36 - 2.42

Sample(s) Qualified:	355370	STRMS003	EAG-	1001052

Explanation for Sample(s) listed below:

2.40 - 2.44

Sample(s) Qualified:	355365	CDRMS004	EAG-	1001048

Note: This document is included as a part of the analytical report for the above referenced project and submittal, and should be retained as a permanent record thereof.

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Carbon, Total Organic**
Organic Carbon, Total
WATER 4151/5310D/9060

Qualification:

The analytical requirements of the method require quadruplicate analysis on every sample submitted for TOC testing. The reporting requirements require both the average and the range of the four analysis be reported. The result reported is the average; the range of the replicates is:

Explanation for Sample(s) listed below:

3.20 - 3.29

Sample(s) Qualified: 355013 STRMS002

Explanation for Sample(s) listed below:

3.48 - 3.58

Sample(s) Qualified: 355369 DUP001 EAG- 1001054

Explanation for Sample(s) listed below:

3.53 - 3.57

Sample(s) Qualified: 355368 STRWS001 EAG- 1001051

Explanation for Sample(s) listed below:

4.14 - 4.22

Sample(s) Qualified: 355014 STRMS001

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Carbon, Total Organic**
Organic Carbon, Total
WATER 4151/5310D/9060

Qualification:

The analytical requirements of the method require quadruplicate analysis on every sample submitted for TOC testing. The reporting requirements require both the average and the range of the four analysis be reported. The result reported is the average; the range of the replicates is:

Explanation for Sample(s) listed below:

6.23 - 6.38

Sample(s) Qualified: 355012 YDRMS002

Explanation for Sample(s) listed below:

6.29 - 6.37

Sample(s) Qualified: 355011 YDRMS001

Explanation for Sample(s) listed below:

7.96 - 8.69

Sample(s) Qualified: 355067 YDRMS003

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36162- 9

CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

4.89

Sample(s) Narrated: 355367 TBK001 EAG- 1001050

Explanation for Sample(s) listed below:

6.48

Sample(s) Narrated: 355014 STRMS001

Explanation for Sample(s) listed below:

7.00

Sample(s) Narrated: 355369 DUP001 EAG- 1001054

Explanation for Sample(s) listed below:

7.04

Sample(s) Narrated: 355370 STRMS003 EAG- 1001052

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CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-**Cobalt**
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

7.07

Sample(s) Narrated: 355368 STRWS001 **EAG-** 1001051

Explanation for Sample(s) listed below:

7.08

Sample(s) Narrated: 355012 YDRMS002

Explanation for Sample(s) listed below:

7.11

Sample(s) Narrated: 355366 CDRAS002 **EAG-** 1001049

Explanation for Sample(s) listed below:

7.15

Sample(s) Narrated: 355013 STRMS002

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CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

7.16

Sample(s) Narrated: 355011 YDRMS001

Explanation for Sample(s) listed below:

7.17

Sample(s) Narrated: 355067 YDRMS003

Explanation for Sample(s) listed below:

7.23

Sample(s) Narrated: 355365 CDRMS004 EAG- 1001048

Explanation for Sample(s) listed below:

7.30

Sample(s) Narrated: 355371 STRES001 EAG- 1001053

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CASE NARRATIVE

Analysis: **Nickel, Total**
ICP Mass Spectrometry (ICP-MS)
WATER EPA-200.8/6020

Narrative:

The quantitated values of the isotopes monitored for this analyte exceeded a difference of 25%. The lower of the two values has been reported.

Sample(s) Narrated:	355365	CDRMS004	EAG-	1001048
	355369	DUP001	EAG-	1001054

Analysis: **BOD, (5-Day)**
Biochemical Oxygen Demand
WATER SDM 5210B

Narrative:

The reported Biochemical Oxygen Demand result for this sample was calculated on an oxygen depletion of <2.0 mg/l

Sample(s) Narrated:	355365	CDRMS004	EAG-	1001048
	355366	CDRAS002	EAG-	1001049
	355368	STRWS001	EAG-	1001051

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/18/04 @ 12:05
Sampler: P. Sabee
Received: 02/19/04 @ 08:55

Submittal #: **36162-9**
Submittal: February 2004 Samples

Sample ID: **YDRMS001**
Sample #: **355011**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Chloride	<1.0	1.0	mg/L	02/24/04	JLB	325.2/4500-CL E
	Nitrogen, Nitrate	0.12	0.05	mg/L	02/19/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	02/19/04	HLB	USEPA-353.2
	Nitrogen, Ammonia	<0.05	0.05	mg/L	02/24/04	GEH	350.1/4500 NH3G
	Sulfate	8.1	5.0	mg/L	02/24/04	JLB	EPA-375.4/9038
	Alkalinity, Bicarbonate	38	2.0	mg/L	02/20/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	02/20/04	VAS	310.1/SM 2320 B
	Alkalinity, Total	38	2.0	mg/L	02/20/04	VAS	310.1/SM 2320 B
	BOD, (5-Day)	<1.0	1.0	mg/L	02/19/04	TAM	SDM 5210B
	Chemical Oxygen Demand	15	5.0	mg/L	02/24/04	JMJ	410.4/SM 5220 D
	Color (Apparent)	60	5	A.C.U.	02/19/04	GEH	USEPA-110.2
	Turbidity	1.6	1.0	NTU	02/19/04	HLB	USEPA-180.1
	Residue, Suspended	<3	3	mg/L	02/20/04	INR	160.2/SM 2540 D
	Residue,Dissolved @ 180*C	66	50	mg/L	02/20/04	INR	160.1/SM 2540 C
*	Carbon, Total Organic	6.3	1.0	mg/L	02/23/04	GEH	4151/5310D/9060
	Arsenic, Total	<1.0	1.0	ug/L	03/02/04	DSC	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	03/02/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	03/02/04	DSC	EPA-200.8/6020
	Iron, Total	490	20	ug/L	02/25/04	JMF	EPA-200.7/6010B
	Manganese, Total	32	10	ug/L	03/02/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	03/02/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	9.2	0.50	mg/L	03/01/04	KLVM	EPA-200.7/6010B
	Potassium, Dissolved	<0.50	0.50	mg/L	03/01/04	KLVM	EPA-200.7/6010B
	Magnesium, Dissolved	2.0	0.50	mg/L	03/01/04	KLVM	EPA-200.7/6010B
	Sodium, Dissolved	0.88	0.50	mg/L	03/01/04	KLVM	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/18/04 @ 10:45
Sampler: P. Sabee
Received: 02/19/04 @ 08:55

Submittal #: **36162-9**
Submittal: February 2004 Samples

Sample ID: **YDRMS002**
Sample #: **355012**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Chloride	1.5	1.0	mg/L	02/24/04	JLB	325.2/4500-CL E
	Nitrogen, Nitrate	0.11	0.05	mg/L	02/19/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	02/19/04	HLB	USEPA-353.2
	Nitrogen, Ammonia	<0.05	0.05	mg/L	02/24/04	GEH	350.1/4500 NH3G
	Sulfate	<5.0	5.0	mg/L	02/24/04	JLB	EPA-375.4/9038
	Alkalinity, Bicarbonate	40	2.0	mg/L	02/20/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	02/20/04	VAS	310.1/SM 2320 B
	Alkalinity, Total	40	2.0	mg/L	02/20/04	VAS	310.1/SM 2320 B
	BOD, (5-Day)	<1.0	1.0	mg/L	02/19/04	TAM	SDM 5210B
	Chemical Oxygen Demand	16	5.0	mg/L	02/24/04	JMJ	410.4/SM 5220 D
	Color (Apparent)	60	5	A.C.U.	02/19/04	GEH	USEPA-110.2
	Turbidity	1.9	1.0	NTU	02/19/04	HLB	USEPA-180.1
	Residue, Suspended	<3	3	mg/L	02/20/04	INR	160.2/SM 2540 D
	Residue,Dissolved @ 180*C	84	50	mg/L	02/20/04	INR	160.1/SM 2540 C
*	Carbon, Total Organic	6.3	1.0	mg/L	02/24/04	GEH	4151/5310D/9060
	Arsenic, Total	<1.0	1.0	ug/L	03/02/04	DSC	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	03/02/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	03/02/04	DSC	EPA-200.8/6020
	Iron, Total	650	20	ug/L	02/25/04	JMF	EPA-200.7/6010B
	Manganese, Total	33	10	ug/L	03/02/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	03/02/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	9.7	0.50	mg/L	03/01/04	KLVM	EPA-200.7/6010B
	Potassium, Dissolved	<0.50	0.50	mg/L	03/02/04	JMF	EPA-200.7/6010B
	Magnesium, Dissolved	2.1	0.50	mg/L	03/01/04	KLVM	EPA-200.7/6010B
	Sodium, Dissolved	0.96	0.50	mg/L	03/02/04	JMF	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/18/04 @ 13:20
Sampler: P. Sabee
Received: 02/19/04 @ 08:55

Submittal #: **36162-9**
Submittal: February 2004 Samples

Sample ID: **STRMS002**
Sample #: **355013**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Chloride	<1.0	1.0	mg/L	02/24/04	JLB	325.2/4500-CL E
Nitrogen, Nitrate	0.12	0.05	mg/L	02/19/04	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	02/19/04	HLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	02/24/04	GEH	350.1/4500 NH3G
Sulfate	<5.0	5.0	mg/L	02/24/04	JLB	EPA-375.4/9038
Alkalinity, Bicarbonate	33	2.0	mg/L	02/20/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	02/20/04	VAS	310.1/SM 2320 B
Alkalinity, Total	33	2.0	mg/L	02/20/04	VAS	310.1/SM 2320 B
BOD, (5-Day)	<1.0	1.0	mg/L	02/19/04	TAM	SDM 5210B
Chemical Oxygen Demand	8.6	5.0	mg/L	02/24/04	JMJ	410.4/SM 5220 D
Color (Apparent)	35	5	A.C.U.	02/19/04	GEH	USEPA-110.2
Turbidity	<1.0	1.0	NTU	02/19/04	HLB	USEPA-180.1
Residue, Suspended	<3	3	mg/L	02/20/04	INR	160.2/SM 2540 D
Residue,Dissolved @ 180*C	60	50	mg/L	02/20/04	INR	160.1/SM 2540 C
* Carbon, Total Organic	3.2	1.0	mg/L	02/24/04	GEH	4151/5310D/9060
Arsenic, Total	<1.0	1.0	ug/L	03/02/04	DSC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	03/02/04	DSC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	03/02/04	DSC	EPA-200.8/6020
Iron, Total	180	20	ug/L	02/25/04	JMF	EPA-200.7/6010B
Manganese, Total	10	10	ug/L	03/02/04	DSC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	03/02/04	DSC	EPA-200.8/6020
Calcium, Dissolved	8.7	0.50	mg/L	03/01/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.64	0.50	mg/L	03/02/04	JMF	EPA-200.7/6010B
Magnesium, Dissolved	1.8	0.50	mg/L	03/01/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	0.92	0.50	mg/L	03/02/04	JMF	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/18/04 @ 14:10
Sampler: P. Sabee
Received: 02/19/04 @ 08:55

Submittal #: **36162-9**
Submittal: February 2004 Samples

Sample ID: **STRMS001**
Sample #: **355014**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Chloride	<1.0	1.0	mg/L	02/24/04	JLB	325.2/4500-CL E
	Nitrogen, Nitrate	<0.05	0.05	mg/L	02/19/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	02/19/04	HLB	USEPA-353.2
	Nitrogen, Ammonia	<0.05	0.05	mg/L	02/24/04	GEH	350.1/4500 NH3G
	Sulfate	<5.0	5.0	mg/L	02/24/04	JLB	EPA-375.4/9038
	Alkalinity, Bicarbonate	19	2.0	mg/L	02/20/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	02/20/04	VAS	310.1/SM 2320 B
	Alkalinity, Total	19	2.0	mg/L	02/20/04	VAS	310.1/SM 2320 B
	BOD, (5-Day)	<1.0	1.0	mg/L	02/19/04	TAM	SDM 5210B
	Chemical Oxygen Demand	10	5.0	mg/L	02/24/04	JMJ	410.4/SM 5220 D
	Color (Apparent)	45	5	A.C.U.	02/19/04	GEH	USEPA-110.2
	Turbidity	2.5	1.0	NTU	02/19/04	HLB	USEPA-180.1
	Residue, Suspended	<3	3	mg/L	02/20/04	INR	160.2/SM 2540 D
	Residue,Dissolved @ 180*C	96	50	mg/L	02/20/04	INR	160.1/SM 2540 C
*	Carbon, Total Organic	4.2	1.0	mg/L	02/24/04	GEH	4151/5310D/9060
	Arsenic, Total	<1.0	1.0	ug/L	03/02/04	DSC	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	03/02/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	03/02/04	DSC	EPA-200.8/6020
	Iron, Total	390	20	ug/L	02/25/04	JMF	EPA-200.7/6010B
	Manganese, Total	21	10	ug/L	03/02/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	03/02/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	4.3	0.50	mg/L	03/01/04	KLVM	EPA-200.7/6010B
	Potassium, Dissolved	<0.50	0.50	mg/L	03/02/04	JMF	EPA-200.7/6010B
	Magnesium, Dissolved	1.0	0.50	mg/L	03/01/04	KLVM	EPA-200.7/6010B
	Sodium, Dissolved	0.71	0.50	mg/L	03/02/04	JMF	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/14/04 @ 08:45
Sampler: D.W.
Received: 02/19/04 @ 08:45

Submittal #: **36162-9**
Submittal: February 2004 Samples

Sample ID: **YDRMS003**
Sample #: **355067**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Chloride	<1.0	1.0	mg/L	02/24/04	JLB	325.2/4500-CL E
Nitrogen, Nitrate	0.13	0.05	mg/L	02/20/04	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	02/20/04	HLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	02/24/04	GEH	350.1/4500 NH3G
Sulfate	<5.0	5.0	mg/L	02/24/04	JLB	EPA-375.4/9038
Alkalinity, Bicarbonate	46	2.0	mg/L	02/26/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	02/26/04	VAS	310.1/SM 2320 B
Alkalinity, Total	46	2.0	mg/L	02/26/04	VAS	310.1/SM 2320 B
BOD, (5-Day)	<1.0	1.0	mg/L	02/20/04	TAM	SDM 5210B
Chemical Oxygen Demand	15	5.0	mg/L	02/24/04	JMJ	410.4/SM 5220 D
Color (Apparent)	55	5	A.C.U.	02/20/04	GEH	USEPA-110.2
Turbidity	<1.0	1.0	NTU	02/20/04	HLB	USEPA-180.1
Residue, Suspended	<3	3	mg/L	02/24/04	INR	160.2/SM 2540 D
Residue,Dissolved @ 180*C	54	20	mg/L	02/24/04	INR	160.1/SM 2540 C
* Carbon, Total Organic	8.3	1.0	mg/L	02/24/04	GEH	4151/5310D/9060
Arsenic, Total	<1.0	1.0	ug/L	03/02/04	DSC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	03/02/04	DSC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	03/02/04	DSC	EPA-200.8/6020
Iron, Total	230	20	ug/L	02/25/04	JMF	EPA-200.7/6010B
Manganese, Total	21	10	ug/L	03/02/04	DSC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	03/02/04	DSC	EPA-200.8/6020
Calcium, Dissolved	8.2	0.50	mg/L	03/01/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	03/02/04	JMF	EPA-200.7/6010B
Magnesium, Dissolved	1.9	0.50	mg/L	03/01/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	0.90	0.50	mg/L	03/02/04	JMF	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/24/04 @ 10:55
Sampler: D. Wiitala
Received: 02/25/04 @ 08:40

Submittal #: **36162-9**
Submittal: February 2004 Samples

Sample ID: **CDRMS004 EAG- 1001048**
Sample #: **355365**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Chloride	<1.0	1.0	mg/L	03/05/04	JLB	325.2/4500-CL E
Nitrogen, Nitrate	0.10	0.05	mg/L	02/25/04	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	02/25/04	HLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	02/26/04	GEH	350.1/4500 NH3G
Sulfate	5.1	5.0	mg/L	03/05/04	JLB	EPA-375.4/9038
Alkalinity, Bicarbonate	69	2.0	mg/L	02/26/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	02/26/04	VAS	310.1/SM 2320 B
Alkalinity, Total	69	2.0	mg/L	02/26/04	VAS	310.1/SM 2320 B
BOD, (5-Day)	2.2	1.0	mg/L	02/25/04	TAM	SDM 5210B
Chemical Oxygen Demand	5.8	5.0	mg/L	03/03/04	INR	410.4/SM 5220 D
Color (Apparent)	15	5	A.C.U.	02/25/04	GEH	USEPA-110.2
Turbidity	1.3	1.0	NTU	02/25/04	HLB	USEPA-180.1
Residue, Suspended	<3	3	mg/L	02/26/04	INR	160.2/SM 2540 D
Residue,Dissolved @ 180*C	42	20	mg/L	02/26/04	INR	160.1/SM 2540 C
* Carbon, Total Organic	2.4	1.0	mg/L	02/27/04	GEH	4151/5310D/9060
Arsenic, Total	1.3	1.0	ug/L	03/02/04	DSC	EPA-200.8/6020
Barium, Total	11	10	ug/L	03/02/04	DSC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	03/02/04	DSC	EPA-200.8/6020
Iron, Total	87	20	ug/L	03/01/04	JMF	EPA-200.7/6010B
Manganese, Total	12	10	ug/L	03/02/04	DSC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	03/02/04	DSC	EPA-200.8/6020
Calcium, Dissolved	19	0.50	mg/L	03/01/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.52	0.50	mg/L	03/02/04	JMF	EPA-200.7/6010B
Magnesium, Dissolved	3.3	0.50	mg/L	03/01/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	1.2	0.50	mg/L	03/02/04	JMF	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/24/04 @ 11:50
Sampler: D. Wiitala
Received: 02/25/04 @ 08:40

Submittal #: **36162-9**
Submittal: February 2004 Samples

Sample ID: **CDRAS002 EAG- 1001049**
Sample #: **355366**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Chloride	<1.0	1.0	mg/L	03/05/04	JLB	325.2/4500-CL E
	Nitrogen, Nitrate	0.06	0.05	mg/L	02/25/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	02/25/04	HLB	USEPA-353.2
	Nitrogen, Ammonia	<0.05	0.05	mg/L	02/26/04	GEH	350.1/4500 NH3G
	Sulfate	<5.0	5.0	mg/L	03/05/04	JLB	EPA-375.4/9038
	Alkalinity, Bicarbonate	53	2.0	mg/L	02/26/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	02/26/04	VAS	310.1/SM 2320 B
	Alkalinity, Total	53	2.0	mg/L	02/26/04	VAS	310.1/SM 2320 B
	BOD, (5-Day)	1.3	1.0	mg/L	02/25/04	TAM	SDM 5210B
	Chemical Oxygen Demand	<5.0	5.0	mg/L	03/03/04	INR	410.4/SM 5220 D
	Color (Apparent)	5	5	A.C.U.	02/25/04	GEH	USEPA-110.2
	Turbidity	<1.0	1.0	NTU	02/25/04	HLB	USEPA-180.1
	Residue, Suspended	<3	3	mg/L	02/26/04	INR	160.2/SM 2540 D
	Residue,Dissolved @ 180*C	35	20	mg/L	02/26/04	INR	160.1/SM 2540 C
*	Carbon, Total Organic	<1.0	1.0	mg/L	02/27/04	GEH	4151/5310D/9060
	Arsenic, Total	<1.0	1.0	ug/L	03/02/04	DSC	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	03/02/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	03/02/04	DSC	EPA-200.8/6020
	Iron, Total	30	20	ug/L	03/01/04	JMF	EPA-200.7/6010B
	Manganese, Total	<10	10	ug/L	03/02/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	03/02/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	14	0.50	mg/L	03/01/04	KLVM	EPA-200.7/6010B
	Potassium, Dissolved	<0.50	0.50	mg/L	03/02/04	JMF	EPA-200.7/6010B
	Magnesium, Dissolved	2.0	0.50	mg/L	03/01/04	KLVM	EPA-200.7/6010B
	Sodium, Dissolved	0.81	0.50	mg/L	03/02/04	JMF	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/24/04 @ 13:20
Sampler: D. Wiitala
Received: 02/25/04 @ 08:40

Submittal #: **36162-9**
Submittal: February 2004 Samples

Sample ID: **TBK001 EAG- 1001050**
Sample #: **355367**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Chloride	<1.0	1.0	mg/L	03/05/04	JLB	325.2/4500-CL E
Nitrogen, Nitrate	<0.05	0.05	mg/L	02/25/04	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	02/25/04	HLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	02/26/04	GEH	350.1/4500 NH3G
Sulfate	<5.0	5.0	mg/L	03/05/04	JLB	EPA-375.4/9038
Alkalinity, Bicarbonate	<2.0	2.0	mg/L	02/26/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	02/26/04	VAS	310.1/SM 2320 B
Alkalinity, Total	<2.0	2.0	mg/L	02/26/04	VAS	310.1/SM 2320 B
BOD, (5-Day)	<1.0	1.0	mg/L	02/25/04	TAM	SDM 5210B
Chemical Oxygen Demand	<5.0	5.0	mg/L	03/03/04	INR	410.4/SM 5220 D
Color (Apparent)	<5	5	A.C.U.	02/25/04	GEH	USEPA-110.2
Turbidity	<1.0	1.0	NTU	02/25/04	HLB	USEPA-180.1
Residue, Suspended	<3	3	mg/L	02/26/04	INR	160.2/SM 2540 D
Residue,Dissolved @ 180*C	<20	20	mg/L	02/26/04	INR	160.1/SM 2540 C
Arsenic, Total	<1.0	1.0	ug/L	03/02/04	DSC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	03/02/04	DSC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	03/02/04	DSC	EPA-200.8/6020
Iron, Total	<20	20	ug/L	03/01/04	JMF	EPA-200.7/6010B
Manganese, Total	<10	10	ug/L	03/02/04	DSC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	03/02/04	DSC	EPA-200.8/6020
Calcium, Dissolved	<0.50	0.50	mg/L	03/01/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	03/02/04	JMF	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	03/01/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	03/02/04	JMF	EPA-200.7/6010B

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/24/04 @ 15:18
Sampler: D. Wiitala
Received: 02/25/04 @ 08:40

Submittal #: **36162-9**
Submittal: February 2004 Samples

Sample ID: **STRWS001 EAG- 1001051**
Sample #: **355368**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Chloride	<1.0	1.0	mg/L	03/05/04	JLB	325.2/4500-CL E
	Nitrogen, Nitrate	0.10	0.05	mg/L	02/25/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	02/25/04	HLB	USEPA-353.2
	Nitrogen, Ammonia	<0.05	0.05	mg/L	02/26/04	GEH	350.1/4500 NH3G
	Sulfate	<5.0	5.0	mg/L	03/05/04	JLB	EPA-375.4/9038
	Alkalinity, Bicarbonate	63	2.0	mg/L	02/26/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	02/26/04	VAS	310.1/SM 2320 B
	Alkalinity, Total	63	2.0	mg/L	02/26/04	VAS	310.1/SM 2320 B
	BOD, (5-Day)	1.3	1.0	mg/L	02/25/04	TAM	SDM 5210B
	Chemical Oxygen Demand	10	5.0	mg/L	03/03/04	INR	410.4/SM 5220 D
	Color (Apparent)	25	5	A.C.U.	02/25/04	GEH	USEPA-110.2
	Turbidity	1.9	1.0	NTU	02/25/04	HLB	USEPA-180.1
	Residue, Suspended	6	3	mg/L	02/26/04	INR	160.2/SM 2540 D
	Residue,Dissolved @ 180*C	68	20	mg/L	02/26/04	INR	160.1/SM 2540 C
*	Carbon, Total Organic	3.5	1.0	mg/L	02/27/04	GEH	4151/5310D/9060
	Arsenic, Total	<1.0	1.0	ug/L	03/02/04	DSC	EPA-200.8/6020
	Barium, Total	12	10	ug/L	03/02/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	03/02/04	DSC	EPA-200.8/6020
	Iron, Total	270	20	ug/L	03/01/04	JMF	EPA-200.7/6010B
	Manganese, Total	34	10	ug/L	03/02/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	03/02/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	17	0.50	mg/L	03/01/04	KLVM	EPA-200.7/6010B
	Potassium, Dissolved	0.68	0.50	mg/L	03/02/04	JMF	EPA-200.7/6010B
	Magnesium, Dissolved	2.9	0.50	mg/L	03/01/04	KLVM	EPA-200.7/6010B
	Sodium, Dissolved	1.3	0.50	mg/L	03/02/04	JMF	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/24/04 @ 00:00
Sampler: D. Wiitala
Received: 02/25/04 @ 08:40

Submittal #: **36162-9**
Submittal: February 2004 Samples

Sample ID: **DUP001 EAG- 1001054**
Sample #: **355369**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Chloride	<1.0	1.0	mg/L	03/05/04	JLB	325.2/4500-CL E
	Nitrogen, Nitrate	0.09	0.05	mg/L	02/25/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	02/25/04	HLB	USEPA-353.2
	Nitrogen, Ammonia	<0.05	0.05	mg/L	02/26/04	GEH	350.1/4500 NH3G
	Sulfate	<5.0	5.0	mg/L	03/05/04	JLB	EPA-375.4/9038
	Alkalinity, Bicarbonate	64	2.0	mg/L	02/26/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	02/26/04	VAS	310.1/SM 2320 B
	Alkalinity, Total	64	2.0	mg/L	02/26/04	VAS	310.1/SM 2320 B
	BOD, (5-Day)	<1.0	1.0	mg/L	02/25/04	TAM	SDM 5210B
	Chemical Oxygen Demand	9.5	5.0	mg/L	03/03/04	INR	410.4/SM 5220 D
	Color (Apparent)	30	5	A.C.U.	02/25/04	GEH	USEPA-110.2
	Turbidity	2.8	1.0	NTU	02/25/04	HLB	USEPA-180.1
	Residue, Suspended	4	3	mg/L	02/26/04	INR	160.2/SM 2540 D
	Residue,Dissolved @ 180*C	62	20	mg/L	02/26/04	INR	160.1/SM 2540 C
*	Carbon, Total Organic	3.5	1.0	mg/L	02/27/04	GEH	4151/5310D/9060
	Arsenic, Total	<1.0	1.0	ug/L	03/02/04	DSC	EPA-200.8/6020
	Barium, Total	14	10	ug/L	03/02/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	03/02/04	DSC	EPA-200.8/6020
	Iron, Total	410	20	ug/L	03/01/04	JMF	EPA-200.7/6010B
	Manganese, Total	67	10	ug/L	03/02/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	03/02/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	17	0.50	mg/L	03/01/04	KLVM	EPA-200.7/6010B
	Potassium, Dissolved	0.68	0.50	mg/L	03/02/04	JMF	EPA-200.7/6010B
	Magnesium, Dissolved	2.9	0.50	mg/L	03/01/04	KLVM	EPA-200.7/6010B
	Sodium, Dissolved	1.3	0.50	mg/L	03/02/04	JMF	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/24/04 @ 15:55
Sampler: D. Wiitala
Received: 02/25/04 @ 08:40

Submittal #: **36162-9**
Submittal: February 2004 Samples

Sample ID: **STRMS003 EAG- 1001052**
Sample #: **355370**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Chloride	<1.0	1.0	mg/L	03/05/04	JLB	325.2/4500-CL E
	Nitrogen, Nitrate	0.24	0.05	mg/L	02/25/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	02/25/04	HLB	USEPA-353.2
	Nitrogen, Ammonia	<0.05	0.05	mg/L	02/26/04	GEH	350.1/4500 NH3G
	Sulfate	<5.0	5.0	mg/L	03/05/04	JLB	EPA-375.4/9038
	Alkalinity, Bicarbonate	49	2.0	mg/L	02/26/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	02/26/04	VAS	310.1/SM 2320 B
	Alkalinity, Total	49	2.0	mg/L	02/26/04	VAS	310.1/SM 2320 B
	BOD, (5-Day)	<1.0	1.0	mg/L	02/25/04	TAM	SDM 5210B
	Chemical Oxygen Demand	7.8	5.0	mg/L	03/03/04	INR	410.4/SM 5220 D
	Color (Apparent)	30	5	A.C.U.	02/25/04	GEH	USEPA-110.2
	Turbidity	1.9	1.0	NTU	02/25/04	HLB	USEPA-180.1
	Residue, Suspended	3	3	mg/L	02/26/04	INR	160.2/SM 2540 D
	Residue,Dissolved @ 180*C	58	20	mg/L	02/26/04	INR	160.1/SM 2540 C
*	Carbon, Total Organic	2.4	1.0	mg/L	02/27/04	GEH	4151/5310D/9060
	Arsenic, Total	<1.0	1.0	ug/L	03/02/04	DSC	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	03/02/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	03/02/04	DSC	EPA-200.8/6020
	Iron, Total	180	20	ug/L	03/01/04	JMF	EPA-200.7/6010B
	Manganese, Total	11	10	ug/L	03/02/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	03/02/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	13	0.50	mg/L	03/01/04	KLVM	EPA-200.7/6010B
	Potassium, Dissolved	0.63	0.50	mg/L	03/02/04	JMF	EPA-200.7/6010B
	Magnesium, Dissolved	2.4	0.50	mg/L	03/01/04	KLVM	EPA-200.7/6010B
	Sodium, Dissolved	0.95	0.50	mg/L	03/02/04	JMF	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/24/04 @ 16:40
Sampler: D. Wiitala
Received: 02/25/04 @ 08:40

Submittal #: **36162-9**
Submittal: February 2004 Samples

Sample ID: **STRES001 EAG- 1001053**
Sample #: **355371**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Chloride	<1.0	1.0	mg/L	03/05/04	JLB	325.2/4500-CL E
Nitrogen, Nitrate	0.09	0.05	mg/L	02/25/04	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	02/25/04	HLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	02/26/04	GEH	350.1/4500 NH3G
Sulfate	<5.0	5.0	mg/L	03/05/04	JLB	EPA-375.4/9038
Alkalinity, Bicarbonate	69	2.0	mg/L	02/26/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	02/26/04	VAS	310.1/SM 2320 B
Alkalinity, Total	69	2.0	mg/L	02/26/04	VAS	310.1/SM 2320 B
BOD, (5-Day)	<1.0	1.0	mg/L	02/25/04	TAM	SDM 5210B
Chemical Oxygen Demand	5.5	5.0	mg/L	03/03/04	INR	410.4/SM 5220 D
Color (Apparent)	15	5	A.C.U.	02/25/04	GEH	USEPA-110.2
Turbidity	1.9	1.0	NTU	02/25/04	HLB	USEPA-180.1
Residue, Suspended	3	3	mg/L	02/26/04	INR	160.2/SM 2540 D
Residue,Dissolved @ 180*C	42	20	mg/L	02/26/04	INR	160.1/SM 2540 C
* Carbon, Total Organic	1.8	1.0	mg/L	02/27/04	GEH	4151/5310D/9060
Arsenic, Total	<1.0	1.0	ug/L	03/02/04	DSC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	03/02/04	DSC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	03/02/04	DSC	EPA-200.8/6020
Iron, Total	92	20	ug/L	03/01/04	JMF	EPA-200.7/6010B
Manganese, Total	11	10	ug/L	03/02/04	DSC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	03/02/04	DSC	EPA-200.8/6020
Calcium, Dissolved	18	0.50	mg/L	03/01/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.51	0.50	mg/L	03/02/04	JMF	EPA-200.7/6010B
Magnesium, Dissolved	3.8	0.50	mg/L	03/01/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	1.1	0.50	mg/L	03/02/04	JMF	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

End of Analytical Report

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Bicarbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/20/04	212773	VAS	<2.0
02/26/04	212991	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/20/04	212773	VAS	238	227	95	93-105
02/26/04	212991	VAS	238	247	104	93-105

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Carbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/20/04	212773	VAS	<2.0
02/26/04	212991	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/20/04	212773	VAS	377	318	84	81-107
02/26/04	212991	VAS	377	401	106	81-107

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Total**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/20/04	212773	VAS	<2.0
02/26/04	212991	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/20/04	212773	VAS	238	227	95	92-105
02/26/04	212991	VAS	238	247	104	92-105

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36162- 9

QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/25/04	212888	JMF	<200
03/01/04	213052	JMF	<200

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/02/04	213134	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/02/04	213134	DSC	40	41.4	104	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/02/04	93515	DSC	<1.0
03/02/04	93520	DSC	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/02/04	93515	DSC	25	23.0	92	88-118
03/02/04	93520	DSC	25	23.0	92	88-118

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/25/04	212888	JMF	<10

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/02/04	213134	DSC	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/02/04	213134	DSC	40	39.5	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/02/04	93515	DSC	<10
03/02/04	93520	DSC	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/02/04	93515	DSC	25	24.0	96	86-119
03/02/04	93520	DSC	25	24.7	99	86-119

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QUALITY CONTROL REPORT

Parameter: **BOD, (5-Day)**
Method: Biochemical Oxygen Demand SDM 5210B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/19/04	212904	TAM	<1.0
02/20/04	213025	TAM	<1.0
02/25/04	213153	TAM	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/19/04	212904	TAM	198	204	103	85-115
02/20/04	213025	TAM	198	215	109	85-115
02/25/04	213153	TAM	198	195	98	85-115

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QUALITY CONTROL REPORT

Parameter: **Carbon, Total Organic**
Method: Organic Carbon, Total 4151/5310D/9060 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/23/04	212901	GEH	<0.5
02/26/04	213059	GEH	<0.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/23/04	212901	GEH	25	26	104	90-110
02/26/04	213059	GEH	25	26	104	90-110

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QUALITY CONTROL REPORT

Parameter: **Chemical Oxygen Demand**
Method: Closed Reflux, Colorimetric Method 410.4/SM 5220 D WATER
Units: mg/L

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
02/24/04	93352	JMJ	<5.0
03/03/04	93502	INR	<5.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/24/04	93352	JMJ	30	31	103	90-110
03/03/04	93502	INR	30	32	107	90-110

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QUALITY CONTROL REPORT

Parameter: **Chloride**
Method: Colorimetric, Automated Ferricyanide 325.2/4500-CL E WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/24/04	212854	JLB	<1.0
03/05/04	213261	JLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/24/04	212854	JLB	43.5	44.8	103	94-109
03/05/04	213261	JLB	43.5	44.5	102	94-109

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QUALITY CONTROL REPORT

Parameter: **Color (Apparent)**
Method: Colorimetric, Platinum-Cobalt USEPA-110.2 **WATER**
Units: A.C.U.

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/19/04	212917	GEH	<5
02/20/04	212910	GEH	<5
02/25/04	213080	GEH	<5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/19/04	212917	GEH	50	50	100	80-120
02/20/04	212910	GEH	25	25	100	80-120
02/25/04	213080	GEH	50	50	100	80-120

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/02/04	213134	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/02/04	213134	DSC	40	41.0	103	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/02/04	93515	DSC	<1.0
03/02/04	93520	DSC	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/02/04	93515	DSC	25	24.1	96	86-123
03/02/04	93520	DSC	25	24.3	97	86-123

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QUALITY CONTROL REPORT

Parameter: **Iron, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/25/04	212888	JMF	<20
03/01/04	213052	JMF	<20
03/01/04	213081	KLVM	<20

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/25/04	212888	JMF	500	541	108	90-110
03/01/04	213052	JMF	500	545	109	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
02/25/04	93347	JMF	<20
02/25/04	93353	JMF	<20
03/01/04	93457	JMF	<20

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/25/04	93347	JMF	250	241	96	83-118
02/25/04	93353	JMF	250	235	94	83-118
03/01/04	93457	JMF	250	246	98	83-118

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QUALITY CONTROL REPORT

Parameter: **Magnesium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/25/04	212888	JMF	<0.50
03/01/04	213081	KLVM	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/01/04	213081	KLVM	5.0	4.69	94	90-110

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/25/04	212888	JMF	<10
03/01/04	213052	JMF	<10

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/02/04	213134	DSC	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/02/04	213134	DSC	40	43.5	109	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/02/04	93515	DSC	<10
03/02/04	93520	DSC	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/02/04	93515	DSC	25	26.5	106	84-126
03/02/04	93520	DSC	25	26.7	107	84-126

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/25/04	212888	JMF	<10
03/01/04	213052	JMF	<10

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/02/04	213134	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/02/04	213134	DSC	40	40.6	102	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/02/04	93515	DSC	<1.0
03/02/04	93520	DSC	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/02/04	93515	DSC	25	24.0	96	82-124
03/02/04	93520	DSC	25	23.7	95	82-124

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Ammonia**
Method: Colorimetric, Automated Phenate 350.1/4500 NH3G WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/24/04	212905	GEH	<0.05
02/26/04	213008	GEH	<0.01

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/24/04	212905	GEH	1.25	1.26	101	90-110
02/26/04	213008	GEH	1.25	1.24	99	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrate**
Method: Colorimetric, Auto-Cadmium Reduction 353.2/4500 NO3F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/19/04	212783	HLB	<0.05
02/20/04	212763	HLB	<0.05
02/25/04	213057	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/19/04	212783	HLB	0.404	0.440	109	90-110
02/20/04	212763	HLB	0.404	0.435	108	90-110
02/25/04	213057	HLB	0.404	0.428	106	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrite**
Method: Colorimetric, Automated USEPA-353.2 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/19/04	212784	HLB	<0.05
02/20/04	212764	HLB	<0.05
02/25/04	213058	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/19/04	212784	HLB	0.50	0.48	96	90-110
02/20/04	212764	HLB	0.50	0.46	92	90-110
02/25/04	213058	HLB	0.50	0.45	90	90-110

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QUALITY CONTROL REPORT

Parameter: **Potassium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/25/04	212888	JMF	<0.10
03/01/04	213081	KLVM	<0.10
03/02/04	213156	JMF	<0.10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/01/04	213081	KLVM	5.0	4.96	99	90-110
03/02/04	213156	JMF	5.0	4.85	97	90-110

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QUALITY CONTROL REPORT

Parameter: **Residue,Dissolved @ 180*C**
Method: Residue-Gravimetric, Dried @ 180*C **160.1/SM 2540 C WATER**
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/20/04	212885	INR	<2.5
02/24/04	212971	INR	<2.5
02/26/04	213165	INR	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/20/04	212885	INR	429.9	405	94	90-108
02/24/04	212971	INR	429.9	412	96	90-108
02/26/04	213165	INR	429.9	436	101	90-108

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QUALITY CONTROL REPORT

Parameter: **Residue, Suspended**
Method: Residue-Gravimetric, Dried @ 103-105*C 160.2/SM 2540 D WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/20/04	212909	INR	<2.5
02/24/04	212970	INR	<2.5
02/26/04	213084	INR	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/20/04	212909	INR	83.0	78	94	89-106
02/24/04	212970	INR	83.0	75	90	89-106
02/26/04	213084	INR	83.0	77	93	89-106

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QUALITY CONTROL REPORT

Parameter: **Sodium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/25/04	212888	JMF	<0.50
03/01/04	213081	KLVM	<0.50
03/02/04	213156	JMF	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/01/04	213081	KLVM	5.0	5.05	101	90-110
03/02/04	213156	JMF	5.0	4.99	100	90-110

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QUALITY CONTROL REPORT

Parameter: **Sulfate**
Method: Turbidimetric Method (Manual) EPA-375.4/9038 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/24/04	212840	JLB	<2.0
03/05/04	213281	JLB	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/24/04	212840	JLB	13.5	14.0	104	85-113
03/05/04	213281	JLB	13.5	13.5	100	85-113

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QUALITY CONTROL REPORT

Parameter: **Turbidity**
Method: Nephelometric USEPA-180.1 WATER
Units: NTU

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/19/04	212907	HLB	<1.0
02/20/04	212908	HLB	<1.0
02/25/04	213079	HLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/19/04	212907	HLB	402	394	98	90-110
02/20/04	212908	HLB	402	391	97	90-110
02/25/04	213079	HLB	402	390	97	90-110

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Chain of Custody Record

COC No. 098100

Page 1 of 1

For Lab Use Only
Cart: 5
VOA Rack/Tray:
Receipt Log No.: 39-1
Project Chemist: JK
Laboratory Project No.: 30162-9

Client Name: North Jackson Co
Address: 420 Rail St
Negaunee MI 49866
Phone: 906.475.9865
Fax: " " .0238

Project Name: Eagle
Client Project No. / P.O. No.:
Invoice To: ☐ Client ☒ Other (comments)
Contact/Report To: Dan Wittig

Analyses Requested

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List) A	B	C	Total	Sample Comments
										Number of Containers Submitted				
02	WS	05	1 CDRMS004 EAG-1001048	TM0671	2-24-04	1055		X	WTR	3	2	4	9	
		06	2 CDRAS002 EAG-1001049		2-24-04	1150		X	WTR	3	2	4	9	
		07	3 TBK001 EAG-1001050	↓	2-24-04	1320		X	WTR	3	2	1	6	NO 40mL vials
		08	4 STRWS001 EAG-1001051	TM0463	2-24-04	1518		X	WTR	3	2	4	9	
		09	5 DUP001 EAG-1001054	TM0463	2-24-04			X	WTR	3	2	4	9	
		10	6 STRMS003 EAG-1001052	TM0671	2-24-04	1555		X	WTR	3	2	4	9	
		11	7 STRES001 EAG-1001053	TM0463	2-24-04	1640		X	WTR	3	2	4	9	
			8											
			9											
			10											

Sampled By (print): Dan Wittig
Sampler's Signature:
Company: North Jackson Co

How Shipped? Hand Carrier FEDEX
Tracking No. 8409 6282 0243

1. Relinquished By: Date 2-24-04 Time 18:18
1. Received By: Date Time

2. Relinquished By: Date Time
2. Received By: Date Time

3. Relinquished By: Date Time
3. Received For Lab By: Date 2/25/04 Time 8:40

Comments: BILL TO Jackson Co, Cash

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Chain of Custody Record

COC No. 098098

Page 1 of 1

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Cart: 1
VOA Rack/Tray:
Receipt Log No.: 24-2
Project Chemist: JVC
Laboratory Project No.: 3a1602-9

Client Name: North Jackson Co
Address: P.O. Box 30, 420 Rail St Mi, Negaunee 49866
Phone: 906 475 9865
Fax:

Project Name: EAGLE
Client Project No. / P.O. No.:
Invoice To: ☐ Client ☑ Other (comments)
Contact/Report To: D. Wiitala

Analyses Requested

H_2SO_4 - 40mL

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Container Type (corresponds to Container Packing List): A B C D

	Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Number of Containers Submitted	Total	Sample Comments
1	09	WS	1	YDRMS001	TM04272-18-04	11	1205		X	Water	3 1 1 1 3		
2	1	1	2	YDRMS002		11	1045				3 1 1 1 3		
3				~~YDRMS003~~		11					3 1 1 1 3		
4	02	WS	13	STRMS002		11	1320				3 1 1 1 3		
5	1	1	14	STRMS001	↓	11	1410				3 1 1 1 3		
6													
7													
8													
9													
10													

Sampled By (print): Dan Wiitala Peter Sabee
Samplers Signature: Dan Wiito P. Sabee
Company: North Jackson Co.

How Shipped? Hand Carrier FEDEX
Tracking No. 8408 6287 0221

Comments: Invoice to Kennecott Exploration, Vancouver, CA

	Relinquished By	Date	Time	Received By	Date	Time
1	Dan Wiitala	4-16-04	18:25			
2						
3				3. Received For Lab By	Date	Time
					4/14/04	8:55

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Chain of Custody Record

COC No. 098099

Page 1 of 1

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Cart: 1
VOA Rack/Tray: 1
Receipt Log No.: 31-4
Project Chemist: JWC
Laboratory Project No.: 36162 9

Client Name: North Jackson Co
Address: 420 Rail St
Wequonee MI 49876
Phone: 906. 475. 2865 Fax: 2238
Project Name: Eagle
Client Project No. / P.O. No.:
Invoice To: ☐ Client ☑ ~~Other~~ (comments)
Contact/Report To: Dan Wintala

Analyses Requested

Container Type (corresponds to Container Packing List): A B C 3 4 6 15 11

Number of Containers Submitted: 3 2 4 3 1 1 1 3

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

	Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Total	Sample Comments
1			02WS355067	EYDRMS003		2/19/04			X	WW		
2												
3												
4												
5												
6												
7												
8												
9												
10												

Sampled By (print): Dan Wintala/Ross Pickell
Sampler's Signature: Dan Wintala Ross Pickell
Company: North Jackson Co

~~How~~ Shipped? Hand Carrier FedEx
Tracking No.: 8708 6287 0232

Comments: Bill to Kennecott, Canada

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
Dan Wintala	2-19-04	18:30						
1. Received By	**Date**	**Time**	**2. Received By**	**Date**	**Time**	**3. Received For Lab By**	**Date**	**Time**
						[illegible]	02/20/04	08:45

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April 15, 2004

North Jackson Company
Attn: Mr. Peter Sabee
420 Rail Street
Negaunee, MI 49866

RE: Eagle
Submittal Number: 36162-10

Dear Mr. Peter Sabee:

Enclosed is a copy of your laboratory report for test samples received by our laboratory on April 1, 2004.

Please note that the test results of the enclosed analyses relate only to the sample(s) as received at the laboratory, and are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC) standards. Qualification of test standards, including sample acceptance requirements, are presented within the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosure(s)

The total number of pages in this report, including this page, is 41.

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36162- 10

STATEMENT OF DATA QUALIFICATIONS

All analyses have been validated and comply with our Quality Control Program. No qualifications required.

Page 1 - **End of Statement of Data Qualifications**

Note: This document is included as a part of the analytical report for the above referenced project and submittal, and should be retained as a permanent record thereof.

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TriMatrix
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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 03/31/04 @ 12:00
Sampler: P. Sabee
Received: 04/01/04 @ 08:40

Submittal #: **36162-10**
Submittal: March 2004 Samples

Sample ID: **WLDP021 EAG-100105 5**
Sample #: **357261**
Matrix: Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	8.3	2.0	mg/L	04/08/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	04/08/04	VAS	310.1/SM 2320 B
Chloride	1.1	1.0	mg/L	04/07/04	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	04/07/04	JLB	EPA-375.4/9038
Fluoride	0.11	0.10	mg/L	04/02/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	0.77	0.05	mg/L	04/02/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	66	50	mg/L	04/02/04	INR	160.1/SM 2540 C
Calcium, Dissolved	4.0	0.50	mg/L	04/07/04	DWJ	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	04/07/04	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	04/07/04	DWJ	EPA-200.7/6010B
Sodium, Dissolved	0.58	0.50	mg/L	04/07/04	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	360	100	ug/L	04/07/04	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	04/09/04	MSG	EPA-200.8/6020
Arsenic, Dissolved	9.4	2.0	ug/L	04/09/04	MSG	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	04/09/04	MSG	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	04/09/04	MSG	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	04/07/04	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	04/09/04	MSG	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	04/09/04	MSG	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	04/07/04	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	04/09/04	MSG	EPA-200.8/6020
Iron, Dissolved	1730	20	ug/L	04/07/04	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	04/07/04	DWJ	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	04/07/04	DWJ	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	04/09/04	MSG	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	04/09/04	MSG	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	04/09/04	MSG	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	04/09/04	MSG	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	04/09/04	MSG	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	04/09/04	MSG	EPA-200.8/6020

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Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 03/31/04 @ 14:10
Sampler: P. Sabee
Received: 04/01/04 @ 08:40

Submittal #: **36162-10**
Submittal: March 2004 Samples

Sample ID: **WLDP006 EAG-100105 6**
Sample #: **357262**
Matrix: Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	6.5	2.0	mg/L	04/08/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	04/08/04	VAS	310.1/SM 2320 B
Chloride	1.7	1.0	mg/L	04/07/04	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	04/07/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	04/02/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	04/02/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	50	50	mg/L	04/02/04	INR	160.1/SM 2540 C
Calcium, Dissolved	<0.50	0.50	mg/L	04/07/04	DWJ	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	04/07/04	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	04/07/04	DWJ	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	04/07/04	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	340	100	ug/L	04/07/04	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	04/07/04	MSG	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	04/07/04	MSG	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	04/07/04	MSG	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	04/08/04	MSG	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	04/09/04	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	04/07/04	MSG	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	04/07/04	MSG	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	04/07/04	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	04/07/04	MSG	EPA-200.8/6020
Iron, Dissolved	10400	20	ug/L	04/07/04	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	04/07/04	DWJ	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	04/07/04	DWJ	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	04/07/04	MSG	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	04/07/04	MSG	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	04/07/04	MSG	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	04/07/04	MSG	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	04/07/04	MSG	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	04/12/04	DSC	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 03/31/04 @ 14:40
Sampler: P. Sabee
Received: 04/01/04 @ 08:40

Submittal #: **36162-10**
Submittal: March 2004 Samples

Sample ID: **WLDP001 EAG-100105 8**
Sample #: **357263**
Matrix: Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	113	2.0	mg/L	04/08/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	04/08/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	04/07/04	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	04/07/04	JLB	EPA-375.4/9038
Fluoride	0.14	0.10	mg/L	04/02/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	04/02/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	82	50	mg/L	04/02/04	INR	160.1/SM 2540 C
Calcium, Dissolved	24	0.50	mg/L	04/07/04	DWJ	EPA-200.7/6010B
Potassium, Dissolved	0.82	0.50	mg/L	04/07/04	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	5.0	0.50	mg/L	04/07/04	DWJ	EPA-200.7/6010B
Sodium, Dissolved	1.0	0.50	mg/L	04/07/04	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	04/07/04	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	04/09/04	MSG	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	04/09/04	MSG	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	04/09/04	MSG	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	04/09/04	MSG	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	04/07/04	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	04/09/04	MSG	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	04/09/04	MSG	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	04/07/04	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	04/09/04	MSG	EPA-200.8/6020
Iron, Dissolved	1110	20	ug/L	04/07/04	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	04/07/04	DWJ	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	04/07/04	DWJ	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	04/09/04	MSG	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	04/09/04	MSG	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	04/09/04	MSG	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	04/09/04	MSG	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	04/09/04	MSG	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	04/09/04	MSG	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 03/31/04 @ 13:30
Sampler: P. Sabee
Received: 04/01/04 @ 08:40

Submittal #: **36162-10**
Submittal: March 2004 Samples

Sample ID: **WLDP016 EAG-100105 7**
Sample #: **357264**
Matrix: Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	76	2.0	mg/L	04/08/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	04/08/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	04/07/04	JLB	325.2/4500-CL E
Sulfate	6.2	5.0	mg/L	04/07/04	JLB	EPA-375.4/9038
Fluoride	0.11	0.10	mg/L	04/02/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	0.50	0.05	mg/L	04/02/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	54	50	mg/L	04/02/04	INR	160.1/SM 2540 C
Calcium, Dissolved	22	0.50	mg/L	04/07/04	DWJ	EPA-200.7/6010B
Potassium, Dissolved	0.97	0.50	mg/L	04/07/04	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	5.4	0.50	mg/L	04/07/04	DWJ	EPA-200.7/6010B
Sodium, Dissolved	1.0	0.50	mg/L	04/07/04	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	04/07/04	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	04/09/04	MSG	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	04/09/04	MSG	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	04/09/04	MSG	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	04/09/04	MSG	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	04/07/04	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	04/09/04	MSG	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	04/09/04	MSG	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	04/07/04	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	04/09/04	MSG	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	04/07/04	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	04/07/04	DWJ	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	04/07/04	DWJ	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	04/09/04	MSG	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	04/09/04	MSG	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	04/09/04	MSG	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	04/09/04	MSG	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	04/09/04	MSG	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	04/09/04	MSG	EPA-200.8/6020

End of Analytical Report

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Bicarbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/08/04	214454	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/08/04	214454	VAS	238	242	102	93-105

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Carbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/08/04	214454	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/08/04	214454	VAS	377	346	92	81-107

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QUALITY CONTROL REPORT

Parameter: **Aluminum, Total**
Method: Atomic Emission-ICP
Units: ug/L

EPA-200.7/6010B WATER

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/07/04	214347	DWJ	<100
04/07/04	214400	DWJ	<50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	214347	DWJ	2500	2562	102	90-110
04/07/04	214400	DWJ	2500	2483	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/07/04	94288	DWJ	<50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	94288	DWJ	1250	1259	101	86-120

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QUALITY CONTROL REPORT

Parameter: **Antimony, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/07/04	214374	MSG	<1.0
04/09/04	214442	MSG	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	214374	MSG	40	40.9	102	90-110
04/09/04	214442	MSG	40	37.1	93	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/07/04	94318	MSG	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	94318	MSG	25	25.9	104	85-127

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/07/04	214374	MSG	<1.0
04/09/04	214442	MSG	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	214374	MSG	40	41.4	104	90-110
04/09/04	214442	MSG	40	43.1	108	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/07/04	94318	MSG	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	94318	MSG	25	24.8	99	88-118

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/07/04	214400	DWJ	<10

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/07/04	214374	MSG	<10
04/09/04	214442	MSG	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	214374	MSG	40	39.8	100	90-110
04/09/04	214442	MSG	40	41.8	105	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/07/04	94318	MSG	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	94318	MSG	25	25.4	102	86-119

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QUALITY CONTROL REPORT

Parameter: **Beryllium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/08/04	214479	MSG	<1.0
04/09/04	214436	MSG	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/08/04	214479	MSG	40	41.8	105	90-110
04/09/04	214436	MSG	40	41.5	104	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/08/04	94318	MSG	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/08/04	94318	MSG	25	26.1	104	76-125

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QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/07/04	214374	MSG	<0.2
04/09/04	214442	MSG	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	214374	MSG	40	39.3	98	90-110
04/09/04	214442	MSG	40	41.1	103	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/07/04	94318	MSG	<0.2

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	94318	MSG	25	24.0	96	86-119

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QUALITY CONTROL REPORT

Parameter: **Chloride**
Method: Colorimetric, Automated Ferricyanide 325.2/4500-CL E WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/07/04	214357	JLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	214357	JLB	43.5	43.4	100	94-109

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QUALITY CONTROL REPORT

Parameter: **Chromium, Total**
Method: ICP Mass Spectrometry (ICP-MS) **EPA-200.8/6020 WATER**
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/07/04	214374	MSG	<1.0
04/09/04	214442	MSG	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	214374	MSG	40	40.8	102	90-110
04/09/04	214442	MSG	40	42.9	107	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/07/04	94318	MSG	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	94318	MSG	25	25.8	103	84-122

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QUALITY CONTROL REPORT

Parameter: **Cobalt, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/07/04	214347	DWJ	<10
04/07/04	214400	DWJ	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	214347	DWJ	500	501	100	90-110
04/07/04	214400	DWJ	500	488	98	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/07/04	94288	DWJ	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	94288	DWJ	250	250	100	84-117

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QUALITY CONTROL REPORT

Parameter: **Cobalt, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/07/04	214374	MSG	<10

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/07/04	214400	DWJ	<10

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/07/04	214374	MSG	<1.0
04/09/04	214442	MSG	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	214374	MSG	40	40.8	102	90-110
04/09/04	214442	MSG	40	42.6	107	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/07/04	94318	MSG	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	94318	MSG	25	25.0	100	86-123

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QUALITY CONTROL REPORT

Parameter: **Fluoride**
Method: Potentiometric, Ion Selective Electrode SM 4500 F-C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/02/04	214301	VAS	<0.10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/02/04	214301	VAS	0.68	0.61	90	88-116

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QUALITY CONTROL REPORT

Parameter: **Iron, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/07/04	214347	DWJ	<20
04/07/04	214400	DWJ	<20

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	214347	DWJ	500	492	98	90-110
04/07/04	214400	DWJ	500	478	96	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/07/04	94288	DWJ	<20

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	94288	DWJ	250	261	104	83-118

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QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: Atomic Emission-ICP
Units: ug/L

EPA-200.7/6010B WATER

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/07/04	214400	DWJ	<50

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QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/07/04	214374	MSG	<1.0
04/09/04	214442	MSG	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	214374	MSG	40	41.1	103	90-110
04/09/04	214442	MSG	40	41.4	104	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/07/04	94318	MSG	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	94318	MSG	25	25.1	100	89-119

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QUALITY CONTROL REPORT

Parameter: **Lithium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/07/04	214347	DWJ	<10
04/07/04	214400	DWJ	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	214347	DWJ	500	494	99	90-110
04/07/04	214400	DWJ	500	459	92	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/07/04	94288	DWJ	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	94288	DWJ	250	242	97	86-115

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QUALITY CONTROL REPORT

Parameter: **Magnesium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/07/04	214347	DWJ	<0.50
04/07/04	214400	DWJ	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	214347	DWJ	5.0	5.17	103	90-110
04/07/04	214400	DWJ	5.0	4.82	96	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/07/04	94288	DWJ	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	94288	DWJ	12.5	12.7	102	87-115

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/07/04	214347	DWJ	<10
04/07/04	214400	DWJ	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	214347	DWJ	500	502	100	90-110
04/07/04	214400	DWJ	500	476	95	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/07/04	94288	DWJ	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	94288	DWJ	250	254	102	83-118

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/08/04	214479	MSG	<5.0

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/07/04	214400	DWJ	<10

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/07/04	214374	MSG	<1.0
04/09/04	214442	MSG	<1.0
04/12/04	214494	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	214374	MSG	40	41.5	104	90-110
04/09/04	214442	MSG	40	43.4	109	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/07/04	94318	MSG	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	94318	MSG	25	25.3	101	82-124

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrate**
Method: Colorimetric, Auto-Cadmium Reduction 353.2/4500 NO3F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/02/04	214382	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/02/04	214382	HLB	0.404	0.436	108	90-110

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QUALITY CONTROL REPORT

Parameter: **Potassium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/07/04	214347	DWJ	<0.50
04/07/04	214400	DWJ	<0.10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	214347	DWJ	5.0	5.04	101	90-110
04/07/04	214400	DWJ	5.0	4.77	95	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/07/04	94288	DWJ	<0.10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	94288	DWJ	12.5	11.9	95	87-125

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QUALITY CONTROL REPORT

Parameter: **Residue,Dissolved @ 180*C**
Method: Residue-Gravimetric, Dried @ 180*C 160.1/SM 2540 C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/02/04	214297	INR	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/02/04	214297	INR	119.6	117	98	90-108

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QUALITY CONTROL REPORT

Parameter: **Selenium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/07/04	214374	MSG	<1.0
04/09/04	214442	MSG	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	214374	MSG	40	42.1	105	90-110
04/09/04	214442	MSG	40	44.0	110	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/07/04	94318	MSG	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	94318	MSG	25	23.6	94	79-120

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QUALITY CONTROL REPORT

Parameter: **Silver, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/07/04	214374	MSG	<0.2
04/09/04	214442	MSG	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	214374	MSG	40	39.9	100	90-110
04/09/04	214442	MSG	40	39.5	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/07/04	94318	MSG	<0.2

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	94318	MSG	25	25.3	101	86-117

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QUALITY CONTROL REPORT

Parameter: **Sodium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/07/04	214347	DWJ	<0.50
04/07/04	214400	DWJ	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	214347	DWJ	5.0	5.02	100	90-110
04/07/04	214400	DWJ	5.0	4.68	94	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/07/04	94288	DWJ	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	94288	DWJ	12.5	12.8	102	86-117

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36162- 10

QUALITY CONTROL REPORT

Parameter: **Sulfate**
Method: Turbidimetric Method (Manual) EPA-375.4/9038 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/07/04	214394	JLB	<5.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	214394	JLB	13.5	13.3	99	85-113

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36162- 10

QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/07/04	214400	DWJ	<20

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36162- 10

QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/09/04	214442	MSG	<10
04/12/04	214494	DSC	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/09/04	214442	MSG	40	41.9	105	90-110
04/12/04	214494	DSC	40	41.3	103	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/12/04	94315	DSC	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/12/04	94315	DSC	25	27.0	108	87-124

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Chain of Custody Record

COC No. 93280

Page 1 of 1

For Lab Use Only
Cart: 5
VOA Rack/Tray:
Receipt Log No.: 47-10
Project Chemist:
Laboratory Project No.: 3610

Client Name: North Jackson
Address: PO Box 30
Negaunee MI. 49866
Phone: 906-475-9865
Fax:

Project Name: EAGLE
Client Project No. / P.O. No.:
Invoice To: ~~Client~~ Other (comments)
Contact/Report To: Dan Wiitala

Analyses Requested

See Attached List

Container Type (corresponds to Container Packing List): BA

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

	Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Number of Containers Submitted	Total	Sample Comments
1	01	W		WLDP021 EAG-HOC-055	TW0324	3/31/04	1200		X	Water	2		
2				WLDP006 056			1410		X				
3				WLDP001 057			1440		X				
4				WLDP006 057			1330		X				
5													
6													
7													
8													
9													
10													

Sampled By (print): Thor Sabee
Sampler's Signature: Sabee
Company:

How Shipped? Hand Carrier: Fed Ex
Tracking No.: 7124 6568 2119

Comments:

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
T Sabee	3/31/04	1745						
1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
						Jon Parker	4/1/04	8:40

TriMatrixCOC -- COC WHITE COPY - REPORT YELLOW COPY - LABORATORY PINK COPY - FIELD

April 26, 2004

North Jackson Company
Attn: Mr. Peter Sabee
420 Rail Street
Negaunee, MI 49866

RE: Eagle
Submittal Number: 36162-11

Dear Mr. Peter Sabee:

Enclosed is a copy of your laboratory report for test samples received by our laboratory on April 9, 2004.

Please note that the test results of the enclosed analyses relate only to the sample(s) as received at the laboratory, and are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC) standards. Qualification of test standards, including sample acceptance requirements, are presented within the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosure(s)

The total number of pages in this report, including this page, is 50.

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36162- 11

STATEMENT OF DATA QUALIFICATIONS

Analysis: **Carbon, Total Organic**
Organic Carbon, Total
WATER 4151/5310D/9060

Qualification:

The analytical requirements of the method require quadruplicate analysis on every sample submitted for TOC testing. The reporting requirements require both the average and the range of the four analysis be reported. The result reported is the average; the range of the replicates is:

Explanation for Sample(s) listed below:

0.100 - 0.190

Sample(s) Qualified:	357938	EQBS-001	EAG-	1001070

Explanation for Sample(s) listed below:

1.46 - 1.57

Sample(s) Qualified:	357937	CDRAS002	EAG-	1001069

Explanation for Sample(s) listed below:

10.47 - 10.99

Sample(s) Qualified:	357672	YDRMS003	EAG-	1001061

Explanation for Sample(s) listed below:

12.06 - 13.04

Sample(s) Qualified:	357887	YDRMS001	EAG-	1001059

Note: This document is included as a part of the analytical report for the above referenced project and submittal, and should be retained as a permanent record thereof.

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36162- 11

STATEMENT OF DATA QUALIFICATIONS

Analysis: **Carbon, Total Organic**
Organic Carbon, Total
WATER 4151/5310D/9060

Qualification:

The analytical requirements of the method require quadruplicate analysis on every sample submitted for TOC testing. The reporting requirements require both the average and the range of the four analysis be reported. The result reported is the average; the range of the replicates is:

Explanation for Sample(s) listed below:

12.82 - 13.45

Sample(s) Qualified:	357671	YDRMS002	EAG-	1001060

Explanation for Sample(s) listed below:

6.05 - 6.34

Sample(s) Qualified:	357890	STRES001	EAG-	1001066

Explanation for Sample(s) listed below:

6.23 - 6.58

Sample(s) Qualified:	357886	STRMS003	EAG-	1001064

Explanation for Sample(s) listed below:

6.84 - 7.25

Sample(s) Qualified:	357936	CDRMS004	EAG-	1001068

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Carbon, Total Organic**
Organic Carbon, Total
WATER 4151/5310D/9060

Qualification:

The analytical requirements of the method require quadruplicate analysis on every sample submitted for TOC testing. The reporting requirements require both the average and the range of the four analysis be reported. The result reported is the average; the range of the replicates is:

Explanation for Sample(s) listed below:

7.62 - 7.81

Sample(s) Qualified:	357884	STRMS001	EAG-	1001063

Explanation for Sample(s) listed below:

7.72 - 7.97

Sample(s) Qualified:	357885	STRMS002	EAG-	1001062

Explanation for Sample(s) listed below:

8.37 - 8.90

Sample(s) Qualified:	357888	STRWS001	EAG-	1001065

Explanation for Sample(s) listed below:

8.50 - 8.82

Sample(s) Qualified:	357889	DUPS001	EAG-	1001067

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36162- 11

CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column **for this test** stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

4.68

Sample(s) Narrated:	357938	EQBS-001	EAG-	1001070

Explanation for Sample(s) listed below:

5.51

Sample(s) Narrated:	357884	STRMS001	EAG-	1001063

Explanation for Sample(s) listed below:

5.60

Sample(s) Narrated:	357887	YDRMS001	EAG-	1001059

Explanation for Sample(s) listed below:

5.94

Sample(s) Narrated:	357886	STRMS003	EAG-	1001064

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36162- 11

CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

5.98

Sample(s) Narrated:	357889	DUPS001	EAG-	1001067

Explanation for Sample(s) listed below:

6.05

Sample(s) Narrated:	357885	STRMS002	EAG-	1001062

Explanation for Sample(s) listed below:

6.21

Sample(s) Narrated:	357671	YDRMS002	EAG-	1001060

Explanation for Sample(s) listed below:

6.26

Sample(s) Narrated:	357888	STRWS001	EAG-	1001065

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CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

6.41

Sample(s) Narrated:	357890	STRES001	EAG-	1001066

Explanation for Sample(s) listed below:

6.71

Sample(s) Narrated:	357672	YDRMS003	EAG-	1001061

Explanation for Sample(s) listed below:

7.32

Sample(s) Narrated:	357936	CDRMS004	EAG-	1001068

Explanation for Sample(s) listed below:

7.58

Sample(s) Narrated:	357937	CDRAS002	EAG-	1001069

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36162- 11

CASE NARRATIVE

Analysis: **BOD, (5-Day)**
Biochemical Oxygen Demand
WATER SDM 5210B

Narrative:

The reported Biochemical Oxygen Demand result for this sample was calculated on an oxygen depletion of <2.0 mg/l

Sample(s) Narrated:				
	357671	YDRMS002	EAG-	1001060
	357672	YDRMS003	EAG-	1001061
	357888	STRWS001	EAG-	1001065
	357938	EQBS-001	EAG-	1001070

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/06/04 @ 15:00
Sampler: P. Kero
Received: 04/07/04 @ 08:45

Submittal #: **36162-11**
Submittal: Week of April 5, 2004

Sample ID: **YDRMS002 EAG- 1001060**
Sample #: **357671**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Chloride	1.2	1.0	mg/L	04/14/04	JLB	325.2/4500-CL E
	Nitrogen, Nitrate	0.14	0.05	mg/L	04/07/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	04/07/04	HLB	USEPA-353.2
	Nitrogen, Ammonia	<0.05	0.05	mg/L	04/15/04	GEH	350.1/4500 NH3G
	Sulfate	<5.0	5.0	mg/L	04/14/04	JLB	EPA-375.4/9038
	Alkalinity, Bicarbonate	9.9	2.0	mg/L	04/08/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	04/08/04	VAS	310.1/SM 2320 B
	Alkalinity, Total	9.9	2.0	mg/L	04/08/04	VAS	310.1/SM 2320 B
	BOD, (5-Day)	1.8	1.0	mg/L	04/07/04	TAM	SDM 5210B
	Chemical Oxygen Demand	37	5.0	mg/L	04/12/04	JMJ	410.4/SM 5220 D
	Color (Apparent)	100	10	A.C.U.	04/07/04	HLB	USEPA-110.2
	Turbidity	1.5	1.0	NTU	04/07/04	HLB	USEPA-180.1
	Residue, Suspended	4	3	mg/L	04/09/04	INR	160.2/SM 2540 D
	Residue,Dissolved @ 180*C	31	25	mg/L	04/09/04	INR	160.1/SM 2540 C
*	Carbon, Total Organic	13	1.0	mg/L	04/16/04	GEH	4151/5310D/9060
	Arsenic, Total	<1.0	1.0	ug/L	04/14/04	DSC	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	04/14/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	04/14/04	DSC	EPA-200.8/6020
	Iron, Total	440	20	ug/L	04/20/04	DWJ	EPA-200.7/6010B
	Manganese, Total	19	10	ug/L	04/14/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	04/14/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	3.9	0.50	mg/L	04/20/04	DWJ	EPA-200.7/6010B
	Potassium, Dissolved	0.51	0.50	mg/L	04/20/04	DWJ	EPA-200.7/6010B
	Magnesium, Dissolved	0.89	0.50	mg/L	04/20/04	DWJ	EPA-200.7/6010B
	Sodium, Dissolved	0.53	0.50	mg/L	04/20/04	DWJ	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/06/04 @ 12:00
Sampler: P. Kero
Received: 04/07/04 @ 08:45

Submittal #: **36162-11**
Submittal: Week of April 5, 2004

Sample ID: **YDRMS003 EAG- 1001061**
Sample #: **357672**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Chloride	<1.0	1.0	mg/L	04/14/04	JLB	325.2/4500-CL E
	Nitrogen, Nitrate	0.16	0.05	mg/L	04/07/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	04/07/04	HLB	USEPA-353.2
	Nitrogen, Ammonia	<0.05	0.05	mg/L	04/15/04	GEH	350.1/4500 NH3G
	Sulfate	<5.0	5.0	mg/L	04/14/04	JLB	EPA-375.4/9038
	Alkalinity, Bicarbonate	7.7	2.0	mg/L	04/08/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	04/08/04	VAS	310.1/SM 2320 B
	Alkalinity, Total	7.7	2.0	mg/L	04/08/04	VAS	310.1/SM 2320 B
	BOD, (5-Day)	1.5	1.0	mg/L	04/07/04	TAM	SDM 5210B
	Chemical Oxygen Demand	30	5.0	mg/L	04/12/04	JMJ	410.4/SM 5220 D
	Color (Apparent)	120	10	A.C.U.	04/07/04	HLB	USEPA-110.2
	Turbidity	1.7	1.0	NTU	04/07/04	HLB	USEPA-180.1
	Residue, Suspended	3	3	mg/L	04/09/04	INR	160.2/SM 2540 D
	Residue,Dissolved @ 180*C	32	25	mg/L	04/09/04	INR	160.1/SM 2540 C
*	Carbon, Total Organic	11	1.0	mg/L	04/16/04	GEH	4151/5310D/9060
	Arsenic, Total	<1.0	1.0	ug/L	04/14/04	DSC	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	04/14/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	04/14/04	DSC	EPA-200.8/6020
	Iron, Total	250	20	ug/L	04/20/04	DWJ	EPA-200.7/6010B
	Manganese, Total	12	10	ug/L	04/14/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	04/14/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	4.1	0.50	mg/L	04/20/04	DWJ	EPA-200.7/6010B
	Potassium, Dissolved	<0.50	0.50	mg/L	04/20/04	DWJ	EPA-200.7/6010B
	Magnesium, Dissolved	0.97	0.50	mg/L	04/20/04	DWJ	EPA-200.7/6010B
	Sodium, Dissolved	0.55	0.50	mg/L	04/20/04	DWJ	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/07/04 @ 10:30
Sampler: P.K.
Received: 04/08/04 @ 08:55

Submittal #: **36162-11**
Submittal: Week of April 5, 2004

Sample ID: **STRMS001 EAG- 1001063**
Sample #: **357884**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Chloride	<1.0	1.0	mg/L	04/14/04	JLB	325.2/4500-CL E
Nitrogen, Nitrate	<0.05	0.05	mg/L	04/09/04	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	04/09/04	HLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	04/15/04	GEH	350.1/4500 NH3G
Sulfate	<5.0	5.0	mg/L	04/14/04	JLB	EPA-375.4/9038
Alkalinity, Bicarbonate	6.0	2.0	mg/L	04/15/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	04/15/04	VAS	310.1/SM 2320 B
Alkalinity, Total	6.0	2.0	mg/L	04/15/04	VAS	310.1/SM 2320 B
BOD, (5-Day)	<1.0	1.0	mg/L	04/09/04	HLB	SDM 5210B
Chemical Oxygen Demand	23	5.0	mg/L	04/12/04	JMJ	410.4/SM 5220 D
Color (Apparent)	75	25	A.C.U.	04/08/04	HLB	USEPA-110.2
Turbidity	2.2	1.0	NTU	04/08/04	HLB	USEPA-180.1
Residue, Suspended	6	3	mg/L	04/09/04	INR	160.2/SM 2540 D
Residue,Dissolved @ 180*C	27	25	mg/L	04/09/04	INR	160.1/SM 2540 C
* Carbon, Total Organic	7.7	1.0	mg/L	04/16/04	GEH	4151/5310D/9060
Arsenic, Total	<1.0	1.0	ug/L	04/14/04	DSC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	04/14/04	DSC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	04/14/04	DSC	EPA-200.8/6020
Iron, Total	400	20	ug/L	04/20/04	DWJ	EPA-200.7/6010B
Manganese, Total	<10	10	ug/L	04/14/04	DSC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	04/14/04	DSC	EPA-200.8/6020
Calcium, Dissolved	3.2	0.50	mg/L	04/16/04	DWJ	EPA-200.7/6010B
Potassium, Dissolved	0.66	0.50	mg/L	04/16/04	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	0.76	0.50	mg/L	04/16/04	DWJ	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	04/16/04	DWJ	EPA-200.7/6010B

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/07/04 @ 11:00
Sampler: P.K.
Received: 04/08/04 @ 08:55

Submittal #: **36162-11**
Submittal: Week of April 5, 2004

Sample ID: **STRMS002 EAG- 1001062**
Sample #: **357885**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Chloride	<1.0	1.0	mg/L	04/14/04	JLB	325.2/4500-CL E
	Nitrogen, Nitrate	<0.05	0.05	mg/L	04/09/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	04/09/04	HLB	USEPA-353.2
	Nitrogen, Ammonia	<0.05	0.05	mg/L	04/15/04	GEH	350.1/4500 NH3G
	Sulfate	<5.0	5.0	mg/L	04/14/04	JLB	EPA-375.4/9038
	Alkalinity, Bicarbonate	16	2.0	mg/L	04/15/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	04/15/04	VAS	310.1/SM 2320 B
	Alkalinity, Total	16	2.0	mg/L	04/15/04	VAS	310.1/SM 2320 B
	BOD, (5-Day)	<1.0	1.0	mg/L	04/09/04	HLB	SDM 5210B
	Chemical Oxygen Demand	23	5.0	mg/L	04/12/04	JMJ	410.4/SM 5220 D
	Color (Apparent)	120	20	A.C.U.	04/08/04	HLB	USEPA-110.2
	Turbidity	1.1	1.0	NTU	04/08/04	HLB	USEPA-180.1
	Residue, Suspended	4	3	mg/L	04/09/04	INR	160.2/SM 2540 D
	Residue,Dissolved @ 180*C	64	25	mg/L	04/09/04	INR	160.1/SM 2540 C
*	Carbon, Total Organic	7.8	1.0	mg/L	04/15/04	GEH	4151/5310D/9060
	Arsenic, Total	<1.0	1.0	ug/L	04/14/04	DSC	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	04/14/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	04/14/04	DSC	EPA-200.8/6020
	Iron, Total	290	20	ug/L	04/20/04	DWJ	EPA-200.7/6010B
	Manganese, Total	11	10	ug/L	04/14/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	04/14/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	5.6	0.50	mg/L	04/16/04	DWJ	EPA-200.7/6010B
	Potassium, Dissolved	0.65	0.50	mg/L	04/16/04	DWJ	EPA-200.7/6010B
	Magnesium, Dissolved	1.2	0.50	mg/L	04/16/04	DWJ	EPA-200.7/6010B
	Sodium, Dissolved	0.56	0.50	mg/L	04/16/04	DWJ	EPA-200.7/6010B

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/07/04 @ 14:15
Sampler: P.K.
Received: 04/08/04 @ 08:55

Submittal #: **36162-11**
Submittal: Week of April 5, 2004

Sample ID: **STRMS003 EAG- 1001064**
Sample #: **357886**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Chloride	<1.0	1.0	mg/L	04/14/04	JLB	325.2/4500-CL E
	Nitrogen, Nitrate	0.11	0.05	mg/L	04/09/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	04/09/04	HLB	USEPA-353.2
	Nitrogen, Ammonia	<0.05	0.05	mg/L	04/15/04	GEH	350.1/4500 NH3G
	Sulfate	<5.0	5.0	mg/L	04/14/04	JLB	EPA-375.4/9038
	Alkalinity, Bicarbonate	31	2.0	mg/L	04/15/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	04/15/04	VAS	310.1/SM 2320 B
	Alkalinity, Total	31	2.0	mg/L	04/15/04	VAS	310.1/SM 2320 B
	BOD, (5-Day)	<1.0	1.0	mg/L	04/09/04	HLB	SDM 5210B
	Chemical Oxygen Demand	19	5.0	mg/L	04/12/04	JMJ	410.4/SM 5220 D
	Color (Apparent)	50	25	A.C.U.	04/08/04	HLB	USEPA-110.2
	Turbidity	3.9	1.0	NTU	04/08/04	HLB	USEPA-180.1
	Residue, Suspended	6	3	mg/L	04/09/04	INR	160.2/SM 2540 D
	Residue,Dissolved @ 180*C	69	25	mg/L	04/09/04	INR	160.1/SM 2540 C
*	Carbon, Total Organic	6.4	1.0	mg/L	04/16/04	GEH	4151/5310D/9060
	Arsenic, Total	<1.0	1.0	ug/L	04/14/04	DSC	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	04/14/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	04/14/04	DSC	EPA-200.8/6020
	Iron, Total	220	20	ug/L	04/20/04	DWJ	EPA-200.7/6010B
	Manganese, Total	18	10	ug/L	04/14/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	04/14/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	9.6	0.50	mg/L	04/16/04	DWJ	EPA-200.7/6010B
	Potassium, Dissolved	0.71	0.50	mg/L	04/16/04	DWJ	EPA-200.7/6010B
	Magnesium, Dissolved	2.1	0.50	mg/L	04/16/04	DWJ	EPA-200.7/6010B
	Sodium, Dissolved	0.84	0.50	mg/L	04/16/04	DWJ	EPA-200.7/6010B

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/07/04 @ 10:00
Sampler: P.K.
Received: 04/08/04 @ 08:55

Submittal #: **36162-11**
Submittal: Week of April 5, 2004

Sample ID: **YDRMS001 EAG- 1001059**
Sample #: **357887**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Chloride	<1.0	1.0	mg/L	04/14/04	JLB	325.2/4500-CL E
Nitrogen, Nitrate	0.13	0.05	mg/L	04/09/04	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	04/09/04	HLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	04/15/04	GEH	350.1/4500 NH3G
Sulfate	<5.0	5.0	mg/L	04/14/04	JLB	EPA-375.4/9038
Alkalinity, Bicarbonate	8.1	2.0	mg/L	04/15/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	04/15/04	VAS	310.1/SM 2320 B
Alkalinity, Total	8.1	2.0	mg/L	04/15/04	VAS	310.1/SM 2320 B
BOD, (5-Day)	<1.0	1.0	mg/L	04/09/04	HLB	SDM 5210B
Chemical Oxygen Demand	34	5.0	mg/L	04/12/04	JMJ	410.4/SM 5220 D
Color (Apparent)	100	25	A.C.U.	04/08/04	HLB	USEPA-110.2
Turbidity	2.5	1.0	NTU	04/08/04	HLB	USEPA-180.1
Residue, Suspended	4	3	mg/L	04/09/04	INR	160.2/SM 2540 D
Residue,Dissolved @ 180*C	89	25	mg/L	04/09/04	INR	160.1/SM 2540 C
* Carbon, Total Organic	13	1.0	mg/L	04/16/04	GEH	4151/5310D/9060
Arsenic, Total	<1.0	1.0	ug/L	04/14/04	DSC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	04/14/04	DSC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	04/14/04	DSC	EPA-200.8/6020
Iron, Total	360	20	ug/L	04/20/04	DWJ	EPA-200.7/6010B
Manganese, Total	13	10	ug/L	04/14/04	DSC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	04/14/04	DSC	EPA-200.8/6020
Calcium, Dissolved	3.7	0.50	mg/L	04/16/04	DWJ	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	04/16/04	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	0.87	0.50	mg/L	04/16/04	DWJ	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	04/16/04	DWJ	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/07/04 @ 13:30
Sampler: P.K.
Received: 04/08/04 @ 08:55

Submittal #: **36162-11**
Submittal: Week of April 5, 2004

Sample ID: **STRWS001 EAG- 1001065**
Sample #: **357888**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Chloride	<1.0	1.0	mg/L	04/14/04	JLB	325.2/4500-CL E
	Nitrogen, Nitrate	0.06	0.05	mg/L	04/09/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	04/09/04	HLB	USEPA-353.2
	Nitrogen, Ammonia	<0.05	0.05	mg/L	04/15/04	GEH	350.1/4500 NH3G
	Sulfate	<5.0	5.0	mg/L	04/14/04	JLB	EPA-375.4/9038
	Alkalinity, Bicarbonate	28	2.0	mg/L	04/15/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	04/15/04	VAS	310.1/SM 2320 B
	Alkalinity, Total	28	2.0	mg/L	04/15/04	VAS	310.1/SM 2320 B
	BOD, (5-Day)	1.0	1.0	mg/L	04/09/04	HLB	SDM 5210B
	Chemical Oxygen Demand	25	5.0	mg/L	04/12/04	JMJ	410.4/SM 5220 D
	Color (Apparent)	50	25	A.C.U.	04/08/04	HLB	USEPA-110.2
	Turbidity	3.1	1.0	NTU	04/08/04	HLB	USEPA-180.1
	Residue, Suspended	5	3	mg/L	04/09/04	INR	160.2/SM 2540 D
	Residue,Dissolved @ 180*C	56	25	mg/L	04/09/04	INR	160.1/SM 2540 C
*	Carbon, Total Organic	8.7	1.0	mg/L	04/16/04	GEH	4151/5310D/9060
	Arsenic, Total	<1.0	1.0	ug/L	04/14/04	DSC	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	04/14/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	04/14/04	DSC	EPA-200.8/6020
	Iron, Total	270	20	ug/L	04/20/04	DWJ	EPA-200.7/6010B
	Manganese, Total	13	10	ug/L	04/14/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	04/14/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	8.3	0.50	mg/L	04/16/04	DWJ	EPA-200.7/6010B
	Potassium, Dissolved	0.66	0.50	mg/L	04/16/04	DWJ	EPA-200.7/6010B
	Magnesium, Dissolved	1.6	0.50	mg/L	04/16/04	DWJ	EPA-200.7/6010B
	Sodium, Dissolved	0.66	0.50	mg/L	04/16/04	DWJ	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/07/04 @ 13:20
Sampler: P.K.
Received: 04/08/04 @ 08:55

Submittal #: **36162-11**
Submittal: Week of April 5, 2004

Sample ID: **DUPS001 EAG- 1001067**
Sample #: **357889**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Chloride	<1.0	1.0	mg/L	04/14/04	JLB	325.2/4500-CL E
	Nitrogen, Nitrate	0.07	0.05	mg/L	04/09/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	04/09/04	HLB	USEPA-353.2
	Nitrogen, Ammonia	<0.05	0.05	mg/L	04/15/04	GEH	350.1/4500 NH3G
	Sulfate	<5.0	5.0	mg/L	04/14/04	JLB	EPA-375.4/9038
	Alkalinity, Bicarbonate	28	2.0	mg/L	04/15/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	04/15/04	VAS	310.1/SM 2320 B
	Alkalinity, Total	28	2.0	mg/L	04/15/04	VAS	310.1/SM 2320 B
	BOD, (5-Day)	<1.0	1.0	mg/L	04/09/04	HLB	SDM 5210B
	Chemical Oxygen Demand	24	5.0	mg/L	04/12/04	JMJ	410.4/SM 5220 D
	Color (Apparent)	50	25	A.C.U.	04/08/04	HLB	USEPA-110.2
	Turbidity	2.1	1.0	NTU	04/08/04	HLB	USEPA-180.1
	Residue, Suspended	4	3	mg/L	04/09/04	INR	160.2/SM 2540 D
	Residue,Dissolved @ 180*C	41	25	mg/L	04/09/04	INR	160.1/SM 2540 C
*	Carbon, Total Organic	8.7	1.0	mg/L	04/16/04	GEH	4151/5310D/9060
	Arsenic, Total	<1.0	1.0	ug/L	04/14/04	DSC	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	04/14/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	04/14/04	DSC	EPA-200.8/6020
	Iron, Total	270	20	ug/L	04/20/04	DWJ	EPA-200.7/6010B
	Manganese, Total	13	10	ug/L	04/14/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	04/14/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	8.3	0.50	mg/L	04/16/04	DWJ	EPA-200.7/6010B
	Potassium, Dissolved	0.61	0.50	mg/L	04/16/04	DWJ	EPA-200.7/6010B
	Magnesium, Dissolved	1.6	0.50	mg/L	04/16/04	DWJ	EPA-200.7/6010B
	Sodium, Dissolved	0.61	0.50	mg/L	04/16/04	DWJ	EPA-200.7/6010B

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/07/04 @ 15:15
Sampler: P.K.
Received: 04/08/04 @ 08:55

Submittal #: **36162-11**
Submittal: Week of April 5, 2004

Sample ID: **STRES001 EAG- 1001066**
Sample #: **357890**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Chloride	3.0	1.0	mg/L	04/14/04	JLB	325.2/4500-CL E
	Nitrogen, Nitrate	0.07	0.05	mg/L	04/09/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	04/09/04	HLB	USEPA-353.2
	Nitrogen, Ammonia	<0.05	0.05	mg/L	04/15/04	GEH	350.1/4500 NH3G
	Sulfate	<5.0	5.0	mg/L	04/14/04	JLB	EPA-375.4/9038
	Alkalinity, Bicarbonate	41	2.0	mg/L	04/15/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	04/15/04	VAS	310.1/SM 2320 B
	Alkalinity, Total	41	2.0	mg/L	04/15/04	VAS	310.1/SM 2320 B
	BOD, (5-Day)	<1.0	1.0	mg/L	04/09/04	HLB	SDM 5210B
	Chemical Oxygen Demand	20	5.0	mg/L	04/12/04	JMJ	410.4/SM 5220 D
	Color (Apparent)	50	25	A.C.U.	04/08/04	HLB	USEPA-110.2
	Turbidity	3.8	1.0	NTU	04/08/04	HLB	USEPA-180.1
	Residue, Suspended	9	3	mg/L	04/09/04	INR	160.2/SM 2540 D
	Residue,Dissolved @ 180*C	49	25	mg/L	04/09/04	INR	160.1/SM 2540 C
*	Carbon, Total Organic	6.2	1.0	mg/L	04/16/04	GEH	4151/5310D/9060
	Arsenic, Total	<1.0	1.0	ug/L	04/14/04	DSC	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	04/14/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	04/14/04	DSC	EPA-200.8/6020
	Iron, Total	190	20	ug/L	04/20/04	DWJ	EPA-200.7/6010B
	Manganese, Total	12	10	ug/L	04/14/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	04/14/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	12	0.50	mg/L	04/16/04	DWJ	EPA-200.7/6010B
	Potassium, Dissolved	<0.50	0.50	mg/L	04/16/04	DWJ	EPA-200.7/6010B
	Magnesium, Dissolved	2.6	0.50	mg/L	04/16/04	DWJ	EPA-200.7/6010B
	Sodium, Dissolved	0.67	0.50	mg/L	04/16/04	DWJ	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/08/04 @ 12:30
Sampler: P. Kero
Received: 04/09/04 @ 08:40

Submittal #: **36162-11**
Submittal: Week of April 5, 2004

Sample ID: **CDRMS004 EAG- 1001068**
Sample #: **357936**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Chloride	<1.0	1.0	mg/L	04/14/04	JLB	325.2/4500-CL E
	Nitrogen, Nitrate	<0.05	0.05	mg/L	04/09/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	04/09/04	HLB	USEPA-353.2
	Nitrogen, Ammonia	<0.05	0.05	mg/L	04/15/04	GEH	350.1/4500 NH3G
	Sulfate	<5.0	5.0	mg/L	04/14/04	JLB	EPA-375.4/9038
	Alkalinity, Bicarbonate	40	2.0	mg/L	04/15/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	04/15/04	VAS	310.1/SM 2320 B
	Alkalinity, Total	40	2.0	mg/L	04/15/04	VAS	310.1/SM 2320 B
	BOD, (5-Day)	<1.0	1.0	mg/L	04/09/04	HLB	SDM 5210B
	Chemical Oxygen Demand	21	5.0	mg/L	04/12/04	JMJ	410.4/SM 5220 D
	Color (Apparent)	45	5	A.C.U.	04/09/04	HLB	USEPA-110.2
	Turbidity	2.2	1.0	NTU	04/09/04	HLB	USEPA-180.1
	Residue, Suspended	<3	3	mg/L	04/13/04	INR	160.2/SM 2540 D
	Residue,Dissolved @ 180*C	31	25	mg/L	04/13/04	INR	160.1/SM 2540 C
*	Carbon, Total Organic	7.0	1.0	mg/L	04/16/04	GEH	4151/5310D/9060
	Arsenic, Total	<1.0	1.0	ug/L	04/15/04	MSG	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	04/15/04	MSG	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	04/19/04	MSG	EPA-200.8/6020
	Iron, Total	150	20	ug/L	04/16/04	DWJ	EPA-200.7/6010B
	Manganese, Total	<10	10	ug/L	04/19/04	MSG	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	04/15/04	MSG	EPA-200.8/6020
	Calcium, Dissolved	13	0.50	mg/L	04/21/04	KLVM	EPA-200.7/6010B
	Potassium, Dissolved	0.57	0.50	mg/L	04/21/04	KLVM	EPA-200.7/6010B
	Magnesium, Dissolved	2.3	0.50	mg/L	04/21/04	KLVM	EPA-200.7/6010B
	Sodium, Dissolved	0.78	0.50	mg/L	04/21/04	KLVM	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/08/04 @ 14:00
Sampler: P. Kero
Received: 04/09/04 @ 08:40

Submittal #: **36162-11**
Submittal: Week of April 5, 2004

Sample ID: **CDRAS002 EAG- 1001069**
Sample #: **357937**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Chloride	<1.0	1.0	mg/L	04/14/04	JLB	325.2/4500-CL E
Nitrogen, Nitrate	<0.05	0.05	mg/L	04/09/04	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	04/09/04	HLB	USEPA-353.2
Nitrogen, Ammonia	<0.05	0.05	mg/L	04/15/04	GEH	350.1/4500 NH3G
Sulfate	<5.0	5.0	mg/L	04/14/04	JLB	EPA-375.4/9038
Alkalinity, Bicarbonate	42	2.0	mg/L	04/15/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	04/15/04	VAS	310.1/SM 2320 B
Alkalinity, Total	42	2.0	mg/L	04/15/04	VAS	310.1/SM 2320 B
BOD, (5-Day)	<1.0	1.0	mg/L	04/09/04	HLB	SDM 5210B
Chemical Oxygen Demand	5.0	5.0	mg/L	04/12/04	JMJ	410.4/SM 5220 D
Color (Apparent)	15	5	A.C.U.	04/09/04	HLB	USEPA-110.2
Turbidity	<1.0	1.0	NTU	04/09/04	HLB	USEPA-180.1
Residue, Suspended	<3	3	mg/L	04/13/04	INR	160.2/SM 2540 D
Residue,Dissolved @ 180*C	61	25	mg/L	04/13/04	INR	160.1/SM 2540 C
* Carbon, Total Organic	1.5	1.0	mg/L	04/16/04	GEH	4151/5310D/9060
Arsenic, Total	<1.0	1.0	ug/L	04/15/04	MSG	EPA-200.8/6020
Barium, Total	<10	10	ug/L	04/15/04	MSG	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	04/19/04	MSG	EPA-200.8/6020
Iron, Total	42	20	ug/L	04/16/04	DWJ	EPA-200.7/6010B
Manganese, Total	<10	10	ug/L	04/19/04	MSG	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	04/15/04	MSG	EPA-200.8/6020
Calcium, Dissolved	15	0.50	mg/L	04/21/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	04/21/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	2.0	0.50	mg/L	04/21/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	0.61	0.50	mg/L	04/21/04	KLVM	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/08/04 @ 15:35
Sampler: P. Kero
Received: 04/09/04 @ 08:40

Submittal #: **36162-11**
Submittal: Week of April 5, 2004

Sample ID: **EQBS-001 EAG- 1001070**
Sample #: **357938**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Chloride	<1.0	1.0	mg/L	04/14/04	JLB	325.2/4500-CL E
	Nitrogen, Nitrate	<0.05	0.05	mg/L	04/09/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	04/09/04	HLB	USEPA-353.2
	Nitrogen, Ammonia	<0.05	0.05	mg/L	04/15/04	GEH	350.1/4500 NH3G
	Sulfate	<5.0	5.0	mg/L	04/14/04	JLB	EPA-375.4/9038
	Alkalinity, Bicarbonate	<2.0	2.0	mg/L	04/15/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	04/15/04	VAS	310.1/SM 2320 B
	Alkalinity, Total	<2.0	2.0	mg/L	04/15/04	VAS	310.1/SM 2320 B
	BOD, (5-Day)	1.1	1.0	mg/L	04/09/04	HLB	SDM 5210B
	Chemical Oxygen Demand	<5.0	5.0	mg/L	04/12/04	JMJ	410.4/SM 5220 D
	Color (Apparent)	<5	5	A.C.U.	04/09/04	HLB	USEPA-110.2
	Turbidity	<1.0	1.0	NTU	04/09/04	HLB	USEPA-180.1
	Residue, Suspended	<3	3	mg/L	04/13/04	INR	160.2/SM 2540 D
	Residue,Dissolved @ 180*C	<20	20	mg/L	04/13/04	INR	160.1/SM 2540 C
*	Carbon, Total Organic	<1.0	1.0	mg/L	04/16/04	GEH	4151/5310D/9060
	Arsenic, Total	<1.0	1.0	ug/L	04/15/04	MSG	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	04/15/04	MSG	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	04/19/04	MSG	EPA-200.8/6020
	Iron, Total	<20	20	ug/L	04/16/04	DWJ	EPA-200.7/6010B
	Manganese, Total	<10	10	ug/L	04/19/04	MSG	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	04/15/04	MSG	EPA-200.8/6020
	Calcium, Dissolved	<0.50	0.50	mg/L	04/21/04	KLVM	EPA-200.7/6010B
	Potassium, Dissolved	<0.50	0.50	mg/L	04/21/04	KLVM	EPA-200.7/6010B
	Magnesium, Dissolved	<0.50	0.50	mg/L	04/21/04	KLVM	EPA-200.7/6010B
	Sodium, Dissolved	<0.50	0.50	mg/L	04/21/04	KLVM	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

End of Analytical Report

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36162- 11

QUALITY CONTROL REPORT

Parameter: **Alkalinity, Bicarbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/08/04	214454	VAS	<2.0
04/15/04	214735	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/08/04	214454	VAS	238	242	102	93-105
04/15/04	214735	VAS	238	248	104	93-105

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Carbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/08/04	214454	VAS	<2.0
04/15/04	214735	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/08/04	214454	VAS	377	346	92	81-107
04/15/04	214735	VAS	377	360	95	81-107

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Total**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/08/04	214454	VAS	<2.0
04/15/04	214735	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/08/04	214454	VAS	238	242	102	92-105
04/15/04	214735	VAS	238	248	104	92-105

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36162- 11

QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/16/04	214777	DWJ	<200

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/14/04	214648	DSC	<1.0
04/15/04	214760	MSG	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/14/04	214648	DSC	40	41.0	103	90-110
04/15/04	214760	MSG	40	41.8	105	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/14/04	94478	DSC	<1.0
04/15/04	94548	MSG	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/14/04	94478	DSC	25	25.6	102	88-118
04/15/04	94548	MSG	25	25.3	101	88-118

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36162- 11

QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/16/04	214777	DWJ	<10

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36162- 11

QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/14/04	214648	DSC	<10
04/15/04	214760	MSG	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/14/04	214648	DSC	40	40.6	102	90-110
04/15/04	214760	MSG	40	40.3	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/14/04	94478	DSC	<10
04/15/04	94548	MSG	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/14/04	94478	DSC	25	25.6	102	86-119
04/15/04	94548	MSG	25	26.1	104	86-119

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36162- 11

QUALITY CONTROL REPORT

Parameter: **BOD, (5-Day)**
Method: Biochemical Oxygen Demand SDM 5210B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/07/04	214603	TAM	<1.0
04/09/04	214800	HLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	214603	TAM	198	215	109	85-115
04/09/04	214800	HLB	198	203	103	85-115

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36162- 11

QUALITY CONTROL REPORT

Parameter: **Carbon, Total Organic**
Method: Organic Carbon, Total 4151/5310D/9060 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/15/04	214776	GEH	<0.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/15/04	214776	GEH	25	23	92	90-110

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36162- 11

QUALITY CONTROL REPORT

Parameter: **Chemical Oxygen Demand**
Method: Closed Reflux, Colorimetric Method 410.4/SM 5220 D WATER
Units: mg/L

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/12/04	94495	JMJ	<5.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/12/04	94495	JMJ	30	31	103	90-110

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QUALITY CONTROL REPORT

Parameter: **Chloride**
Method: Colorimetric, Automated Ferricyanide 325.2/4500-CL E WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/14/04	214731	JLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/14/04	214731	JLB	43.5	44.0	101	94-109

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36162- 11

QUALITY CONTROL REPORT

Parameter: **Color (Apparent)**
Method: Colorimetric, Platinum-Cobalt USEPA-110.2 WATER
Units: A.C.U.

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/07/04	214533	HLB	<5
04/08/04	214722	HLB	<5
04/09/04	214721	HLB	<5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	214533	HLB	50	50	100	80-120
04/08/04	214722	HLB	50	50	100	80-120
04/09/04	214721	HLB	50	50	100	80-120

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36162- 11

QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/16/04	214777	DWJ	<10

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36162- 11

QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/14/04	214648	DSC	<1.0
04/19/04	214807	MSG	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/14/04	214648	DSC	40	40.2	101	90-110
04/19/04	214807	MSG	40	39.6	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/14/04	94478	DSC	<1.0
04/19/04	94548	MSG	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/14/04	94478	DSC	25	25.6	102	86-123
04/19/04	94548	MSG	25	24.4	98	86-123

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QUALITY CONTROL REPORT

Parameter: **Iron, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/16/04	214777	DWJ	<20
04/20/04	214886	DWJ	<20
04/21/04	214891	KLVM	<20

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/16/04	214777	DWJ	500	468	94	90-110
04/20/04	214886	DWJ	500	473	95	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/16/04	94563	DWJ	<20
04/20/04	94643	DWJ	<20

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/16/04	94563	DWJ	250	251	100	83-118
04/20/04	94643	DWJ	250	246	98	83-118

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36162- 11

QUALITY CONTROL REPORT

Parameter: **Magnesium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/16/04	214777	DWJ	<0.50
04/20/04	214886	DWJ	<0.50
04/21/04	214891	KLVM	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/16/04	214777	DWJ	5.0	4.92	98	90-110
04/20/04	214886	DWJ	5.0	5.00	100	90-110
04/21/04	214891	KLVM	5.0	4.96	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/16/04	94563	DWJ	<0.50
04/20/04	94643	DWJ	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/16/04	94563	DWJ	12.5	12.6	101	87-115
04/20/04	94643	DWJ	12.5	12.4	99	87-115

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/16/04	214777	DWJ	<10
04/20/04	214886	DWJ	<10
04/21/04	214891	KLVM	<10

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36162- 11

QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/14/04	214648	DSC	<10
04/19/04	214807	MSG	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/14/04	214648	DSC	40	42.7	107	90-110
04/19/04	214807	MSG	40	41.7	104	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/14/04	94478	DSC	<10
04/19/04	94548	MSG	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/14/04	94478	DSC	25	26.1	104	84-126
04/19/04	94548	MSG	25	22.4	90	84-126

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36162- 11

QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/16/04	214777	DWJ	<10

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/14/04	214648	DSC	<1.0
04/15/04	214760	MSG	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/14/04	214648	DSC	40	40.0	100	90-110
04/15/04	214760	MSG	40	41.8	105	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/14/04	94478	DSC	<1.0
04/15/04	94548	MSG	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/14/04	94478	DSC	25	25.1	100	82-124
04/15/04	94548	MSG	25	26.4	106	82-124

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Ammonia**
Method: Colorimetric, Automated Phenate 350.1/4500 NH3G WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/15/04	214772	GEH	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/15/04	214772	GEH	1.25	1.25	100	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrate**
Method: Colorimetric, Auto-Cadmium Reduction 353.2/4500 NO3F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/07/04	214547	HLB	<0.05
04/09/04	214706	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	214547	HLB	0.404	0.411	102	90-110
04/09/04	214706	HLB	0.404	0.417	103	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrite**
Method: Colorimetric, Automated USEPA-353.2 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/07/04	214565	HLB	<0.05
04/09/04	214707	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	214565	HLB	0.50	0.51	102	90-110
04/09/04	214707	HLB	0.50	0.50	100	90-110

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QUALITY CONTROL REPORT

Parameter: **Potassium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/16/04	214777	DWJ	<0.10
04/20/04	214886	DWJ	<0.10
04/21/04	214891	KLVM	<0.10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/16/04	214777	DWJ	5.0	4.89	98	90-110
04/20/04	214886	DWJ	5.0	4.93	99	90-110
04/21/04	214891	KLVM	5.0	4.87	97	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/16/04	94563	DWJ	<0.10
04/20/04	94643	DWJ	<0.10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/16/04	94563	DWJ	12.5	13.0	104	87-125
04/20/04	94643	DWJ	12.5	12.4	99	87-125

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QUALITY CONTROL REPORT

Parameter: **Residue,Dissolved @ 180*C**
Method: Residue-Gravimetric, Dried @ 180*C 160.1/SM 2540 C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/09/04	214685	INR	<2.5
04/13/04	214799	INR	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/09/04	214685	INR	571.6	568	99	90-108
04/13/04	214799	INR	571.6	534	93	90-108

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QUALITY CONTROL REPORT

Parameter: **Residue, Suspended**
Method: Residue-Gravimetric, **Dried @ 103-105*C** 160.2/SM 2540 D WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/09/04	214724	INR	<2.5
04/13/04	214805	INR	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/09/04	214724	INR	49	52	106	89-106
04/13/04	214805	INR	48.6	45	93	89-106

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36162- 11

QUALITY CONTROL REPORT

Parameter: **Sodium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/16/04	214777	DWJ	<0.50
04/20/04	214886	DWJ	<0.50
04/21/04	214891	KLVM	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/16/04	214777	DWJ	5.0	4.77	95	90-110
04/20/04	214886	DWJ	5.0	4.86	97	90-110
04/21/04	214891	KLVM	5.0	4.91	98	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/16/04	94563	DWJ	<0.50
04/20/04	94643	DWJ	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/16/04	94563	DWJ	12.5	12.5	100	86-117
04/20/04	94643	DWJ	12.5	12.3	98	86-117

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QUALITY CONTROL REPORT

Parameter: **Sulfate**
Method: Turbidimetric Method (Manual) EPA-375.4/9038 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/14/04	214729	JLB	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/14/04	214729	JLB	13.5	13.5	100	85-113

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QUALITY CONTROL REPORT

Parameter: **Turbidity**
Method: Nephelometric USEPA-180.1 WATER
Units: NTU

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/07/04	214657	HLB	<1.0
04/08/04	214720	HLB	<1.0
04/09/04	214719	HLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/07/04	214657	HLB	402	385	96	90-110
04/08/04	214720	HLB	402	387	96	90-110
04/09/04	214719	HLB	402	386	96	90-110

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Chain of Custody Record

COC No. 098713

Page 1 of 1

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Cart: 5
VOA Rack/Tray:
Receipt Log No.: 11-4
Project Chemist: JLK
Laboratory Project No.: 30102-11

Client Name: North Jackson Co.
Address: PO Box 30
Negaunee, MI 49866
Phone: 906-475-9865
Fax: 906-475-0238

Project Name: Eagle
Client Project No. / P.O. No.:
Invoice To: [X] Client [ ] Other (comments)
Contact/Report To: Dan Wittala

Analyses Requested

Preservatives: A NONE pH~7; B HNO_3 pH<2; C H_2SO_4 pH<2; D 1+1 HCl pH<2; E NaOH pH>12; F ZnAc/NaOH pH>9; G MeOH; H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List)						Total	Sample Comments
										Total Metals (Fe, Al, Ba, Cu, Mn, Ni); Major Anions (Bicarb, Alk, Carbonate Alk); Ammonia-N, Chloride, Nitrate-N, Nitrite-N, Ortho-P; Dissolved Metals (Ca, Fe, K, Mg, Mn, Na); TOC		General (Hardness, pH); TDS, Total Alk, COD, BOD, Color, Turbidity)					
										6	4		15	11	3		
										Number of Containers Submitted							
SO	WS		1 CDRMS004 EAG-1001068	TM0043 1 of 1	4/8/04	12:30		X	H_2O	1	1		1	3	3	9	
			2 CDRAS002 EAG-1001069	1 of 1	4/8/04	14:00		X	H_2O	1	1		1	3	3	9	
			3 EQBS-001 EAG-1001070	1 of 1	4/8/04	15:35		X	H_2O	1	1		1	3	3	9	
			4														
			5														
			6														
			7														
			8														
			9														
			10														

Sampled By (print): Pete Kovo
Sampler's Signature: Pete Kovo
Company: North Jackson Co.

How Shipped? Hand Carrier FedEx
Tracking No.: 7924 6891 1926

Comments:

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
Pete Kovo	4/8/04	18:30						
1. Received By	Date	Time	2. Received By	Date	Time	3. Received for Lab By	Date	Time
						Dan Parker	4/9/04	8:40

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COC No. 93281

Page 1 of 1

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Cart: 4
VOA Rack/Tray: NA
Receipt Log No.: 7-4
Project Chemist: JV
Laboratory Project No.: 3,160

Client Name: North Jackson Company
Address: PO Box 30
Negaunee, MI 49866
Phone: 906-475-9865
Fax: 906-475-0238

Project Name: Eagle
Client Project No. / P.O. No.:
Invoice To: ☒ Client ☐ Other (comments)
Contact/Report To: Don Wiitala

Analyses Requested

Total Metals (Iron, Arsenic, Barium, Calcium, Manganese, Nickel), Major Anions (Bicarbonate as HCO3, Carbonate as HCO3, Ammonia-N, Chloride, Nitrate-N, Nitrite-N, Sulfate), Dissolved Metals (Calcium, Iron, Magnesium, Sodium), Total Organic Carbon, General (Hardness, TDS, TSS, COD, BOD, Color, Turbidity)

Container Type (corresponds to Container Packing List): 6 4 15 11 3

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Number of Containers Submitted					Total	Sample Comments
~~WS~~			1	YDRMS001 EAG-1001059					X	H_2O	~~1~~	1	1	3	3	9	
2	WS		2	YDRMS002 EAG-1001060	1 of 1	4/6/04	15:00		X	H_2O	1	1	1	3	3	9	
1	1		3	YDRMS003 EAG-1001061	1 of 1	4/6/04	12:00		X	H_2O	1	1	1	3	3	9	
			4														
			5														
			6														
			7														
			8														
			9														
			10														

Sampled By (print): Pete Kero
Sampler's Signature: Pete Kero
Company: North Jackson Company

How Shipped? Hand Carrier FedEx
Tracking No.: 7918 1266 1453

Comments

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
Pete Kero	4/6/04	18:00						
1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
						LKP	4-7-04	08:45

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COC No. 098714

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Cart: 5
VOA Rack/Tray:
Receipt Log No.: 4-5
Project Chemist: VC
Laboratory Project No.: 26162 11

Client Name: North Jackson Co
Address: PO Box 30
Negaunee, MI 49866
Phone: 906-475-9865
Fax: 906-475-0238

Project Name: Eagle
Client Project No. / P.O. No.:
Invoice To: ☒ Client ☐ Other (comments)
Contact/Report To: Dan Wiitala

Analyses Requested

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

	Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List)					Total	Sample Comments
											6	4	15	11	3		
											Number of Containers Submitted						
1				STRMS001 EAG-1001063	TM0093 1 of 2	4/7/04	10:30		X	H_2O	1	1	1	3	3	9	
2				STRMS002 EAG-1001062	1 of 2	4/7/04	11:00		X	H_2O	1	1	1	3	3	9	
3				STRMS003 EAG-1001064	TM0640 2 of 2	4/7/04	14:15		X	H_2O	1	1	1	3	3	9	
4				YDRMS001 EAG-1001059	TM0093 1 of 2	4/7/04	10:00		X	H_2O	1	1	1	3	3	9	
5				STRWS001 EAG-1001065	TM0640 2 of 2	4/7/04	13:30		X	H_2O	1	1	1	3	3	9	
6				DUPS001 EAG-1001067	2 of 2	4/7/04	13:20		X	H_2O	1	1	1	3	3	9	
7				STRES001 EAG-1001066	2 of 2	4/7/04	15:15		X	H_2O	1	1	1	3	3	9	
8																	
9																	
10																	

Sampled By (print): Pete Kero
Sampler's Signature: Pete Kero
Company: North Jackson Co.

How Shipped? Hand Carrier FedEx
Tracking No.: 7924 6891 0014

Comments:

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
						Joe Parker	4/8/04	8:55

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May 3, 2004

North Jackson Company
Attn: Mr. Peter Sabee
420 Rail Street
Negaunee, MI 49866

RE: Eagle
Submittal Number: 36162-12

Dear Mr. Peter Sabee:

Enclosed is a copy of your laboratory report for test samples received by our laboratory on April 15, 2004.

Please note that the test results of the enclosed analyses relate only to the sample(s) as received at the laboratory, and are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC) standards. Qualification of test standards, including sample acceptance requirements, are presented within the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosure(s)

The total number of pages in this report, including this page, is 53.

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36162- 12

STATEMENT OF DATA QUALIFICATIONS

All analyses have been validated and comply with our Quality Control Program. No qualifications required.

Page 1 - **End of Statement of Data Qualifications**

Note: This document is included as a part of the analytical report for the above referenced project and submittal, and should be retained as a permanent record thereof.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/13/04 @ 14:15
Sampler: PS
Received: 04/14/04 @ 08:40

Submittal #: **36162-12**
Submittal: Week of April 12, 2004

Sample ID: **QALM003A EAG-100108 7**
Sample #: **358284**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	75	2.0	mg/L	04/15/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	04/15/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	04/20/04	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	04/20/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	04/16/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	04/14/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	108	50	mg/L	04/15/04	INR	160.1/SM 2540 C
Calcium, Dissolved	21	0.50	mg/L	04/27/04	DWJ	EPA-200.7/6010B
Potassium, Dissolved	0.71	0.50	mg/L	04/27/04	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	5.9	0.50	mg/L	04/27/04	DWJ	EPA-200.7/6010B
Sodium, Dissolved	1.7	0.50	mg/L	04/27/04	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	04/28/04	DSC	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	04/28/04	DSC	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	04/28/04	DSC	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	04/28/04	DSC	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	04/30/04	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	04/28/04	DSC	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	04/28/04	DSC	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	04/28/04	DSC	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	04/28/04	DSC	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	04/28/04	DSC	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	04/28/04	DSC	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	04/28/04	DSC	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	04/28/04	DSC	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	04/28/04	DSC	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/13/04 @ 14:45
Sampler: PS
Received: 04/14/04 @ 08:40

Submittal #: **36162-12**
Submittal: Week of April 12, 2004

Sample ID: **QALM003B EAG-100108 8**
Sample #: **358285**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	77	2.0	mg/L	04/15/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	04/15/04	VAS	310.1/SM 2320 B
Chloride	1.8	1.0	mg/L	04/20/04	JLB	325.2/4500-CL E
Sulfate	5.9	5.0	mg/L	04/20/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	04/16/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	04/14/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	108	50	mg/L	04/15/04	INR	160.1/SM 2540 C
Calcium, Dissolved	20	0.50	mg/L	04/27/04	DWJ	EPA-200.7/6010B
Potassium, Dissolved	2.4	0.50	mg/L	04/27/04	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	5.9	0.50	mg/L	04/27/04	DWJ	EPA-200.7/6010B
Sodium, Dissolved	2.2	0.50	mg/L	04/27/04	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	04/28/04	DSC	EPA-200.8/6020
Arsenic, Dissolved	5.2	2.0	ug/L	04/28/04	DSC	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	04/28/04	DSC	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	04/28/04	DSC	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	04/30/04	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	04/28/04	DSC	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	04/28/04	DSC	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	04/28/04	DSC	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	04/28/04	DSC	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	04/28/04	DSC	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	04/28/04	DSC	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	04/28/04	DSC	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	04/28/04	DSC	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	04/28/04	DSC	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/13/04 @ 00:00
Sampler: PS
Received: 04/14/04 @ 08:40

Submittal #: **36162-12**
Submittal: Week of April 12, 2004

Sample ID: **DUP001 EAG-100108 9**
Sample #: **358286**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	77	2.0	mg/L	04/15/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	04/15/04	VAS	310.1/SM 2320 B
Chloride	1.6	1.0	mg/L	04/20/04	JLB	325.2/4500-CL E
Sulfate	5.6	5.0	mg/L	04/20/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	04/16/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	3.1	0.50	mg/L	04/14/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	86	50	mg/L	04/15/04	INR	160.1/SM 2540 C
Calcium, Dissolved	20	0.50	mg/L	04/27/04	DWJ	EPA-200.7/6010B
Potassium, Dissolved	2.5	0.50	mg/L	04/27/04	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	5.8	0.50	mg/L	04/27/04	DWJ	EPA-200.7/6010B
Sodium, Dissolved	2.3	0.50	mg/L	04/27/04	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	04/28/04	DSC	EPA-200.8/6020
Arsenic, Dissolved	5.2	2.0	ug/L	04/28/04	DSC	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	04/28/04	DSC	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	04/28/04	DSC	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	04/30/04	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	04/28/04	DSC	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	04/28/04	DSC	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	04/28/04	DSC	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	04/28/04	DSC	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	04/28/04	DSC	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	04/28/04	DSC	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	04/28/04	DSC	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	04/28/04	DSC	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	04/28/04	DSC	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/14/04 @ 12:20
Sampler: P. Sabee
Received: 04/15/04 @ 08:35

Submittal #: **36162-12**
Submittal: Week of April 12, 2004

Sample ID: **QALM004A EAG-100109 0**
Sample #: **358344**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	50	2.0	mg/L	04/22/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	04/22/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	04/20/04	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	04/20/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	04/16/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	0.08	0.05	mg/L	04/15/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	62	50	mg/L	04/16/04	INR	160.1/SM 2540 C
Calcium, Dissolved	12	0.50	mg/L	04/27/04	DWJ	EPA-200.7/6010B
Potassium, Dissolved	0.73	0.50	mg/L	04/27/04	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	2.1	0.50	mg/L	04/27/04	DWJ	EPA-200.7/6010B
Sodium, Dissolved	1.8	0.50	mg/L	04/27/04	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	04/26/04	MSG	EPA-200.8/6020
Arsenic, Dissolved	4.8	2.0	ug/L	04/26/04	MSG	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	04/26/04	MSG	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	04/28/04	DSC	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	04/30/04	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	04/26/04	MSG	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	04/26/04	MSG	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	04/26/04	MSG	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Molybdenum, Dissolved	40	10	ug/L	04/26/04	MSG	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	04/26/04	MSG	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	04/26/04	MSG	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	04/26/04	MSG	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	04/26/04	MSG	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	04/26/04	MSG	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/14/04 @ 12:45
Sampler: P. Sabee
Received: 04/15/04 @ 08:35

Submittal #: **36162-12**
Submittal: Week of April 12, 2004

Sample ID: **QALM004D EAG-100109 1**
Sample #: **358345**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	89	2.0	mg/L	04/22/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	04/22/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	04/20/04	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	04/20/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	04/16/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	04/15/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	84	50	mg/L	04/16/04	INR	160.1/SM 2540 C
Calcium, Dissolved	25	0.50	mg/L	04/27/04	DWJ	EPA-200.7/6010B
Potassium, Dissolved	1.3	0.50	mg/L	04/27/04	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	3.2	0.50	mg/L	04/27/04	DWJ	EPA-200.7/6010B
Sodium, Dissolved	2.8	0.50	mg/L	04/27/04	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	04/26/04	MSG	EPA-200.8/6020
Arsenic, Dissolved	8.4	2.0	ug/L	04/26/04	MSG	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	04/26/04	MSG	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	04/28/04	DSC	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	04/30/04	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	04/26/04	MSG	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	04/26/04	MSG	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	04/26/04	MSG	EPA-200.8/6020
Iron, Dissolved	100	20	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Manganese, Dissolved	52	20	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	04/26/04	MSG	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	04/26/04	MSG	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	04/26/04	MSG	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	04/26/04	MSG	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	04/26/04	MSG	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	04/26/04	MSG	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/14/04 @ 15:00
Sampler: P. Sabee
Received: 04/15/04 @ 08:35

Submittal #: **36162-12**
Submittal: Week of April 12, 2004

Sample ID: **QALM001A EAG-100109 2**
Sample #: **358346**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	31	2.0	mg/L	04/22/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	04/22/04	VAS	310.1/SM 2320 B
Chloride	1.1	1.0	mg/L	04/20/04	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	04/20/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	04/16/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	04/15/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	52	50	mg/L	04/16/04	INR	160.1/SM 2540 C
Calcium, Dissolved	8.6	0.50	mg/L	04/27/04	DWJ	EPA-200.7/6010B
Potassium, Dissolved	0.82	0.50	mg/L	04/27/04	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	1.5	0.50	mg/L	04/27/04	DWJ	EPA-200.7/6010B
Sodium, Dissolved	1.7	0.50	mg/L	04/27/04	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	04/26/04	MSG	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	04/26/04	MSG	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	04/26/04	MSG	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	04/28/04	DSC	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	04/30/04	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	04/26/04	MSG	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	04/26/04	MSG	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	04/26/04	MSG	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	04/26/04	MSG	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	04/26/04	MSG	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	04/26/04	MSG	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	04/26/04	MSG	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	04/26/04	MSG	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	04/26/04	MSG	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/15/04 @ 10:30
Sampler: D.W.
Received: 04/16/04 @ 08:35

Submittal #: **36162-12**
Submittal: Week of April 12, 2004

Sample ID: **QALM001D EAG-100109 3**
Sample #: **358563**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	92	2.0	mg/L	04/22/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	04/22/04	VAS	310.1/SM 2320 B
Chloride	11	1.0	mg/L	04/20/04	JLB	325.2/4500-CL E
Sulfate	33	5.0	mg/L	04/20/04	JLB	EPA-375.4/9038
Fluoride	0.17	0.10	mg/L	04/23/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	0.06	0.05	mg/L	04/16/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	284	50	mg/L	04/19/04	INR	160.1/SM 2540 C
Calcium, Dissolved	10	0.50	mg/L	04/27/04	DWJ	EPA-200.7/6010B
Potassium, Dissolved	0.95	0.50	mg/L	04/27/04	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	2.5	0.50	mg/L	04/27/04	DWJ	EPA-200.7/6010B
Sodium, Dissolved	29	0.50	mg/L	04/27/04	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	04/26/04	MSG	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	04/26/04	MSG	EPA-200.8/6020
Barium, Dissolved	47	20	ug/L	04/26/04	MSG	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	04/28/04	DSC	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	04/30/04	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	04/26/04	MSG	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	04/26/04	MSG	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	04/26/04	MSG	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	04/26/04	MSG	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	04/26/04	MSG	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	04/26/04	MSG	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	04/26/04	MSG	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	04/26/04	MSG	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	04/26/04	MSG	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/15/04 @ 12:00
Sampler: D.W.
Received: 04/16/04 @ 08:35

Submittal #: **36162-12**
Submittal: Week of April 12, 2004

Sample ID: **QALM005A EAG-100109 4**
Sample #: **358564**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	6.5	2.0	mg/L	04/22/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	04/22/04	VAS	310.1/SM 2320 B
Chloride	1.0	1.0	mg/L	04/20/04	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	04/20/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	04/23/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	04/16/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	04/19/04	INR	160.1/SM 2540 C
Calcium, Dissolved	1.7	0.50	mg/L	04/27/04	DWJ	EPA-200.7/6010B
Potassium, Dissolved	0.73	0.50	mg/L	04/27/04	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	04/27/04	DWJ	EPA-200.7/6010B
Sodium, Dissolved	0.89	0.50	mg/L	04/27/04	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	04/26/04	MSG	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	04/26/04	MSG	EPA-200.8/6020
Barium, Dissolved	27	20	ug/L	04/26/04	MSG	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	04/28/04	DSC	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	04/30/04	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	04/26/04	MSG	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	04/26/04	MSG	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	04/26/04	MSG	EPA-200.8/6020
Iron, Dissolved	240	20	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Manganese, Dissolved	140	20	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	04/26/04	MSG	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	04/26/04	MSG	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	04/26/04	MSG	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	04/26/04	MSG	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	04/26/04	MSG	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	04/26/04	MSG	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/15/04 @ 13:45
Sampler: D.W.
Received: 04/16/04 @ 08:35

Submittal #: **36162-12**
Submittal: Week of April 12, 2004

Sample ID: **QALM005D EAG-100109 5**
Sample #: **358565**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	96	2.0	mg/L	04/22/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	04/22/04	VAS	310.1/SM 2320 B
Chloride	1.1	1.0	mg/L	04/20/04	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	04/20/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	04/23/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	04/16/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	104	50	mg/L	04/19/04	INR	160.1/SM 2540 C
Calcium, Dissolved	28	0.50	mg/L	04/27/04	DWJ	EPA-200.7/6010B
Potassium, Dissolved	1.0	0.50	mg/L	04/27/04	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	3.3	0.50	mg/L	04/27/04	DWJ	EPA-200.7/6010B
Sodium, Dissolved	1.5	0.50	mg/L	04/27/04	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	04/26/04	MSG	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	04/26/04	MSG	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	04/26/04	MSG	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	04/28/04	DSC	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	04/30/04	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	04/26/04	MSG	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	04/26/04	MSG	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	04/26/04	MSG	EPA-200.8/6020
Iron, Dissolved	540	20	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Manganese, Dissolved	180	20	ug/L	04/27/04	DWJ	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	04/26/04	MSG	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	04/26/04	MSG	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	04/26/04	MSG	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	04/26/04	MSG	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	04/26/04	MSG	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	04/26/04	MSG	EPA-200.8/6020

End of Analytical Report

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Bicarbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/15/04	214735	VAS	<2.0
04/22/04	215068	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/15/04	214735	VAS	238	248	104	93-105
04/22/04	215068	VAS	238	246	103	93-105

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Carbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/15/04	214735	VAS	<2.0
04/22/04	215068	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/15/04	214735	VAS	377	360	95	81-107
04/22/04	215068	VAS	377	369	98	81-107

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QUALITY CONTROL REPORT

Parameter: **Aluminum, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/27/04	215217	DWJ	<100

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/27/04	215217	DWJ	2500	2433	97	90-110

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QUALITY CONTROL REPORT

Parameter: **Antimony, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/26/04	215171	MSG	<2.0
04/28/04	215286	DSC	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/26/04	215171	MSG	40	40.6	102	90-110
04/28/04	215286	DSC	40	41.1	103	90-110

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/26/04	215171	MSG	<1.0
04/28/04	215286	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/26/04	215171	MSG	40	41.4	104	90-110
04/28/04	215286	DSC	40	40.3	101	90-110

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/28/04	215286	DSC	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/26/04	215171	MSG	40	40.8	102	90-110
04/28/04	215286	DSC	40	37.5	94	90-110

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QUALITY CONTROL REPORT

Parameter: **Beryllium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/26/04	215171	MSG	<1.0
04/28/04	215301	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/28/04	215301	DSC	40	41.4	104	90-110

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36162- 12

QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/27/04	215217	DWJ	<10

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QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/26/04	215171	MSG	<0.2
04/28/04	215286	DSC	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/26/04	215171	MSG	40	39.7	99	90-110
04/28/04	215286	DSC	40	38.6	97	90-110

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36162- 12

QUALITY CONTROL REPORT

Parameter: **Chloride**
Method: Colorimetric, Automated Ferricyanide 325.2/4500-CL E WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/20/04	214942	JLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/04	214942	JLB	43.5	42.2	97	94-109

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QUALITY CONTROL REPORT

Parameter: **Chromium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/27/04	215217	DWJ	<20

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QUALITY CONTROL REPORT

Parameter: **Chromium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/26/04	215171	MSG	<1.0
04/28/04	215286	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/26/04	215171	MSG	40	41.6	104	90-110
04/28/04	215286	DSC	40	40.4	101	90-110

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QUALITY CONTROL REPORT

Parameter: **Cobalt, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/27/04	215217	DWJ	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/27/04	215217	DWJ	500	484	97	90-110

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QUALITY CONTROL REPORT

Parameter: **Cobalt, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/26/04	215171	MSG	<10

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36162- 12

QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/26/04	215171	MSG	<1.0
04/28/04	215286	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/26/04	215171	MSG	40	40.8	102	90-110
04/28/04	215286	DSC	40	40.6	102	90-110

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QUALITY CONTROL REPORT

Parameter: **Fluoride**
Method: Potentiometric, Ion Selective Electrode SM 4500 F-C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/16/04	214917	VAS	<0.10
04/23/04	215061	VAS	<0.10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/16/04	214917	VAS	0.95	0.91	96	88-116
04/23/04	215061	VAS	0.95	0.91	96	88-116

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36162- 12

QUALITY CONTROL REPORT

Parameter: **Iron, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/27/04	215217	DWJ	<20

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/27/04	215217	DWJ	500	492	98	90-110

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36162- 12

QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/27/04	215217	DWJ	<50

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36162- 12

QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/26/04	215171	MSG	<1.0
04/28/04	215286	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/26/04	215171	MSG	40	41.8	105	90-110
04/28/04	215286	DSC	40	37.6	94	90-110

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36162- 12

QUALITY CONTROL REPORT

Parameter: **Lithium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/27/04	215217	DWJ	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/27/04	215217	DWJ	500	467	93	90-110

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36162- 12

QUALITY CONTROL REPORT

Parameter: **Magnesium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/27/04	215217	DWJ	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/27/04	215217	DWJ	5.0	4.86	97	90-110

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Individual sample results relate only to the sample tested.

QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/27/04	215217	DWJ	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/27/04	215217	DWJ	500	485	97	90-110

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36162- 12

QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/28/04	215286	DSC	<10

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Individual sample results relate only to the sample tested.

36162- 12

QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/26/04	215171	MSG	<1.0
04/28/04	215286	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/26/04	215171	MSG	40	42.4	106	90-110
04/28/04	215286	DSC	40	39.8	100	90-110

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36162- 12

QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrate**
Method: Colorimetric, Auto-Cadmium Reduction 353.2/4500 NO3F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/14/04	214829	HLB	<0.05
04/15/04	214952	HLB	<0.05
04/16/04	215034	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/14/04	214829	HLB	0.404	0.418	103	90-110
04/15/04	214952	HLB	0.404	0.430	106	90-110
04/16/04	215034	HLB	0.404	0.442	109	90-110

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36162- 12

QUALITY CONTROL REPORT

Parameter: **Potassium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/27/04	215217	DWJ	<0.10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/27/04	215217	DWJ	5.0	4.78	96	90-110

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36162- 12

QUALITY CONTROL REPORT

Parameter: **Residue,Dissolved @ 180*C**
Method: Residue-Gravimetric, Dried @ 180*C 160.1/SM 2540 C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/15/04	214928	INR	<2.5
04/16/04	214920	INR	<2.5
04/19/04	214922	INR	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/15/04	214928	INR	571.6	591	103	90-108
04/16/04	214920	INR	571.6	556	97	90-108
04/19/04	214922	INR	571.6	573	100	90-108

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36162- 12

QUALITY CONTROL REPORT

Parameter: **Selenium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/26/04	215171	MSG	<1.0
04/28/04	215286	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/26/04	215171	MSG	40	42.4	106	90-110
04/28/04	215286	DSC	40	41.2	103	90-110

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36162- 12

QUALITY CONTROL REPORT

Parameter: **Silver, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/26/04	215171	MSG	<0.2
04/28/04	215286	DSC	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/26/04	215171	MSG	40	40.7	102	90-110
04/28/04	215286	DSC	40	39.9	100	90-110

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QUALITY CONTROL REPORT

Parameter: **Sodium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/27/04	215217	DWJ	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/27/04	215217	DWJ	5.0	4.75	95	90-110

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QUALITY CONTROL REPORT

Parameter: **Sulfate**
Method: Turbidimetric Method (Manual) EPA-375.4/9038 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/20/04	214945	JLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/04	214945	JLB	13.5	12.8	95	85-113

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QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/26/04	215171	MSG	<10
04/28/04	215301	DSC	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/26/04	215171	MSG	40	40.2	101	90-110
04/28/04	215301	DSC	40	40.0	100	90-110

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Chain of Custody Record

COC No. 096328

Page 1 of 1

For Lab Use Only
Cart 7
VOA Rack/Tray
Receipt Log No. 19-07
Project Chemist Sue
Laboratory Project No. 36162-12

Client Name: North Jackson
Address: PO Box 30
Negaunee, MI 49866
Phone: 906-475-9865
Fax:

Project Name: Eagle
Client Project No. / P.O. No.
Invoice To: [illegible] Chem
Other (comments)
Contact/Report To

Analyses Requested

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

	Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type A (#3)	Container Type B (15)	Total	Sample Comments
1	04	W6	358284	QALM003A	TM0506	4-13-07	2:15		x	wtr	2	1	3	EAG-1001087
2			358285	QALM003B	TM0506		2:45		x		2	1	3	EAG-1001088
3			358286	EAG-1001089	TM0506				x		2	1	3	
4														
5														
6														
7														
8														
9														
10														

Container Type (corresponds to Container Packing List)
Number of Containers Submitted

Sampled By (print): Peter Sabre Paulson
Sampler's Signature: Peter Sabre Paulson
Company: North Jackson

How Shipped? Hand Carrier Fed Ex
Tracking No. 3926 1609 4742

Comments

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
Peter Sabre Paulson	4.13.07	1700						

1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
						JAF	4/16/07	08:40

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COC No. 67906

Project Manager	Project Name	For Lab Use Only
Witala	EAGLE	Rack/Tray No:
Project No.	Sampler (Print): Peter Sabee	Lab Project #: 36162-12
	Sampler Signature: P Sabee	

Date Sampled	Time Sampled	Matrix* (WG / WS)	Composite	Grab	Sample Identification	No. of Containers	Container Type	Analysis Required/Comments	Sample No.	Filtered Date/Time
4/14/04	1220	WTR		X	QALM004A EAG-1001090	3		See List	358344	04
↓	1245	↓		X	QALM004B EAG-1001091	↓		↓	358345	↓
↓	1500	↓		X	QALM001A EAG-1001092	↓		↓	358346	↓

No's Correspond to Bottle Packing List

Relinquished By:	Date/Time	Received By:	Received to Lab By:	Date/Time	Logged in By:	Date/Time
P Sabee	4/14/04 1700		John [illegible]	4/15/04 08:35		

* Matrix: Water (WTR), Wastewater (WW), Soil (SOIL), Sludge (SLG), Air, Oil, Waste (WASTE)

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Chain of Custody Record

COC No. 098716

Page ____ of ____

For Lab Use Only
Cart: 5
VOA Rack/Tray: NA
Receipt Log No.: 23-5
Project Chemist:
Laboratory Project No.: 36062-12

Client Name: North Jackson Co
Address: 420 Rail Street
Negaunee MI 49866
Phone: 906-475-9865
Fax: -0238

Project Name: EAGLE
Client Project No. / P.O. No.: EAGLE
Invoice To: ☐ Client ☒ ~~Other~~ (comments)
Contact/Report To: Client

Analyses Requested

⇦ PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type A	Container Type B	Total	Sample Comments
											Number of Containers Submitted: 3	6		
		358563	1	QALM001D	TMO 611	4-15-04	1030		X	GW	2	1	3	
		358564	2	QALM005A	↓	4-15-04	1200		X	GW	2	1	3	
		358565	3	QALM005D	↓	4-15-04	1345		X	GW	2	1	3	
			4											
			5											
			6											
			7											
			8											
			9											
			10											

Sampled By (print): Dan Wiitala
Sampler's Signature: Dan Wiitala
Company: North Jackson Co

How Shipped? Hand Carrier FedEx
Tracking No.: 7926 1737 9493

Comments: INVOICE TO Kennecott

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
Dan Wiitala	4-15-04	18:25						
1. Received By	**Date**	**Time**	**2. Received By**	**Date**	**Time**	**3. Received For Lab By**	**Date**	**Time**
						SAF	4/16/04	08:30

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May 18, 2004

North Jackson Company
Attn: Mr. Peter Sabee
420 Rail Street
Negaunee, MI 49866

RE: Eagle
Submittal Number: 36162-13

Dear Mr. Peter Sabee:

Enclosed is a copy of your laboratory report for test samples received by our laboratory on April 30, 2004.

Please note that the test results of the enclosed analyses relate only to the sample(s) as received at the laboratory, and are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC) standards. Qualification of test standards, including sample acceptance requirements, are presented within the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosure(s)

The total number of pages in this report, including this page, is 50.

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36162- 13

STATEMENT OF DATA QUALIFICATIONS

All analyses have been validated and comply with our Quality Control Program. No qualifications required.

Page 1 - **End of Statement of Data Qualifications**

Note: This document is included as a part of the analytical report for the above referenced project and submittal, and should be retained as a permanent record thereof.

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36162- 13

CASE NARRATIVE

Analysis: **Nitrogen, Nitrate**
Colorimetric, Auto-Cadmium Reduction
WATER 353.2/4500 NO3F

Narrative:

Nitrite Nitrogen was analyzed on this sample within the mandated USEPA 48 hour holding time. The sample was also chemically preserved and later analyzed for Nitrate+Nitrite Nitrogen within the 28 day USEPA mandated hold time. Nitrate Nitrogen was calculated by subtraction (NO3+NO2-NO2=NO3).

Sample(s) Narrated:				
	359464	QALM002A	EAG-	1001101
	359465	QALM006A	EAG-	1001096
	359466	QALM006B	EAG-	1001098
	359467	DUP-001	EAG-	1001102
	359468	DUP-002	EAG-	1001097
	359469	DUP-003	EAG-	1001099

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/28/04 @ 11:20
Sampler: D. Wiitala
Received: 04/29/04 @ 08:40

Submittal #: **36162-13**
Submittal: Week of April 28, 2004

Sample ID: **QALM002A EAG- 1001101**
Sample #: **359464**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	33	2.0	mg/L	04/30/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	04/30/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	05/03/04	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	05/03/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	04/30/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	0.18	0.05	mg/L	04/30/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	56	50	mg/L	04/30/04	INR	160.1/SM 2540 C
Calcium, Dissolved	8.9	0.50	mg/L	05/13/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.56	0.50	mg/L	05/13/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	0.96	0.50	mg/L	05/13/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	05/13/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	05/13/04	DSC	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	05/13/04	DSC	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	05/13/04	DSC	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	05/13/04	DSC	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	05/13/04	DSC	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	05/13/04	DSC	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/28/04 @ 13:30
Sampler: D. Wiitala
Received: 04/29/04 @ 08:40

Submittal #: **36162-13**
Submittal: Week of April 28, 2004

Sample ID: **QALM006A EAG- 1001096**
Sample #: **359465**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	3.1	2.0	mg/L	04/30/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	04/30/04	VAS	310.1/SM 2320 B
Chloride	3.7	1.0	mg/L	05/03/04	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	05/03/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	04/30/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	0.20	0.05	mg/L	04/30/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	52	50	mg/L	04/30/04	INR	160.1/SM 2540 C
Calcium, Dissolved	1.2	0.50	mg/L	05/13/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	05/13/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	05/13/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	0.51	0.50	mg/L	05/13/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	05/13/04	DSC	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	05/13/04	DSC	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	05/13/04	DSC	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	05/13/04	DSC	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	05/13/04	DSC	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	05/13/04	DSC	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/28/04 @ 14:10
Sampler: D. Wiitala
Received: 04/29/04 @ 08:40

Submittal #: **36162-13**
Submittal: Week of April 28, 2004

Sample ID: **QALM006B EAG- 1001098**
Sample #: **359466**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	87	2.0	mg/L	04/30/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	04/30/04	VAS	310.1/SM 2320 B
Chloride	1.8	1.0	mg/L	05/03/04	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	05/03/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	04/30/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	04/30/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	158	50	mg/L	04/30/04	INR	160.1/SM 2540 C
Calcium, Dissolved	20	0.50	mg/L	05/06/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.79	0.50	mg/L	05/06/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	5.4	0.50	mg/L	05/06/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	4.3	0.50	mg/L	05/06/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	05/06/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	05/10/04	MSG	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	05/10/04	MSG	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	05/10/04	MSG	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	05/14/04	DSC	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	05/06/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	05/10/04	MSG	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	05/10/04	MSG	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	05/06/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	05/10/04	MSG	EPA-200.8/6020
Iron, Dissolved	16500	20	ug/L	05/06/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	05/06/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	150	20	ug/L	05/06/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	05/10/04	MSG	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	05/10/04	MSG	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	05/10/04	MSG	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	05/10/04	MSG	EPA-200.8/6020
Silver, Dissolved	0.6	0.2	ug/L	05/10/04	MSG	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	05/10/04	MSG	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/28/04 @ 00:00
Sampler: D. Wiitala
Received: 04/29/04 @ 08:40

Submittal #: **36162-13**
Submittal: Week of April 28, 2004

Sample ID: **DUP-001 EAG- 1001102**
Sample #: **359467**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	30	2.0	mg/L	04/30/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	04/30/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	05/03/04	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	05/03/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	04/30/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	0.18	0.05	mg/L	04/30/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	86	50	mg/L	04/30/04	INR	160.1/SM 2540 C
Calcium, Dissolved	8.9	0.50	mg/L	05/13/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.60	0.50	mg/L	05/13/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	0.96	0.50	mg/L	05/13/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	05/13/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	05/13/04	DSC	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	05/13/04	DSC	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	05/13/04	DSC	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	05/13/04	DSC	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	05/13/04	DSC	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	05/13/04	DSC	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/28/04 @ 00:00
Sampler: D. Wiitala
Received: 04/29/04 @ 08:40

Submittal #: **36162-13**
Submittal: Week of April 28, 2004

Sample ID: **DUP-002 EAG- 1001097**
Sample #: **359468**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	3.2	2.0	mg/L	04/30/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	04/30/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	05/03/04	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	05/03/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	04/30/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	0.21	0.05	mg/L	04/30/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	70	50	mg/L	04/30/04	INR	160.1/SM 2540 C
Calcium, Dissolved	1.2	0.50	mg/L	05/13/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	05/13/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	05/13/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	0.58	0.50	mg/L	05/13/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	05/13/04	DSC	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	05/13/04	DSC	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	05/13/04	DSC	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	05/13/04	DSC	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	05/13/04	DSC	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	05/13/04	DSC	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/28/04 @ 00:00
Sampler: D. Wiitala
Received: 04/29/04 @ 08:40

Submittal #: **36162-13**
Submittal: Week of April 28, 2004

Sample ID: **DUP-003 EAG- 1001099**
Sample #: **359469**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	86	2.0	mg/L	04/30/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	04/30/04	VAS	310.1/SM 2320 B
Chloride	1.9	1.0	mg/L	05/03/04	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	05/03/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	04/30/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	04/30/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	168	50	mg/L	04/30/04	INR	160.1/SM 2540 C
Calcium, Dissolved	20	0.50	mg/L	05/06/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.82	0.50	mg/L	05/06/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	5.3	0.50	mg/L	05/06/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	4.2	0.50	mg/L	05/06/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	05/06/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	05/10/04	MSG	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	05/10/04	MSG	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	05/10/04	MSG	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	05/14/04	DSC	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	05/06/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	05/10/04	MSG	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	05/10/04	MSG	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	05/06/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	05/10/04	MSG	EPA-200.8/6020
Iron, Dissolved	16300	20	ug/L	05/06/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	05/06/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	150	20	ug/L	05/06/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	05/10/04	MSG	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	05/10/04	MSG	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	05/10/04	MSG	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	05/10/04	MSG	EPA-200.8/6020
Silver, Dissolved	0.4	0.2	ug/L	05/10/04	MSG	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	05/10/04	MSG	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/29/04 @ 11:45
Sampler:
Received: 04/30/04 @ 09:00

Submittal #: **36162-13**
Submittal: Week of April 28, 2004

Sample ID: **FBK001 EAG1001103**
Sample #: **359734**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	<2.0	2.0	mg/L	05/06/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	05/06/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	05/03/04	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	05/03/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	05/07/04	JLB	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	04/30/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	05/05/04	INR	160.1/SM 2540 C
Calcium, Dissolved	<0.50	0.50	mg/L	05/13/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	05/13/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	05/13/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	05/13/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	05/13/04	DSC	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	05/13/04	DSC	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	05/13/04	DSC	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	05/13/04	DSC	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	05/13/04	DSC	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	05/13/04	DSC	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/29/04 @ 12:00
Sampler:
Received: 04/30/04 @ 09:00

Submittal #: **36162-13**
Submittal: Week of April 28, 2004

Sample ID: **FBK002 EAG1001104**
Sample #: **359735**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	<2.0	2.0	mg/L	05/06/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	05/06/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	05/03/04	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	05/03/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	05/07/04	JLB	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	04/30/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	05/05/04	INR	160.1/SM 2540 C
Calcium, Dissolved	<0.50	0.50	mg/L	05/13/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	05/13/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	05/13/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	05/13/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	05/13/04	DSC	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	05/13/04	DSC	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	05/13/04	DSC	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	05/13/04	DSC	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	05/13/04	DSC	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	05/13/04	DSC	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/29/04 @ 12:10
Sampler:
Received: 04/30/04 @ 09:00

Submittal #: **36162-13**
Submittal: Week of April 28, 2004

Sample ID: **EQB001 EAG1001105**
Sample #: **359736**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	<2.0	2.0	mg/L	05/06/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	05/06/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	05/03/04	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	05/03/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	05/07/04	JLB	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	04/30/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	05/05/04	INR	160.1/SM 2540 C
Calcium, Dissolved	<0.50	0.50	mg/L	05/13/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	05/13/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	05/13/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	05/13/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	05/13/04	DSC	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	05/13/04	DSC	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	05/13/04	DSC	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	05/13/04	DSC	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	05/13/04	DSC	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	05/13/04	DSC	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/29/04 @ 12:20
Sampler:
Received: 04/30/04 @ 09:00

Submittal #: **36162-13**
Submittal: Week of April 28, 2004

Sample ID: **EQB002 EAG1001106**
Sample #: **359737**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	<2.0	2.0	mg/L	05/06/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	05/06/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	05/03/04	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	05/03/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	05/07/04	JLB	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	04/30/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	05/05/04	INR	160.1/SM 2540 C
Calcium, Dissolved	<0.50	0.50	mg/L	05/13/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	05/13/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	05/13/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	05/13/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	05/13/04	DSC	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	05/13/04	DSC	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	05/13/04	DSC	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	05/13/04	DSC	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	05/13/04	DSC	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	05/13/04	DSC	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/29/04 @ 14:00
Sampler:
Received: 04/30/04 @ 09:00

Submittal #: **36162-13**
Submittal: Week of April 28, 2004

Sample ID: **QALM002D EAG1001100**
Sample #: **359738**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	106	2.0	mg/L	05/06/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	05/06/04	VAS	310.1/SM 2320 B
Chloride	2.1	1.0	mg/L	05/03/04	JLB	325.2/4500-CL E
Sulfate	5.6	5.0	mg/L	05/03/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	05/07/04	JLB	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	04/30/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	106	50	mg/L	05/05/04	INR	160.1/SM 2540 C
Calcium, Dissolved	24	0.50	mg/L	05/13/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	1.6	0.50	mg/L	05/13/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	4.0	0.50	mg/L	05/13/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	11	0.50	mg/L	05/13/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Barium, Dissolved	39	20	ug/L	05/13/04	DSC	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	05/13/04	DSC	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	64	20	ug/L	05/13/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	15	10	ug/L	05/13/04	DSC	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	05/13/04	DSC	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	05/13/04	DSC	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	05/13/04	DSC	EPA-200.8/6020
Zinc, Dissolved	17	10	ug/L	05/13/04	DSC	EPA-200.8/6020

End of Analytical Report

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Bicarbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/30/04	215566	VAS	<2.0
05/06/04	215813	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/30/04	215566	VAS	238	249	105	93-105
05/06/04	215813	VAS	238	250	105	93-105

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Carbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/30/04	215566	VAS	<2.0
05/06/04	215813	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/30/04	215566	VAS	377	371	98	81-107
05/06/04	215813	VAS	377	326	86	81-107

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QUALITY CONTROL REPORT

Parameter: **Aluminum, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/06/04	215700	KLVM	<100
05/13/04	216024	KLVM	<100

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/06/04	215700	KLVM	2500	2526	101	90-110
05/13/04	216024	KLVM	2500	2427	97	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/06/04	95115	KLVM	<100

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/06/04	95115	KLVM	1250	1401	112	86-120

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QUALITY CONTROL REPORT

Parameter: **Antimony, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/10/04	215891	MSG	<2.0
05/13/04	216078	DSC	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/04	215891	MSG	40	38.1	95	90-110
05/13/04	216078	DSC	40	39.8	100	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/10/04	95320	MSG	<2.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/04	95320	MSG	25	26.2	105	85-127

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/10/04	215891	MSG	<1.0
05/13/04	216078	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/04	215891	MSG	40	41.1	103	90-110
05/13/04	216078	DSC	40	40.5	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/10/04	95320	MSG	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/04	95320	MSG	25	22.1	88	85-115

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36162- 13

QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/06/04	215700	KLVM	<10

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36162- 13

QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/13/04	216078	DSC	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/04	215891	MSG	40	41.0	103	90-110
05/13/04	216078	DSC	40	39.6	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/10/04	95320	MSG	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/04	95320	MSG	25	24.2	97	86-119

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QUALITY CONTROL REPORT

Parameter: **Beryllium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/13/04	216078	DSC	<1.0
05/14/04	216117	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/13/04	216078	DSC	40	41.3	103	90-110
05/14/04	216117	DSC	40	42.8	107	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/14/04	95320	DSC	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/14/04	95320	DSC	25	22.8	91	76-125

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QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/06/04	215700	KLVM	<10

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QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/10/04	215891	MSG	<0.2
05/13/04	216078	DSC	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/04	215891	MSG	40	39.9	100	90-110
05/13/04	216078	DSC	40	39.1	98	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/10/04	95320	MSG	<0.2

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/04	95320	MSG	25	22.2	89	86-119

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36162- 13

QUALITY CONTROL REPORT

Parameter: **Chloride**
Method: Colorimetric, Automated Ferricyanide 325.2/4500-CL E WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/03/04	215510	JLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/03/04	215510	JLB	43	40.3	94	94-109

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QUALITY CONTROL REPORT

Parameter: **Chromium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/06/04	215700	KLVM	<50

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QUALITY CONTROL REPORT

Parameter: **Chromium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/10/04	215891	MSG	<1.0
05/13/04	216059	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/04	215891	MSG	40	40.8	102	90-110
05/13/04	216059	DSC	40	42.4	106	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/10/04	95320	MSG	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/04	95320	MSG	25	25.9	104	84-122

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QUALITY CONTROL REPORT

Parameter: **Cobalt, Total**
Method: Atomic Emission-ICP **EPA-200.7/6010B WATER**
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/06/04	215700	KLVM	<10
05/13/04	216024	KLVM	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/06/04	215700	KLVM	500	501	100	90-110
05/13/04	216024	KLVM	500	490	98	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/06/04	95115	KLVM	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/06/04	95115	KLVM	250	282	113	84-117

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/06/04	215700	KLVM	<10
05/13/04	216024	KLVM	<10

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/10/04	215891	MSG	<1.0
05/13/04	216078	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/04	215891	MSG	40	41.1	103	90-110
05/13/04	216078	DSC	40	40.3	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/10/04	95320	MSG	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/04	95320	MSG	25	23.4	94	86-123

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36162- 13

QUALITY CONTROL REPORT

Parameter: **Fluoride**
Method: Potentiometric, Ion Selective Electrode SM 4500 F-C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/30/04	215584	VAS	<0.10
05/07/04	215923	JLB	<0.10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/30/04	215584	VAS	0.95	0.93	98	88-116
05/07/04	215923	JLB	0.95	0.96	101	88-116

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QUALITY CONTROL REPORT

Parameter: **Iron, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/06/04	215700	KLVM	<20
05/13/04	216024	KLVM	<20

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/06/04	215700	KLVM	500	490	98	90-110
05/13/04	216024	KLVM	500	496	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/06/04	95115	KLVM	<20

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/06/04	95115	KLVM	250	279	112	83-118

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36162- 13

QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/06/04	215700	KLVM	<50

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QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/10/04	215891	MSG	<1.0
05/13/04	216078	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/04	215891	MSG	40	37.2	93	90-110
05/13/04	216078	DSC	40	36.1	90	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/10/04	95320	MSG	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/04	95320	MSG	25	22.6	90	89-119

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QUALITY CONTROL REPORT

Parameter: **Lithium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/06/04	215700	KLVM	<10
05/13/04	216038	KLVM	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/06/04	215700	KLVM	500	494	99	90-110
05/13/04	216038	KLVM	500	491	98	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/06/04	95115	KLVM	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/06/04	95115	KLVM	250	264	106	86-115

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QUALITY CONTROL REPORT

Parameter: **Magnesium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/06/04	215700	KLVM	<0.50
05/13/04	216024	KLVM	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/06/04	215700	KLVM	5.0	5.15	103	90-110
05/13/04	216024	KLVM	5.0	4.94	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/06/04	95115	KLVM	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/06/04	95115	KLVM	12.5	13.1	105	87-115

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/06/04	215700	KLVM	<10
05/13/04	216024	KLVM	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/06/04	215700	KLVM	500	504	101	90-110
05/13/04	216024	KLVM	500	492	98	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/06/04	95115	KLVM	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/06/04	95115	KLVM	250	278	111	83-118

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36162- 13

QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: Atomic Emission-ICP **EPA-200.7/6010B WATER**
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/06/04	215700	KLVM	<10
05/13/04	216024	KLVM	<10

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36162- 13

QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/10/04	215891	MSG	<1.0
05/13/04	216078	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/04	215891	MSG	40	40.2	101	90-110
05/13/04	216078	DSC	40	41.8	105	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/10/04	95320	MSG	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/04	95320	MSG	25	22.5	90	82-124

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36162- 13

QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrate**
Method: Colorimetric, Auto-Cadmium Reduction 353.2/4500 NO3F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/30/04	215611	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/30/04	215611	HLB	0.404	0.418	103	90-110

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36162- 13

QUALITY CONTROL REPORT

Parameter: **Potassium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/06/04	215700	KLVM	<0.10
05/13/04	216024	KLVM	<0.10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/06/04	215700	KLVM	5.0	5.14	103	90-110
05/13/04	216024	KLVM	5.0	5.22	104	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/06/04	95115	KLVM	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/06/04	95115	KLVM	12.5	13.2	106	87-125

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36162- 13

QUALITY CONTROL REPORT

Parameter: **Residue,Dissolved @ 180*C**
Method: Residue-Gravimetric, Dried @ 180*C 160.1/SM 2540 C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/30/04	215924	INR	<2.5
05/05/04	215794	INR	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/30/04	215924	INR	571.6	579	101	90-108
05/05/04	215794	INR	571.6	537	94	90-108

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36162- 13

QUALITY CONTROL REPORT

Parameter: **Selenium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/06/04	215700	KLVM	<100

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QUALITY CONTROL REPORT

Parameter: **Selenium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/10/04	215891	MSG	<1.0
05/13/04	216078	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/04	215891	MSG	40	41.8	105	90-110
05/13/04	216078	DSC	40	41.0	103	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/10/04	95320	MSG	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/04	95320	MSG	25	20.2	81	79-120

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QUALITY CONTROL REPORT

Parameter: **Silver, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/10/04	215891	MSG	<0.2
05/13/04	216078	DSC	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/04	215891	MSG	40	40.5	101	90-110
05/13/04	216078	DSC	40	39.7	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/10/04	95320	MSG	<0.2

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/04	95320	MSG	25	23.7	95	86-117

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QUALITY CONTROL REPORT

Parameter: **Sodium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/06/04	215700	KLVM	<0.50
05/13/04	216024	KLVM	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/06/04	215700	KLVM	5.0	4.96	99	90-110
05/13/04	216024	KLVM	5.0	4.88	98	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/06/04	95115	KLVM	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/06/04	95115	KLVM	12.5	12.9	103	86-117

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QUALITY CONTROL REPORT

Parameter: **Sulfate**
Method: Turbidimetric Method (Manual) EPA-375.4/9038 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/03/04	215528	JLB	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/03/04	215528	JLB	13.5	13.1	97	85-113

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QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/06/04	215700	KLVM	<20
05/13/04	216024	KLVM	<20

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QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/10/04	215891	MSG	<10
05/13/04	216078	DSC	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/04	215891	MSG	40	40.0	100	90-110
05/13/04	216078	DSC	40	39.5	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/10/04	95320	MSG	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/04	95320	MSG	25	22.2	89	87-124

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Cart 1

TriMatrix Laboratories, Inc.

5560 Corporate Exchange Court SE • Grand Rapids, MI 49512

COC No. 67907

Chain of Custody Record

Project Manager: DAW	Project Name: EAGLE
Project No.	Sampler (Print): DAN WITTAKER
	Sampler Signature:

For Lab Use Only
Rack/Tray No:
Lab Project # 36162-13

Date Sampled	Time Sampled	Matrix*	Composite	Grab	Sample Identification	No. of Containers	Container Type	Analysis Required/Comments	Sample No.	Filtered Date/Time
4-28-04	1120	WTR		X	QALM0028A EAG-1001091	3	3	See ATTACHED 2-General, 1-Filtered, Diss.	359464	WG 04
4-28-04	1330	"		X	QALM0026A EAG-1001096	3	3	"	359465	
4-28-04	1410	"		X	QALM0063 EAG-1001098	3	3	"	359466	
4-28-04		"		X	DUP-001 EAG-1001102	3	3	"	359467	
4-28-04		"		X	DUP-002 EAG-1001097	3	3	"	359468	
4-28-04		"		X	DUP-003 EAG-1001099	3	3	"	359469	

Relinquished By:	Date/Time	Received By:	Received to Lab By:	Date/Time	Logged in By:	Date/Time
	4-28/18:00			4/29/04 08:40		

* Matrix: Water (WTR), Wastewater (WW), Soil (SOIL), Sludge (SLG), Air, Oil, Waste (WASTE)

45-5

Chain of Custody 36162-13
North Jackson Co.

Ship to: Trimatrix Laboratories Lab

Project: EAGLE

Sample ID	Date	Time	matrix	NO. Bottles	Analyses	WG	04
FBK 001 EAG-1001103	4-29-04	11:45	wtr	3	359734 Attached - same as previous EAGLE sent 4-28-04		
FBK-002 EAG-1001104	4-29	12:00	wtr	3	" 359735		
EQB-001 EAG-1001105	4-29	12:10	wtr	3	" 359736		
EQB-002 EAG1001106	4-29-04	12:20	wtr	3	" 359737		
QALM002D EAG-1001100	4-29-04	14:00	wtr	3	" 359738		

Sampled By: [signature]

Relinquished by: [signature] 906.475-9865

Date: 4-29-04 time: 18:00

Received by: [signature]

Date: 4/30/04 time: 09:00

July 16, 2004

North Jackson Company
Attn: Mr. Peter Sabee
420 Rail Street
Negaunee, MI 49866

RE: Eagle
Submittal Number: 36162-15

Dear Mr. Peter Sabee:

Enclosed is a copy of your laboratory report for test samples received by our laboratory on July 7, 2004.

Please note that the test results of the enclosed analyses relate only to the sample(s) as received at the laboratory, and are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC) standards. Qualification of test standards, including sample acceptance requirements, are presented within the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosure(s)

The total number of pages in this report, including this page, is 61.

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Individual sample results relate only to the sample tested.

STATEMENT OF DATA QUALIFICATIONS

Analysis: **Nitrogen, Total Kjeldahl**
Colorimetric, Semi-Automated
WATER USEPA-351.2

Qualification:

One of the matrix spike accuracies fell outside of the laboratory control limits, but the precision between the MS/MSD is within the control limit for this matrix and method. The corresponding sample result is not considered estimated.

Explanation for Sample(s) listed below:

Percent Recovery	Control Limits
115%	90- 110
105%	90- 110

Sample(s) Qualified: 364241 CDRAS002 EAG-100 1109

Analysis: **Sulfate**
Turbidimetric Method (Manual)
WATER EPA-375.4/9038

Qualification:

The matrix spike and/or matrix spike duplicate percent recovery for this sample, matrix, and compound was above the laboratory control limits. Since the result for the sample was less than the reporting limit for this compound, no qualification is necessary.

Explanation for Sample(s) listed below:

Percent Recovery	Control Limits
130%	76- 126
130%	76- 126

Sample(s) Qualified: 364654 STRMS004 EAG-100 1122

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Sulfate**
Turbidimetric Method (Manual)
WATER EPA-375.4/9038

Qualification:

The matrix spike and/or matrix spike duplicate percent recovery for this sample, matrix, and compound was above the laboratory control limits. Since the result for the sample was less than the reporting limit for this compound, no qualification is necessary.

Explanation for Sample(s) listed below:

Percent Recovery	Control Limits
140%	76- 126
140%	76- 126

Sample(s) Qualified: 364392 YDRMS003 EAG-100 1119

Analysis: **Chemical Oxygen Demand**
Closed Reflux, Colorimetric Method
WATER 410.4/SM 5220 D

Qualification:

One of the matrix spike accuracies fell outside of the laboratory control limits, but the precision between the MS/MSD is within the control limit for this matrix and method. The corresponding sample result is not considered estimated.

Explanation for Sample(s) listed below:

Percent Recovery	Control Limits
150%	64- 148
120%	64- 148

Sample(s) Qualified: 364654 STRMS004 EAG-100 1122

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Carbon, Total Organic**
Organic Carbon, Total
WATER 4151/5310D/9060

Qualification:

The analytical requirements of the method require quadruplicate analysis on every sample submitted for TOC testing. The reporting requirements require both the average and the range of the four analysis be reported. The result reported is the average; the range of the replicates is:

Explanation for Sample(s) listed below:

0.354 - 0.390

Sample(s) Qualified:	364396	EQBS001	EAG-100	1115

Explanation for Sample(s) listed below:

0.522 - 0.538

Sample(s) Qualified:	364397	EQBS002	EAG-100	1116

Explanation for Sample(s) listed below:

0.640 - 0.710

Sample(s) Qualified:	364241	CDRAS002	EAG-100	1109

Explanation for Sample(s) listed below:

11.527 - 11.908

Sample(s) Qualified:	364394	STRMS001	EAG-100	1121

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Carbon, Total Organic**
Organic Carbon, Total
WATER 4151/5310D/9060

Qualification:

The analytical requirements of the method require quadruplicate analysis on every sample submitted for TOC testing. The reporting requirements require both the average and the range of the four analysis be reported. The result reported is the average; the range of the replicates is:

Explanation for Sample(s) listed below:

2.093 - 2.199

Sample(s) Qualified:	364245	STRES001	EAG-100	1111

Explanation for Sample(s) listed below:

2.193 - 2.305

Sample(s) Qualified:	364395	STRES002	EAG-100	1112

Explanation for Sample(s) listed below:

2.787 - 2.831

Sample(s) Qualified:	364247	DUPS001	EAG-100	1110

Explanation for Sample(s) listed below:

2.820 - 2.856

Sample(s) Qualified:	364242	CDRMS004	EAG-100	1108

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Carbon, Total Organic**
Organic Carbon, Total
WATER 4151/5310D/9060

Qualification:

The analytical requirements of the method require quadruplicate analysis on every sample submitted for TOC testing. The reporting requirements require both the average and the range of the four analysis be reported. The result reported is the average; the range of the replicates is:

Explanation for Sample(s) listed below:

3.788 - 3.886

Sample(s) Qualified:	364248	DUPS002	EAG-100	1114

Explanation for Sample(s) listed below:

3.803 - 4.017

Sample(s) Qualified:	364244	STRMS003	EAG-100	1113

Explanation for Sample(s) listed below:

4.753 - 4.923

Sample(s) Qualified:	364246	STRWS001	EAG-100	1117

Explanation for Sample(s) listed below:

6.749 - 7.002

Sample(s) Qualified:	364243	STRMS002	EAG-100	1118

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Carbon, Total Organic**
Organic Carbon, Total
WATER 4151/5310D/9060

Qualification:

The analytical requirements of the method require quadruplicate analysis on every sample submitted for TOC testing. The reporting requirements require both the average and the range of the four analysis be reported. The result reported is the average; the range of the replicates is:

Explanation for Sample(s) listed below:

7.628 - 7.853

Sample(s) Qualified:	364392	YDRMS003	EAG-100	1119

Explanation for Sample(s) listed below:

8.268 - 8.382

Sample(s) Qualified:	364393	YDRMS002	EAG-100	1120

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CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

5.33

Sample(s) Narrated:	364397	EQBS002	EAG-100	1116

Explanation for Sample(s) listed below:

5.67

Sample(s) Narrated:	364396	EQBS001	EAG-100	1115

Explanation for Sample(s) listed below:

6.77

Sample(s) Narrated:	364394	STRMS001	EAG-100	1121

Explanation for Sample(s) listed below:

6.89

Sample(s) Narrated:	364243	STRMS002	EAG-100	1118

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CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

6.97

Sample(s) Narrated:	364393	YDRMS002	EAG-100	1120

Explanation for Sample(s) listed below:

7.14

Sample(s) Narrated:	364241	CDRAS002	EAG-100	1109

Explanation for Sample(s) listed below:

7.21

Sample(s) Narrated:	364392	YDRMS003	EAG-100	1119

Explanation for Sample(s) listed below:

7.33

Sample(s) Narrated:	364654	STRMS004	EAG-100	1122

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CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

7.47

Sample(s) Narrated:	364244	STRMS003	EAG-100	1113

Explanation for Sample(s) listed below:

7.60

Sample(s) Narrated:	364246	STRWS001	EAG-100	1117

Explanation for Sample(s) listed below:

7.67

Sample(s) Narrated:	364245	STRES001	EAG-100	1111

Explanation for Sample(s) listed below:

7.70

Sample(s) Narrated:	364248	DUPS002	EAG-100	1114

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CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

7.73

Sample(s) Narrated:	364242	CDRMS004	EAG-100	1108

Explanation for Sample(s) listed below:

7.78

Sample(s) Narrated:	364247	DUPS001	EAG-100	1110

Explanation for Sample(s) listed below:

7.80

Sample(s) Narrated:	364395	STRES002	EAG-100	1112

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 06/29/04 @ 12:15
Sampler: D.W.
Received: 06/30/04 @ 08:30

Submittal #: **36162-15**
Submittal: June/July 2004 Samples

Sample ID: **CDRAS002 EAG-100 1109**
Sample #: **364241**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	45	2.0	mg/L	07/01/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	07/01/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	07/07/04	JLB	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	07/01/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	07/01/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	07/01/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	07/07/04	JLB	EPA-375.4/9038
	Residue,Dissolved @ 180*C	90	50	mg/L	07/02/04	INR	160.1/SM 2540 C
	Residue, Suspended	4	3	mg/L	07/02/04	INR	160.2/SM 2540 D
	Alkalinity, Total	45	2.0	mg/L	07/01/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	<5.0	5.0	mg/L	07/02/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	<1.0	1.0	mg/L	07/01/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	07/01/04	JLB	SDM 5210B
	Color (Apparent)	5	5	A.C.U.	07/01/04	GEH	USEPA-110.2
	Turbidity	<1.0	1.0	NTU	07/01/04	HLB	USEPA-180.1
	Phosphate, Ortho	0.02	0.02	mg/L	06/30/04	SAJ	365.2/4500-P E
	Phosphorus, Total	0.01	0.01	mg/L	07/02/04	INR	365.1/4500-P F
*	Nitrogen, Total Kjeldahl	<0.50	0.50	mg/L	07/06/04	GEH	USEPA-351.2
	Iron, Total	23	20	ug/L	07/08/04	JMF	EPA-200.7/6010B
	Arsenic, Total	<1.0	1.0	ug/L	07/09/04	DSC	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	07/09/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	07/12/04	MSG	EPA-200.8/6020
	Manganese, Total	<10	10	ug/L	07/09/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	07/09/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	16	0.50	mg/L	07/12/04	DSC	EPA-200.7/6010B
	Potassium, Dissolved	<0.50	0.50	mg/L	07/12/04	DSC	EPA-200.7/6010B
	Magnesium, Dissolved	2.2	0.50	mg/L	07/12/04	DSC	EPA-200.7/6010B
	Sodium, Dissolved	0.56	0.50	mg/L	07/12/04	DSC	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 06/29/04 @ 13:30
Sampler: D.W.
Received: 06/30/04 @ 08:30

Submittal #: **36162-15**
Submittal: June/July 2004 Samples

Sample ID: **CDRMS004 EAG-100 1108**
Sample #: **364242**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	77	2.0	mg/L	07/01/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	07/01/04	VAS	310.1/SM 2320 B
	Chloride	1.1	1.0	mg/L	07/07/04	JLB	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	07/01/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	07/01/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	07/01/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	07/07/04	JLB	EPA-375.4/9038
	Residue,Dissolved @ 180*C	112	50	mg/L	07/02/04	INR	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	07/02/04	INR	160.2/SM 2540 D
	Alkalinity, Total	77	2.0	mg/L	07/01/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	10	5.0	mg/L	07/02/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	2.8	1.0	mg/L	07/01/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	07/01/04	JLB	SDM 5210B
	Color (Apparent)	20	5	A.C.U.	07/01/04	GEH	USEPA-110.2
	Turbidity	1.0	1.0	NTU	07/01/04	HLB	USEPA-180.1
	Phosphate, Ortho	<0.01	0.01	mg/L	06/30/04	SAJ	365.2/4500-P E
	Phosphorus, Total	0.04	0.01	mg/L	07/02/04	INR	365.1/4500-P F
	Nitrogen, Total Kjeldahl	<0.50	0.50	mg/L	07/06/04	GEH	USEPA-351.2
	Iron, Total	110	20	ug/L	07/08/04	JMF	EPA-200.7/6010B
	Arsenic, Total	1.6	1.0	ug/L	07/09/04	DSC	EPA-200.8/6020
	Barium, Total	12	10	ug/L	07/09/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	07/12/04	MSG	EPA-200.8/6020
	Manganese, Total	13	10	ug/L	07/09/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	07/09/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	22	0.50	mg/L	07/12/04	DSC	EPA-200.7/6010B
	Potassium, Dissolved	<0.50	0.50	mg/L	07/12/04	DSC	EPA-200.7/6010B
	Magnesium, Dissolved	3.6	0.50	mg/L	07/12/04	DSC	EPA-200.7/6010B
	Sodium, Dissolved	0.73	0.50	mg/L	07/12/04	DSC	EPA-200.7/6010B

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 06/29/04 @ 12:15
Sampler: D.W.
Received: 06/30/04 @ 08:30

Submittal #: **36162-15**
Submittal: June/July 2004 Samples

Sample ID: **STRMS002 EAG-100 1118**
Sample #: **364243**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	24	2.0	mg/L	07/01/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	07/01/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	07/07/04	JLB	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	07/01/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	07/01/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	07/01/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	07/07/04	JLB	EPA-375.4/9038
	Residue,Dissolved @ 180*C	78	50	mg/L	07/02/04	INR	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	07/02/04	INR	160.2/SM 2540 D
	Alkalinity, Total	24	2.0	mg/L	07/01/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	20	5.0	mg/L	07/02/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	6.9	1.0	mg/L	07/01/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	07/01/04	JLB	SDM 5210B
	Color (Apparent)	100	25	A.C.U.	07/01/04	GEH	USEPA-110.2
	Turbidity	1.6	1.0	NTU	07/01/04	HLB	USEPA-180.1
	Phosphate, Ortho	<0.01	0.01	mg/L	06/30/04	SAJ	365.2/4500-P E
	Phosphorus, Total	0.02	0.01	mg/L	07/02/04	INR	365.1/4500-P F
	Nitrogen, Total Kjeldahl	<0.50	0.50	mg/L	07/06/04	GEH	USEPA-351.2
	Iron, Total	440	20	ug/L	07/08/04	JMF	EPA-200.7/6010B
	Arsenic, Total	<1.0	1.0	ug/L	07/09/04	DSC	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	07/09/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	07/12/04	MSG	EPA-200.8/6020
	Manganese, Total	32	10	ug/L	07/09/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	07/09/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	8.7	0.50	mg/L	07/12/04	DSC	EPA-200.7/6010B
	Potassium, Dissolved	<0.50	0.50	mg/L	07/12/04	DSC	EPA-200.7/6010B
	Magnesium, Dissolved	1.8	0.50	mg/L	07/12/04	DSC	EPA-200.7/6010B
	Sodium, Dissolved	0.62	0.50	mg/L	07/12/04	DSC	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 06/29/04 @ 14:45
Sampler: D.W.
Received: 06/30/04 @ 08:30

Submittal #: **36162-15**
Submittal: June/July 2004 Samples

Sample ID: **STRMS003 EAG-100 1113**
Sample #: **364244**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	45	2.0	mg/L	07/01/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	07/01/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	07/07/04	JLB	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	07/01/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	0.12	0.05	mg/L	07/01/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	07/01/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	07/07/04	JLB	EPA-375.4/9038
	Residue,Dissolved @ 180*C	86	50	mg/L	07/02/04	INR	160.1/SM 2540 C
	Residue, Suspended	15	4	mg/L	07/02/04	INR	160.2/SM 2540 D
	Alkalinity, Total	45	2.0	mg/L	07/01/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	21	5.0	mg/L	07/02/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	3.9	1.0	mg/L	07/01/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	07/01/04	JLB	SDM 5210B
	Color (Apparent)	50	5	A.C.U.	07/01/04	GEH	USEPA-110.2
	Turbidity	6.1	1.0	NTU	07/01/04	HLB	USEPA-180.1
	Phosphate, Ortho	<0.01	0.01	mg/L	06/30/04	SAJ	365.2/4500-P E
	Phosphorus, Total	0.01	0.01	mg/L	07/02/04	INR	365.1/4500-P F
	Nitrogen, Total Kjeldahl	<0.50	0.50	mg/L	07/06/04	GEH	USEPA-351.2
	Iron, Total	560	20	ug/L	07/08/04	JMF	EPA-200.7/6010B
	Arsenic, Total	1.5	1.0	ug/L	07/09/04	DSC	EPA-200.8/6020
	Barium, Total	11	10	ug/L	07/09/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	07/12/04	MSG	EPA-200.8/6020
	Manganese, Total	39	10	ug/L	07/09/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	07/09/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	14	0.50	mg/L	07/12/04	DSC	EPA-200.7/6010B
	Potassium, Dissolved	0.50	0.50	mg/L	07/12/04	DSC	EPA-200.7/6010B
	Magnesium, Dissolved	2.4	0.50	mg/L	07/12/04	DSC	EPA-200.7/6010B
	Sodium, Dissolved	0.81	0.50	mg/L	07/12/04	DSC	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 06/29/04 @ 15:05
Sampler: D.W.
Received: 06/30/04 @ 08:30

Submittal #: **36162-15**
Submittal: June/July 2004 Samples

Sample ID: **STRES001 EAG-100 1111**
Sample #: **364245**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	67	2.0	mg/L	07/01/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	07/01/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	07/07/04	JLB	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	07/01/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	07/01/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	07/01/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	07/07/04	JLB	EPA-375.4/9038
	Residue,Dissolved @ 180*C	124	50	mg/L	07/02/04	INR	160.1/SM 2540 C
	Residue, Suspended	4	3	mg/L	07/02/04	INR	160.2/SM 2540 D
	Alkalinity, Total	67	2.0	mg/L	07/01/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	7.1	5.0	mg/L	07/02/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	2.2	1.0	mg/L	07/01/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	07/01/04	JLB	SDM 5210B
	Color (Apparent)	20	5	A.C.U.	07/01/04	GEH	USEPA-110.2
	Turbidity	<1.0	1.0	NTU	07/01/04	HLB	USEPA-180.1
	Phosphate, Ortho	<0.01	0.01	mg/L	06/30/04	SAJ	365.2/4500-P E
	Phosphorus, Total	0.09	0.01	mg/L	07/02/04	INR	365.1/4500-P F
	Nitrogen, Total Kjeldahl	<0.50	0.50	mg/L	07/06/04	GEH	USEPA-351.2
	Iron, Total	83	20	ug/L	07/08/04	JMF	EPA-200.7/6010B
	Arsenic, Total	1.1	1.0	ug/L	07/09/04	DSC	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	07/09/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	07/12/04	MSG	EPA-200.8/6020
	Manganese, Total	12	10	ug/L	07/09/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	07/09/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	21	0.50	mg/L	07/12/04	DSC	EPA-200.7/6010B
	Potassium, Dissolved	<0.50	0.50	mg/L	07/12/04	DSC	EPA-200.7/6010B
	Magnesium, Dissolved	4.0	0.50	mg/L	07/12/04	DSC	EPA-200.7/6010B
	Sodium, Dissolved	0.92	0.50	mg/L	07/12/04	DSC	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 06/29/04 @ 13:45
Sampler: D.W.
Received: 06/30/04 @ 08:30

Submittal #: **36162-15**
Submittal: June/July 2004 Samples

Sample ID: **STRWS001 EAG-100 1117**
Sample #: **364246**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	62	2.0	mg/L	07/01/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	07/01/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	07/07/04	JLB	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	07/01/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	07/01/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	07/01/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	07/07/04	JLB	EPA-375.4/9038
	Residue,Dissolved @ 180*C	102	50	mg/L	07/02/04	INR	160.1/SM 2540 C
	Residue, Suspended	7	3	mg/L	07/02/04	INR	160.2/SM 2540 D
	Alkalinity, Total	62	2.0	mg/L	07/01/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	13	5.0	mg/L	07/02/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	4.8	1.0	mg/L	07/01/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	07/01/04	JLB	SDM 5210B
	Color (Apparent)	35	5	A.C.U.	07/01/04	GEH	USEPA-110.2
	Turbidity	3.1	1.0	NTU	07/01/04	HLB	USEPA-180.1
	Phosphate, Ortho	<0.01	0.01	mg/L	06/30/04	SAJ	365.2/4500-P E
	Phosphorus, Total	0.03	0.01	mg/L	07/02/04	INR	365.1/4500-P F
	Nitrogen, Total Kjeldahl	<0.50	0.50	mg/L	07/06/04	GEH	USEPA-351.2
	Iron, Total	440	20	ug/L	07/08/04	JMF	EPA-200.7/6010B
	Arsenic, Total	2.8	1.0	ug/L	07/09/04	DSC	EPA-200.8/6020
	Barium, Total	17	10	ug/L	07/09/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	07/12/04	MSG	EPA-200.8/6020
	Manganese, Total	64	10	ug/L	07/09/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	07/09/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	20	0.50	mg/L	07/12/04	DSC	EPA-200.7/6010B
	Potassium, Dissolved	0.53	0.50	mg/L	07/12/04	DSC	EPA-200.7/6010B
	Magnesium, Dissolved	3.3	0.50	mg/L	07/12/04	DSC	EPA-200.7/6010B
	Sodium, Dissolved	0.88	0.50	mg/L	07/12/04	DSC	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 06/29/04 @ 00:00
Sampler: D.W.
Received: 06/30/04 @ 08:30

Submittal #: **36162-15**
Submittal: June/July 2004 Samples

Sample ID: **DUPS001 EAG-100 1110**
Sample #: **364247**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	72	2.0	mg/L	07/01/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	07/01/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	07/07/04	JLB	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	07/01/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	07/01/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	07/01/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	07/07/04	JLB	EPA-375.4/9038
	Residue,Dissolved @ 180*C	104	50	mg/L	07/02/04	INR	160.1/SM 2540 C
	Residue, Suspended	3	3	mg/L	07/02/04	INR	160.2/SM 2540 D
	Alkalinity, Total	72	2.0	mg/L	07/01/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	7.5	5.0	mg/L	07/02/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	2.8	1.0	mg/L	07/01/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	07/01/04	JLB	SDM 5210B
	Color (Apparent)	20	5	A.C.U.	07/01/04	GEH	USEPA-110.2
	Turbidity	<1.0	1.0	NTU	07/01/04	HLB	USEPA-180.1
	Phosphate, Ortho	<0.01	0.01	mg/L	06/30/04	SAJ	365.2/4500-P E
	Phosphorus, Total	0.02	0.01	mg/L	07/02/04	INR	365.1/4500-P F
	Nitrogen, Total Kjeldahl	<0.50	0.50	mg/L	07/06/04	GEH	USEPA-351.2
	Iron, Total	120	20	ug/L	07/08/04	JMF	EPA-200.7/6010B
	Arsenic, Total	1.8	1.0	ug/L	07/09/04	DSC	EPA-200.8/6020
	Barium, Total	13	10	ug/L	07/09/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	07/12/04	MSG	EPA-200.8/6020
	Manganese, Total	16	10	ug/L	07/09/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	07/09/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	24	0.50	mg/L	07/12/04	DSC	EPA-200.7/6010B
	Potassium, Dissolved	<0.50	0.50	mg/L	07/12/04	DSC	EPA-200.7/6010B
	Magnesium, Dissolved	3.7	0.50	mg/L	07/12/04	DSC	EPA-200.7/6010B
	Sodium, Dissolved	0.96	0.50	mg/L	07/12/04	DSC	EPA-200.7/6010B

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 06/29/04 @ 00:00
Sampler: D.W.
Received: 06/30/04 @ 08:30

Submittal #: **36162-15**
Submittal: June/July 2004 Samples

Sample ID: **DUPS002 EAG-100 1114**
Sample #: **364248**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	42	2.0	mg/L	07/01/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	07/01/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	07/07/04	JLB	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	07/01/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	0.12	0.05	mg/L	07/01/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	07/01/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	07/07/04	JLB	EPA-375.4/9038
	Residue,Dissolved @ 180*C	80	50	mg/L	07/02/04	INR	160.1/SM 2540 C
	Residue, Suspended	17	5	mg/L	07/02/04	INR	160.2/SM 2540 D
	Alkalinity, Total	42	2.0	mg/L	07/01/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	20	5.0	mg/L	07/02/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	3.8	1.0	mg/L	07/02/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	07/01/04	JLB	SDM 5210B
	Color (Apparent)	50	5	A.C.U.	07/01/04	GEH	USEPA-110.2
	Turbidity	6.5	1.0	NTU	07/01/04	HLB	USEPA-180.1
	Phosphate, Ortho	<0.01	0.01	mg/L	06/30/04	SAJ	365.2/4500-P E
	Phosphorus, Total	0.08	0.01	mg/L	07/02/04	INR	365.1/4500-P F
	Nitrogen, Total Kjeldahl	<0.50	0.50	mg/L	07/06/04	GEH	USEPA-351.2
	Iron, Total	530	20	ug/L	07/08/04	JMF	EPA-200.7/6010B
	Arsenic, Total	1.5	1.0	ug/L	07/09/04	DSC	EPA-200.8/6020
	Barium, Total	11	10	ug/L	07/09/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	07/12/04	MSG	EPA-200.8/6020
	Manganese, Total	35	10	ug/L	07/09/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	07/09/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	14	0.50	mg/L	07/12/04	DSC	EPA-200.7/6010B
	Potassium, Dissolved	0.55	0.50	mg/L	07/12/04	DSC	EPA-200.7/6010B
	Magnesium, Dissolved	2.4	0.50	mg/L	07/12/04	DSC	EPA-200.7/6010B
	Sodium, Dissolved	0.69	0.50	mg/L	07/12/04	DSC	EPA-200.7/6010B

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 06/30/04 @ 12:05
Sampler: D. Wiitala
Received: 07/01/04 @ 08:40

Submittal #: **36162-15**
Submittal: June/July 2004 Samples

Sample ID: **YDRMS003 EAG-100 1119**
Sample #: **364392**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	21	2.0	mg/L	07/08/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	07/08/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	07/07/04	JLB	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	07/06/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	07/01/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	07/01/04	HLB	USEPA-353.2
*	Sulfate	<5.0	5.0	mg/L	07/07/04	JLB	EPA-375.4/9038
	Residue,Dissolved @ 180*C	50	50	mg/L	07/02/04	INR	160.1/SM 2540 C
	Residue, Suspended	4	4	mg/L	07/02/04	INR	160.2/SM 2540 D
	Alkalinity, Total	21	2.0	mg/L	07/08/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	22	5.0	mg/L	07/06/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	7.7	1.0	mg/L	07/06/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	07/01/04	TAM	SDM 5210B
	Color (Apparent)	75	5	A.C.U.	07/01/04	GEH	USEPA-110.2
	Turbidity	1.1	1.0	NTU	07/01/04	HLB	USEPA-180.1
	Phosphate, Ortho	<0.01	0.01	mg/L	07/01/04	SAJ	365.2/4500-P E
	Phosphorus, Total	0.02	0.01	mg/L	07/02/04	INR	365.1/4500-P F
	Nitrogen, Total Kjeldahl	<0.50	0.50	mg/L	07/06/04	GEH	USEPA-351.2
	Iron, Total	360	20	ug/L	07/08/04	JMF	EPA-200.7/6010B
	Arsenic, Total	<1.0	1.0	ug/L	07/09/04	DSC	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	07/09/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	07/09/04	DSC	EPA-200.8/6020
	Manganese, Total	25	10	ug/L	07/09/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	07/09/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	7.4	0.50	mg/L	07/08/04	JMF	EPA-200.7/6010B
	Potassium, Dissolved	<0.50	0.50	mg/L	07/08/04	JMF	EPA-200.7/6010B
	Magnesium, Dissolved	1.6	0.50	mg/L	07/08/04	JMF	EPA-200.7/6010B
	Sodium, Dissolved	0.80	0.50	mg/L	07/08/04	JMF	EPA-200.7/6010B

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 06/30/04 @ 14:20
Sampler: D. Wiitala
Received: 07/01/04 @ 08:40

Submittal #: **36162-15**
Submittal: June/July 2004 Samples

Sample ID: **YDRMS002 EAG-100 1120**
Sample #: **364393**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	24	2.0	mg/L	07/08/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	07/08/04	VAS	310.1/SM 2320 B
	Chloride	1.4	1.0	mg/L	07/07/04	JLB	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	07/06/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	07/01/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	07/01/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	07/07/04	JLB	EPA-375.4/9038
	Residue,Dissolved @ 180*C	60	50	mg/L	07/02/04	INR	160.1/SM 2540 C
	Residue, Suspended	4	4	mg/L	07/02/04	INR	160.2/SM 2540 D
	Alkalinity, Total	24	2.0	mg/L	07/08/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	24	5.0	mg/L	07/06/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	8.3	1.0	mg/L	07/06/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	07/01/04	TAM	SDM 5210B
	Color (Apparent)	100	5	A.C.U.	07/01/04	GEH	USEPA-110.2
	Turbidity	2.3	1.0	NTU	07/01/04	HLB	USEPA-180.1
	Phosphate, Ortho	<0.01	0.01	mg/L	07/01/04	SAJ	365.2/4500-P E
	Phosphorus, Total	0.02	0.01	mg/L	07/02/04	INR	365.1/4500-P F
	Nitrogen, Total Kjeldahl	<0.50	0.50	mg/L	07/06/04	GEH	USEPA-351.2
	Iron, Total	840	20	ug/L	07/08/04	JMF	EPA-200.7/6010B
	Arsenic, Total	<1.0	1.0	ug/L	07/09/04	DSC	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	07/09/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	07/09/04	DSC	EPA-200.8/6020
	Manganese, Total	29	10	ug/L	07/09/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	07/09/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	8.8	0.50	mg/L	07/08/04	JMF	EPA-200.7/6010B
	Potassium, Dissolved	<0.50	0.50	mg/L	07/08/04	JMF	EPA-200.7/6010B
	Magnesium, Dissolved	1.8	0.50	mg/L	07/08/04	JMF	EPA-200.7/6010B
	Sodium, Dissolved	0.93	0.50	mg/L	07/08/04	JMF	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 06/30/04 @ 13:30
Sampler: D. Wiitala
Received: 07/01/04 @ 08:40

Submittal #: **36162-15**
Submittal: June/July 2004 Samples

Sample ID: **STRMS001 EAG-100 1121**
Sample #: **364394**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	31	2.0	mg/L	07/08/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	07/08/04	VAS	310.1/SM 2320 B
	Chloride	1.4	1.0	mg/L	07/07/04	JLB	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	07/06/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	07/01/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	07/01/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	07/07/04	JLB	EPA-375.4/9038
	Residue,Dissolved @ 180*C	92	50	mg/L	07/02/04	INR	160.1/SM 2540 C
	Residue, Suspended	9	5	mg/L	07/02/04	INR	160.2/SM 2540 D
	Alkalinity, Total	31	2.0	mg/L	07/08/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	33	5.0	mg/L	07/06/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	12	1.0	mg/L	07/06/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	07/01/04	TAM	SDM 5210B
	Color (Apparent)	125	5	A.C.U.	07/01/04	GEH	USEPA-110.2
	Turbidity	2.1	1.0	NTU	07/01/04	HLB	USEPA-180.1
	Phosphate, Ortho	<0.01	0.01	mg/L	07/01/04	SAJ	365.2/4500-P E
	Phosphorus, Total	0.03	0.01	mg/L	07/02/04	INR	365.1/4500-P F
	Nitrogen, Total Kjeldahl	<0.50	0.50	mg/L	07/06/04	GEH	USEPA-351.2
	Iron, Total	1460	20	ug/L	07/08/04	JMF	EPA-200.7/6010B
	Arsenic, Total	<1.0	1.0	ug/L	07/09/04	DSC	EPA-200.8/6020
	Barium, Total	19	10	ug/L	07/09/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	07/09/04	DSC	EPA-200.8/6020
	Manganese, Total	84	10	ug/L	07/09/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	07/09/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	10	0.50	mg/L	07/08/04	JMF	EPA-200.7/6010B
	Potassium, Dissolved	<0.50	0.50	mg/L	07/08/04	JMF	EPA-200.7/6010B
	Magnesium, Dissolved	2.2	0.50	mg/L	07/08/04	JMF	EPA-200.7/6010B
	Sodium, Dissolved	0.86	0.50	mg/L	07/08/04	JMF	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 06/30/04 @ 11:40
Sampler: D. Wiitala
Received: 07/01/04 @ 08:40

Submittal #: **36162-15**
Submittal: June/July 2004 Samples

Sample ID: **STRES002 EAG-100 1112**
Sample #: **364395**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	67	2.0	mg/L	07/08/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	07/08/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	07/07/04	JLB	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	07/06/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	07/01/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	07/01/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	07/07/04	JLB	EPA-375.4/9038
	Residue,Dissolved @ 180*C	80	50	mg/L	07/02/04	INR	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	07/02/04	INR	160.2/SM 2540 D
	Alkalinity, Total	67	2.0	mg/L	07/08/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	7.4	5.0	mg/L	07/06/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	2.2	1.0	mg/L	07/06/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	07/01/04	TAM	SDM 5210B
	Color (Apparent)	15	5	A.C.U.	07/01/04	GEH	USEPA-110.2
	Turbidity	1.1	1.0	NTU	07/01/04	HLB	USEPA-180.1
	Phosphate, Ortho	<0.01	0.01	mg/L	07/01/04	SAJ	365.2/4500-P E
	Phosphorus, Total	0.02	0.01	mg/L	07/02/04	INR	365.1/4500-P F
	Nitrogen, Total Kjeldahl	<0.50	0.50	mg/L	07/06/04	GEH	USEPA-351.2
	Iron, Total	76	20	ug/L	07/08/04	JMF	EPA-200.7/6010B
	Arsenic, Total	1.3	1.0	ug/L	07/09/04	DSC	EPA-200.8/6020
	Barium, Total	11	10	ug/L	07/09/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	07/09/04	DSC	EPA-200.8/6020
	Manganese, Total	<10	10	ug/L	07/09/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	07/09/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	21	0.50	mg/L	07/08/04	JMF	EPA-200.7/6010B
	Potassium, Dissolved	<0.50	0.50	mg/L	07/08/04	JMF	EPA-200.7/6010B
	Magnesium, Dissolved	4.1	0.50	mg/L	07/12/04	JMF	EPA-200.7/6010B
	Sodium, Dissolved	1.2	0.50	mg/L	07/08/04	JMF	EPA-200.7/6010B

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 06/30/04 @ 09:40
Sampler: D. Wiitala
Received: 07/01/04 @ 08:40

Submittal #: **36162-15**
Submittal: June/July 2004 Samples

Sample ID: **EQBS001 EAG-100 1115**
Sample #: **364396**
Matrix: QC Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	<2.0	2.0	mg/L	07/08/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	07/08/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	07/07/04	JLB	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	07/06/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	07/01/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	07/01/04	HLB	USEPA-353.2
	Sulfate	7.8	5.0	mg/L	07/07/04	JLB	EPA-375.4/9038
	Residue,Dissolved @ 180*C	<20	20	mg/L	07/02/04	INR	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	07/02/04	INR	160.2/SM 2540 D
	Alkalinity, Total	<2.0	2.0	mg/L	07/08/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	<5.0	5.0	mg/L	07/06/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	<1.0	1.0	mg/L	07/06/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	07/01/04	TAM	SDM 5210B
	Color (Apparent)	<5	5	A.C.U.	07/01/04	GEH	USEPA-110.2
	Turbidity	<1.0	1.0	NTU	07/01/04	HLB	USEPA-180.1
	Phosphate, Ortho	<0.01	0.01	mg/L	07/01/04	SAJ	365.2/4500-P E
	Phosphorus, Total	<0.01	0.01	mg/L	07/02/04	INR	365.1/4500-P F
	Nitrogen, Total Kjeldahl	<0.50	0.50	mg/L	07/06/04	GEH	USEPA-351.2
	Iron, Total	<20	20	ug/L	07/08/04	JMF	EPA-200.7/6010B
	Arsenic, Total	<1.0	1.0	ug/L	07/09/04	DSC	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	07/09/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	07/12/04	MSG	EPA-200.8/6020
	Manganese, Total	<10	10	ug/L	07/09/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	07/09/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	<0.50	0.50	mg/L	07/08/04	JMF	EPA-200.7/6010B
	Potassium, Dissolved	<0.50	0.50	mg/L	07/08/04	JMF	EPA-200.7/6010B
	Magnesium, Dissolved	<0.50	0.50	mg/L	07/12/04	JMF	EPA-200.7/6010B
	Sodium, Dissolved	<0.50	0.50	mg/L	07/08/04	JMF	EPA-200.7/6010B

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 06/30/04 @ 09:50
Sampler: D. Wiitala
Received: 07/01/04 @ 08:40

Submittal #: **36162-15**
Submittal: June/July 2004 Samples

Sample ID: **EQBS002 EAG-100 1116**
Sample #: **364397**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	<2.0	2.0	mg/L	07/08/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	07/08/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	07/07/04	JLB	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	07/06/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	07/01/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	07/01/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	07/07/04	JLB	EPA-375.4/9038
	Residue,Dissolved @ 180*C	<20	20	mg/L	07/02/04	INR	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	07/02/04	INR	160.2/SM 2540 D
	Alkalinity, Total	<2.0	2.0	mg/L	07/08/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	<5.0	5.0	mg/L	07/06/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	<1.0	1.0	mg/L	07/06/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	07/01/04	TAM	SDM 5210B
	Color (Apparent)	<5	5	A.C.U.	07/01/04	GEH	USEPA-110.2
	Turbidity	<1.0	1.0	NTU	07/01/04	HLB	USEPA-180.1
	Phosphate, Ortho	<0.01	0.01	mg/L	07/01/04	SAJ	365.2/4500-P E
	Phosphorus, Total	<0.01	0.01	mg/L	07/02/04	INR	365.1/4500-P F
	Nitrogen, Total Kjeldahl	<0.50	0.50	mg/L	07/06/04	GEH	USEPA-351.2
	Iron, Total	<20	20	ug/L	07/08/04	JMF	EPA-200.7/6010B
	Arsenic, Total	<1.0	1.0	ug/L	07/09/04	DSC	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	07/09/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	07/09/04	DSC	EPA-200.8/6020
	Manganese, Total	<10	10	ug/L	07/09/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	07/09/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	<0.50	0.50	mg/L	07/08/04	JMF	EPA-200.7/6010B
	Potassium, Dissolved	<0.50	0.50	mg/L	07/08/04	JMF	EPA-200.7/6010B
	Magnesium, Dissolved	<0.50	0.50	mg/L	07/12/04	JMF	EPA-200.7/6010B
	Sodium, Dissolved	<0.50	0.50	mg/L	07/08/04	JMF	EPA-200.7/6010B

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 07/06/04 @ 11:00
Sampler: P. Sabee
Received: 07/07/04 @ 08:45

Submittal #: **36162-15**
Submittal: June/July 2004 Samples

Sample ID: **STRMS004 EAG-100 1122**
Sample #: **364654**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	44	2.0	mg/L	07/08/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	07/08/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	07/12/04	JLB	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	07/08/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	0.10	0.05	mg/L	07/08/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	07/08/04	HLB	USEPA-353.2
*	Sulfate	<5.0	5.0	mg/L	07/12/04	JLB	EPA-375.4/9038
	Residue,Dissolved @ 180*C	48	20	mg/L	07/08/04	INR	160.1/SM 2540 C
	Residue, Suspended	6	5	mg/L	07/08/04	INR	160.2/SM 2540 D
	Alkalinity, Total	44	2.0	mg/L	07/08/04	VAS	310.1/SM 2320 B
*	Chemical Oxygen Demand	16	5.0	mg/L	07/09/04	JMJ	410.4/SM 5220 D
	Carbon, Total Organic	5.2	1.0	mg/L	07/13/04	GEH	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	07/07/04	TAM	SDM 5210B
	Color (Apparent)	50	5	A.C.U.	07/07/04	GEH	USEPA-110.2
	Turbidity	2.8	1.0	NTU	07/08/04	HLB	USEPA-180.1
	Phosphate, Ortho	<0.01	0.01	mg/L	07/07/04	SAJ	365.2/4500-P E
	Phosphorus, Total	<0.01	0.01	mg/L	07/08/04	INR	365.1/4500-P F
	Nitrogen, Total Kjeldahl	<0.50	0.50	mg/L	07/15/04	GEH	USEPA-351.2
	Iron, Total	350	20	ug/L	07/12/04	JMF	EPA-200.7/6010B
	Arsenic, Total	1.0	1.0	ug/L	07/14/04	MSG	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	07/14/04	MSG	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	07/14/04	MSG	EPA-200.8/6020
	Manganese, Total	32	10	ug/L	07/14/04	MSG	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	07/14/04	MSG	EPA-200.8/6020
	Calcium, Dissolved	15	0.50	mg/L	07/12/04	DSC	EPA-200.7/6010B
	Potassium, Dissolved	0.50	0.50	mg/L	07/12/04	DSC	EPA-200.7/6010B
	Magnesium, Dissolved	2.8	0.50	mg/L	07/12/04	DSC	EPA-200.7/6010B
	Sodium, Dissolved	0.73	0.50	mg/L	07/12/04	DSC	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

End of Analytical Report

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Bicarbonate**
Method: Alkalinity, Automated-Titrimetric **310.1/SM 2320 B WATER**
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/01/04	218332	VAS	<2.0
07/08/04	218572	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/01/04	218332	VAS	238	236	99	93-105
07/08/04	218572	VAS	238	239	100	93-105

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Carbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/01/04	218332	VAS	<2.0
07/08/04	218572	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/01/04	218332	VAS	377	339	90	81-107
07/08/04	218572	VAS	377	344	91	81-107

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Total**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/01/04	218332	VAS	<2.0
07/08/04	218572	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/01/04	218332	VAS	238	236	99	92-105
07/08/04	218572	VAS	238	239	100	92-105

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/08/04	218555	JMF	<200

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/09/04	218626	DSC	<1.0
07/14/04	218744	MSG	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/09/04	218626	DSC	40	41.9	105	90-110
07/14/04	218744	MSG	40	41.0	103	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
07/09/04	96979	DSC	<1.0
07/09/04	97202	DSC	<1.0
07/14/04	97202	MSG	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/09/04	96979	DSC	25	24.5	98	85-115
07/09/04	97202	DSC	25	25.6	102	85-115
07/14/04	97202	MSG	25	24.3	97	85-115

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/08/04	218555	JMF	<10

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/09/04	218626	DSC	<10
07/14/04	218744	MSG	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/09/04	218626	DSC	40	39.8	100	90-110
07/14/04	218744	MSG	40	39.2	98	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
07/09/04	96979	DSC	<10
07/09/04	97202	DSC	<10
07/14/04	97202	MSG	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/09/04	96979	DSC	25	24.4	98	86-119
07/09/04	97202	DSC	25	25.9	104	86-119
07/14/04	97202	MSG	25	26.0	104	86-119

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QUALITY CONTROL REPORT

Parameter: **BOD, (5-Day)**
Method: Biochemical Oxygen Demand SDM 5210B **WATER**
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/01/04	218394	JLB	<1.0
07/01/04	218547	TAM	<1.0
07/07/04	218695	TAM	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/01/04	218394	JLB	198	200	101	85-115
07/01/04	218547	TAM	198	215	109	85-115
07/07/04	218695	TAM	198	199	101	85-115

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QUALITY CONTROL REPORT

Parameter: **Carbon, Total Organic**
Method: Organic Carbon, Total 4151/5310D/9060 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/01/04	218492	SAJ	<1.0
07/06/04	218488	SAJ	<0.5
07/13/04	218720	GEH	<0.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/01/04	218492	SAJ	25	23	92	90-110
07/06/04	218488	SAJ	25	24	96	90-110
07/13/04	218720	GEH	25	25	100	90-110

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QUALITY CONTROL REPORT

Parameter: **Chemical Oxygen Demand**
Method: Closed Reflux, Colorimetric Method 410.4/SM 5220 D WATER
Units: mg/L

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
07/02/04	96996	JMJ	<5.0
07/06/04	97059	JMJ	<5.0
07/09/04	97158	JMJ	<5.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/02/04	96996	JMJ	30	29	97	90-110
07/06/04	97059	JMJ	30	31	103	90-110
07/09/04	97158	JMJ	30	31	103	90-110

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QUALITY CONTROL REPORT

Parameter: **Chloride**
Method: Colorimetric, Automated Ferricyanide 325.2/4500-CL E WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/07/04	218483	JLB	<1.0
07/12/04	218613	JLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/07/04	218483	JLB	42.5	43.4	102	92-109
07/12/04	218613	JLB	42.5	42.7	100	92-109

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QUALITY CONTROL REPORT

Parameter: **Color (Apparent)**
Method: Colorimetric, Platinum-Cobalt USEPA-110.2 WATER
Units: A.C.U.

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/01/04	218489	GEH	<5
07/07/04	218498	GEH	<5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/01/04	218489	GEH	25	25	100	80-120
07/07/04	218498	GEH	25	25	100	80-120

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/08/04	218555	JMF	<10

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/09/04	218626	DSC	<1.0
07/12/04	218633	MSG	<1.0
07/14/04	218744	MSG	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/09/04	218626	DSC	40	41.4	104	90-110
07/12/04	218633	MSG	40	39.1	98	90-110
07/14/04	218744	MSG	40	40.3	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
07/09/04	97202	DSC	<1.0
07/12/04	96979	MSG	<1.0
07/14/04	97202	MSG	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/09/04	97202	DSC	25	26.1	104	86-123
07/12/04	96979	MSG	25	23.4	94	86-123
07/14/04	97202	MSG	25	27.0	108	86-123

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QUALITY CONTROL REPORT

Parameter: **Iron, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/08/04	218555	JMF	<20
07/12/04	218629	DSC	<20
07/12/04	218655	JMF	<20

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/08/04	218555	JMF	500	508	102	90-110
07/12/04	218655	JMF	500	500	100	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
07/08/04	96998	JMF	<20
07/08/04	97178	JMF	<20
07/12/04	97178	JMF	<20

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/08/04	96998	JMF	250	269	108	83-118
07/08/04	97178	JMF	250	268	107	83-118
07/12/04	97178	JMF	250	247	99	83-118

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QUALITY CONTROL REPORT

Parameter: **Magnesium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/08/04	218555	JMF	<0.50
07/12/04	218629	DSC	<0.50
07/12/04	218655	JMF	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/08/04	218555	JMF	5.0	5.16	103	90-110
07/12/04	218629	DSC	5.0	5.09	102	90-110
07/12/04	218655	JMF	5.0	4.99	100	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
07/08/04	97178	JMF	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/08/04	97178	JMF	12.5	13.5	108	87-115

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/08/04	218555	JMF	<10

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/09/04	218626	DSC	<5.0
07/14/04	218744	MSG	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/09/04	218626	DSC	40	40.5	101	90-110
07/14/04	218744	MSG	40	40.4	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
07/09/04	96979	DSC	<10
07/09/04	97202	DSC	<10
07/14/04	97202	MSG	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/09/04	96979	DSC	25	24.9	100	84-126
07/09/04	97202	DSC	25	26.9	108	84-126
07/14/04	97202	MSG	25	30.0	120	84-126

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/08/04	218555	JMF	<20

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/09/04	218626	DSC	<1.0
07/14/04	218744	MSG	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/09/04	218626	DSC	40	40.9	102	90-110
07/14/04	218744	MSG	40	39.5	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
07/09/04	96979	DSC	<1.0
07/09/04	97202	DSC	<1.0
07/14/04	97202	MSG	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/09/04	96979	DSC	25	24.3	97	82-124
07/09/04	97202	DSC	25	25.1	100	82-124
07/14/04	97202	MSG	25	25.6	102	82-124

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Ammonia**
Method: Colorimetric, Automated Phenate 350.1/4500 NH3G WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/01/04	218367	GEH	<0.01
07/06/04	218446	GEH	<0.01
07/08/04	218534	GEH	<0.01

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/01/04	218367	GEH	0.765	0.751	98	90-110
07/06/04	218446	GEH	0.765	0.724	95	90-110
07/08/04	218534	GEH	0.765	0.726	95	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrate**
Method: Colorimetric, Auto-Cadmium Reduction 353.2/4500 NO3F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/01/04	218471	HLB	<0.05
07/08/04	218515	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/01/04	218471	HLB	0.624	0.646	104	90-110
07/08/04	218515	HLB	0.624	0.657	105	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrite**
Method: Colorimetric, Automated USEPA-353.2 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/01/04	218476	HLB	<0.05
07/08/04	218517	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/01/04	218476	HLB	0.50	0.51	102	90-110
07/08/04	218517	HLB	0.50	0.50	100	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Total Kjeldahl**
Method: Colorimetric, Semi-Automated USEPA-351.2 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/06/04	218440	GEH	<0.10
07/15/04	218786	GEH	<0.10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/06/04	218440	GEH	1.0	0.98	98	90-110
07/15/04	218786	GEH	1.0	0.98	98	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
07/06/04	97066	GEH	<0.10
07/15/04	97305	GEH	<0.10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/06/04	97066	GEH	2.86	2.81	98	90-110
07/15/04	97305	GEH	2.86	2.94	103	90-110

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QUALITY CONTROL REPORT

Parameter: **Phosphate, Ortho**
Method: Colorimetric, Ascorbic Acid Single Rgnt. 365.2/4500-P E WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
06/30/04	218465	SAJ	<0.01
07/01/04	218425	SAJ	<0.01
07/07/04	218565	SAJ	<0.01

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
06/30/04	218465	SAJ	0.20	0.20	100	90-108
07/01/04	218425	SAJ	0.20	0.201	101	90-108
07/07/04	218565	SAJ	0.20	0.20	100	90-108

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QUALITY CONTROL REPORT

Parameter: **Phosphorus, Total**
Method: Colorimetric, Ascorbic Acid, Semi-Auto, 365.1/4500-P F WATER
Units: mg/L

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
07/02/04	97038	INR	<0.01
07/08/04	97132	INR	<0.01

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/02/04	97038	INR	0.40	0.44	110	90-110
07/08/04	97132	INR	0.40	0.43	108	90-110

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QUALITY CONTROL REPORT

Parameter: **Potassium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/08/04	218555	JMF	<0.20
07/12/04	218629	DSC	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/08/04	218555	JMF	5.0	5.21	104	90-110
07/12/04	218629	DSC	5.0	5.36	107	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
07/08/04	97178	JMF	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/08/04	97178	JMF	12.5	13.8	110	87-125

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QUALITY CONTROL REPORT

Parameter: **Residue,Dissolved @ 180*C**
Method: Residue-Gravimetric, Dried @ 180*C 160.1/SM 2540 C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/02/04	218468	INR	<2.5
07/08/04	218575	INR	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/02/04	218468	INR	1000.0	1020	102	90-108
07/02/04	218468	INR	1000.0	1040	104	90-108
07/08/04	218575	INR	1000.0	936	94	90-108

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QUALITY CONTROL REPORT

Parameter: **Residue, Suspended**
Method: Residue-Gravimetric, Dried @ 103-105*C 160.2/SM 2540 D WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/02/04	218388	INR	<2.5
07/02/04	218388	INR	<2.5
07/08/04	218577	INR	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/02/04	218388	INR	1000.0	999	100	89-106
07/02/04	218388	INR	1000.0	916	92	89-106
07/08/04	218577	INR	1000.0	935	94	89-106

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QUALITY CONTROL REPORT

Parameter: **Sodium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/08/04	218555	JMF	<0.50
07/12/04	218629	DSC	<0.50
07/12/04	218655	JMF	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/08/04	218555	JMF	5.0	4.94	99	90-110
07/12/04	218629	DSC	5.0	4.98	100	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
07/08/04	97178	JMF	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/08/04	97178	JMF	12.5	13.2	106	86-117

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QUALITY CONTROL REPORT

Parameter: **Sulfate**
Method: Turbidimetric Method (Manual) EPA-375.4/9038 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/07/04	218482	JLB	<2.0
07/12/04	218614	JLB	<5.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/07/04	218482	JLB	13.5	12.8	95	85-113
07/12/04	218614	JLB	13.5	13.4	99	85-113

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QUALITY CONTROL REPORT

Parameter: **Turbidity**
Method: Nephelometric USEPA-180.1 WATER
Units: NTU

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
07/01/04	218423	HLB	<1.0
07/08/04	218559	HLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
07/01/04	218423	HLB	402	388	97	90-110
07/08/04	218559	HLB	402	383	95	90-110

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www.trimatrixlabs.com

Chain of Custody Record

COC No. 101963

Page 1 of 1

For Lab Use Only
Cart: 2
VOA Rack/Tray:
Receipt Log No.: 47-12
Project Chemist: JL
Laboratory Project No.: 36167-15

Client Name: North Jackson CO
Address: 420 Rail St
Negaunee MI 49866
Phone: 906 475 9739
Fax: 906 475 0238

Project Name: EAGLE
Client Project No. / P.O. No.:
Invoice To: ☐ Client ☐ ~~Other~~ (comments)
Contact/Report To: North Jackson

Analyses Requested

Container Type (corresponds to Container Packing List)	A	B	B	C	C																Total
Number of Containers Submitted	3	6	15	4	1p																
	1000ml	500ml	500ml-Filtered	500ml	40ml																

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix										Sample Comments
06	WS	364241	1 CORS002		6-29-04	1215		X	WATER	2	1	1	1	3					Add this to ID EAG-100 1109
		364242	2 CORMS004		6-29-04	1330		X	"	2	1	1	1	3					EAG-100 1108
		364243	3 STRMS002		6-29-04	1215		X	"	2	1	1	1	3					EAG-100 1118
		364244	4 STRMS003		6-29-04	1445		X	"	2	1	1	1	3					EAG-100 1113
		364245	5 STRES001		6-29-04	1505		X	"	2	1	1	1	3					EAG-100 1116
		364246	6 STRWS001		6-29-04	1345		X	"	2	1	1	1	3					EAG-100 1117
		364247	7 DUPS001		6-29-04			X	"	2	1	1	1	3					EAG-100 1110
		364248	8 DUPS002		6-24-04			X	"	2	1	1	1	3					EAG-100 1114
			9																
			10																

Sampled By (print): Dan Wicklund, Kari Paulsen, Bob Sell
Sampler's Signature: Dan Wicklund
Company: North Jackson CO

How Shipped? Hand Carrier: FedEx
Tracking No. 7926 7348 5984
7926 7348 5973

Comments: Invoice to Kennecott Minerals, Joe Cherry
Parameter list to be e-mailed to Jennifer Rice
Cooler IDs: TM0761, TM0860

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
Dan Wicklund	6-29-04	1800						
1. Received By	**Date**	**Time**	**2. Received By**	**Date**	**Time**	**3. Received For Lab By**	**Date**	**Time**
						LKP	6-30-04	8:30

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TriMatrix Laboratories, Inc.

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Phone (616) 975-4500 Fax (616) 942-7463
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Chain of Custody Record

COC No. 101964

Page 1 of 1

For Lab Use Only

Cart: 4
VOA Rack/Tray:
Receipt Log No.: 49-3
Project Chemist: SVZ
Laboratory Project No.: 36411-2-15

Client Name: North Jackson Co.
Address: 420 Rail St.
Negaunee, MI 49866
Phone: 906-475-9739
Fax: 906-475-0238

Project Name: Eagle
Client Project No. / P.O. No.:
Invoice To: ☐ Client ☑ Other (comments)
Contact/Report To: North Jackson

Analyses Requested

	3	16	15	4	11
	1000 ml	500 ml	500 ml - filtered	500 ml	40 ml
Container Type (corresponds to Container Packing List)	A	B	B	C	C

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

	Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Number of Containers Submitted					Total	Sample Comments
1	06	WS	364392	YDRMS003	TM0394	6/30/04	12:05		X	H_2O	2	1	1	1	3		EAG-1001119
2			364393	YDRMS002	↓	6/30/04	14:20		X	H_2O	2	1	1	1	3		EAG-1001120
3			364394	STRMS001	↓	6/30/04	13:30		X	H_2O	2	1	1	1	3		EAG-1001121
4			364395	STRES002	TM0260	6/30/04	11:40		X	H_2O	2	1	1	1	3		EAG-1001112
5		WQ	364396	EQBS001	↓	6/30/04	9:40		X	H_2O	2	1	1	1	3		EAG-1001115
6		L	364397	EQBS002	↓	6/30/04	9:50		X	H_2O	2	1	1	1	3		EAG-1001116
7																	
8																	
9																	
10																	

Sampled By (print): Pete Kero, Dan Wiitala, Peter Sobera
Sampler's Signature: Pete Kero
Company: North Jackson Co.

How Shipped? Hand Carrier FedEx
Tracking No. 7906 8508 9795 and 7906 8508 9784

	Relinquished By	Date	Time	Received By	Date	Time
1	Pete Kero	6/30/04	18:00			
2						
3				Lori Parker	7/1/04	8:40

Comments: Invoice to Kennecott Minerals - Jon Cherry
Parameter list to be e-mailed to Jennifer Rice
Cooler IDs: TM0394 and TM0260

Cart 1 7-3

TriMatrix Laboratories, Inc.

5560 Corporate Exchange Court SE • Grand Rapids, MI 49512

Chain of Custody Record

COC No. № 87642

Project Manager	Project Name	For Lab Use Only
DWW	EAGLE BES	Rack/Tray No: 15
Project No.	Sampler (Print): P SABEE	Lab Project #: 36162.05
	Sampler Signature: P Sabee	

Date Sampled	Time Sampled	Matrix* (WS)	Composite	Grab	Sample Identification	No. of Containers	Container Type (No's Correspond to Bottle Packing List)	Analysis Required/Comments	Sample No.	Filtered Date/Time
7-6	1100	Water		X	STRMS004 EAG-100122	8	2 X, 6 X, 11 X, 15 X	See attached	364654	06

Relinquished By:	Date/Time	Received By:	Received to Lab By:	Date/Time	Logged in By:	Date/Time
P Sabee	7-6-04 1500		TAF	8:45am 7-7-04		

* Matrix: Water (WTR), Wastewater (WW), Soil (SOIL), Sludge (SLG), Air, Oil, Waste (WASTE)

7912 8730 5972

Cooler TM0127

TriMatrix
Laboratories, Inc.

August 25, 2004

North Jackson Company
Attn: Mr. Peter Sabee
420 Rail Street
Negaunee, MI 49866

RE: Eagle
Submittal Number: 36162-16

Dear Mr. Peter Sabee:

Enclosed is a copy of your laboratory report for test samples received by our laboratory on August 19, 2004.

Please note that the test results of the enclosed analyses relate only to the sample(s) as received at the laboratory, and are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC) standards. Qualification of test standards, including sample acceptance requirements, are presented within the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosure(s)

The total number of pages in this report, including this page, is 64.

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Carbon, Total Organic**
Organic Carbon, Total
WATER 4151/5310D/9060

Qualification:

The analytical requirements of the method require quadruplicate analysis on every sample submitted for TOC testing. The reporting requirements require both the average and the range of the four analyses be reported. The result reported is the average; the range of the replicates is:

Explanation for Sample(s) listed below:

0.042 - 0.097

Sample(s) Qualified: 367108 EQBS002 EAG1001138

Explanation for Sample(s) listed below:

0.072 - 0.151

Sample(s) Qualified: 367107 EQBS001 EAG1001137

Explanation for Sample(s) listed below:

0.618 - 0.739

Sample(s) Qualified: 366906 CDRAS002 EAG1001133

Explanation for Sample(s) listed below:

13.318 - 14.143

Sample(s) Qualified: 367110 STRMS001 EAG1001123

Note: This document is included as a part of the analytical report for the above referenced project and submittal, and should be retained as a permanent record thereof.

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Carbon, Total Organic**
Organic Carbon, Total
WATER 4151/5310D/9060

Qualification:

The analytical requirements of the method require quadruplicate analysis on every sample submitted for TOC testing. The reporting requirements require both the average and the range of the four analyses be reported. The result reported is the average; the range of the replicates is:

Explanation for Sample(s) listed below:

2.161 - 2.203

Sample(s) Qualified: 367205 STRES002 EAG1001130

Explanation for Sample(s) listed below:

2.443 - 2.566

Sample(s) Qualified: 367203 STRES001 EAG1001129

Explanation for Sample(s) listed below:

3.155 - 3.218

Sample(s) Qualified: 366907 CDRMS004 EAG1001134

Explanation for Sample(s) listed below:

3.541 - 3.737

Sample(s) Qualified: 367112 DUPS002 EAG1001136

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Carbon, Total Organic**
Organic Carbon, Total
WATER 4151/5310D/9060

Qualification:

The analytical requirements of the method require quadruplicate analysis on every sample submitted for TOC testing. The reporting requirements require both the average and the range of the four analyses be reported. The result reported is the average; the range of the replicates is:

Explanation for Sample(s) listed below:

3.628 - 3.773

Sample(s) Qualified: 367111 STRMS003 EAG1001125

Explanation for Sample(s) listed below:

3.761 - 3.906

Sample(s) Qualified: 367204 STRMS004 EAG1001126

Explanation for Sample(s) listed below:

5.311 - 5.543

Sample(s) Qualified: 367206 STRWS001 EAG1001128

Explanation for Sample(s) listed below:

7.252 - 7.557

Sample(s) Qualified: 367109 YDRMS003 EAG1001132

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Carbon, Total Organic**
Organic Carbon, Total
WATER 4151/5310D/9060

Qualification:

The analytical requirements of the method require quadruplicate analysis on every sample submitted for TOC testing. The reporting requirements require both the average and the range of the four analyses be reported. The result reported is the average; the range of the replicates is:

Explanation for Sample(s) listed below:

7.515 - 7.877

Sample(s) Qualified: 366905 STRMS002 EAG1001124

Explanation for Sample(s) listed below:

7.526 - 7.950

Sample(s) Qualified: 366908 DUPS001 EAG1001135

Explanation for Sample(s) listed below:

8.252 - 8.969

Sample(s) Qualified: 366904 YDRMS002 EAG1001131

Explanation for Sample(s) listed below:

8.427 - 8.681

Sample(s) Qualified: 366909 DUPS003 EAG1001139

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CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

5.39

Sample(s) Narrated: 367108 EQBS002 EAG1001138

Explanation for Sample(s) listed below:

5.86

Sample(s) Narrated: 367107 EQBS001 EAG1001137

Explanation for Sample(s) listed below:

6.61

Sample(s) Narrated: 366904 YDRMS002 EAG1001131

Explanation for Sample(s) listed below:

6.81

Sample(s) Narrated: 367110 STRMS001 EAG1001123

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CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

6.89

Sample(s) Narrated: 366905 STRMS002 EAG1001124

Explanation for Sample(s) listed below:

6.90

Sample(s) Narrated: 367109 YDRMS003 EAG1001132

Explanation for Sample(s) listed below:

7.53

Sample(s) Narrated: 366909 DUPS003 EAG1001139

Explanation for Sample(s) listed below:

7.56

Sample(s) Narrated: 367203 STRES001 EAG1001129

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CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

7.64

Sample(s) Narrated: 367204 STRMS004 EAG1001126

Explanation for Sample(s) listed below:

7.67

Sample(s) Narrated: 367206 STRWS001 EAG1001128

Explanation for Sample(s) listed below:

7.68

Sample(s) Narrated: 367111 STRMS003 EAG1001125

Explanation for Sample(s) listed below:

7.69

Sample(s) Narrated: 366908 DUPS001 EAG1001135

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CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

7.72

Sample(s) Narrated: 367112 DUPS002 EAG1001136

Explanation for Sample(s) listed below:

7.82

Sample(s) Narrated: 367205 STRES002 EAG1001130

Explanation for Sample(s) listed below:

7.86

Sample(s) Narrated: 366906 CDRAS002 EAG1001133

Explanation for Sample(s) listed below:

8.00

Sample(s) Narrated: 366907 CDRMS004 EAG1001134

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CASE NARRATIVE

Analysis: **Nickel, Total**
ICP Mass Spectrometry (ICP-MS)
WATER EPA-200.8/6020

Narrative:

The quantitated values of the isotopes monitored for this analyte exceeded a difference of 25%. The lower of the two values has been reported.

Sample(s) Narrated:			
	367104	CDRMS004	EAG1001134
	367105	DUPS001	EAG1001135
	367203	STRES001	EAG1001129
	367205	STRES002	EAG1001130
	367206	STRWS001	EAG1001128

Analysis: **BOD, (5-Day)**
Biochemical Oxygen Demand
WATER SDM 5210B

Narrative:

The reported Biochemical Oxygen Demand result for this sample was calculated on an oxygen depletion of <2.0 mg/l

Sample(s) Narrated:			
	366909	DUPS003	EAG1001139
	367110	STRMS001	EAG1001123
	367204	STRMS004	EAG1001126
	367205	STRES002	EAG1001130
	367206	STRWS001	EAG1001128

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TriMatrix
Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/03/04 @ 10:30
Sampler: PJS
Received: 08/04/04 @ 08:45

Submittal #: **36162-16**
Submittal: August 2004 SW Samples

Sample ID: **YDRMS002 EAG1001131**
Sample #: **366904**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	24	2.0	mg/L	08/06/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	08/06/04	VAS	310.1/SM 2320 B
Chloride	1.1	1.0	mg/L	08/09/04	JLB	325.2/4500-CL E
Nitrogen, Ammonia	<0.05	0.05	mg/L	08/09/04	GEH	350.1/4500 NH3G
Nitrogen, Nitrate	<0.05	0.05	mg/L	08/05/04	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	08/05/04	HLB	USEPA-353.2
Sulfate	<5.0	5.0	mg/L	08/09/04	JLB	EPA-375.4/9038
Residue,Dissolved @ 180*C	75	20	mg/L	08/05/04	INR	160.1/SM 2540 C
Residue, Suspended	<3	3	mg/L	08/05/04	INR	160.2/SM 2540 D
Alkalinity, Total	24	2.0	mg/L	08/06/04	VAS	310.1/SM 2320 B
Chemical Oxygen Demand	23	5.0	mg/L	08/06/04	JMJ	410.4/SM 5220 D
* Carbon, Total Organic	8.5	1.0	mg/L	08/09/04	SAJ	4151/5310D/9060
BOD, (5-Day)	<1.0	1.0	mg/L	08/04/04	TAM	SDM 5210B
Color (Apparent)	80	10	A.C.U.	08/05/04	GEH	USEPA-110.2
Turbidity	3.3	1.0	NTU	08/05/04	HLB	USEPA-180.1

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/03/04 @ 15:30
Sampler: PJS
Received: 08/04/04 @ 08:45

Submittal #: **36162-16**
Submittal: August 2004 SW Samples

Sample ID: **STRMS002 EAG1001124**
Sample #: **366905**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	38	2.0	mg/L	08/06/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	08/06/04	VAS	310.1/SM 2320 B
	Chloride	1.1	1.0	mg/L	08/09/04	JLB	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	08/09/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	08/05/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	08/05/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	08/09/04	JLB	EPA-375.4/9038
	Residue,Dissolved @ 180*C	67	20	mg/L	08/05/04	INR	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	08/05/04	INR	160.2/SM 2540 D
	Alkalinity, Total	38	2.0	mg/L	08/06/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	22	5.0	mg/L	08/06/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	7.7	1.0	mg/L	08/09/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	08/04/04	TAM	SDM 5210B
	Color (Apparent)	90	10	A.C.U.	08/05/04	GEH	USEPA-110.2
	Turbidity	2.1	1.0	NTU	08/05/04	HLB	USEPA-180.1

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/03/04 @ 13:00
Sampler: PJS
Received: 08/04/04 @ 08:45

Submittal #: **36162-16**
Submittal: August 2004 SW Samples

Sample ID: **CDRAS002 EAG1001133**
Sample #: **366906**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	48	2.0	mg/L	08/06/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	08/06/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	08/09/04	JLB	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	08/09/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	08/05/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	08/05/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	08/09/04	JLB	EPA-375.4/9038
	Residue,Dissolved @ 180*C	70	20	mg/L	08/05/04	INR	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	08/05/04	INR	160.2/SM 2540 D
	Alkalinity, Total	48	2.0	mg/L	08/06/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	<5.0	5.0	mg/L	08/06/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	<1.0	1.0	mg/L	08/09/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	08/04/04	TAM	SDM 5210B
	Color (Apparent)	<5	5	A.C.U.	08/05/04	GEH	USEPA-110.2
	Turbidity	<1.0	1.0	NTU	08/05/04	HLB	USEPA-180.1

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/03/04 @ 14:30
Sampler: PJS
Received: 08/04/04 @ 08:45

Submittal #: **36162-16**
Submittal: August 2004 SW Samples

Sample ID: **CDRMS004 EAG1001134**
Sample #: **366907**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	72	2.0	mg/L	08/06/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	08/06/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	08/09/04	JLB	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	08/09/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	08/05/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	08/05/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	08/09/04	JLB	EPA-375.4/9038
	Residue,Dissolved @ 180*C	99	20	mg/L	08/05/04	INR	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	08/05/04	INR	160.2/SM 2540 D
	Alkalinity, Total	72	2.0	mg/L	08/06/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	8.7	5.0	mg/L	08/06/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	3.2	1.0	mg/L	08/10/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	08/04/04	TAM	SDM 5210B
	Color (Apparent)	20	5	A.C.U.	08/05/04	GEH	USEPA-110.2
	Turbidity	1.1	1.0	NTU	08/05/04	HLB	USEPA-180.1

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/03/04 @ 00:00
Sampler: PJS
Received: 08/04/04 @ 08:45

Submittal #: **36162-16**
Submittal: August 2004 SW Samples

Sample ID: **DUPS001 EAG1001135**
Sample #: **366908**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	28	2.0	mg/L	08/06/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	08/06/04	VAS	310.1/SM 2320 B
	Chloride	1.0	1.0	mg/L	08/09/04	JLB	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	08/09/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	08/05/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	08/05/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	08/09/04	JLB	EPA-375.4/9038
	Residue,Dissolved @ 180*C	70	20	mg/L	08/05/04	INR	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	08/05/04	INR	160.2/SM 2540 D
	Alkalinity, Total	28	2.0	mg/L	08/06/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	22	5.0	mg/L	08/06/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	7.8	1.0	mg/L	08/10/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	08/04/04	TAM	SDM 5210B
	Color (Apparent)	90	10	A.C.U.	08/05/04	GEH	USEPA-110.2
	Turbidity	2.0	1.0	NTU	08/05/04	HLB	USEPA-180.1

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/03/04 @ 00:00
Sampler: PJS
Received: 08/04/04 @ 08:45

Submittal #: **36162-16**
Submittal: August 2004 SW Samples

Sample ID: **DUPS003 EAG1001139**
Sample #: **366909**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	39	2.0	mg/L	08/06/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	08/06/04	VAS	310.1/SM 2320 B
	Chloride	1.0	1.0	mg/L	08/09/04	JLB	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	08/09/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	08/05/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	08/05/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	08/10/04	JLB	EPA-375.4/9038
	Residue,Dissolved @ 180*C	65	20	mg/L	08/05/04	INR	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	08/05/04	INR	160.2/SM 2540 D
	Alkalinity, Total	39	2.0	mg/L	08/06/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	23	5.0	mg/L	08/06/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	8.5	1.0	mg/L	08/10/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	1.1	1.0	mg/L	08/04/04	TAM	SDM 5210B
	Color (Apparent)	90	10	A.C.U.	08/05/04	GEH	USEPA-110.2
	Turbidity	3.3	1.0	NTU	08/05/04	HLB	USEPA-180.1

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/03/04 @ 10:30
Sampler: P. Sabee
Received: 08/05/04 @ 09:05

Submittal #: **36162-16**
Submittal: August 2004 SW Samples

Sample ID: **YDRMS002 EAG1001131**
Sample #: **367101**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Iron, Total	1060	20	ug/L	08/16/04	JMF	EPA-200.7/6010B
Arsenic, Total	1.3	1.0	ug/L	08/19/04	DSC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	08/18/04	MSG	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Manganese, Total	31	10	ug/L	08/18/04	MSG	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Calcium, Dissolved	10	0.50	mg/L	08/16/04	JMF	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	08/16/04	JMF	EPA-200.7/6010B
Magnesium, Dissolved	2.0	0.50	mg/L	08/16/04	JMF	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	08/18/04	DWJ	EPA-200.7/6010B

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/03/04 @ 15:30
Sampler: P. Sabee
Received: 08/05/04 @ 09:05

Submittal #: **36162-16**
Submittal: August 2004 SW Samples

Sample ID: **STRMS002 EAG1001124**
Sample #: **367102**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Iron, Total	580	20	ug/L	08/16/04	JMF	EPA-200.7/6010B
Arsenic, Total	<1.0	1.0	ug/L	08/19/04	DSC	EPA-200.8/6020
Barium, Total	12	10	ug/L	08/18/04	MSG	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Manganese, Total	23	10	ug/L	08/18/04	MSG	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Calcium, Dissolved	10	0.50	mg/L	08/16/04	JMF	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	08/16/04	JMF	EPA-200.7/6010B
Magnesium, Dissolved	2.0	0.50	mg/L	08/16/04	JMF	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	08/18/04	DWJ	EPA-200.7/6010B

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/03/04 @ 13:00
Sampler: P. Sabee
Received: 08/05/04 @ 09:05

Submittal #: **36162-16**
Submittal: August 2004 SW Samples

Sample ID: **CDRAS002 EAG1001133**
Sample #: **367103**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Iron, Total	33	20	ug/L	08/16/04	JMF	EPA-200.7/6010B
Arsenic, Total	<1.0	1.0	ug/L	08/19/04	DSC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	08/18/04	MSG	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Manganese, Total	<10	10	ug/L	08/18/04	MSG	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Calcium, Dissolved	17	0.50	mg/L	08/18/04	JMF	EPA-200.7/6010B
Potassium, Dissolved	0.57	0.50	mg/L	08/18/04	JMF	EPA-200.7/6010B
Magnesium, Dissolved	2.2	0.50	mg/L	08/18/04	JMF	EPA-200.7/6010B
Sodium, Dissolved	0.80	0.50	mg/L	08/18/04	JMF	EPA-200.7/6010B

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/03/04 @ 14:30
Sampler: P. Sabee
Received: 08/05/04 @ 09:05

Submittal #: **36162-16**
Submittal: August 2004 SW Samples

Sample ID: **CDRMS004 EAG1001134**
Sample #: **367104**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Iron, Total	160	20	ug/L	08/16/04	JMF	EPA-200.7/6010B
Arsenic, Total	2.3	1.0	ug/L	08/19/04	DSC	EPA-200.8/6020
Barium, Total	14	10	ug/L	08/18/04	MSG	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Manganese, Total	16	10	ug/L	08/18/04	MSG	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Calcium, Dissolved	25	0.50	mg/L	08/18/04	JMF	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	08/18/04	JMF	EPA-200.7/6010B
Magnesium, Dissolved	4.0	0.50	mg/L	08/18/04	JMF	EPA-200.7/6010B
Sodium, Dissolved	1.3	0.50	mg/L	08/18/04	JMF	EPA-200.7/6010B

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/03/04 @ 00:00
Sampler: P. Sabee
Received: 08/05/04 @ 09:05

Submittal #: **36162-16**
Submittal: August 2004 SW Samples

Sample ID: **DUPS001 EAG1001135**
Sample #: **367105**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Iron, Total	580	20	ug/L	08/16/04	JMF	EPA-200.7/6010B
Arsenic, Total	<1.0	1.0	ug/L	08/19/04	DSC	EPA-200.8/6020
Barium, Total	11	10	ug/L	08/18/04	MSG	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Manganese, Total	23	10	ug/L	08/18/04	MSG	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Calcium, Dissolved	11	0.50	mg/L	08/18/04	JMF	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	08/18/04	JMF	EPA-200.7/6010B
Magnesium, Dissolved	2.1	0.50	mg/L	08/18/04	JMF	EPA-200.7/6010B
Sodium, Dissolved	0.83	0.50	mg/L	08/18/04	JMF	EPA-200.7/6010B

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/03/04 @ 00:00
Sampler: P. Sabee
Received: 08/05/04 @ 09:05

Submittal #: **36162-16**
Submittal: August 2004 SW Samples

Sample ID: **DUPS003 EAG1001139**
Sample #: **367106**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Iron, Total	1060	20	ug/L	08/16/04	JMF	EPA-200.7/6010B
Arsenic, Total	1.0	1.0	ug/L	08/19/04	DSC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	08/18/04	MSG	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Manganese, Total	31	10	ug/L	08/18/04	MSG	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Calcium, Dissolved	10	0.50	mg/L	08/18/04	JMF	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	08/18/04	JMF	EPA-200.7/6010B
Magnesium, Dissolved	2.1	0.50	mg/L	08/18/04	JMF	EPA-200.7/6010B
Sodium, Dissolved	0.98	0.50	mg/L	08/18/04	JMF	EPA-200.7/6010B

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Client: **North Jackson Company**
Project: Eagle

Sampled: 08/04/04 @ 10:00
Sampler: P. Sabee
Received: 08/05/04 @ 09:05

Submittal #: **36162-16**
Submittal: August 2004 SW Samples

Sample ID: **EQBS001 EAG1001137**
Sample #: **367107**
Matrix: QC Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	<2.0	2.0	mg/L	08/06/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	08/06/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	08/09/04	JLB	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	08/09/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	08/05/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	08/05/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	08/10/04	JLB	EPA-375.4/9038
	Residue,Dissolved @ 180*C	<20	20	mg/L	08/06/04	INR	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	08/06/04	INR	160.2/SM 2540 D
	Alkalinity, Total	<2.0	2.0	mg/L	08/06/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	<5.0	5.0	mg/L	08/06/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	<1.0	1.0	mg/L	08/10/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	08/05/04	TAM	SDM 5210B
	Color (Apparent)	<5	5	A.C.U.	08/05/04	GEH	USEPA-110.2
	Turbidity	<1.0	1.0	NTU	08/05/04	HLB	USEPA-180.1
	Iron, Total	<20	20	ug/L	08/16/04	JMF	EPA-200.7/6010B
	Arsenic, Total	<1.0	1.0	ug/L	08/19/04	DSC	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	08/18/04	MSG	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
	Manganese, Total	<10	10	ug/L	08/18/04	MSG	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
	Calcium, Dissolved	<0.50	0.50	mg/L	08/18/04	JMF	EPA-200.7/6010B
	Potassium, Dissolved	<0.50	0.50	mg/L	08/18/04	JMF	EPA-200.7/6010B
	Magnesium, Dissolved	<0.50	0.50	mg/L	08/18/04	JMF	EPA-200.7/6010B
	Sodium, Dissolved	<0.50	0.50	mg/L	08/18/04	JMF	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/04/04 @ 10:15
Sampler: P. Sabee
Received: 08/05/04 @ 09:05

Submittal #: **36162-16**
Submittal: August 2004 SW Samples

Sample ID: **EQBS002 EAG1001138**
Sample #: **367108**
Matrix: QC Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	<2.0	2.0	mg/L	08/06/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	08/06/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	08/09/04	JLB	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	08/09/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	08/05/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	08/05/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	08/10/04	JLB	EPA-375.4/9038
	Residue,Dissolved @ 180*C	<20	20	mg/L	08/06/04	INR	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	08/06/04	INR	160.2/SM 2540 D
	Alkalinity, Total	<2.0	2.0	mg/L	08/06/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	<5.0	5.0	mg/L	08/06/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	<1.0	1.0	mg/L	08/10/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	08/05/04	TAM	SDM 5210B
	Color (Apparent)	<5	5	A.C.U.	08/05/04	GEH	USEPA-110.2
	Turbidity	<1.0	1.0	NTU	08/05/04	HLB	USEPA-180.1
	Iron, Total	<20	20	ug/L	08/16/04	JMF	EPA-200.7/6010B
	Arsenic, Total	<1.0	1.0	ug/L	08/19/04	DSC	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	08/18/04	MSG	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
	Manganese, Total	<10	10	ug/L	08/18/04	MSG	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
	Calcium, Dissolved	<0.50	0.50	mg/L	08/18/04	JMF	EPA-200.7/6010B
	Potassium, Dissolved	<0.50	0.50	mg/L	08/18/04	JMF	EPA-200.7/6010B
	Magnesium, Dissolved	<0.50	0.50	mg/L	08/18/04	JMF	EPA-200.7/6010B
	Sodium, Dissolved	<0.50	0.50	mg/L	08/18/04	JMF	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/04/04 @ 12:30
Sampler: P. Sabee
Received: 08/05/04 @ 09:05

Submittal #: **36162-16**
Submittal: August 2004 SW Samples

Sample ID: **YDRMS003 EAG1001132**
Sample #: **367109**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	24	2.0	mg/L	08/06/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	08/06/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	08/09/04	JLB	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	08/09/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	08/05/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	08/05/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	08/10/04	JLB	EPA-375.4/9038
	Residue,Dissolved @ 180*C	63	20	mg/L	08/06/04	INR	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	08/06/04	INR	160.2/SM 2540 D
	Alkalinity, Total	24	2.0	mg/L	08/06/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	21	5.0	mg/L	08/06/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	7.4	1.0	mg/L	08/11/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	08/05/04	TAM	SDM 5210B
	Color (Apparent)	70	10	A.C.U.	08/05/04	GEH	USEPA-110.2
	Turbidity	1.8	1.0	NTU	08/05/04	HLB	USEPA-180.1
	Iron, Total	480	20	ug/L	08/16/04	JMF	EPA-200.7/6010B
	Arsenic, Total	<1.0	1.0	ug/L	08/19/04	DSC	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	08/18/04	MSG	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
	Manganese, Total	27	10	ug/L	08/18/04	MSG	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
	Calcium, Dissolved	9.0	0.50	mg/L	08/18/04	JMF	EPA-200.7/6010B
	Potassium, Dissolved	<0.50	0.50	mg/L	08/18/04	JMF	EPA-200.7/6010B
	Magnesium, Dissolved	1.9	0.50	mg/L	08/18/04	JMF	EPA-200.7/6010B
	Sodium, Dissolved	0.75	0.50	mg/L	08/18/04	JMF	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/04/04 @ 09:30
Sampler: P. Sabee
Received: 08/05/04 @ 09:05

Submittal #: **36162-16**
Submittal: August 2004 SW Samples

Sample ID: **STRMS001 EAG1001123**
Sample #: **367110**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	38	2.0	mg/L	08/06/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	08/06/04	VAS	310.1/SM 2320 B
	Chloride	1.6	1.0	mg/L	08/09/04	JLB	325.2/4500-CL E
	Nitrogen, Ammonia	0.05	0.05	mg/L	08/09/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	08/05/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	08/05/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	08/10/04	JLB	EPA-375.4/9038
	Residue,Dissolved @ 180*C	91	20	mg/L	08/06/04	INR	160.1/SM 2540 C
	Residue, Suspended	10	10	mg/L	08/06/04	INR	160.2/SM 2540 D
	Alkalinity, Total	38	2.0	mg/L	08/06/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	35	5.0	mg/L	08/06/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	14	1.0	mg/L	08/11/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	2.3	1.0	mg/L	08/05/04	TAM	SDM 5210B
	Color (Apparent)	200	50	A.C.U.	08/05/04	GEH	USEPA-110.2
	Turbidity	8.3	1.0	NTU	08/05/04	HLB	USEPA-180.1
	Iron, Total	5860	20	ug/L	08/16/04	JMF	EPA-200.7/6010B
	Arsenic, Total	1.5	1.0	ug/L	08/19/04	DSC	EPA-200.8/6020
	Barium, Total	32	10	ug/L	08/18/04	MSG	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
	Manganese, Total	369	10	ug/L	08/18/04	MSG	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/04/04 @ 14:00
Sampler: P. Sabee
Received: 08/05/04 @ 09:05

Submittal #: **36162-16**
Submittal: August 2004 SW Samples

Sample ID: **STRMS003 EAG1001125**
Sample #: **367111**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	44	2.0	mg/L	08/06/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	08/06/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	08/09/04	JLB	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	08/09/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	0.12	0.05	mg/L	08/05/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	08/05/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	08/10/04	JLB	EPA-375.4/9038
	Residue,Dissolved @ 180*C	75	20	mg/L	08/06/04	INR	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	08/06/04	INR	160.2/SM 2540 D
	Alkalinity, Total	44	2.0	mg/L	08/06/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	10	5.0	mg/L	08/06/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	3.7	1.0	mg/L	08/11/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	08/05/04	TAM	SDM 5210B
	Color (Apparent)	40	5	A.C.U.	08/05/04	GEH	USEPA-110.2
	Turbidity	1.8	1.0	NTU	08/05/04	HLB	USEPA-180.1
	Iron, Total	280	20	ug/L	08/16/04	JMF	EPA-200.7/6010B
	Arsenic, Total	1.3	1.0	ug/L	08/19/04	DSC	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	08/18/04	MSG	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
	Manganese, Total	11	10	ug/L	08/18/04	MSG	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
	Calcium, Dissolved	15	0.50	mg/L	08/18/04	JMF	EPA-200.7/6010B
	Potassium, Dissolved	0.54	0.50	mg/L	08/18/04	JMF	EPA-200.7/6010B
	Magnesium, Dissolved	2.6	0.50	mg/L	08/18/04	JMF	EPA-200.7/6010B
	Sodium, Dissolved	0.97	0.50	mg/L	08/18/04	JMF	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/04/04 @ 00:00
Sampler: P. Sabee
Received: 08/05/04 @ 09:05

Submittal #: **36162-16**
Submittal: August 2004 SW Samples

Sample ID: **DUPS002 EAG1001136**
Sample #: **367112**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	44	2.0	mg/L	08/06/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	08/06/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	08/09/04	JLB	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	08/09/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	0.12	0.05	mg/L	08/05/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	08/05/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	08/10/04	JLB	EPA-375.4/9038
	Residue,Dissolved @ 180*C	71	20	mg/L	08/06/04	INR	160.1/SM 2540 C
	Residue, Suspended	3	3	mg/L	08/06/04	INR	160.2/SM 2540 D
	Alkalinity, Total	44	2.0	mg/L	08/06/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	9.9	5.0	mg/L	08/06/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	3.6	1.0	mg/L	08/11/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	08/05/04	TAM	SDM 5210B
	Color (Apparent)	40	5	A.C.U.	08/05/04	GEH	USEPA-110.2
	Turbidity	1.7	1.0	NTU	08/05/04	HLB	USEPA-180.1
	Iron, Total	280	20	ug/L	08/16/04	JMF	EPA-200.7/6010B
	Arsenic, Total	1.4	1.0	ug/L	08/19/04	DSC	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	08/18/04	MSG	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
	Manganese, Total	12	10	ug/L	08/18/04	MSG	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
	Calcium, Dissolved	15	0.50	mg/L	08/18/04	JMF	EPA-200.7/6010B
	Potassium, Dissolved	0.55	0.50	mg/L	08/18/04	JMF	EPA-200.7/6010B
	Magnesium, Dissolved	2.7	0.50	mg/L	08/18/04	JMF	EPA-200.7/6010B
	Sodium, Dissolved	1.1	0.50	mg/L	08/18/04	JMF	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/05/04 @ 14:30
Sampler: P.K.
Received: 08/06/04 @ 08:45

Submittal #: **36162-16**
Submittal: August 2004 SW Samples

Sample ID: **STRES001 EAG1001129**
Sample #: **367203**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	70	2.0	mg/L	08/12/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	08/12/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	08/10/04	JLB	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	08/09/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	08/06/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	08/06/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	08/10/04	JLB	EPA-375.4/9038
	Residue,Dissolved @ 180*C	82	20	mg/L	08/10/04	INR	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	08/10/04	INR	160.2/SM 2540 D
	Alkalinity, Total	70	2.0	mg/L	08/12/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	5.0	5.0	mg/L	08/16/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	2.5	1.0	mg/L	08/11/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	08/06/04	TAM	SDM 5210B
	Color (Apparent)	15	5	A.C.U.	08/06/04	GEH	USEPA-110.2
	Turbidity	1.1	1.0	NTU	08/06/04	HLB	USEPA-180.1
	Iron, Total	100	20	ug/L	08/16/04	JMF	EPA-200.7/6010B
	Arsenic, Total	1.2	1.0	ug/L	08/19/04	DSC	EPA-200.8/6020
	Barium, Total	11	10	ug/L	08/18/04	MSG	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
	Manganese, Total	<10	10	ug/L	08/18/04	MSG	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
	Calcium, Dissolved	21	0.50	mg/L	08/16/04	JMF	EPA-200.7/6010B
	Potassium, Dissolved	<0.50	0.50	mg/L	08/16/04	JMF	EPA-200.7/6010B
	Magnesium, Dissolved	4.3	0.50	mg/L	08/16/04	JMF	EPA-200.7/6010B
	Sodium, Dissolved	0.90	0.50	mg/L	08/20/04	JMF	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/05/04 @ 10:40
Sampler: P.K.
Received: 08/06/04 @ 08:45

Submittal #: **36162-16**
Submittal: August 2004 SW Samples

Sample ID: **STRMS004 EAG1001126**
Sample #: **367204**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	51	2.0	mg/L	08/12/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	08/12/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	08/10/04	JLB	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	08/09/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	0.11	0.05	mg/L	08/06/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	08/06/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	08/10/04	JLB	EPA-375.4/9038
	Residue,Dissolved @ 180*C	73	20	mg/L	08/10/04	INR	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	08/10/04	INR	160.2/SM 2540 D
	Alkalinity, Total	51	2.0	mg/L	08/12/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	9.5	5.0	mg/L	08/16/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	3.8	1.0	mg/L	08/11/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	1.1	1.0	mg/L	08/06/04	TAM	SDM 5210B
	Color (Apparent)	35	5	A.C.U.	08/06/04	GEH	USEPA-110.2
	Turbidity	1.8	1.0	NTU	08/06/04	HLB	USEPA-180.1
	Iron, Total	290	20	ug/L	08/16/04	JMF	EPA-200.7/6010B
	Arsenic, Total	1.3	1.0	ug/L	08/19/04	DSC	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	08/18/04	MSG	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
	Manganese, Total	21	10	ug/L	08/18/04	MSG	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
	Calcium, Dissolved	16	0.50	mg/L	08/16/04	JMF	EPA-200.7/6010B
	Potassium, Dissolved	0.53	0.50	mg/L	08/16/04	JMF	EPA-200.7/6010B
	Magnesium, Dissolved	3.0	0.50	mg/L	08/16/04	JMF	EPA-200.7/6010B
	Sodium, Dissolved	0.78	0.50	mg/L	08/20/04	JMF	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/05/04 @ 10:20
Sampler: P.K.
Received: 08/06/04 @ 08:45

Submittal #: **36162-16**
Submittal: August 2004 SW Samples

Sample ID: **STRES002 EAG1001130**
Sample #: **367205**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	75	2.0	mg/L	08/12/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	08/12/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	08/10/04	JLB	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	08/09/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	08/06/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	08/06/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	08/10/04	JLB	EPA-375.4/9038
	Residue,Dissolved @ 180*C	90	20	mg/L	08/10/04	INR	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	08/10/04	INR	160.2/SM 2540 D
	Alkalinity, Total	75	2.0	mg/L	08/12/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	<5.0	5.0	mg/L	08/16/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	2.2	1.0	mg/L	08/11/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	1.1	1.0	mg/L	08/06/04	TAM	SDM 5210B
	Color (Apparent)	15	5	A.C.U.	08/06/04	GEH	USEPA-110.2
	Turbidity	1.4	1.0	NTU	08/06/04	HLB	USEPA-180.1
	Iron, Total	91	20	ug/L	08/16/04	JMF	EPA-200.7/6010B
	Arsenic, Total	1.4	1.0	ug/L	08/19/04	DSC	EPA-200.8/6020
	Barium, Total	12	10	ug/L	08/18/04	MSG	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
	Manganese, Total	<10	10	ug/L	08/18/04	MSG	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
	Calcium, Dissolved	21	0.50	mg/L	08/16/04	JMF	EPA-200.7/6010B
	Potassium, Dissolved	0.62	0.50	mg/L	08/16/04	JMF	EPA-200.7/6010B
	Magnesium, Dissolved	4.3	0.50	mg/L	08/16/04	JMF	EPA-200.7/6010B
	Sodium, Dissolved	1.0	0.50	mg/L	08/20/04	JMF	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/05/04 @ 12:30
Sampler: P.K.
Received: 08/06/04 @ 08:45

Submittal #: **36162-16**
Submittal: August 2004 SW Samples

Sample ID: **STRWS001 EAG1001128**
Sample #: **367206**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	75	2.0	mg/L	08/12/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	08/12/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	08/10/04	JLB	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	08/09/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	08/06/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	08/06/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	08/10/04	JLB	EPA-375.4/9038
	Residue,Dissolved @ 180*C	99	20	mg/L	08/10/04	INR	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	08/10/04	INR	160.2/SM 2540 D
	Alkalinity, Total	75	2.0	mg/L	08/12/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	13	5.0	mg/L	08/16/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	5.4	1.0	mg/L	08/11/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	1.4	1.0	mg/L	08/06/04	TAM	SDM 5210B
	Color (Apparent)	40	5	A.C.U.	08/06/04	GEH	USEPA-110.2
	Turbidity	2.4	1.0	NTU	08/06/04	HLB	USEPA-180.1
	Iron, Total	650	20	ug/L	08/16/04	JMF	EPA-200.7/6010B
	Arsenic, Total	1.5	1.0	ug/L	08/19/04	DSC	EPA-200.8/6020
	Barium, Total	17	10	ug/L	08/18/04	MSG	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
	Manganese, Total	87	10	ug/L	08/18/04	MSG	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
	Calcium, Dissolved	23	0.50	mg/L	08/16/04	JMF	EPA-200.7/6010B
	Potassium, Dissolved	0.54	0.50	mg/L	08/16/04	JMF	EPA-200.7/6010B
	Magnesium, Dissolved	3.7	0.50	mg/L	08/16/04	JMF	EPA-200.7/6010B
	Sodium, Dissolved	0.93	0.50	mg/L	08/20/04	JMF	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/05/04 @ 14:30
Sampler: P.K.
Received: 08/06/04 @ 08:45

Submittal #: **36162-16**
Submittal: August 2004 SW Samples

Sample ID: **STRMS001 EAG1001123**
Sample #: **367207**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Calcium, Dissolved	12	0.50	mg/L	08/16/04	JMF	EPA-200.7/6010B
Potassium, Dissolved	0.54	0.50	mg/L	08/16/04	JMF	EPA-200.7/6010B
Magnesium, Dissolved	2.3	0.50	mg/L	08/16/04	JMF	EPA-200.7/6010B
Sodium, Dissolved	0.53	0.50	mg/L	08/20/04	JMF	EPA-200.7/6010B

End of Analytical Report

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Bicarbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/06/04	219726	VAS	<2.0
08/12/04	220045	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/06/04	219726	VAS	238	240	101	93-105
08/12/04	220045	VAS	238	240	101	93-105

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Carbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/06/04	219726	VAS	<2.0
08/12/04	220045	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/06/04	219726	VAS	377	326	86	77-110
08/12/04	220045	VAS	377	369	98	77-110

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36162- 16

QUALITY CONTROL REPORT

Parameter: **Alkalinity, Total**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/06/04	219726	VAS	<2.0
08/12/04	220045	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/06/04	219726	VAS	238	240	101	92-105
08/12/04	220045	VAS	238	240	101	92-105

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/18/04	220240	MSG	<1.0
08/19/04	220305	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/19/04	220305	DSC	40	39.3	98	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/19/04	98275	DSC	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/19/04	98275	DSC	25	25.5	102	85-115

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36162- 16

QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/16/04	220161	JMF	<10

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36162- 16

QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/18/04	220240	MSG	<5.0
08/19/04	220305	DSC	<5.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/04	220240	MSG	40	39.5	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/18/04	98275	MSG	<5.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/04	98275	MSG	25	26.2	105	86-119

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36162- 16

QUALITY CONTROL REPORT

Parameter: **BOD, (5-Day)**
Method: Biochemical Oxygen Demand SDM 5210B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/04/04	219907	TAM	<1.0
08/05/04	220031	TAM	<1.0
08/06/04	220043	TAM	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/04/04	219907	TAM	198	203	103	85-115
08/05/04	220031	TAM	198	196	99	85-115
08/06/04	220043	TAM	198	204	103	85-115

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QUALITY CONTROL REPORT

Parameter: **Carbon, Total Organic**
Method: Organic Carbon, Total 4151/5310D/9060 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/09/04	219803	SAJ	<1.0
08/10/04	220032	SAJ	<1.0
08/11/04	219966	SAJ	<0.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/09/04	219803	SAJ	25	23.1	92	90-110
08/10/04	220032	SAJ	25	23.4	94	90-110
08/11/04	219966	SAJ	25	23.7	95	90-110

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36162- 16

QUALITY CONTROL REPORT

Parameter: **Chemical Oxygen Demand**
Method: Closed Reflux, Colorimetric Method 410.4/SM 5220 D WATER
Units: mg/L

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/06/04	97925	JMJ	<5.0
08/16/04	98189	JMJ	<5.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/06/04	97925	JMJ	30	30	100	90-110
08/16/04	98189	JMJ	30	29	97	90-110

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QUALITY CONTROL REPORT

Parameter: **Chloride**
Method: Colorimetric, Automated Ferricyanide 325.2/4500-CL E WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/09/04	219786	JLB	<1.0
08/10/04	219845	JLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/09/04	219786	JLB	78.1	80.0	102	92-109
08/10/04	219845	JLB	78.1	76.8	98	92-109

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QUALITY CONTROL REPORT

Parameter: **Color (Apparent)**
Method: Colorimetric, Platinum-Cobalt USEPA-110.2 WATER
Units: A.C.U.

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/05/04	219832	GEH	<5
08/06/04	219835	GEH	<5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/05/04	219832	GEH	25	25	100	80-120
08/06/04	219835	GEH	50	50	100	80-120

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36162- 16

QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/16/04	220161	JMF	<10

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36162- 16

QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/18/04	220240	MSG	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/04	220240	MSG	40	39.7	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/18/04	98275	MSG	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/04	98275	MSG	25	25.8	103	86-123

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36162- 16

QUALITY CONTROL REPORT

Parameter: **Iron, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/16/04	220161	JMF	<20
08/18/04	220239	DWJ	<20
08/18/04	220261	JMF	<20
08/20/04	220324	JMF	<20

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/16/04	220161	JMF	500	496	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/16/04	98216	JMF	<20

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/16/04	98216	JMF	250	268	107	83-118

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36162- 16

QUALITY CONTROL REPORT

Parameter: **Magnesium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/16/04	220161	JMF	<0.50
08/18/04	220239	DWJ	<0.50
08/18/04	220261	JMF	<0.50
08/20/04	220324	JMF	<0.10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/16/04	220161	JMF	5.0	4.97	99	90-110
08/18/04	220261	JMF	5.0	5.08	102	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/16/04	98217	JMF	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/16/04	98217	JMF	12.5	13.2	106	87-115

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36162- 16

QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/16/04	220161	JMF	<10
08/18/04	220261	JMF	<10
08/20/04	220324	JMF	<5

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36162- 16

QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/18/04	220240	MSG	<5.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/04	220240	MSG	40	40.4	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/18/04	98275	MSG	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/04	98275	MSG	25	26.0	104	84-126

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36162- 16

QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/20/04	220324	JMF	<10

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/18/04	220240	MSG	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/04	220240	MSG	40	40.8	102	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/18/04	98275	MSG	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/04	98275	MSG	25	25.2	101	82-124

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Ammonia**
Method: Colorimetric, Automated Phenate 350.1/4500 NH3G WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/09/04	219929	GEH	<0.02

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/09/04	219929	GEH	0.765	0.783	102	90-110

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36162- 16

QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrate**
Method: Colorimetric, Auto-Cadmium Reduction 353.2/4500 NO3F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/05/04	220041	HLB	<0.05
08/06/04	219723	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/05/04	220041	HLB	0.624	0.586	94	90-110
08/06/04	219723	HLB	0.624	0.601	96	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrite**
Method: Colorimetric, Automated USEPA-353.2 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/05/04	220042	HLB	<0.05
08/06/04	219724	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/05/04	220042	HLB	0.50	0.49	98	90-110
08/06/04	219724	HLB	0.50	0.50	100	90-110

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QUALITY CONTROL REPORT

Parameter: **Potassium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/16/04	220161	JMF	<0.10
08/18/04	220261	JMF	<0.10
08/20/04	220324	JMF	<0.10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/16/04	220161	JMF	5.0	5.30	106	90-110
08/18/04	220261	JMF	5.0	5.27	105	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/16/04	98217	JMF	<0.20

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/16/04	98217	JMF	12.5	14.2	114	87-125

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QUALITY CONTROL REPORT

Parameter: **Residue,Dissolved @ 180*C**
Method: Residue-Gravimetric, Dried @ 180*C 160.1/SM 2540 C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/05/04	219833	INR	<2.5
08/06/04	220012	INR	<2.5
08/10/04	220034	INR	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/05/04	219833	INR	1000.0	989	99	90-108
08/06/04	220012	INR	1000.0	1008	101	90-108
08/10/04	220034	INR	1000.0	1020	102	90-108

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QUALITY CONTROL REPORT

Parameter: **Residue,Dissolved @ 180*C**
Method: Residue-Gravimetric, Dried @ 180*C 160.1/SM 2540 C WW
Units: mg/L

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/06/04	220012	INR	1000.0	960	96	85-117

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QUALITY CONTROL REPORT

Parameter: **Residue, Suspended**
Method: Residue-Gravimetric, Dried @ 103-105*C 160.2/SM 2540 D WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/05/04	219774	INR	<2.5
08/06/04	220026	INR	<2.5
08/10/04	219998	INR	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/05/04	219774	INR	1000.0	973	97	89-106
08/06/04	220026	INR	1000.0	954	95	89-106
08/10/04	219998	INR	1000.0	989	99	89-106

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36162- 16

QUALITY CONTROL REPORT

Parameter: **Residue, Suspended**
Method: Residue-Gravimetric, Dried @ 103-105*C 160.2/SM 2540 D WW
Units: mg/L

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/10/04	219998	INR	1000.0	911	91	88-108

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36162- 16

QUALITY CONTROL REPORT

Parameter: **Sodium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/18/04	220239	DWJ	<0.50
08/18/04	220261	JMF	<0.50
08/20/04	220324	JMF	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/04	220239	DWJ	5.0	5.06	101	90-110
08/18/04	220261	JMF	5.0	4.97	99	90-110
08/20/04	220324	JMF	5.0	4.89	98	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/18/04	98217	DWJ	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/04	98217	DWJ	12.5	13.1	105	86-117

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QUALITY CONTROL REPORT

Parameter: **Sulfate**
Method: Turbidimetric Method (Manual) EPA-375.4/9038 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/09/04	219783	JLB	<5.0
08/10/04	219844	JLB	<5.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/09/04	219783	JLB	15.8	16.3	103	85-113
08/10/04	219844	JLB	15.8	15.6	99	85-113

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36162- 16

QUALITY CONTROL REPORT

Parameter: **Turbidity**
Method: Nephelometric USEPA-180.1 WATER
Units: NTU

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/05/04	220023	HLB	<1.0
08/06/04	220019	HLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/05/04	220023	HLB	402	389	97	90-110
08/06/04	220019	HLB	402	392	98	90-110

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Chain of Custody Record

TM0548 TM0871 COC No. 100631

Page 1 of 2

For Lab Use Only
Cart: 5
VOA Rack/Tray:
Receipt Log No.: 11-9
Project Chemist:
Laboratory Project No.: 36162-14

Client Name: North Jackson
Address: P.O. Box 30
Nazareth MI
Phone: 906 475-9882
Fax:

Project Name: EAGLE
Client Project No. / P.O. No.:
Invoice To: ☐ Client KEK ☒ Other (comments)
Contact/Report To: PJS

Analyses Requested

⇦ PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

	Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List) A	B	C	D	Total	Sample Comments
												Number of Containers Submitted					
1	08	WS	367101	1	YDRMS002	TM0871	8/3	1030		X	WW		2				EAG-100131
1			367102	2	STRMS002	TM0871		1530		X			2				EAG-100124
1			367103	3	CDRAS002	TM0871		1300		X			2				EAG-100133
1			367104	4	CDRMS004	TM0871		1430		X			2				EAG-100134
1			367105	5	DUPS001	TM0548		—		X			2				EAG-100135
1			367106	6	DUPS003		8/3	—		X			2				EAG-100139
06	WQ		367107	7	EQBS001		8/4	1000		X		2	2	1	3		EAG-100137
			367108	8	EQBS002			1015		X		2	2	1	3		EAG-100138
	WS		367109	9	YDRMS003			1230		X		2	2	1	3		EAG-100132
			367110	10	STRMS001			0930		X		2	1	1	3		EAG-100123

Sampled By (print): Peter Sabee
Sampler's Signature:
Company:

How Shipped? Hand Carrier: Fed Exp
Tracking No.:

Comments: Analysis #le will only be via e-mail
& Parameters

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
	8/4/04	1610						
1. Received By	**Date**	**Time**	**2. Received By**	**Date**	**Time**	**3. Received For Lab By**	**Date**	**Time**
						Lee Parker	8/5/04	9:05

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Chain of Custody Record

COC No. 100627

Page 2 of 2

For Lab Use Only

Cart: 5

VOA Rack/Tray:

Receipt Log No.: 11-9

Project Chemist:

Laboratory Project No.:

Client Name: North Jackson

Address:

Phone:

Fax:

Project Name: EAGLE

Client Project No. / P.O. No.:

Invoice To: ☐ Client ☒ Other (comments) KEK

Contact/Report To: PJS

Analyses Requested

3	6	4	11							
	15									

⇦ PRESERVATIVES

A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List) A	B	C	D	Total	Sample Comments
				Number of Containers Submitted												
06WS		367111	1	STRMS023	TM0871	8/4/04	1400		X	Water	2	2	1	3		EAG-100125
↓	1	367112	2	DUPS002	↓	8/4/04					2	2	1	3		EAG-100136
			3													
			4													
			5													
			6													
			7													
			8													
			9													
			10													

Sampled By (print): Peter Sabee

Sampler's Signature: P Sabee

Company:

How Shipped? Hand Carrier FedEx Exp

Tracking No.:

Comments:

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
P Sabee	8/4/04	1610						
1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
						Li Pakes	8/5/04	9:05

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Chain of Custody Record

COC No. 101576

Page 1 of 1

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Cart: 2
VOA Rack/Tray: N/A
Receipt Log No.: 13-4
Project Chemist:
Laboratory Project No.: 36162.16

Client Name: North Jackson Co.
Address: PO Box 30
Negaunee, MI 49866
Phone: 906-475-9865
Fax: 906-475-0238

Project Name: Eagle
Client Project No. / P.O. No.:
Invoice To: ☐ Client ☒ Other (comments)
Contact/Report To: Dan Whitala

Analyses Requested

Check analyses by phone

Container Type (corresponds to Container Packing List): A 1000 mL, B 500 mL, C 500 mL, D 500 mL

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	A	B	C	D	3	4	6	15	11	Total	Sample Comments
				Number of Containers Submitted																	
06	WS	367203	1	STRES001	1 of 1	8/5/04	14:30		X	H_2O	2	2	1	3		2	1	1	1	3	8	EAG-1001129
		367204	2	STRMS004	1 of 1	8/5/04	10:40		X	H_2O	2	2	1	3		2	1	1	1	3	8	EAG-1001126
		367205	3	STRES002	1 of 1	8/5/04	10:20		X	H_2O	2	2	1	3		2	1	1	1	3	8	EAG-1001130
		367206	4	STRWS001	1 of 1	8/5/04	12:30		X	H_2O	2	2	1	3		2	1	1	1	3	8	EAG-1001128
44	WS WG	367207	5	STRMS001	1 of 1	8/5/04	14:30		X	H_2O		(1) H15							1		1	EAG-1001123
			6																		
			7																		
			8																		
			9																		
			10																		

Sampled By (print): Pete Kero
Sampler's Signature: Pete Kero
Company: North Jackson Co.

How Shipped? Hand Carrier FedEx
Tracking No.

Comments: T - metal
Bl/C - Alk, Cl, NH_3, NO_3, NO_2, Silica
O - metal
pH, TDS, TSS, T-Alk, COD, TOC, BOD, Color, Turb.

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
Pete Kero	8/5/04	18:00						
1. Received By	**Date**	**Time**	**2. Received By**	**Date**	**Time**	**3. Received For Lab By**	**Date**	**Time**
						SH	8-6-04	8:45

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36162-16

JM0946 Cart 2

Brooks Rand LLC Chain Of Custody Record

Page 1 of 1

Client: NJC	Email address: peter@northjackson.com	Ship to: **Brooks Rand LLC**
Contact: PJS	PO #:	3958 6th Avenue NW
Address: P.O. Box 30 Negaunee MI	Sampler's signatures:	Seattle, WA 98107
		Phone: 206-632-6206
	Fax COC for receipt confirmation? (Y / N)	Fax: 206-632-6017
Phone #: 906 475 7882	Client project ID: EAGLE	Email: brl@brooksrand.com
Fax #:	BRL project ID: NJC604	www.brooksrand.com

For BRL use only	Cooler temp (°C):	Custody seals present? (Y / N)	Custody seals intact? (Y / N)	Date:	Initials:

	Sample ID	Collection: Date	Collection: Time	Miscellaneous: Sampler (initials)	Miscellaneous: Matrix type	Miscellaneous: # of containers	Miscellaneous: Sample field filtered, Y/N	Field Preservation: Unpreserved or ice only	Field Preservation: HNO_3	Field Preservation: HCl	Field Preservation: BrCl	Field Preservation: Other (specify)	Analyses required	Comments
1	GDRMS002	8/3	1030	PJS	Water	6	N	X		X	366904		X	Metals bottles to follow tomorrow
2	STRMS002		1530								366905			
3	CDRAS002		1300								366906			
4	CDRMS004		1430								366907			
5	DUPS001		—								366908			
6	DUPS003		—								366909			
7														
8														
9														
10														

Shipping carrier: Fed Exp # of coolers: 1

Relinquished by:	Date: 8/3/04 Time: 1630	Received by:	Date: 8/4/04 Time: 8:45
Relinquished by:	Date: Time:	Received at BRL:	Date: Time:

White: LAB COPY **Yellow: CUSTOMER COPY**

9-6

September 2, 2004

North Jackson Company
Attn: Mr. Peter Sabee
420 Rail Street
Negaunee, MI 49866

RE: Eagle
Submittal Number: 36162-17

Dear Mr. Peter Sabee:

Enclosed is a copy of your laboratory report for test samples received by our laboratory on August 20, 2004.

Please note that the test results of the enclosed analyses relate only to the sample(s) as received at the laboratory, and are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC) standards. Qualification of test standards, including sample acceptance requirements, are presented within the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosure(s)

The total number of pages in this report, including this page, is 69.

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36162- 17

STATEMENT OF DATA QUALIFICATIONS

All analyses have been validated and comply with our Quality Control Program. No qualifications required.

Page 1 - **End of Statement of Data Qualifications**

Note: This document is included as a part of the analytical report for the above referenced project and submittal, and should be retained as a permanent record thereof.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/02/04 @ 17:10
Sampler: D.W. & P.K.
Received: 08/11/04 @ 08:30

Submittal #: **36162-17**
Submittal: August 2004 GW Samples

Sample ID: **04EA054A EAG1001042**
Sample #: **367648**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	80	2.0	mg/L	08/12/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	08/12/04	VAS	310.1/SM 2320 B
Chloride	18	1.0	mg/L	08/13/04	JLB	325.2/4500-CL E
Sulfate	5.6	5.0	mg/L	08/13/04	JLB	EPA-375.4/9038
Fluoride	0.17	0.10	mg/L	08/13/04	VAS	SM 4500 F-C
Residue,Dissolved @ 180*C	124	50	mg/L	08/12/04	INR	160.1/SM 2540 C
Calcium, Dissolved	8.9	0.50	mg/L	08/16/04	JMF	EPA-200.7/6010B
Potassium, Dissolved	2.0	0.50	mg/L	08/16/04	JMF	EPA-200.7/6010B
Magnesium, Dissolved	3.6	0.50	mg/L	08/16/04	JMF	EPA-200.7/6010B
Sodium, Dissolved	24	1.0	mg/L	08/18/04	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	08/16/04	JMF	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Barium, Dissolved	27	20	ug/L	08/18/04	MSG	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Boron, Dissolved	1340	100	ug/L	08/16/04	JMF	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	08/18/04	MSG	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	08/16/04	JMF	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Iron, Dissolved	22	20	ug/L	08/18/04	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	08/16/04	JMF	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	08/16/04	JMF	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	08/18/04	MSG	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	08/18/04	MSG	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	08/18/04	MSG	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	08/24/04	DWJ	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/02/04 @ 20:50
Sampler: D.W. & P.K.
Received: 08/11/04 @ 08:30

Submittal #: **36162-17**
Submittal: August 2004 GW Samples

Sample ID: **04EA054B EAG1001140**
Sample #: **367649**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	<2.0	2.0	mg/L	08/12/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	2.2	2.0	mg/L	08/12/04	VAS	310.1/SM 2320 B
Chloride	26	1.0	mg/L	08/13/04	JLB	325.2/4500-CL E
Sulfate	6.3	5.0	mg/L	08/13/04	JLB	EPA-375.4/9038
Fluoride	0.19	0.10	mg/L	08/13/04	VAS	SM 4500 F-C
Residue,Dissolved @ 180*C	128	50	mg/L	08/12/04	INR	160.1/SM 2540 C
Calcium, Dissolved	34	0.50	mg/L	08/16/04	JMF	EPA-200.7/6010B
Potassium, Dissolved	8.1	0.50	mg/L	08/16/04	JMF	EPA-200.7/6010B
Magnesium, Dissolved	2.5	0.50	mg/L	08/16/04	JMF	EPA-200.7/6010B
Sodium, Dissolved	27	1.0	mg/L	08/18/04	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	08/16/04	JMF	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Barium, Dissolved	60	20	ug/L	08/18/04	MSG	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Boron, Dissolved	1370	100	ug/L	08/16/04	JMF	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	08/18/04	MSG	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	08/16/04	JMF	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	08/18/04	DWJ	EPA-200.7/6010B
Lithium, Dissolved	14	10	ug/L	08/16/04	JMF	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	08/16/04	JMF	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	08/18/04	MSG	EPA-200.8/6020
Nickel, Dissolved	29	25	ug/L	08/18/04	MSG	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	08/18/04	MSG	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	08/24/04	DWJ	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/03/04 @ 15:39
Sampler: D.W. & P.K.
Received: 08/11/04 @ 08:30

Submittal #: **36162-17**
Submittal: August 2004 GW Samples

Sample ID: **04EA054D EAG1001141**
Sample #: **367650**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	72	2.0	mg/L	08/12/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	08/12/04	VAS	310.1/SM 2320 B
Chloride	64	1.0	mg/L	08/13/04	JLB	325.2/4500-CL E
Sulfate	28	5.0	mg/L	08/13/04	JLB	EPA-375.4/9038
Fluoride	0.14	0.10	mg/L	08/13/04	VAS	SM 4500 F-C
Residue,Dissolved @ 180*C	272	50	mg/L	08/12/04	INR	160.1/SM 2540 C
Calcium, Dissolved	25	0.50	mg/L	08/16/04	JMF	EPA-200.7/6010B
Potassium, Dissolved	7.1	0.50	mg/L	08/16/04	JMF	EPA-200.7/6010B
Magnesium, Dissolved	4.1	0.50	mg/L	08/16/04	JMF	EPA-200.7/6010B
Sodium, Dissolved	41	1.0	mg/L	08/18/04	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	08/16/04	JMF	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	08/18/04	MSG	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Boron, Dissolved	2720	100	ug/L	08/16/04	JMF	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	08/18/04	MSG	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	08/16/04	JMF	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Iron, Dissolved	130	20	ug/L	08/18/04	DWJ	EPA-200.7/6010B
Lithium, Dissolved	23	10	ug/L	08/16/04	JMF	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	08/16/04	JMF	EPA-200.7/6010B
Molybdenum, Dissolved	11	10	ug/L	08/18/04	MSG	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	08/18/04	MSG	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Selenium, Dissolved	1.1	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	08/18/04	MSG	EPA-200.8/6020
Zinc, Dissolved	11	10	ug/L	08/24/04	DWJ	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/04/04 @ 19:30
Sampler: D.W. & P.K.
Received: 08/11/04 @ 08:30

Submittal #: **36162-17**
Submittal: August 2004 GW Samples

Sample ID: **04EA054E EAG1001142**
Sample #: **367651**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	<2.0	2.0	mg/L	08/12/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	15	2.0	mg/L	08/12/04	VAS	310.1/SM 2320 B
Chloride	42	1.0	mg/L	08/13/04	JLB	325.2/4500-CL E
Sulfate	12	5.0	mg/L	08/13/04	JLB	EPA-375.4/9038
Fluoride	0.12	0.10	mg/L	08/13/04	VAS	SM 4500 F-C
Residue,Dissolved @ 180*C	210	50	mg/L	08/12/04	INR	160.1/SM 2540 C
Calcium, Dissolved	19	0.50	mg/L	08/16/04	JMF	EPA-200.7/6010B
Potassium, Dissolved	4.3	0.50	mg/L	08/16/04	JMF	EPA-200.7/6010B
Magnesium, Dissolved	3.8	0.50	mg/L	08/16/04	JMF	EPA-200.7/6010B
Sodium, Dissolved	40	1.0	mg/L	08/18/04	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	08/16/04	JMF	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	08/18/04	MSG	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Boron, Dissolved	3910	100	ug/L	08/16/04	JMF	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	08/18/04	MSG	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	08/16/04	JMF	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Iron, Dissolved	61	20	ug/L	08/18/04	DWJ	EPA-200.7/6010B
Lithium, Dissolved	14	10	ug/L	08/16/04	JMF	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	08/16/04	JMF	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	08/18/04	MSG	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	08/18/04	MSG	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	08/18/04	MSG	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	08/18/04	MSG	EPA-200.8/6020
Zinc, Dissolved	12	10	ug/L	08/24/04	DWJ	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/17/04 @ 11:45
Sampler: P. Sabee
Received: 08/18/04 @ 08:45

Submittal #: **36162-17**
Submittal: August 2004 GW Samples

Sample ID: **QALM005A EAG1001170**
Sample #: **368064**
Matrix: Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	4.7	2.0	mg/L	08/20/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	08/20/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	08/30/04	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	08/30/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	08/20/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	08/18/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	08/20/04	INR	160.1/SM 2540 C
Calcium, Dissolved	1.2	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.69	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	08/26/04	DSC	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	08/25/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	08/25/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Iron, Dissolved	350	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	24	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	08/25/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	08/25/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	08/25/04	JMF	EPA-200.8/6020
Zinc, Dissolved	13	10	ug/L	08/25/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/17/04 @ 12:00
Sampler: P. Sabee
Received: 08/18/04 @ 08:45

Submittal #: **36162-17**
Submittal: August 2004 GW Samples

Sample ID: **QALM005D EAG1001171**
Sample #: **368065**
Matrix: Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	96	2.0	mg/L	08/20/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	08/20/04	VAS	310.1/SM 2320 B
Chloride	1.4	1.0	mg/L	08/30/04	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	08/30/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	08/20/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	08/18/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	114	50	mg/L	08/20/04	INR	160.1/SM 2540 C
Calcium, Dissolved	27	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.53	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	2.9	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	1.4	0.50	mg/L	08/26/04	DSC	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	3.1	2.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Barium, Dissolved	28	20	ug/L	08/25/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	08/25/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Iron, Dissolved	710	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	200	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	08/25/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	08/25/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	08/25/04	JMF	EPA-200.8/6020
Zinc, Dissolved	18	10	ug/L	08/25/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/17/04 @ 13:35
Sampler: P. Sabee
Received: 08/18/04 @ 08:45

Submittal #: **36162-17**
Submittal: August 2004 GW Samples

Sample ID: **QALM004A EAG1001168**
Sample #: **368066**
Matrix: Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	44	2.0	mg/L	08/20/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	08/20/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	08/30/04	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	08/30/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	08/20/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	0.21	0.05	mg/L	08/18/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	72	50	mg/L	08/20/04	INR	160.1/SM 2540 C
Calcium, Dissolved	14	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	2.3	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	0.66	0.50	mg/L	08/26/04	DSC	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	08/25/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	08/25/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	08/25/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	08/25/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	08/25/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	08/25/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/17/04 @ 13:40
Sampler: P. Sabee
Received: 08/18/04 @ 08:45

Submittal #: **36162-17**
Submittal: August 2004 GW Samples

Sample ID: **QALM004D EAG1001169**
Sample #: **368067**
Matrix: Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	97	2.0	mg/L	08/20/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	08/20/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	08/30/04	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	08/30/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	08/20/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	08/18/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	104	50	mg/L	08/20/04	INR	160.1/SM 2540 C
Calcium, Dissolved	23	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.81	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	3.0	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	2.0	0.50	mg/L	08/26/04	DSC	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	8.5	2.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	08/25/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	08/25/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Iron, Dissolved	100	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	53	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	08/25/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	08/25/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	08/25/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	08/25/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/17/04 @ 14:35
Sampler: P. Sabee
Received: 08/18/04 @ 08:45

Submittal #: **36162-17**
Submittal: August 2004 GW Samples

Sample ID: **QALM006A EAG1001172**
Sample #: **368068**
Matrix: Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	<2.0	2.0	mg/L	08/20/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	08/20/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	08/30/04	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	08/30/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	08/20/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	0.15	0.05	mg/L	08/18/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	08/20/04	INR	160.1/SM 2540 C
Calcium, Dissolved	0.86	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	0.62	0.50	mg/L	08/26/04	DSC	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	08/25/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	08/25/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	08/25/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	08/25/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	08/25/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	08/25/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/17/04 @ 014020
Sampler: P. Sabee
Received: 08/18/04 @ 08:45

Submittal #: **36162-17**
Submittal: August 2004 GW Samples

Sample ID: **QAL006B EAG1001173**
Sample #: **368069**
Matrix: Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	109	2.0	mg/L	08/20/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	08/20/04	VAS	310.1/SM 2320 B
Chloride	2.1	1.0	mg/L	08/30/04	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	08/30/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	08/20/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	08/18/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	144	50	mg/L	08/20/04	INR	160.1/SM 2540 C
Calcium, Dissolved	17	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.67	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	5.1	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	2.1	0.50	mg/L	08/26/04	DSC	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	08/25/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	08/25/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Iron, Dissolved	15100	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	140	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	08/25/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	08/25/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	08/25/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	08/25/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/17/04 @ 00:00
Sampler: P. Sabee
Received: 08/18/04 @ 08:45

Submittal #: **36162-17**
Submittal: August 2004 GW Samples

Sample ID: **DUPM001 EAG1001178**
Sample #: **368070**
Matrix: Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	42	2.0	mg/L	08/20/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	08/20/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	08/30/04	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	08/30/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	08/20/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	0.21	0.05	mg/L	08/18/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	74	50	mg/L	08/20/04	INR	160.1/SM 2540 C
Calcium, Dissolved	13	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	2.3	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	0.69	0.50	mg/L	08/26/04	DSC	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	08/25/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	08/25/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	08/25/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	08/25/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	08/25/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	08/25/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/17/04 @ 00:00
Sampler: P. Sabee
Received: 08/18/04 @ 08:45

Submittal #: **36162-17**
Submittal: August 2004 GW Samples

Sample ID: **DUPM002 EAG1001179**
Sample #: **368071**
Matrix: Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	96	2.0	mg/L	08/20/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	08/20/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	08/30/04	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	08/30/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	08/20/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	08/18/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	134	50	mg/L	08/20/04	INR	160.1/SM 2540 C
Calcium, Dissolved	26	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.51	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	2.7	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	1.2	0.50	mg/L	08/26/04	DSC	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	2.9	2.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Barium, Dissolved	26	20	ug/L	08/25/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	08/25/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Iron, Dissolved	680	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	180	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	08/25/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	08/25/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	08/25/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	08/25/04	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/18/04 @ 12:30
Sampler: P.S. & D.W.
Received: 08/19/04 @ 09:00

Submittal #: **36162-17**
Submittal: August 2004 GW Samples

Sample ID: **QALM003A EAG1001166**
Sample #: **368251**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	58	2.0	mg/L	08/20/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	08/20/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	08/30/04	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	08/30/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	08/20/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	3.8	0.20	mg/L	08/19/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	112	50	mg/L	08/20/04	INR	160.1/SM 2540 C
Calcium, Dissolved	18	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	5.2	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	1.2	0.50	mg/L	08/26/04	DSC	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	08/25/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	08/25/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	08/25/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	08/25/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	08/25/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	08/25/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/18/04 @ 12:15
Sampler: P.S. & D.W.
Received: 08/19/04 @ 09:00

Submittal #: **36162-17**
Submittal: August 2004 GW Samples

Sample ID: **QALM003B EAG1001167**
Sample #: **368252**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	92	2.0	mg/L	08/20/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	08/20/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	08/30/04	JLB	325.2/4500-CL E
Sulfate	6.1	5.0	mg/L	08/30/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	08/20/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	08/19/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	118	50	mg/L	08/20/04	INR	160.1/SM 2540 C
Calcium, Dissolved	20	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	1.1	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	5.6	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	2.0	0.50	mg/L	08/26/04	DSC	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	4.2	2.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	08/25/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	08/25/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Iron, Dissolved	28	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	08/25/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	08/25/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	08/25/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	08/25/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/18/04 @ 12:00
Sampler: P.S. & D.W.
Received: 08/19/04 @ 09:00

Submittal #: **36162-17**
Submittal: August 2004 GW Samples

Sample ID: **WLDP006 EAG1001144**
Sample #: **368253**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	13	2.0	mg/L	08/20/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	08/20/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	08/30/04	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	08/30/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	08/20/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	08/19/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	70	50	mg/L	08/20/04	INR	160.1/SM 2540 C
Calcium, Dissolved	<0.50	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	08/26/04	DSC	EPA-200.7/6010B
Aluminum, Dissolved	330	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	08/25/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	08/25/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Iron, Dissolved	9540	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	08/25/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	08/25/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	08/25/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	08/25/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/18/04 @ 14:05
Sampler: P.S. & D.W.
Received: 08/19/04 @ 09:00

Submittal #: **36162-17**
Submittal: August 2004 GW Samples

Sample ID: **QALP020 EAG1001177**
Sample #: **368254**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	12	2.0	mg/L	08/20/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	08/20/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	08/30/04	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	08/30/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	08/20/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	08/19/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	52	50	mg/L	08/20/04	INR	160.1/SM 2540 C
Calcium, Dissolved	3.7	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	1.2	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	0.82	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	0.63	0.50	mg/L	08/26/04	DSC	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	08/25/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	08/25/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	09/01/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Iron, Dissolved	110	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	21	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	08/25/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	08/25/04	JMF	EPA-200.8/6020
Lead, Dissolved	<10	10	ug/L	08/25/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	08/25/04	JMF	EPA-200.8/6020
Zinc, Dissolved	10	10	ug/L	08/25/04	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/19/04 @ 10:25
Sampler: P.S. & D.W.
Received: 08/20/04 @ 08:40

Submittal #: **36162-17**
Submittal: August 2004 GW Samples

Sample ID: **WLDP001 EAG1001143**
Sample #: **368315**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	94	2.0	mg/L	08/26/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	08/26/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	08/30/04	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	08/30/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	08/27/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	08/21/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	104	50	mg/L	08/23/04	INR	160.1/SM 2540 C
Calcium, Dissolved	24	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.85	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	4.7	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	1.0	0.50	mg/L	08/26/04	DSC	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	08/25/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	08/25/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	09/01/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Iron, Dissolved	1090	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	28	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	08/25/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	08/25/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	08/25/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	08/25/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/19/04 @ 13:15
Sampler: P.S. & D.W.
Received: 08/20/04 @ 08:40

Submittal #: **36162-17**
Submittal: August 2004 GW Samples

Sample ID: **WLDP016 EAG1001145**
Sample #: **368316**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	95	2.0	mg/L	08/26/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	08/26/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	08/30/04	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	08/30/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	08/27/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	08/21/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	106	50	mg/L	08/23/04	INR	160.1/SM 2540 C
Calcium, Dissolved	26	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	1.2	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	6.1	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	1.1	0.50	mg/L	08/26/04	DSC	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	08/25/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	08/25/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	09/01/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Iron, Dissolved	55	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	08/25/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	08/25/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	08/25/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	08/25/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/19/04 @ 11:45
Sampler: P.S. & D.W.
Received: 08/20/04 @ 08:40

Submittal #: **36162-17**
Submittal: August 2004 GW Samples

Sample ID: **WLDP021 EAG1001146**
Sample #: **368317**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	19	2.0	mg/L	08/26/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	08/26/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	08/30/04	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	08/30/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	08/27/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	08/21/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	58	50	mg/L	08/23/04	INR	160.1/SM 2540 C
Calcium, Dissolved	4.1	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	0.61	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	0.67	0.50	mg/L	08/26/04	DSC	EPA-200.7/6010B
Aluminum, Dissolved	410	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	4.2	2.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	08/25/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	08/25/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	09/01/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Iron, Dissolved	1490	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	08/25/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	08/25/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	08/25/04	JMF	EPA-200.8/6020
Zinc, Dissolved	94	10	ug/L	08/25/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/19/04 @ 14:40
Sampler: P.S. & D.W.
Received: 08/20/04 @ 08:40

Submittal #: **36162-17**
Submittal: August 2004 GW Samples

Sample ID: **QALM001A EAG1001147**
Sample #: **368318**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	35	2.0	mg/L	08/26/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	08/26/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	08/30/04	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	08/30/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	08/27/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	08/21/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	62	50	mg/L	08/23/04	INR	160.1/SM 2540 C
Calcium, Dissolved	8.9	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.62	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	1.5	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	1.1	0.50	mg/L	08/26/04	DSC	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	08/25/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	08/25/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	09/01/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	08/25/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	08/25/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	08/25/04	JMF	EPA-200.8/6020
Zinc, Dissolved	16	10	ug/L	08/25/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/19/04 @ 11:00
Sampler: P.S. & D.W.
Received: 08/20/04 @ 08:40

Submittal #: **36162-17**
Submittal: August 2004 GW Samples

Sample ID: **QALM002A EAG1001149**
Sample #: **368319**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	32	2.0	mg/L	08/26/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	08/26/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	08/30/04	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	08/30/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	08/27/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	0.16	0.05	mg/L	08/21/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	52	50	mg/L	08/23/04	INR	160.1/SM 2540 C
Calcium, Dissolved	9.0	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	0.97	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	0.54	0.50	mg/L	08/26/04	DSC	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	08/25/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	08/25/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	09/01/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	08/25/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	08/25/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	08/25/04	JMF	EPA-200.8/6020
Zinc, Dissolved	12	10	ug/L	08/25/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/19/04 @ 15:20
Sampler: P.S. & D.W.
Received: 08/20/04 @ 08:40

Submittal #: **36162-17**
Submittal: August 2004 GW Samples

Sample ID: **QALM001D EAG1001148**
Sample #: **368320**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Calcium, Dissolved	11	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.86	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	2.7	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	21	0.50	mg/L	08/26/04	DSC	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	3.7	2.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	08/25/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	08/25/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	09/01/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	20	10	ug/L	08/25/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	08/25/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	08/25/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	08/25/04	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/19/04 @ 11:45
Sampler: P.S. & D.W.
Received: 08/20/04 @ 08:40

Submittal #: **36162-17**
Submittal: August 2004 GW Samples

Sample ID: **Dup-003 EAG1001180**
Sample #: **368321**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	20	2.0	mg/L	08/26/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	08/26/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	08/30/04	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	08/30/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	08/27/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	08/21/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	58	50	mg/L	08/23/04	INR	160.1/SM 2540 C
Calcium, Dissolved	4.1	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	0.63	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	0.68	0.50	mg/L	08/26/04	DSC	EPA-200.7/6010B
Aluminum, Dissolved	430	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	4.4	2.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	08/25/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	08/25/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	09/01/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Iron, Dissolved	1500	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	08/25/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	08/25/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	08/25/04	JMF	EPA-200.8/6020
Zinc, Dissolved	92	10	ug/L	08/25/04	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/19/04 @ 15:30
Sampler: P.S. & D.W.
Received: 08/20/04 @ 08:40

Submittal #: **36162-17**
Submittal: August 2004 GW Samples

Sample ID: **QALP018 EAG1001176**
Sample #: **368322**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	37	2.0	mg/L	08/26/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	08/26/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	08/30/04	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	08/30/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	08/27/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	0.17	0.05	mg/L	08/21/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	98	50	mg/L	08/23/04	INR	160.1/SM 2540 C
Calcium, Dissolved	20	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	3.8	0.50	mg/L	08/25/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	1.1	0.50	mg/L	08/26/04	DSC	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	08/25/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	08/25/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	09/01/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Iron, Dissolved	47	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	08/25/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	08/25/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	08/25/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	08/25/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	08/30/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	08/25/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	08/25/04	JMF	EPA-200.8/6020

End of Analytical Report

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Bicarbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/12/04	220045	VAS	<2.0
08/20/04	220381	VAS	<2.0
08/26/04	220758	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/12/04	220045	VAS	238	240	101	93-105
08/20/04	220381	VAS	238	244	103	93-105
08/26/04	220758	VAS	238	239	100	93-105

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Carbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/12/04	220045	VAS	<2.0
08/20/04	220381	VAS	<2.0
08/26/04	220758	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/12/04	220045	VAS	377	369	98	77-110
08/20/04	220381	VAS	377	327	87	77-110
08/26/04	220758	VAS	377	315	84	77-110

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QUALITY CONTROL REPORT

Parameter: **Aluminum, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/16/04	220161	JMF	<100
08/25/04	220542	KLVM	<100

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/16/04	220161	JMF	2500	2461	98	90-110
08/25/04	220542	KLVM	2500	2477	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/16/04	98218	JMF	<100
08/25/04	98481	KLVM	<100
08/25/04	98483	KLVM	<100

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/16/04	98218	JMF	1250	1288	103	86-120
08/25/04	98481	KLVM	1250	1240	99	86-120
08/25/04	98483	KLVM	1250	1282	103	86-120

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QUALITY CONTROL REPORT

Parameter: **Antimony, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/18/04	220240	MSG	<2.0
08/25/04	220574	JMF	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/04	220240	MSG	40	41.4	104	90-110
08/25/04	220574	JMF	40	41.2	103	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/18/04	98274	MSG	<2.0
08/25/04	98481	JMF	<2.0
08/25/04	98498	JMF	<2.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/04	98274	MSG	25	26.6	106	85-127
08/25/04	98481	JMF	25	27.0	108	85-127
08/25/04	98498	JMF	25	25.1	100	85-127

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/18/04	220240	MSG	<1.0
08/24/04	220480	DWJ	<1.0
08/25/04	220574	JMF	<1.0
08/30/04	220736	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/04	220240	MSG	40	40.9	102	90-110
08/25/04	220574	JMF	40	41.9	105	90-110
08/30/04	220736	JMF	40	41.1	103	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/18/04	98274	MSG	<1.0
08/25/04	98481	JMF	<1.0
08/30/04	98498	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/04	98274	MSG	25	24.5	98	85-115
08/25/04	98481	JMF	25	24.9	100	85-115
08/30/04	98498	JMF	25	23.6	94	85-115

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/16/04	220161	JMF	<10

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/18/04	220240	MSG	<5.0
08/25/04	220574	JMF	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/04	220240	MSG	40	39.5	99	90-110
08/25/04	220574	JMF	40	40.9	102	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/18/04	98274	MSG	<10
08/25/04	98481	JMF	<10
08/25/04	98498	JMF	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/04	98274	MSG	25	25.8	103	86-119
08/25/04	98481	JMF	25	26.4	106	86-119
08/25/04	98498	JMF	25	25.9	104	86-119

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QUALITY CONTROL REPORT

Parameter: **Beryllium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/18/04	220240	MSG	<1.0
08/30/04	220830	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/04	220240	MSG	40	42.8	107	90-110
08/30/04	220830	JMF	40	41.0	103	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/18/04	98274	MSG	<1.0
08/30/04	98481	JMF	<1.0
08/30/04	98498	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/04	98274	MSG	25	25.7	103	76-125
08/30/04	98481	JMF	25	25.4	102	76-125
08/30/04	98498	JMF	25	25.0	100	76-125

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QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/16/04	220161	JMF	<10

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QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/18/04	220240	MSG	<0.2
08/25/04	220574	JMF	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/04	220240	MSG	40	39.6	99	90-110
08/25/04	220574	JMF	40	38.9	97	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/18/04	98274	MSG	<0.2
08/25/04	98481	JMF	<0.2
08/25/04	98498	JMF	<0.2

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/04	98274	MSG	25	24.6	98	82-110
08/25/04	98481	JMF	25	23.8	95	82-110
08/25/04	98498	JMF	25	23.0	92	82-110

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QUALITY CONTROL REPORT

Parameter: **Chloride**
Method: Colorimetric, Automated Ferricyanide 325.2/4500-CL E WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/13/04	220171	JLB	<1.0
08/30/04	220821	JLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/13/04	220171	JLB	78.1	78.6	101	92-109
08/30/04	220821	JLB	78.1	78.4	100	92-109

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QUALITY CONTROL REPORT

Parameter: **Chromium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/16/04	220161	JMF	<50
08/18/04	220239	DWJ	<50

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QUALITY CONTROL REPORT

Parameter: **Chromium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/18/04	220240	MSG	<1.0
08/25/04	220574	JMF	<1.0
09/01/04	220894	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/04	220240	MSG	40	40.8	102	90-110
08/25/04	220574	JMF	40	41.8	105	90-110
09/01/04	220894	JMF	40	41.6	104	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/18/04	98274	MSG	<5.0
08/25/04	98481	JMF	<5.0
09/01/04	98498	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/04	98274	MSG	25	27.8	111	84-122
08/25/04	98481	JMF	25	27.6	110	84-122
09/01/04	98498	JMF	25	24.5	98	84-122

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QUALITY CONTROL REPORT

Parameter: **Cobalt, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/16/04	220161	JMF	<10
08/25/04	220542	KLVM	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/16/04	220161	JMF	500	478	96	90-110
08/25/04	220542	KLVM	500	474	95	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/16/04	98218	JMF	<10
08/25/04	98481	KLVM	<10
08/25/04	98483	KLVM	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/16/04	98218	JMF	250	251	100	84-117
08/25/04	98481	KLVM	250	241	96	84-117
08/25/04	98483	KLVM	250	246	98	84-117

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QUALITY CONTROL REPORT

Parameter: **Cobalt, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/18/04	220240	MSG	<10

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/16/04	220161	JMF	<10

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/18/04	220240	MSG	<1.0
08/24/04	220480	DWJ	<1.0
08/25/04	220574	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/04	220240	MSG	40	39.7	99	90-110
08/25/04	220574	JMF	40	40.4	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/18/04	98274	MSG	<1.0
08/25/04	98481	JMF	<1.0
08/25/04	98498	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/04	98274	MSG	25	25.7	103	86-123
08/25/04	98481	JMF	25	26.4	106	86-123
08/25/04	98498	JMF	25	26.4	106	86-123

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QUALITY CONTROL REPORT

Parameter: **Fluoride**
Method: Potentiometric, Ion Selective Electrode SM 4500 F-C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/13/04	220050	VAS	<0.10
08/20/04	220526	VAS	<0.10
08/27/04	220747	VAS	<0.10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/13/04	220050	VAS	3.43	3.71	108	88-116
08/20/04	220526	VAS	3.43	3.37	98	88-116
08/27/04	220747	VAS	3.43	3.53	103	88-116

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QUALITY CONTROL REPORT

Parameter: **Iron, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/16/04	220161	JMF	<20
08/18/04	220239	DWJ	<20
08/25/04	220542	KLVM	<20

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/04	220239	DWJ	500	493	99	90-110
08/25/04	220542	KLVM	500	496	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/18/04	98218	DWJ	<20
08/25/04	98481	KLVM	<20
08/25/04	98483	KLVM	<20

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/04	98218	DWJ	250	253	101	83-118
08/25/04	98481	KLVM	250	252	101	83-118
08/25/04	98483	KLVM	250	260	104	83-118

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QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/18/04	220239	DWJ	<50

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QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/18/04	220240	MSG	<1.0
08/24/04	220480	DWJ	<1.0
08/25/04	220574	JMF	<1.0
09/01/04	220894	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/04	220240	MSG	40	41.0	103	90-110
08/25/04	220574	JMF	40	40.1	100	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/18/04	98274	MSG	<1.0
08/25/04	98481	JMF	<1.0
08/25/04	98498	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/04	98274	MSG	25	26.8	107	89-119
08/25/04	98481	JMF	25	26.5	106	89-119
08/25/04	98498	JMF	25	24.9	100	89-119

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QUALITY CONTROL REPORT

Parameter: **Lithium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/16/04	220161	JMF	<8
08/25/04	220542	KLVM	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/16/04	220161	JMF	500	489	98	90-110
08/25/04	220542	KLVM	500	480	96	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/16/04	98218	JMF	<10
08/25/04	98481	KLVM	<10
08/25/04	98483	KLVM	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/16/04	98218	JMF	250	253	101	86-115
08/25/04	98481	KLVM	250	244	98	86-115
08/25/04	98483	KLVM	250	254	102	86-115

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QUALITY CONTROL REPORT

Parameter: **Magnesium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/16/04	220161	JMF	<0.50
08/18/04	220239	DWJ	<0.50
08/25/04	220542	KLVM	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/16/04	220161	JMF	5.0	4.97	99	90-110
08/25/04	220542	KLVM	5.0	4.92	98	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/16/04	98218	JMF	<0.50
08/25/04	98481	KLVM	<0.50
08/25/04	98483	KLVM	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/16/04	98218	JMF	12.5	13.1	105	87-115
08/25/04	98481	KLVM	12.5	12.5	100	87-115
08/25/04	98483	KLVM	12.5	13.0	104	87-115

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/16/04	220161	JMF	<10
08/25/04	220542	KLVM	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/16/04	220161	JMF	500	500	100	90-110
08/25/04	220542	KLVM	500	498	100	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/16/04	98218	JMF	<10
08/25/04	98481	KLVM	<10
08/25/04	98483	KLVM	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/16/04	98218	JMF	250	268	107	83-118
08/25/04	98481	KLVM	250	255	102	83-118
08/25/04	98483	KLVM	250	264	106	83-118

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/18/04	220240	MSG	<5.0

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/18/04	220240	MSG	<1.0
08/24/04	220480	DWJ	<1.0
08/25/04	220574	JMF	<1.0
09/01/04	220894	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/04	220240	MSG	40	40.8	102	90-110
08/25/04	220574	JMF	40	42.1	105	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/18/04	98274	MSG	<1.0
08/25/04	98481	JMF	<1.0
08/25/04	98498	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/04	98274	MSG	25	25.4	102	82-124
08/25/04	98481	JMF	25	27.8	111	82-124
08/25/04	98498	JMF	25	26.4	106	82-124

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrate**
Method: Colorimetric, Auto-Cadmium Reduction 353.2/4500 NO3F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/18/04	220392	HLB	<0.05
08/19/04	220493	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/04	220392	HLB	0.624	0.639	102	90-110
08/19/04	220493	HLB	0.624	0.640	103	90-110

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QUALITY CONTROL REPORT

Parameter: **Potassium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/16/04	220161	JMF	<0.10
08/25/04	220542	KLVM	<0.10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/16/04	220161	JMF	5.0	5.30	106	90-110
08/25/04	220542	KLVM	5.0	5.27	105	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/16/04	98218	JMF	<0.50
08/25/04	98481	KLVM	<0.20
08/25/04	98483	KLVM	<0.20

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/16/04	98218	JMF	12.5	13.8	110	87-125
08/25/04	98481	KLVM	12.5	13.9	111	87-125
08/25/04	98483	KLVM	12.5	14.2	114	87-125

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36162- 17

QUALITY CONTROL REPORT

Parameter: **Residue,Dissolved @ 180*C**
Method: Residue-Gravimetric, Dried @ 180*C 160.1/SM 2540 C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/12/04	220142	INR	<2.5
08/20/04	220433	INR	<2.5
08/23/04	220469	INR	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/12/04	220142	INR	1000.0	996	100	90-108
08/12/04	220142	INR	1000.0	1010	101	90-108
08/20/04	220433	INR	1000.0	1010	101	90-108
08/23/04	220469	INR	1000.0	1000	100	90-108

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36162- 17

QUALITY CONTROL REPORT

Parameter: **Selenium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/16/04	220161	JMF	<200

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QUALITY CONTROL REPORT

Parameter: **Selenium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/18/04	220240	MSG	<1.0
08/25/04	220574	JMF	<2.0
08/30/04	220736	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/04	220240	MSG	40	39.9	100	90-110
08/30/04	220736	JMF	40	40.7	102	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/18/04	98274	MSG	<1.0
08/30/04	98481	JMF	<1.0
08/30/04	98498	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/04	98274	MSG	25	23.3	93	79-120
08/30/04	98481	JMF	25	23.1	92	79-120
08/30/04	98498	JMF	25	23.4	94	79-120

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36162- 17

QUALITY CONTROL REPORT

Parameter: **Silver, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/18/04	220239	DWJ	<10

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36162- 17

QUALITY CONTROL REPORT

Parameter: **Silver, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/18/04	220240	MSG	<0.2
08/25/04	220574	JMF	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/04	220240	MSG	40	40.0	100	90-110
08/25/04	220574	JMF	40	42.4	106	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/18/04	98274	MSG	<0.2
08/25/04	98481	JMF	<0.2
08/25/04	98498	JMF	<0.2

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/04	98274	MSG	25	25.8	103	86-114
08/25/04	98481	JMF	25	26.1	104	86-114
08/25/04	98498	JMF	25	25.8	103	86-114

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QUALITY CONTROL REPORT

Parameter: **Sodium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/18/04	220239	DWJ	<0.50
08/25/04	220542	KLVM	<0.50
08/26/04	220634	DSC	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/04	220239	DWJ	5.0	5.06	101	90-110
08/26/04	220634	DSC	5.0	4.97	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/18/04	98218	DWJ	<1.0
08/26/04	98481	DSC	<0.50
08/26/04	98483	DSC	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/18/04	98218	DWJ	12.5	13.3	106	86-117
08/26/04	98481	DSC	12.5	12.4	99	86-117
08/26/04	98483	DSC	12.5	13.1	105	86-117

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QUALITY CONTROL REPORT

Parameter: **Sulfate**
Method: Turbidimetric Method (Manual) EPA-375.4/9038 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/13/04	219987	JLB	<5.0
08/30/04	220820	JLB	<5.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/13/04	219987	JLB	15.8	14.4	91	85-113
08/30/04	220820	JLB	15.8	14.7	93	85-113

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36162- 17

QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/16/04	220161	JMF	<20
08/18/04	220239	DWJ	<20

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QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/18/04	220240	MSG	<4.0
08/24/04	220480	DWJ	<4.0
08/25/04	220574	JMF	<10
09/01/04	220894	JMF	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/24/04	220480	DWJ	40	40.8	102	90-110
08/25/04	220574	JMF	40	41.6	104	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
08/24/04	98440	DWJ	<10
08/25/04	98481	JMF	<10
08/25/04	98498	JMF	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/24/04	98440	DWJ	25	23.4	94	87-124
08/25/04	98481	JMF	25	28.6	114	87-124
08/25/04	98498	JMF	25	26.4	106	87-124

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Phone (616) 975-4500 Fax (616) 942-7463
www.trimatrixlabs.com

Chain of Custody Record

COC No. 101966

Page 1 of 1

For Lab Use Only
Cart: 2
VOA Rack/Tray: NA
Receipt Log No.: 23-11
Project Chemist: DLR
Laboratory Project No.: 36102-NA17

Client Name: North Jackson Co
Address:
Phone: 906.475.7739
Fax: 906.475.0238

Project Name: EAGLE
Client Project No. / P.O. No.:
Invoice To: ☐ Client ☑ Other (comments)
Contact/Report To: Dan Wiitala

Analyses Requested

Container Type (corresponds to Container Packing List): A (1000 mL) | B (250 mL) | B (Field Filtered 60 mL)

Number of Containers Submitted: 3 | 6 | 16

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

	Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix				Total	Sample Comments
1	45	WG	367648	04EA054A EAG-1001142	TM0381	8-2-04	1710		X	wtr	1	1	1	3	See Parameter list attached
2			367649	04EA054B EAG-1001140	TM0381	8-2-04	2050		X	wtr	1	1	1	3	
3			367650	04EA054D EAG-1001141	TM0381	8-3-04	1539		X	wtr	1	1	1	3	
4			367651	04EA054E EAG-1001142	TM0381	8-4-04	1930		X	wtr	1	1	1	3	
5															
6															
7															
8															
9															
10															

Sampled By (print): Dan Wiitala, Petoskey
Sampler's Signature: Dan Wiitala Petoskey
Company: North Jackson Co

How Shipped? Hand Carrier Fed Ex
Tracking No. 7907 2790 8270

1. Relinquished By	Date	Time
Dan Wiitala	8-10-04	1530

1. Received By	Date	Time

2. Relinquished By	Date	Time

2. Received By	Date	Time

3. Relinquished By	Date	Time

3. Received For Lab By	Date	Time
LKP	8-11-04	08:30

Comments: Invoice to Kennecott Minerals Co. Attn: Mr. John Cleary

TriMatrixCOC -- COC

WHITE COPY - REPORT YELLOW COPY - LABORATORY PINK COPY - FIELD

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Chain of Custody Record

COC No. 100807

Page 1 of 1

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Cart: 8
VOA Rack/Tray: VA
Receipt Log No.: 35-7
Project Chemist: JK
Laboratory Project No.: 36162-IN17

Client Name: NJC
Address: P.O. Box 30, Negaunee MI 49866
Phone: 906 475-9739
Fax:

Project Name: EAGLE
Client Project No. / P.O. No.: EAGLE
Invoice To: ☐ Client ☒ Other (comments)
Contact/Report To: Dan

Analyses Requested

Remainder List via E-Mail

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type A	Container Type B	Total	Sample Comments
											Number of Containers Submitted: 3	15		
04	W	368064	1	QALM005A	TM 032C	8-17-04	1145		X	W	3	1		EAG-1001170
		368065	2	QALM005D	TM 032C		1200		X					EAG-1001171
		368066	3	QALM004A	TM 0451		1335		X					EAG-1001168
		368067	4	QALM004D	TM 0451		1340		X					EAG-1001169
		368068	5	QALM006A	TM 0451		1435		X					EAG-1001172
		368069	6	QALM006B	TM 0451		1420		X					EAG-1001173
		368070	7	DUPM001	TM 0451			X						EAG-1001174
		368071	8	DUPM002	TM 032C			X						EAG-1001175
			9											
			10											

Sampled By (print): PSABEE
Sampler's Signature: P Sabee
Company: NJC

How Shipped? Hand Carrier: Fed Ex
Tracking No.:

Comments:

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
P Sabee	8-17-04	1730						
1. Received By	**Date**	**Time**	**2. Received By**	**Date**	**Time**	**3. Received For Lab By**	**Date**	**Time**
						[illegible]	8-18-04	08:45

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Chain of Custody Record

COC No. 100805

Page 1 of 1

For Lab Use Only
Cooler No.
Receipt Log No.
Project Chemist JK
Laboratory Project No. 36162-N07

Client Name: North Jackson Comp.
Address: PO Box 30 420 Rail St
Negaunee MI 49866
Phone: 906 475-9865
Fax:

Project Name: Eagle
Client Project No. / P.O. No.
Invoice To: ☐ Client ☒ Other (comments) KEK
Contact/Report To: Dan Wiitala

Will e-mail Parameters

Analyses Requested

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

	Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List) A	B	Total	Sample Comments
				Number of Containers Submitted										
1	04	WG	368251	QALM003A		8/18/04	1230		X	Wtr	3	1		EAG-100166
2	1	1	368252	QALM003B		↓	1215		↓	↓	↓	↓		EAG-100167
3			368253	WLDP006			1200							EAG-100144
4			368254	QALP020		↓	1405		↓	↓	↓	↓		EAG-100177
5														
6														
7														
8														
9														
10														

Sampled By (print): Peter Sabee Dan Wiitala
Sampler's Signature:
Company:

How Shipped? Hand Carrier Fed Ex
Tracking No.

Comments

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
	8-18-04	1600						
1. Received By	Date	Time	2. Received By	Date	Time	3. Received By	Date	Time
							08/19/04	9:00

TriMatrixCOC -- COC

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Chain of Custody Record

COC No. 100806

Page 1 of 1

For Lab Use Only
Cart: 1
VOA Rack/Tray:
Receipt Log No.: 39-3
Project Chemist: JK
Laboratory Project No.: 36162-17

Client Name: North Jackson
Address: P.O Box 30
Negaunee MI 49866
Phone: 906 475 9882
Fax:

Project Name: EAGLE
Client Project No. / P.O. No.: Stage 2 GW
Invoice To: ☐ Client KEK ☒ Other (comments)
Contact/Report To: DWW

Via E-mail

Analyses Requested

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

	Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List) A	B	Total	Sample Comments
											Number of Containers Submitted			
1	04	W	368315	WLDP001	TM090	8-19-04	1025		X	Wat	3	1		EAG-1001143
2			368316	WLDP016			1315				3	1		EAG-1001145
3			368317	WLDP021			1145				3	1		EAG-1001146
4			368318	QALM001A			1440				3	1		EAG-1001147
5			368319	QALM002A	TM045		1100				3	1		EAG-1001149
6	09		368320	QALM001D	TM090		1520				0	1		EAG-1001148
7	04		368321	DUP003	TM090		1145	X			3	1		EAG-1001180
8			368322	QALP018	TM045		1530		X		3	1		EAG-1001176
9														
10														

Sampled By (print): P Saba D Wintuska
Sampler's Signature: P Saba Dan Gatto
Company: North Jackson Co

How Shipped? Hand Carrier: Fed Ex
Tracking No.:

Comments:

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
P Saba	8-19-04	1650						
1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
						[illegible]	8/20/04	8:40

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September 9, 2004

North Jackson Company
Attn: Mr. Peter Sabee
420 Rail Street
Negaunee, MI 49866

RE: Eagle
Submittal Number: 36162-18

Dear Mr. Peter Sabee:

Enclosed is a copy of your laboratory report for test samples received by our laboratory on August 26, 2004.

Please note that the test results of the enclosed analyses relate only to the sample(s) as received at the laboratory, and are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC) standards. Qualification of test standards, including sample acceptance requirements, are presented within the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosure(s)

The total number of pages in this report, including this page, is 56.

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Carbon, Total Organic**
Organic Carbon, Total
WATER 4151/5310D/9060

Qualification:

The analytical requirements of the method require quadruplicate analysis on every sample submitted for TOC testing. The reporting requirements require both the average and the range of the four analyses be reported. The result reported is the average; the range of the replicates is:

Explanation for Sample(s) listed below:

3.765 - 3.928

Sample(s) Qualified: 368943 STRMS005 EAG1001127

Page 1 - **End of Statement of Data Qualifications**

Note: This document is included as a part of the analytical report for the above referenced project and submittal, and should be retained as a permanent record thereof.

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CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

7.07

Sample(s) Narrated: 368943 STRMS005 EAG1001127

Analysis: **Nickel, Total**
ICP Mass Spectrometry (ICP-MS)
WATER EPA-200.8/6020

Narrative:

The quantitated values of the isotopes monitored for this analyte exceeded a difference of 25%. The lower of the two values has been reported.

Sample(s) Narrated: 368943 STRMS005 EAG1001127

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CASE NARRATIVE

Analysis: **BOD, (5-Day)**
Biochemical Oxygen Demand
WATER SDM 5210B

Narrative:

The reported Biochemical Oxygen Demand result for this sample was calculated on an oxygen depletion of <2.0 mg/l

Sample(s) Narrated: 368943 STRMS005 EAG1001127

Narrative:

The precision result between the sample and its duplicate was out of control when compared to the precision window. Because the amounts found in both analyses were less than five times the reporting limit, no qualifications are necessary.

Sample(s) Narrated: 368943 STRMS005 EAG1001127

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TriMatrix
Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/25/04 @ 16:00
Sampler: P. Kero
Received: 08/26/04 @ 09:10

Submittal #: **36162-18**
Submittal: August 25, 2004 Samples

Sample ID: **FBK001 EAG1001182**
Sample #: **368939**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	<2.0	2.0	mg/L	08/27/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	08/27/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	08/30/04	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	08/30/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	08/27/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	08/27/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	08/27/04	INR	160.1/SM 2540 C

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/25/04 @ 16:15
Sampler: P. Kero
Received: 08/26/04 @ 09:10

Submittal #: **36162-18**
Submittal: August 25, 2004 Samples

Sample ID: **FBK002 EAG1001183**
Sample #: **368940**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	<2.0	2.0	mg/L	08/27/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	08/27/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	08/30/04	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	08/30/04	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	08/27/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	08/27/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	08/27/04	INR	160.1/SM 2540 C

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/25/04 @ 15:00
Sampler: P. Kero
Received: 08/26/04 @ 09:10

Submittal #: **36162-18**
Submittal: August 25, 2004 Samples

Sample ID: **EQB001 EAG1001184**
Sample #: **368941**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Calcium, Dissolved	<0.50	0.50	mg/L	09/01/04	DSC	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	09/07/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	09/01/04	DSC	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	09/07/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	09/01/04	DSC	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	09/02/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	09/03/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	09/02/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	09/03/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	09/07/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	09/02/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	09/03/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	09/01/04	DSC	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	09/03/04	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	09/01/04	DSC	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	09/01/04	DSC	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	09/01/04	DSC	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	09/02/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	09/03/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	09/02/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	09/03/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	09/02/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	09/02/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/25/04 @ 15:10
Sampler: P. Kero
Received: 08/26/04 @ 09:10

Submittal #: **36162-18**
Submittal: August 25, 2004 Samples

Sample ID: **EQB002 EAG1001185**
Sample #: **368942**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Calcium, Dissolved	<0.50	0.50	mg/L	09/01/04	DSC	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	09/07/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	09/01/04	DSC	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	09/07/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	09/01/04	DSC	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	09/02/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	09/03/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	09/02/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	09/03/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	09/07/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	09/02/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	09/03/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	09/01/04	DSC	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	09/03/04	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	09/01/04	DSC	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	09/01/04	DSC	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	09/01/04	DSC	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	09/02/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	09/03/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	09/02/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	09/03/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	09/02/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	09/02/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 08/25/04 @ 08:30
Sampler: P. Kero
Received: 08/26/04 @ 09:10

Submittal #: **36162-18**
Submittal: August 25, 2004 Samples

Sample ID: **STRMS005 EAG1001127**
Sample #: **368943**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	75	2.0	mg/L	08/27/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	08/27/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	08/30/04	JLB	325.2/4500-CL E
Nitrogen, Ammonia	<0.05	0.05	mg/L	08/31/04	GEH	350.1/4500 NH3G
Nitrogen, Nitrate	0.05	0.05	mg/L	08/27/04	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	08/27/04	HLB	354.1/4500 NO2B
Sulfate	<5.0	5.0	mg/L	08/30/04	JLB	EPA-375.4/9038
Residue,Dissolved @ 180*C	81	20	mg/L	08/27/04	INR	160.1/SM 2540 C
Residue, Suspended	<3	3	mg/L	08/27/04	INR	160.2/SM 2540 D
Alkalinity, Total	75	2.0	mg/L	08/27/04	VAS	310.1/SM 2320 B
Chemical Oxygen Demand	8.5	5.0	mg/L	09/01/04	JMJ	410.4/SM 5220 D
* Carbon, Total Organic	3.8	1.0	mg/L	09/01/04	GEH	4151/5310D/9060
BOD, (5-Day)	1.1	1.0	mg/L	08/26/04	JLB	SDM 5210B
Color (Apparent)	15	5	A.C.U.	08/27/04	GEH	USEPA-110.2
Turbidity	<1.0	1.0	NTU	08/26/04	HLB	USEPA-180.1
Iron, Total	180	20	ug/L	09/01/04	DSC	EPA-200.7/6010B
Arsenic, Total	<1.0	1.0	ug/L	09/03/04	JMF	EPA-200.8/6020
Barium, Total	14	10	ug/L	09/03/04	JMF	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	09/03/04	JMF	EPA-200.8/6020
Manganese, Total	13	10	ug/L	09/03/04	JMF	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	09/03/04	JMF	EPA-200.8/6020
Calcium, Dissolved	20	0.50	mg/L	09/01/04	DSC	EPA-200.7/6010B
Potassium, Dissolved	0.65	0.50	mg/L	09/07/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	4.0	0.50	mg/L	09/01/04	DSC	EPA-200.7/6010B
Sodium, Dissolved	0.89	0.50	mg/L	09/07/04	KLVM	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

End of Analytical Report

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36162- 18

QUALITY CONTROL REPORT

Parameter: **Alkalinity, Bicarbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/27/04	220968	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/27/04	220968	VAS	238	250	105	93-105

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Carbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/27/04	220968	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/27/04	220968	VAS	377	324	86	77-110

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36162- 18

QUALITY CONTROL REPORT

Parameter: **Alkalinity, Total**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/27/04	220968	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/27/04	220968	VAS	238	250	105	92-105

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QUALITY CONTROL REPORT

Parameter: **Aluminum, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/01/04	220939	DSC	<100

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/01/04	220939	DSC	2500	2615	105	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
09/01/04	98724	DSC	<100

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/01/04	98724	DSC	1250	1266	101	86-120

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QUALITY CONTROL REPORT

Parameter: **Antimony, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/02/04	221019	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/02/04	221019	JMF	40	40.8	102	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
09/02/04	98767	JMF	<2.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/02/04	98767	JMF	25	26.2	105	85-127

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/07/04	221106	KLVM	<200

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/03/04	221033	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/03/04	221033	JMF	40	42.8	107	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
09/03/04	98723	JMF	<1.0
09/03/04	98767	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/03/04	98723	JMF	25	24.9	100	85-115
09/03/04	98767	JMF	25	25.6	102	85-115

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/01/04	220939	DSC	<10
09/07/04	221106	KLVM	<10

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/02/04	221019	JMF	<10
09/03/04	221033	JMF	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/02/04	221019	JMF	40	41.3	103	90-110
09/03/04	221033	JMF	40	40.3	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
09/02/04	98767	JMF	<10
09/03/04	98723	JMF	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/02/04	98767	JMF	25	24.6	98	86-119
09/03/04	98723	JMF	25	25.9	104	86-119

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QUALITY CONTROL REPORT

Parameter: **Beryllium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/02/04	221019	JMF	<1.0
09/03/04	221033	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/03/04	221033	JMF	40	41.5	104	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
09/03/04	98767	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/03/04	98767	JMF	25	25.7	103	76-125

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QUALITY CONTROL REPORT

Parameter: **BOD, (5-Day)**
Method: Biochemical Oxygen Demand SDM 5210B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/26/04	221014	JLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/26/04	221014	JLB	198	207	105	85-115

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QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/01/04	220939	DSC	<10

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QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/02/04	221019	JMF	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/02/04	221019	JMF	40	39.9	100	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
09/02/04	98767	JMF	<0.2

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/02/04	98767	JMF	25	24.0	96	82-110

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QUALITY CONTROL REPORT

Parameter: **Carbon, Total Organic**
Method: Organic Carbon, Total 4151/5310D/9060 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/31/04	220969	GEH	<0.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/31/04	220969	GEH	25	24	96	90-110

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QUALITY CONTROL REPORT

Parameter: **Chemical Oxygen Demand**
Method: Closed Reflux, Colorimetric Method 410.4/SM 5220 D WATER
Units: mg/L

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
09/01/04	98684	JMJ	<5.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/01/04	98684	JMJ	30	30	100	90-110

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QUALITY CONTROL REPORT

Parameter: **Chloride**
Method: Colorimetric, Automated Ferricyanide 325.2/4500-CL E WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/30/04	220821	JLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/30/04	220821	JLB	78.1	78.4	100	92-109

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QUALITY CONTROL REPORT

Parameter: **Chromium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/01/04	220939	DSC	<50

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QUALITY CONTROL REPORT

Parameter: **Chromium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/03/04	221033	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/03/04	221033	JMF	40	42.6	107	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
09/03/04	98767	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/03/04	98767	JMF	25	25.3	101	84-122

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QUALITY CONTROL REPORT

Parameter: **Cobalt, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/01/04	220939	DSC	<10
09/07/04	221106	KLVM	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/01/04	220939	DSC	500	517	103	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
09/01/04	98724	DSC	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/01/04	98724	DSC	250	250	100	84-117

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QUALITY CONTROL REPORT

Parameter: **Color (Apparent)**
Method: Colorimetric, Platinum-Cobalt USEPA-110.2 WATER
Units: A.C.U.

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/27/04	220761	GEH	<5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/27/04	220761	GEH	25	25	100	80-120

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/01/04	220939	DSC	<10
09/07/04	221106	KLVM	<10

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/02/04	221019	JMF	<1.0
09/03/04	221033	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/03/04	221033	JMF	40	42.3	106	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
09/02/04	98767	JMF	<1.0
09/03/04	98723	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/02/04	98767	JMF	25	27.5	110	86-123
09/03/04	98723	JMF	25	26.7	107	86-123

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QUALITY CONTROL REPORT

Parameter: **Fluoride**
Method: Potentiometric, Ion Selective Electrode SM 4500 F-C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/27/04	220747	VAS	<0.10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/27/04	220747	VAS	3.43	3.53	103	88-116

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QUALITY CONTROL REPORT

Parameter: **Iron, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/01/04	220939	DSC	<10
09/07/04	221106	KLVM	<100

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/01/04	220939	DSC	500	506	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
09/01/04	98720	DSC	<10
09/01/04	98724	DSC	<20

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/01/04	98720	DSC	250	268	107	83-118
09/01/04	98724	DSC	250	252	101	83-118

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QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/01/04	220939	DSC	<50
09/07/04	221106	KLVM	<50

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QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/02/04	221019	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/02/04	221019	JMF	40	39.8	100	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
09/02/04	98767	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/02/04	98767	JMF	25	25.2	101	89-119

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QUALITY CONTROL REPORT

Parameter: **Lithium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/01/04	220939	DSC	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/01/04	220939	DSC	500	528	106	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
09/01/04	98724	DSC	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/01/04	98724	DSC	250	252	101	86-115

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QUALITY CONTROL REPORT

Parameter: **Magnesium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/01/04	220939	DSC	<0.50
09/07/04	221106	KLVM	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/01/04	220939	DSC	5.0	5.21	104	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
09/01/04	98724	DSC	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/01/04	98724	DSC	12.5	12.8	102	87-115

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/01/04	220939	DSC	<10
09/07/04	221106	KLVM	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/01/04	220939	DSC	500	518	104	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
09/01/04	98724	DSC	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/01/04	98724	DSC	250	257	103	83-118

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/03/04	221033	JMF	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/03/04	221033	JMF	40	41.5	104	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
09/03/04	98723	JMF	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/03/04	98723	JMF	25	27.2	109	84-126

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/03/04	221033	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/03/04	221033	JMF	40	42.8	107	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
09/03/04	98723	JMF	<1.0
09/03/04	98767	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/03/04	98723	JMF	25	25.6	102	82-124
09/03/04	98767	JMF	25	26.9	108	82-124

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Ammonia**
Method: Colorimetric, Automated Phenate 350.1/4500 NH3G WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/31/04	220898	GEH	<0.02

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/31/04	220898	GEH	0.765	0.703	92	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrate**
Method: Colorimetric, Auto-Cadmium Reduction 353.2/4500 NO3F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/27/04	220801	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/27/04	220801	HLB	0.624	0.630	101	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrite**
Method: Nitrite - Spectrophotometric 354.1/4500 NO2B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/27/04	220993	HLB	<0.01

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/27/04	220993	HLB	0.25	0.27	108	89-115

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QUALITY CONTROL REPORT

Parameter: **Potassium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/01/04	220939	DSC	<0.10
09/07/04	221106	KLVM	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/07/04	221106	KLVM	5.0	5.18	104	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
09/01/04	98724	DSC	<0.10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/01/04	98724	DSC	12.5	13.1	105	87-125

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QUALITY CONTROL REPORT

Parameter: **Residue,Dissolved @ 180*C**
Method: Residue-Gravimetric, Dried @ 180*C 160.1/SM 2540 C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/27/04	220966	INR	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/27/04	220966	INR	1000.0	1004	100	90-108

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QUALITY CONTROL REPORT

Parameter: **Residue, Suspended**
Method: Residue-Gravimetric, Dried @ 103-105*C 160.2/SM 2540 D WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/27/04	220798	INR	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/27/04	220798	INR	1000.0	968	97	89-106
08/27/04	220798	INR	1000.0	985	99	89-106
08/27/04	220798	INR	1000.0	986	99	89-106

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QUALITY CONTROL REPORT

Parameter: **Selenium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/07/04	221106	KLVM	<100

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QUALITY CONTROL REPORT

Parameter: **Selenium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/03/04	221033	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/03/04	221033	JMF	40	41.9	105	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
09/03/04	98767	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/03/04	98767	JMF	25	23.6	94	79-120

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QUALITY CONTROL REPORT

Parameter: **Silver, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/01/04	220939	DSC	<10

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QUALITY CONTROL REPORT

Parameter: **Silver, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/02/04	221019	JMF	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/02/04	221019	JMF	40	40.5	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
09/02/04	98767	JMF	<0.2

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/02/04	98767	JMF	25	25.3	101	86-114

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QUALITY CONTROL REPORT

Parameter: **Sodium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/01/04	220939	DSC	<0.50
09/07/04	221106	KLVM	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/07/04	221106	KLVM	5.0	5.02	100	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
09/01/04	98724	DSC	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/01/04	98724	DSC	12.5	12.9	103	86-117

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36162- 18

QUALITY CONTROL REPORT

Parameter: **Sulfate**
Method: Turbidimetric Method (Manual) EPA-375.4/9038 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/30/04	220820	JLB	<5.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/30/04	220820	JLB	15.8	14.7	93	85-113

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QUALITY CONTROL REPORT

Parameter: **Turbidity**
Method: Nephelometric USEPA-180.1 WATER
Units: NTU

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
08/26/04	220994	HLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
08/26/04	220994	HLB	402	392	98	90-110

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36162- 18

QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/01/04	220939	DSC	<20
09/07/04	221106	KLVM	<20

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QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/02/04	221019	JMF	<4.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/02/04	221019	JMF	40	40.9	102	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
09/02/04	98767	JMF	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/02/04	98767	JMF	25	26.4	106	87-124

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www.trimatrixlabs.com

Chain of Custody Record

COC No. 101968

Page 1 of 1

For Lab Use Only
Cart: BF B 6
VOA Rack/Tray: NA
Receipt Log No.: 44-4
Project Chemist: JLT
Laboratory Project No.: 36162 - FB

Client Name: North Jackson Co
Address: 420 Rail Street
Negaunee MI 49866
Phone: 906.475.7865
Fax: 906.475.0238

Project Name: EAGLE
Client Project No. / P.O. No.:
Invoice To: ☐ Client ☒ Other (comments)
Contact/Report To: Dan Wiitala

Analyses Requested

Please refer to form- cooling, e-mail for analyses requested.

⇦ PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List) 3	4	11	6	15	Total	Sample Comments
				Number of Containers Submitted													
10	WG	368939	1	FBK001 EAG-1001182	1 of 1	8-25-04	16:00		X	H_2O	3					3	Groundwater General chemistry
↓	WG	368940	2	FBK002 EAG-1001183	11	8-25-04	16:15		X	H_2O	3					3	↓
09	WG	368941	3	EQB001 EAG-1001184	11	8-25-04	15:00		X	H_2O					1	1	Groundwater Filtered
↓	WG	368942	4	EQB002 EAG-1001185	11	8-25-04	15:10		X	H_2O					1	1	↓
06	WS	368943	5	STRMS005 EAG-1001127	11	8-25-04	8:30		X	H_2O	3	1	3	1	1	9	Surface water parameters
			6														
			7														
			8														
			9														
			10														

Sampled By (print): Pete Kero
Sampler's Signature: Peter Kero
Company: North Jackson Co.

How Shipped? Hand Carrier FedEx
Tracking No.: 7902 5237 8532

1. Relinquished By	Date	Time
Peter Kero	8/25/04	17:45
1. Received By	Date	Time

Comments: Invoice to Don Cleary, Kennecott Minerals Company

2. Relinquished By	Date	Time
2. Received By	Date	Time

3. Relinquished By	Date	Time
3. Received For Lab By	Date	Time
TF	8-26-04	09:10

TriMatrixCOC -- COC WHITE COPY - REPORT YELLOW COPY - LABORATORY PINK COPY - FIELD

October 11, 2004

North Jackson Company
Attn: Mr. Peter Sabee
420 Rail Street
Negaunee, MI 49866

RE: Eagle
Submittal Number: 36162-19

Dear Mr. Peter Sabee:

Enclosed is a copy of your laboratory report for test samples received by our laboratory on September 22, 2004

Please note that the test results of the enclosed analyses relate only to the sample(s) as received at the laboratory, and are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC) standards. Qualification of test standards, including sample acceptance requirements, are presented within the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosure(s)

The total number of pages in this report, including this page, is 70.

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Carbon, Total Organic**
Organic Carbon, Total
WATER 4151/5310D/9060

Qualification:

The analytical requirements of the method require quadruplicate analysis on every sample submitted for TOC testing. The reporting requirements require both the average and the range of the four analyses be reported. The result reported is the average; the range of the replicates is:

Explanation for Sample(s) listed below:

2.742 - 2.942

Sample(s) Qualified:	370506	CDRMS004	EAG-	1001190

Explanation for Sample(s) listed below:

3.083-3.236

Sample(s) Qualified:	370750	STRES002	EAG-	1001188

Explanation for Sample(s) listed below:

5.280-5.470

Sample(s) Qualified:	370749	STRMS004	EAG-	1001187

Explanation for Sample(s) listed below:

5.406 - 5.613

Sample(s) Qualified:	370507	DUPS001	EAG-	1001191

Note: This document is included as a part of the analytical report for the above referenced project and submittal, and should be retained as a permanent record thereof.

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Carbon, Total Organic**
Organic Carbon, Total
WATER 4151/5310D/9060

Qualification:

The analytical requirements of the method require quadruplicate analysis on every sample submitted for TOC testing. The reporting requirements require both the average and the range of the four analyses be reported. The result reported is the average; the range of the replicates is:

Explanation for Sample(s) listed below:

5.495 - 5.624

Sample(s) Qualified:	370505	STRMS002	EAG-	1001186

Explanation for Sample(s) listed below:

6.119 - 6.241

Sample(s) Qualified:	370504	YDRMS002	EAG-	1001189

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CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

6.31

Sample(s) Narrated:	370504	YDRMS002	EAG-	1001189

Explanation for Sample(s) listed below:

6.86

Sample(s) Narrated:	370505	STRMS002	EAG-	1001186

Explanation for Sample(s) listed below:

7.17

Sample(s) Narrated:	370507	DUPS001	EAG-	1001191

Explanation for Sample(s) listed below:

7.40

Sample(s) Narrated:	370749	STRMS004	EAG-	1001187

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CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

7.57

Sample(s) Narrated:	370506	CDRMS004	EAG-	1001190

Explanation for Sample(s) listed below:

7.94

Sample(s) Narrated:	370750	STRES002	EAG-	1001188

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CASE NARRATIVE

Analysis: **Nickel, Total**
ICP Mass Spectrometry (ICP-MS)
WATER EPA-200.8/6020

Narrative:

The quantitated values of the isotopes monitored for this analyte exceeded a difference of 25%. The lower of the two values has been reported.

Sample(s) Narrated: 370506 CDRMS004 EAG- 1001190

Analysis: **BOD, (5-Day)**
Biochemical Oxygen Demand
WATER SDM 5210B

Narrative:

The reported Biochemical Oxygen Demand result for this sample was calculated on an oxygen depletion of <2.0 mg/l

Sample(s) Narrated: 370749 STRMS004 EAG- 1001187

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 09/09/04 @ 11:40
Sampler: D. Wiitala
Received: 09/10/04 @ 08:40

Submittal #: **36162-19**
Submittal: September 2004 Samples

Sample ID: **QALM001D**
Sample #: **370221**
Matrix: Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	81	2.0	mg/L	09/16/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	09/16/04	VAS	310.1/SM 2320 B
Chloride	1.9	1.0	mg/L	09/13/04	TAM	325.2/4500-CL E
Sulfate	18	5.0	mg/L	09/10/04	TAM	EPA-375.4/9038
Fluoride	0.11	0.10	mg/L	09/17/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	09/10/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	120	50	mg/L	09/14/04	INR	160.1/SM 2540 C

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 09/09/04 @ 13:20
Sampler: D. Wiitala
Received: 09/10/04 @ 08:40

Submittal #: **36162-19**
Submittal: September 2004 Samples

Sample ID: **QALP015**
Sample #: **370222**
Matrix: Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	58	2.0	mg/L	09/16/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	09/16/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	09/13/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	09/10/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	09/17/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	09/10/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	50	50	mg/L	09/14/04	INR	160.1/SM 2540 C
Calcium, Dissolved	19	0.50	mg/L	10/07/04	DSC	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	10/08/04	DSC	EPA-200.7/6010B
Magnesium, Dissolved	3.1	0.50	mg/L	10/05/04	DSC	EPA-200.7/6010B
Sodium, Dissolved	0.60	0.50	mg/L	10/08/04	DSC	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	10/05/04	DSC	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	10/04/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	10/05/04	DSC	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	10/04/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	10/05/04	DSC	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	10/07/04	DSC	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	10/08/04	DSC	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	10/07/04	DSC	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	10/04/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	10/04/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	10/04/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	10/04/04	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 09/09/04 @ 14:15
Sampler: D. Wiitala
Received: 09/10/04 @ 08:40

Submittal #: **36162-19**
Submittal: September 2004 Samples

Sample ID: **QALP016**
Sample #: **370223**
Matrix: Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	64	2.0	mg/L	09/16/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	09/16/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	09/14/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	09/10/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	09/17/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	0.10	0.05	mg/L	09/10/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	60	50	mg/L	09/14/04	INR	160.1/SM 2540 C
Calcium, Dissolved	20	0.50	mg/L	10/07/04	DSC	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	10/08/04	DSC	EPA-200.7/6010B
Magnesium, Dissolved	3.3	0.50	mg/L	10/05/04	DSC	EPA-200.7/6010B
Sodium, Dissolved	0.63	0.50	mg/L	10/08/04	DSC	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	10/05/04	DSC	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	10/04/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	10/05/04	DSC	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	10/04/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	10/05/04	DSC	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	10/07/04	DSC	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	10/08/04	DSC	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	10/07/04	DSC	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	10/04/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	10/04/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	10/04/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	10/04/04	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 09/09/04 @ 00:00
Sampler: D. Wiitala
Received: 09/10/04 @ 08:40

Submittal #: **36162-19**
Submittal: September 2004 Samples

Sample ID: **DUPP003**
Sample #: **370224**
Matrix: Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	63	2.0	mg/L	09/16/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	09/16/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	09/14/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	09/10/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	09/17/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	0.10	0.05	mg/L	09/10/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	64	50	mg/L	09/14/04	INR	160.1/SM 2540 C
Calcium, Dissolved	20	0.50	mg/L	10/07/04	DSC	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	10/08/04	DSC	EPA-200.7/6010B
Magnesium, Dissolved	3.2	0.50	mg/L	10/05/04	DSC	EPA-200.7/6010B
Sodium, Dissolved	0.59	0.50	mg/L	10/08/04	DSC	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	10/05/04	DSC	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	10/04/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	10/05/04	DSC	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	10/04/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	10/05/04	DSC	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	10/07/04	DSC	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	10/08/04	DSC	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	10/07/04	DSC	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	10/04/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	10/04/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	10/04/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	10/04/04	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 09/14/04 @ 10:30
Sampler: P. Sabee
Received: 09/15/04 @ 09:20

Submittal #: **36162-19**
Submittal: September 2004 Samples

Sample ID: **YDRMS002 EAG- 1001189**
Sample #: **370504**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	38	2.0	mg/L	09/16/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	09/16/04	VAS	310.1/SM 2320 B
	Chloride	1.3	1.0	mg/L	09/16/04	TAM	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	09/16/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	09/16/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	09/16/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	09/16/04	TAM	EPA-375.4/9038
	Residue,Dissolved @ 180*C	75	20	mg/L	09/17/04	INR	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	09/17/04	INR	160.2/SM 2540 D
	Alkalinity, Total	38	2.0	mg/L	09/16/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	16	5.0	mg/L	09/16/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	6.2	1.0	mg/L	09/15/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	09/16/04	JLB	SDM 5210B
	Color (Apparent)	75	25	A.C.U.	09/15/04	GEH	USEPA-110.2
	Turbidity	3.5	1.0	NTU	09/15/04	HLB	USEPA-180.1
	Iron, Total	1200	20	ug/L	09/23/04	DSC	EPA-200.7/6010B
	Arsenic, Total	1.1	1.0	ug/L	09/23/04	DWJ	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	09/23/04	DWJ	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	09/23/04	DWJ	EPA-200.8/6020
	Manganese, Total	21	10	ug/L	09/23/04	DWJ	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	09/23/04	DWJ	EPA-200.8/6020
	Calcium, Dissolved	13	0.50	mg/L	10/07/04	DSC	EPA-200.7/6010B
	Potassium, Dissolved	0.52	0.50	mg/L	10/08/04	DSC	EPA-200.7/6010B
	Magnesium, Dissolved	2.9	0.50	mg/L	10/05/04	DSC	EPA-200.7/6010B
	Sodium, Dissolved	0.91	0.50	mg/L	10/08/04	DSC	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 09/14/04 @ 11:00
Sampler: P. Sabee
Received: 09/15/04 @ 09:20

Submittal #: **36162-19**
Submittal: September 2004 Samples

Sample ID: **STRMS002 EAG- 1001186**
Sample #: **370505**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	34	2.0	mg/L	09/16/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	09/16/04	VAS	310.1/SM 2320 B
	Chloride	1.0	1.0	mg/L	09/16/04	TAM	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	09/16/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	09/16/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	09/16/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	09/16/04	TAM	EPA-375.4/9038
	Residue,Dissolved @ 180*C	58	20	mg/L	09/17/04	INR	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	09/17/04	INR	160.2/SM 2540 D
	Alkalinity, Total	34	2.0	mg/L	09/16/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	15	5.0	mg/L	09/16/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	5.6	1.0	mg/L	09/15/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	09/16/04	JLB	SDM 5210B
	Color (Apparent)	50	5	A.C.U.	09/15/04	GEH	USEPA-110.2
	Turbidity	2.0	1.0	NTU	09/15/04	HLB	USEPA-180.1
	Iron, Total	400	20	ug/L	09/23/04	DSC	EPA-200.7/6010B
	Arsenic, Total	<1.0	1.0	ug/L	09/23/04	DWJ	EPA-200.8/6020
	Barium, Total	12	10	ug/L	09/23/04	DWJ	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	09/23/04	DWJ	EPA-200.8/6020
	Manganese, Total	18	10	ug/L	09/23/04	DWJ	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	09/23/04	DWJ	EPA-200.8/6020
	Calcium, Dissolved	10	0.50	mg/L	10/07/04	DSC	EPA-200.7/6010B
	Potassium, Dissolved	<0.50	0.50	mg/L	10/08/04	DSC	EPA-200.7/6010B
	Magnesium, Dissolved	2.2	0.50	mg/L	10/05/04	DSC	EPA-200.7/6010B
	Sodium, Dissolved	1.0	0.50	mg/L	10/08/04	DSC	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 09/14/04 @ 13:30
Sampler: P. Sabee
Received: 09/15/04 @ 09:20

Submittal #: **36162-19**
Submittal: September 2004 Samples

Sample ID: **CDRMS004 EAG- 1001190**
Sample #: **370506**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	69	2.0	mg/L	09/16/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	09/16/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	09/16/04	TAM	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	09/16/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	09/16/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	09/16/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	09/16/04	TAM	EPA-375.4/9038
	Residue,Dissolved @ 180*C	96	20	mg/L	09/17/04	INR	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	09/17/04	INR	160.2/SM 2540 D
	Alkalinity, Total	69	2.0	mg/L	09/16/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	19	5.0	mg/L	09/16/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	2.8	1.0	mg/L	09/16/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	09/16/04	JLB	SDM 5210B
	Color (Apparent)	20	5	A.C.U.	09/15/04	GEH	USEPA-110.2
	Turbidity	1.1	1.0	NTU	09/15/04	HLB	USEPA-180.1
	Iron, Total	140	20	ug/L	09/23/04	DSC	EPA-200.7/6010B
	Arsenic, Total	2.3	1.0	ug/L	09/23/04	DWJ	EPA-200.8/6020
	Barium, Total	15	10	ug/L	09/23/04	DWJ	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	09/23/04	DWJ	EPA-200.8/6020
	Manganese, Total	11	10	ug/L	09/23/04	DWJ	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	09/23/04	DWJ	EPA-200.8/6020
	Calcium, Dissolved	24	0.50	mg/L	10/07/04	DSC	EPA-200.7/6010B
	Potassium, Dissolved	0.59	0.50	mg/L	10/08/04	DSC	EPA-200.7/6010B
	Magnesium, Dissolved	4.0	0.50	mg/L	10/05/04	DSC	EPA-200.7/6010B
	Sodium, Dissolved	1.2	0.50	mg/L	10/08/04	DSC	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 09/14/04 @ 00:00
Sampler: P. Sabee
Received: 09/15/04 @ 09:20

Submittal #: **36162-19**
Submittal: September 2004 Samples

Sample ID: **DUPS001 EAG- 1001191**
Sample #: **370507**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	35	2.0	mg/L	09/16/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	09/16/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	09/16/04	TAM	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	09/16/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	09/16/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	09/16/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	09/16/04	TAM	EPA-375.4/9038
	Residue,Dissolved @ 180*C	60	20	mg/L	09/17/04	INR	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	09/17/04	INR	160.2/SM 2540 D
	Alkalinity, Total	35	2.0	mg/L	09/16/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	16	5.0	mg/L	09/16/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	5.5	1.0	mg/L	09/16/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	09/16/04	JLB	SDM 5210B
	Color (Apparent)	50	5	A.C.U.	09/15/04	GEH	USEPA-110.2
	Turbidity	1.7	1.0	NTU	09/15/04	HLB	USEPA-180.1
	Iron, Total	410	20	ug/L	09/23/04	DSC	EPA-200.7/6010B
	Arsenic, Total	<1.0	1.0	ug/L	09/23/04	DWJ	EPA-200.8/6020
	Barium, Total	11	10	ug/L	09/23/04	DWJ	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	09/23/04	DWJ	EPA-200.8/6020
	Manganese, Total	18	10	ug/L	09/23/04	DWJ	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	09/23/04	DWJ	EPA-200.8/6020
	Calcium, Dissolved	10	0.50	mg/L	10/07/04	DSC	EPA-200.7/6010B
	Potassium, Dissolved	0.54	0.50	mg/L	10/08/04	DSC	EPA-200.7/6010B
	Magnesium, Dissolved	2.1	0.50	mg/L	10/05/04	DSC	EPA-200.7/6010B
	Sodium, Dissolved	0.90	0.50	mg/L	10/08/04	DSC	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 09/15/04 @ 12:45
Sampler: P. Sabee
Received: 09/16/04 @ 08:45

Submittal #: **36162-19**
Submittal: September 2004 Samples

Sample ID: **STRMS004 EAG- 1001187**
Sample #: **370749**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	47	2.0	mg/L	09/23/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	09/23/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	09/20/04	TAM	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	09/22/04	JLB	350.1/4500 NH3G
	Nitrogen, Nitrate	0.08	0.05	mg/L	09/16/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	09/16/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	09/20/04	TAM	EPA-375.4/9038
	Residue,Dissolved @ 180*C	74	20	mg/L	09/17/04	INR	160.1/SM 2540 C
	Residue, Suspended	5	3	mg/L	09/17/04	INR	160.2/SM 2540 D
	Alkalinity, Total	47	2.0	mg/L	09/23/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	18	5.0	mg/L	09/27/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	5.4	1.0	mg/L	09/16/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	1.2	1.0	mg/L	09/16/04	JLB	SDM 5210B
	Color (Apparent)	45	5	A.C.U.	09/17/04	GEH	USEPA-110.2
	Turbidity	3.4	1.0	NTU	09/16/04	HLB	USEPA-180.1
	Iron, Total	390	20	ug/L	09/23/04	DSC	EPA-200.7/6010B
	Arsenic, Total	1.3	1.0	ug/L	09/23/04	DWJ	EPA-200.8/6020
	Barium, Total	12	10	ug/L	09/23/04	DWJ	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	09/23/04	DWJ	EPA-200.8/6020
	Manganese, Total	34	10	ug/L	09/23/04	DWJ	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	09/23/04	DWJ	EPA-200.8/6020
	Calcium, Dissolved	16	0.50	mg/L	10/07/04	DSC	EPA-200.7/6010B
	Potassium, Dissolved	0.68	0.50	mg/L	10/08/04	DSC	EPA-200.7/6010B
	Magnesium, Dissolved	3.1	0.50	mg/L	10/05/04	DSC	EPA-200.7/6010B
	Sodium, Dissolved	0.92	0.50	mg/L	10/08/04	DSC	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 09/15/04 @ 11:30
Sampler: P. Sabee
Received: 09/16/04 @ 08:45

Submittal #: **36162-19**
Submittal: September 2004 Samples

Sample ID: **STRES002 EAG- 1001188**
Sample #: **370750**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	63	2.0	mg/L	09/23/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	09/23/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	09/20/04	TAM	325.2/4500-CL E
	Nitrogen, Ammonia	0.09	0.05	mg/L	09/22/04	JLB	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	09/16/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	09/16/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	09/20/04	TAM	EPA-375.4/9038
	Residue,Dissolved @ 180*C	72	20	mg/L	09/17/04	INR	160.1/SM 2540 C
	Residue, Suspended	3	3	mg/L	09/17/04	INR	160.2/SM 2540 D
	Alkalinity, Total	63	2.0	mg/L	09/23/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	10	5.0	mg/L	09/27/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	3.2	1.0	mg/L	09/16/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	09/16/04	JLB	SDM 5210B
	Color (Apparent)	20	5	A.C.U.	09/17/04	GEH	USEPA-110.2
	Turbidity	2.6	1.0	NTU	09/16/04	HLB	USEPA-180.1
	Iron, Total	130	20	ug/L	09/23/04	DSC	EPA-200.7/6010B
	Arsenic, Total	2.1	1.0	ug/L	09/23/04	DWJ	EPA-200.8/6020
	Barium, Total	13	10	ug/L	09/23/04	DWJ	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	09/23/04	DWJ	EPA-200.8/6020
	Manganese, Total	12	10	ug/L	09/23/04	DWJ	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	09/23/04	DWJ	EPA-200.8/6020
	Calcium, Dissolved	21	0.50	mg/L	10/07/04	DSC	EPA-200.7/6010B
	Potassium, Dissolved	0.77	0.50	mg/L	10/08/04	DSC	EPA-200.7/6010B
	Magnesium, Dissolved	4.6	0.50	mg/L	10/05/04	DSC	EPA-200.7/6010B
	Sodium, Dissolved	1.3	0.50	mg/L	10/08/04	DSC	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 09/15/04 @ 13:30
Sampler: P. Sabee
Received: 09/16/04 @ 08:45

Submittal #: **36162-19**
Submittal: September 2004 Samples

Sample ID: **SE-7**
Sample #: **370751**
Matrix: Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Residue, Suspended	4140	125	mg/L	09/17/04	INR	160.2/SM 2540 D

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 09/16/04 @ 14:40
Sampler: P. Kero
Received: 09/17/04 @ 09:00

Submittal #: **36162-19**
Submittal: September 2004 Samples

Sample ID: **QALM006A EAG- 1001198**
Sample #: **370909**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	<2.0	2.0	mg/L	09/23/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	09/23/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	09/20/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	09/20/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	09/24/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	09/17/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	09/21/04	INR	160.1/SM 2540 C
Calcium, Dissolved	0.87	0.50	mg/L	10/07/04	DSC	EPA-200.7/6010B
Potassium, Dissolved	0.50	0.50	mg/L	10/08/04	DSC	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	10/05/04	DSC	EPA-200.7/6010B
Sodium, Dissolved	0.72	0.50	mg/L	10/08/04	DSC	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	10/05/04	DSC	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	10/04/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	10/05/04	DSC	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	10/04/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	10/05/04	DSC	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	10/07/04	DSC	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	10/08/04	DSC	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	10/07/04	DSC	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	10/04/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	10/04/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	10/04/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	10/04/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 09/16/04 @ 16:30
Sampler: P. Kero
Received: 09/17/04 @ 09:00

Submittal #: **36162-19**
Submittal: September 2004 Samples

Sample ID: **QALM005D EAG- 1001197**
Sample #: **370910**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	86	2.0	mg/L	09/23/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	09/23/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	09/20/04	TAM	325.2/4500-CL E
Sulfate	6.1	5.0	mg/L	09/20/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	09/24/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	0.16	0.05	mg/L	09/17/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	122	50	mg/L	09/21/04	INR	160.1/SM 2540 C
Calcium, Dissolved	29	0.50	mg/L	10/07/04	DSC	EPA-200.7/6010B
Potassium, Dissolved	0.65	0.50	mg/L	10/08/04	DSC	EPA-200.7/6010B
Magnesium, Dissolved	3.2	0.50	mg/L	10/05/04	DSC	EPA-200.7/6010B
Sodium, Dissolved	1.3	0.50	mg/L	10/08/04	DSC	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	10/05/04	DSC	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	3.7	2.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Barium, Dissolved	30	20	ug/L	10/04/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	10/05/04	DSC	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	10/04/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	10/05/04	DSC	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Iron, Dissolved	790	20	ug/L	10/07/04	DSC	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	10/08/04	DSC	EPA-200.7/6010B
Manganese, Dissolved	210	20	ug/L	10/07/04	DSC	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	10/04/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	10/04/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	10/04/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	10/04/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 09/21/04 @ 13:05
Sampler: P. Kero
Received: 09/22/04 @ 09:00

Submittal #: **36162-19**
Submittal: September 2004 Samples

Sample ID: **QALM004A EAG- 1001194**
Sample #: **371185**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	53	2.0	mg/L	09/23/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	09/23/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	09/23/04	TAM	325.2/4500-CL E
Sulfate	9.3	5.0	mg/L	09/23/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	09/24/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	0.16	0.05	mg/L	09/23/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	72	50	mg/L	09/23/04	INR	160.1/SM 2540 C
Calcium, Dissolved	14	0.50	mg/L	09/27/04	DSC	EPA-200.7/6010B
Potassium, Dissolved	0.62	0.50	mg/L	10/06/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	2.4	0.50	mg/L	09/27/04	DSC	EPA-200.7/6010B
Sodium, Dissolved	0.97	0.50	mg/L	09/27/04	DSC	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	09/27/04	DSC	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	10/04/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	10/07/04	DSC	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	10/04/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	09/27/04	DSC	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	09/27/04	DSC	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	09/27/04	DSC	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	09/27/04	DSC	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	10/04/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	10/04/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	10/04/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	10/04/04	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 09/21/04 @ 15:40
Sampler: P. Kero
Received: 09/22/04 @ 09:00

Submittal #: **36162-19**
Submittal: September 2004 Samples

Sample ID: **QALM004D EAG- 1001195**
Sample #: **371186**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	79	2.0	mg/L	09/23/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	09/23/04	VAS	310.1/SM 2320 B
Chloride	1.1	1.0	mg/L	09/23/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	09/23/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	09/24/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	09/23/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	118	50	mg/L	09/23/04	INR	160.1/SM 2540 C
Calcium, Dissolved	24	0.50	mg/L	09/27/04	DSC	EPA-200.7/6010B
Potassium, Dissolved	1.0	0.50	mg/L	10/06/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	3.1	0.50	mg/L	09/27/04	DSC	EPA-200.7/6010B
Sodium, Dissolved	2.1	0.50	mg/L	09/27/04	DSC	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	09/27/04	DSC	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	8.7	2.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	10/04/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	10/07/04	DSC	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	10/04/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	09/27/04	DSC	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Iron, Dissolved	110	20	ug/L	09/27/04	DSC	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	09/27/04	DSC	EPA-200.7/6010B
Manganese, Dissolved	55	20	ug/L	09/27/04	DSC	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	10/04/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	10/04/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	10/04/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	10/04/04	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 09/21/04 @ 15:40
Sampler: P. Kero
Received: 09/22/04 @ 09:00

Submittal #: **36162-19**
Submittal: September 2004 Samples

Sample ID: **DUPM001 EAG- 1001200**
Sample #: **371187**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	81	2.0	mg/L	09/23/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	09/23/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	09/23/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	09/23/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	09/24/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	09/23/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	120	50	mg/L	09/23/04	INR	160.1/SM 2540 C
Calcium, Dissolved	24	0.50	mg/L	09/27/04	DSC	EPA-200.7/6010B
Potassium, Dissolved	1.2	0.50	mg/L	10/06/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	3.2	0.50	mg/L	09/27/04	DSC	EPA-200.7/6010B
Sodium, Dissolved	2.2	0.50	mg/L	09/27/04	DSC	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	09/27/04	DSC	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	8.7	2.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	10/04/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	10/07/04	DSC	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	10/04/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	09/27/04	DSC	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Iron, Dissolved	120	20	ug/L	09/27/04	DSC	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	09/27/04	DSC	EPA-200.7/6010B
Manganese, Dissolved	57	20	ug/L	09/27/04	DSC	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	10/04/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	10/04/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	10/04/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	10/04/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 09/21/04 @ 13:05
Sampler: P. Kero
Received: 09/22/04 @ 09:00

Submittal #: **36162-19**
Submittal: September 2004 Samples

Sample ID: **DUPM002 EAG- 1001201**
Sample #: **371188**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	49	2.0	mg/L	09/23/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	09/23/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	09/23/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	09/23/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	09/24/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	0.16	0.05	mg/L	09/23/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	74	50	mg/L	09/23/04	INR	160.1/SM 2540 C
Calcium, Dissolved	13	0.50	mg/L	09/27/04	DSC	EPA-200.7/6010B
Potassium, Dissolved	0.62	0.50	mg/L	10/06/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	2.2	0.50	mg/L	09/27/04	DSC	EPA-200.7/6010B
Sodium, Dissolved	0.71	0.50	mg/L	09/27/04	DSC	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	09/27/04	DSC	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	10/04/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	10/07/04	DSC	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	10/04/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	09/27/04	DSC	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	09/27/04	DSC	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	09/27/04	DSC	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	09/27/04	DSC	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	10/04/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	10/04/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	10/04/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	10/04/04	JMF	EPA-200.8/6020
Zinc, Dissolved	24	10	ug/L	10/04/04	JMF	EPA-200.8/6020

End of Analytical Report

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Bicarbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/16/04	221674	VAS	<2.0
09/23/04	221975	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/16/04	221674	VAS	238	223	94	93-105
09/23/04	221975	VAS	238	244	103	93-105

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Carbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/16/04	221674	VAS	<2.0
09/23/04	221975	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/16/04	221674	VAS	377	318	84	77-110
09/23/04	221975	VAS	377	371	98	77-110

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Total**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/16/04	221674	VAS	<2.0
09/23/04	221975	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/16/04	221674	VAS	238	223	94	92-105
09/23/04	221975	VAS	238	244	103	92-105

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QUALITY CONTROL REPORT

Parameter: **Aluminum, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/27/04	222142	DSC	<100
10/05/04	222502	DSC	<100

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/27/04	222142	DSC	2500	2502	100	90-110
10/05/04	222502	DSC	2500	2550	102	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
09/27/04	99536	DSC	<100

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/27/04	99536	DSC	1250	1287	103	86-120

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QUALITY CONTROL REPORT

Parameter: **Antimony, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/23/04	221927	DWJ	<1.0
10/04/04	222444	JMF	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/04/04	222444	JMF	40	43.2	108	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/04/04	99711	JMF	<5.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/04/04	99711	JMF	25	27.7	111	85-127

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/27/04	222142	DSC	<200

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/23/04	221927	DWJ	<1.0
10/04/04	222434	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/23/04	221927	DWJ	40	41.8	105	90-110
10/04/04	222434	JMF	40	43.2	108	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
09/23/04	99392	DWJ	<1.0
09/23/04	99392	DWJ	<1.0
10/04/04	99711	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/23/04	99392	DWJ	25	24.2	97	85-115
09/23/04	99392	DWJ	25	24.3	97	85-115
10/04/04	99711	JMF	25	25.1	100	85-115

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/06/04	222556	KLVM	<10

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/23/04	221927	DWJ	<1.0
10/04/04	222434	JMF	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/23/04	221927	DWJ	40	40.7	102	90-110
10/04/04	222434	JMF	40	42.3	106	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
09/23/04	99392	DWJ	<10
09/23/04	99392	DWJ	<10
10/04/04	99711	JMF	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/23/04	99392	DWJ	25	25.7	103	86-119
09/23/04	99392	DWJ	25	26.2	105	86-119
10/04/04	99711	JMF	25	26.5	106	86-119

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QUALITY CONTROL REPORT

Parameter: **Beryllium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/23/04	221927	DWJ	<1.0
10/04/04	222434	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/04/04	222434	JMF	40	41.7	104	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/04/04	99711	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/04/04	99711	JMF	25	23.6	94	81-116

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QUALITY CONTROL REPORT

Parameter: **BOD, (5-Day)**
Method: Biochemical Oxygen Demand SDM 5210B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/16/04	221847	JLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/16/04	221847	JLB	198	201	102	85-115

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QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/27/04	222142	DSC	<10

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QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/23/04	221927	DWJ	<0.2
10/04/04	222434	JMF	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/04/04	222434	JMF	40	43.8	110	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/04/04	99711	JMF	<0.2

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/04/04	99711	JMF	25	25.7	103	82-110

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QUALITY CONTROL REPORT

Parameter: **Carbon, Total Organic**
Method: Organic Carbon, Total 4151/5310D/9060 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/15/04	221627	SAJ	<0.5
09/16/04	221715	SAJ	<0.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/15/04	221627	SAJ	25	23.5	94	90-110
09/16/04	221715	SAJ	25	24.5	98	90-110

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QUALITY CONTROL REPORT

Parameter: **Chemical Oxygen Demand**
Method: Closed Reflux, Colorimetric Method 410.4/SM 5220 D WATER
Units: mg/L

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
09/16/04	99159	JMJ	<5.0
09/27/04	99421	JMJ	<5.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/16/04	99159	JMJ	30	29	97	90-110
09/27/04	99421	JMJ	30	29	97	90-110

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QUALITY CONTROL REPORT

Parameter: **Chloride**
Method: Colorimetric, Automated Ferricyanide 325.2/4500-CL E WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/13/04	221508	TAM	<1.0
09/14/04	221624	TAM	<1.0
09/16/04	221840	TAM	<1.0
09/20/04	222000	TAM	<1.0
09/23/04	222055	TAM	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/13/04	221508	TAM	78.1	77.1	99	92-109
09/14/04	221624	TAM	78.1	78.1	100	92-109
09/16/04	221840	TAM	78.1	78.4	100	92-109
09/20/04	222000	TAM	78.1	77.9	100	92-109
09/23/04	222055	TAM	78.1	80.5	103	92-109

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QUALITY CONTROL REPORT

Parameter: **Chromium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/27/04	222142	DSC	<50

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QUALITY CONTROL REPORT

Parameter: **Chromium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/23/04	221927	DWJ	<1.0
10/04/04	222434	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/04/04	222434	JMF	40	42.0	105	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/04/04	99711	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/04/04	99711	JMF	25	25.2	101	84-122

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QUALITY CONTROL REPORT

Parameter: **Cobalt, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/27/04	222142	DSC	<10
10/05/04	222502	DSC	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/27/04	222142	DSC	500	499	100	90-110
10/05/04	222502	DSC	500	505	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
09/27/04	99536	DSC	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/27/04	99536	DSC	250	257	103	84-117

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QUALITY CONTROL REPORT

Parameter: **Cobalt, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/23/04	221927	DWJ	<1.0

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QUALITY CONTROL REPORT

Parameter: **Color (Apparent)**
Method: Colorimetric, Platinum-Cobalt USEPA-110.2 WATER
Units: A.C.U.

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/15/04	221933	GEH	<5
09/17/04	221932	GEH	<5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/15/04	221933	GEH	25	25	100	80-120
09/17/04	221932	GEH	50	50	100	80-120

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/27/04	222142	DSC	<10

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/23/04	221927	DWJ	<1.0
10/04/04	222434	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/23/04	221927	DWJ	40	41.8	105	90-110
10/04/04	222434	JMF	40	42.8	107	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
09/23/04	99392	DWJ	<1.0
09/23/04	99392	DWJ	<1.0
10/04/04	99711	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/23/04	99392	DWJ	25	25.1	100	86-123
09/23/04	99392	DWJ	25	26.2	105	86-123
10/04/04	99711	JMF	25	25.7	103	86-123

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QUALITY CONTROL REPORT

Parameter: **Fluoride**
Method: Potentiometric, Ion Selective Electrode SM 4500 F-C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/17/04	221795	VAS	<0.10
09/24/04	222098	VAS	<0.10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/17/04	221795	VAS	0.343	0.319	93	88-116
09/24/04	222098	VAS	3.43	3.59	105	88-116

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QUALITY CONTROL REPORT

Parameter: **Iron, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/23/04	221913	DSC	<10
09/27/04	222142	DSC	<20
10/06/04	222556	KLVM	<10
10/07/04	222575	DSC	<20
10/08/04	222621	DSC	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/23/04	221913	DSC	500	502	100	90-110
09/27/04	222142	DSC	500	496	99	90-110
10/07/04	222575	DSC	500	505	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
09/23/04	99356	DSC	<20
09/23/04	99357	DSC	<10
09/27/04	99536	DSC	<20

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/23/04	99356	DSC	250	271	108	83-118
09/23/04	99357	DSC	250	256	102	83-118
09/27/04	99536	DSC	250	268	107	83-118

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QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/27/04	222142	DSC	<50

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QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/23/04	221927	DWJ	<1.0
10/04/04	222434	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/04/04	222434	JMF	40	42.6	107	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/04/04	99711	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/04/04	99711	JMF	25	25.3	101	89-119

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QUALITY CONTROL REPORT

Parameter: **Lithium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/27/04	222142	DSC	<10
10/08/04	222621	DSC	<20

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/27/04	222142	DSC	500	493	99	90-110
10/08/04	222621	DSC	500	504	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
09/27/04	99536	DSC	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/27/04	99536	DSC	250	255	102	86-115

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QUALITY CONTROL REPORT

Parameter: **Magnesium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/23/04	221913	DSC	<0.50
09/27/04	222142	DSC	<0.50
10/05/04	222502	DSC	<0.50
10/06/04	222556	KLVM	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/27/04	222142	DSC	5.0	4.96	99	90-110
10/05/04	222502	DSC	5.0	5.06	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
09/27/04	99536	DSC	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/27/04	99536	DSC	12.5	12.6	101	87-115

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/23/04	221913	DSC	<10
09/27/04	222142	DSC	<10
10/07/04	222575	DSC	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/27/04	222142	DSC	500	494	99	90-110
10/07/04	222575	DSC	500	495	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
09/27/04	99536	DSC	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/27/04	99536	DSC	250	255	102	83-118

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/23/04	221927	DWJ	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/23/04	221927	DWJ	40	42.1	105	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
09/23/04	99392	DWJ	<10
09/23/04	99392	DWJ	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/23/04	99392	DWJ	25	26.4	106	84-126
09/23/04	99392	DWJ	25	27.1	108	84-126

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/23/04	221927	DWJ	<1.0
10/04/04	222434	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/23/04	221927	DWJ	40	40.7	102	90-110
10/04/04	222434	JMF	40	43.3	108	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
09/23/04	99392	DWJ	<1.0
09/23/04	99392	DWJ	<1.0
10/04/04	99711	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/23/04	99392	DWJ	25	25.0	100	82-124
09/23/04	99392	DWJ	25	25.7	103	82-124
10/04/04	99711	JMF	25	25.0	100	84-117

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Ammonia**
Method: Colorimetric, Automated Phenate 350.1/4500 NH3G WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/16/04	221639	GEH	<0.02
09/22/04	221893	JLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/16/04	221639	GEH	0.765	0.755	99	90-110
09/22/04	221893	JLB	0.765	0.699	91	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrate**
Method: Colorimetric, Auto-Cadmium Reduction 353.2/4500 NO3F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/10/04	221457	HLB	<0.05
09/16/04	221882	HLB	<0.05
09/17/04	221792	HLB	<0.05
09/23/04	222059	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/10/04	221457	HLB	0.624	0.630	101	90-110
09/16/04	221882	HLB	0.624	0.625	100	90-110
09/17/04	221792	HLB	0.624	0.629	101	90-110
09/23/04	222059	HLB	0.624	0.617	99	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrite**
Method: Colorimetric, Automated USEPA-353.2 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/16/04	221891	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/16/04	221891	HLB	0.50	0.505	101	90-110

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QUALITY CONTROL REPORT

Parameter: **Potassium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/23/04	221913	DSC	<0.50
10/06/04	222556	KLVM	<0.50
10/08/04	222621	DSC	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/06/04	222556	KLVM	5.0	5.02	100	90-110
10/08/04	222621	DSC	5.0	5.31	106	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/01/04	99536	DSC	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/01/04	99536	DSC	12.5	12.5	100	87-125

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QUALITY CONTROL REPORT

Parameter: **Residue,Dissolved @ 180*C**
Method: Residue-Gravimetric, Dried @ 180*C 160.1/SM 2540 C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/14/04	221637	INR	<2.5
09/17/04	221849	INR	<2.5
09/21/04	222053	INR	<2.5
09/23/04	222091	INR	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/14/04	221637	INR	1000.0	1020	102	90-108
09/14/04	221637	INR	1000.0	1040	104	90-108
09/17/04	221849	INR	1000.0	991	99	90-108
09/21/04	222053	INR	1000	963	96	90-108
09/23/04	222091	INR	1000	1070	107	90-108

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QUALITY CONTROL REPORT

Parameter: **Residue, Suspended**
Method: Residue-Gravimetric, Dried @ 103-105*C 160.2/SM 2540 D WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/17/04	221838	INR	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/17/04	221838	INR	1000.0	1026	103	89-106

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QUALITY CONTROL REPORT

Parameter: **Selenium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/27/04	222142	DSC	<200

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QUALITY CONTROL REPORT

Parameter: **Selenium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/23/04	221927	DWJ	<1.0
10/04/04	222434	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/04/04	222434	JMF	40	42.2	106	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/04/04	99711	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/04/04	99711	JMF	25	22.9	92	79-120

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QUALITY CONTROL REPORT

Parameter: **Silver, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/27/04	222142	DSC	<10

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QUALITY CONTROL REPORT

Parameter: **Silver, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/23/04	221927	DWJ	<0.2
10/04/04	222434	JMF	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/04/04	222434	JMF	40	43.3	108	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/04/04	99711	JMF	<0.2

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/04/04	99711	JMF	25	25.7	103	86-114

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QUALITY CONTROL REPORT

Parameter: **Sodium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/23/04	221913	DSC	<0.50
09/27/04	222142	DSC	<0.50
10/08/04	222621	DSC	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/27/04	222142	DSC	5.0	4.96	99	90-110
10/08/04	222621	DSC	5.0	4.79	96	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
09/27/04	99536	DSC	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/27/04	99536	DSC	12.5	12.8	102	86-117

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QUALITY CONTROL REPORT

Parameter: **Sulfate**
Method: Turbidimetric Method (Manual) EPA-375.4/9038 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/10/04	221558	TAM	<5.0
09/16/04	221673	TAM	<5.0
09/20/04	221937	TAM	<5.0
09/23/04	222058	TAM	<5.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/10/04	221558	TAM	15.8	15.5	98	85-113
09/16/04	221673	TAM	15.7	16.2	103	85-113
09/20/04	221937	TAM	15.8	16.33	103	85-113
09/23/04	222058	TAM	15.8	16.2	103	85-113

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QUALITY CONTROL REPORT

Parameter: **Turbidity**
Method: Nephelometric USEPA-180.1 WATER
Units: NTU

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/15/04	221923	HLB	<1.0
09/16/04	221931	HLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
09/15/04	221923	HLB	402	398	99	90-110
09/16/04	221931	HLB	402	399	99	90-110

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QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/27/04	222142	DSC	<20

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QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
09/23/04	221927	DWJ	<1.0
10/04/04	222434	JMF	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/04/04	222434	JMF	40	41.6	104	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/04/04	99711	JMF	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/04/04	99711	JMF	25	28.1	112	87-124

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Chain of Custody Record

COC No. 100309

Page 1 of 1

For Lab Use Only

Cart: 2

VOA Rack/Tray: NA

Receipt Log No.: 23-7

Project Chemist: JLK

Laboratory Project No.: 36162-19

Client Name	North Jackson
Project Name	Eagle
Address	420 Rail Negaunee MI 49866
Client Project No. / P.O. No.	
Invoice To	☐ Client ☒ Other (comments)
Phone	906 475.9865
Fax	906 475.0235
Contact/Report To	North Jackson

Analyses Requested: A 1000ml 3; A 500ml; B 500ml 15

Container Type (corresponds to Container Packing List): A A B

PRESERVATIVES
- A NONE pH~7
- B HNO_3 pH<2
- C H_2SO_4 pH<2
- D 1+1 HCl pH<2
- E NaOH pH>12
- F ZnAc/NaOH pH>9
- G MeOH
- H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	A	A	B	Total	Sample Comments
04	W	370221	1	QALM001D	TM0943	9-9-04	1140		X	wtr	2	1		3	Same parameters
↓	↓	370222	2	PALP015	↓	9-9-04	1320		X	wtr	2	1	1	4	as other
		370223	3	QALP016		9-9-04	1415		X	wtr	2	1	1	4	EAGLE Groundwater
		370224	4	DupP003		9-9-04			X	wtr	2	1	1	4	samples
			5												
			6												
			7												
			8												
			9												
			10												

Sampled By (print): Dan Wiitala

Sampler's Signature: Dan Wiitala

Company: North Jackson Co

How Shipped? Hand Carrier FedEx

Tracking No.:

Comments: Invoice to Jon Cherry, Kennecott Minerals

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
Dan Wiitala	9-9-04	1630						
1. Received By	**Date**	**Time**	**2. Received By**	**Date**	**Time**	**3. Received For Lab By**	**Date**	**Time**
						LKP	9-10-04	08:40

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Chain of Custody Record

COC No. 102696

Page ____ of ____

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Cart: 8
VOA Rack/Tray: NA
Receipt Log No.: 31-7
Project Chemist: JEC
Laboratory Project No.: 36162-19

Client Name: NJC
Address: P.O. Box 30, Negaunee MI. 49866
Phone: 906 475-9739
Fax:

Project Name: EAGLE
Client Project No. / P.O. No.:
Invoice To: ☐ Client ☒ Other (comments) V.O. e-mail
Contact/Report To: P. Sabee

Analyses Requested

⇦ PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

	Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List) A	B	C	D	11	3	4	6	15	Total	Sample Comments
											Number of Containers Submitted										
1	06	WS	370504	SDRM5002		9-14-04	1030		X	W	2	2	1	3		3	2	1	1	1	EAG-100118
2			370505	STRM5002			1100		X	W	2	2	1	3		3	2	1	1	1	EAG-100118
3			370506	CDRM5004			1330		X	W	2	2	1	3		3	2	1	1	1	EAG-100119
4			370507	DUP5001						W						3	2	1	1	1	EAG-100119
5																					
6																					
7																					
8																					
9																					
10																					

Sampled By (print): P. Sabee
Sampler's Signature: P. Sabee
Company:

How Shipped? Hand Carrier Fed Ex
Tracking No.

1. Relinquished By: P. Sabee Date: 9-14-04 Time: 1630
1. Received By: Date: Time:

Comments: Bill Jon Chuck Kennecott Minerals Company

2. Relinquished By: Date: Time:
2. Received By: Date: Time:

3. Relinquished By: Date: Time:
3. Received For Lab By: LKP Date: 9-15-04 Time: 09:20

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TriMatrix Laboratories, Inc.

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Chain of Custody Record

COC No. 102697

Page 1 of 1

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Cart: 2
VOA Rack/Tray:
Receipt Log No.: 33-6
Project Chemist: JM
Laboratory Project No.: 36162-19

Client Name: NJC
Address: PO Box 30
Manganese
Phone: 906 485 9739
Fax:

Project Name: EAGLE
Client Project No. / P.O. No.:
Invoice To: ☐ Client ☒ Other (comments)
Contact/Report To: P Sabee

Analyses Requested

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID TM1034	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type A	B	C	D	Total	Sample Comments
										Number of Containers Submitted					
OC	WS	370749	1 STRM0004	1245	9-15-04			X		2	2	1	3		None 2
↓	1	370750	2 STRES002	1130	↓			X		2	2	1	3		EAG-1001 197
11	W	370751	3 SE-7	1330				X		2					EAG-1001 198
			4												
			5												
			6												
			7												
			8												
			9												
			10												

TSS on this sample

Sampled By (print): P Sabee
Sampler's Signature:
Company:

How Shipped? Hand Carrier Fed Exp
Tracking No. 7913 3746 7022

Comments

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
P Sabee	9-15-04	1600						
1. Received By	**Date**	**Time**	**2. Received By**	**Date**	**Time**	**3. Received For Lab By**	**Date**	**Time**
						[illegible]	9/16/04	8:45

TriMatrixCOC -- COC

WHITE COPY - REPORT YELLOW COPY - LABORATORY PINK COPY - FIELD

TriMatrix Laboratories, Inc.

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Chain of Custody Record

COC No. № 85416

Project Manager	Project Name	For Lab Use Only
NOC Bill to: KMC	Eagle	Rack/Tray No:
Project No.	Sampler (Print) P. K E R O	Lab Project # 36162-19
Eagle	Sampler Signature Peter Kero	

Date Sampled	Time Sampled	Matrix*	Composite	Grab	Sample Identification	No. of Containers	Container Type	Analysis Required/Comments	Sample No.	Filtered Date/Time
9/16/04	14:40	H_2O		X	QALM0006A EAG1001198	4	3	See e-mail for analysis request (3) #3's (1) #15	370909	WG 04
~~9/16/04~~		~~H_2O~~		X	QAL0006B EAG1001199	~~4~~	3			
~~9/16/04~~		~~H_2O~~		X	~~QAL0005A~~ EAG1001196	~~4~~	3			
9/16/04	16:30	H_2O		X	QALM0005D EAG1001197	4	3	(3) #3's (1) #15	370910	WG 04
~~9/16/04~~		~~H_2O~~		X	~~QAL0007PK~~ ~~DUPM0007~~ EAG1001201	~~4~~	3			

Relinquished By:	Date/Time	Received By:	Received to Lab By:	Date/Time	Logged in By:	Date/Time
Peter Kero	9/16/04 18:30		Lori Pelon	9/17/04 9:00		

* Matrix: Water (WTR), Wastewater (WW), Soil (SOIL), Sludge (SLG), Air, Oil, Waste (WASTE)

TriMatrix Laboratories, Inc.

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Phone (616) 975-4500 Fax (616) 942-7463
www.trimatrixlabs.com

Chain of Custody Record

COC No. 102581

Page 1 of 1

For Lab Use Only
Cart: 3
VOA Rack/Tray:
Receipt Log No.: 43-3
Project Chemist: JLS
Laboratory Project No.: 36162-19

Client Name: North Jackson Co.
Address: PO Box 30
Negaunee, MI 49866
Phone: 906-475-9865
Fax: 906-475-0238

Project Name: Eagle
Client Project No. / P.O. No.:
Invoice To: ☐ Client ☒ Other (comments)
Contact/Report To: Dan Wiitala

Analyses Requested

See e-mail for list of analytes

Container Type (corresponds to Container Packing List): 3 15

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Number of Containers Submitted		Total	Sample Comments
04	W6	371185	1	EAG-1001194 QALM004A	1 of 1	9/21/04	13:05		X	WTR	3	1	4	
		371186	2	EAG-1001195 QALM004D	1 of 1	9/21/04	15:40		X	WTR	3	1	4	
		371187	3	EAG-1001200 DUPM001	1 of 1	9/21/04	15:40		X	WTR	3	1	4	
		371188	4	EAG-1001201 DUPM002	1 of 1	9/21/04	13:05		X	WTR	3	1	4	
			5											
			6											
			7											
			8											
			9											
			10											

Sampled By (print): Pete Kero
Sampler's Signature: Pete Kero
Company: North Jackson Co.

How Shipped? Hand Carrier FedEx
Tracking No.: 7913 4266 1670

Comments: Send invoice to Jon Cherry, KMC

	1. Relinquished By	Date	Time	1. Received By	Date	Time
	Pete Kero	9/21/04	16:30			
	2. Relinquished By	Date	Time	2. Received By	Date	Time
	3. Relinquished By	Date	Time	3. Received For Lab By	Date	Time
				Jon Parkos	9/22/04	9:00

October 21, 2004

North Jackson Company
Attn: Mr. Peter Sabee
420 Rail Street
Negaunee, MI 49866

RE: Eagle
Submittal Number: 36162-20

Dear Mr. Peter Sabee:

Enclosed is a copy of your laboratory report for test samples received by our laboratory on October 7, 2004.

Please note that the test results of the enclosed analyses relate only to the sample(s) as received at the laboratory, and are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC) standards. Qualification of test standards, including sample acceptance requirements, are presented within the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosure(s)

The total number of pages in this report, including this page, is 55.

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Individual sample results relate only to the sample tested.

STATEMENT OF DATA QUALIFICATIONS

Analysis: **Residue, Suspended**
Residue-Gravimetric, Dried @ 103-105*C
WATER 160.2/SM 2540 D

Qualification:

The detection limit for this sample and corresponding analysis were elevated due to insufficient sample volume received.

Sample(s) Qualified: 372354 STRMS001 EAG- 1001206

Analysis: **Nitrogen, Ammonia**
Colorimetric, Automated Phenate
WATER 350.1/4500 NH3G

Qualification:

One of the matrix spike accuracies fell outside of the laboratory control limits, but the precision between the MS/MSD is within the control limit for this matrix and method. The corresponding sample result is not considered estimated.

Explanation for Sample(s) listed below:

Percent Recovery	Control Limits
86%	90- 110
98%	90- 110

Sample(s) Qualified: 372354 STRMS001 EAG- 1001206

Note: This document is included as a part of the analytical report for the above referenced project and submittal, and should be retained as a permanent record thereof.

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Nitrogen, Nitrite**
Nitrite - Spectrophotometric
WATER 354.1/4500 NO2B

Qualification:

Analysis performed beyond established USEPA maximum allowable parameter hold time. All positive results must be considered estimated, and all non-detectable results must be considered approximate.

Explanation for Sample(s) listed below:

Missed hold time due to instrument problems.

Sample(s) Qualified: 372748 DUPS002 EAG-1001219

Analysis: **Carbon, Total Organic**
Organic Carbon, Total
WATER 4151/5310D/9060

Qualification:

The analytical requirements of the method require quadruplicate analysis on every sample submitted for TOC testing. The reporting requirements require both the average and the range of the four analyses be reported. The result reported is the average; the range of the replicates is:

Explanation for Sample(s) listed below:

0.573 - 0.597

Sample(s) Qualified: 372745 DUPS001 EAG-1001218

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Carbon, Total Organic**
Organic Carbon, Total
WATER 4151/5310D/9060

Qualification:

The analytical requirements of the method require quadruplicate analysis on every sample submitted for TOC testing. The reporting requirements require both the average and the range of the four analyses be reported. The result reported is the average; the range of the replicates is:

Explanation for Sample(s) listed below:

0.706 - 0.828

Sample(s) Qualified: 372744 CDRAS002 EAG-1001216

Explanation for Sample(s) listed below:

1.893 - 2.001

Sample(s) Qualified: 372746 STRES001 EAG-1001212

Explanation for Sample(s) listed below:

2.034 - 2.251

Sample(s) Qualified: 372748 DUPS002 EAG-1001219

Explanation for Sample(s) listed below:

2.138 - 2.269

Sample(s) Qualified: 372747 STRES002 EAG-1001213

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Carbon, Total Organic**
Organic Carbon, Total
WATER 4151/5310D/9060

Qualification:

The analytical requirements of the method require quadruplicate analysis on every sample submitted for TOC testing. The reporting requirements require both the average and the range of the four analyses be reported. The result reported is the average; the range of the replicates is:

Explanation for Sample(s) listed below:

2.949 - 3.104

Sample(s) Qualified:	372743	STRMS005	EAG-	1001210

Explanation for Sample(s) listed below:

3.198 - 3.320

Sample(s) Qualified:	372358	CDRMS004	EAG-	1001217

Explanation for Sample(s) listed below:

3.491 - 3.690

Sample(s) Qualified:	372742	STRMS004	EAG-	1001209

Explanation for Sample(s) listed below:

3.908 - 4.036

Sample(s) Qualified:	372356	STRMS003	EAG-	1001208

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Carbon, Total Organic**
Organic Carbon, Total
WATER 4151/5310D/9060

Qualification:

The analytical requirements of the method require quadruplicate analysis on every sample submitted for TOC testing. The reporting requirements require both the average and the range of the four analyses be reported. The result reported is the average; the range of the replicates is:

Explanation for Sample(s) listed below:

4.678 - 4.991

Sample(s) Qualified: 372749 STRWS001 EAG- 1001211

Explanation for Sample(s) listed below:

4.747 - 4.957

Sample(s) Qualified: 372354 STRMS001 EAG- 1001206

Explanation for Sample(s) listed below:

7.487 - 7.870

Sample(s) Qualified: 372355 STRMS002 EAG- 1001207

Explanation for Sample(s) listed below:

8.151 - 8.408

Sample(s) Qualified: 372357 YDRMS002 EAG- 1001214

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CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

6.38

Sample(s) Narrated:	372354	STRMS001	EAG-	1001206

Explanation for Sample(s) listed below:

6.68

Sample(s) Narrated:	372355	STRMS002	EAG-	1001207

Explanation for Sample(s) listed below:

7.09

Sample(s) Narrated:	372357	YDRMS002	EAG-	1001214

Explanation for Sample(s) listed below:

7.37

Sample(s) Narrated:	372356	STRMS003	EAG-	1001208

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CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

7.40

Sample(s) Narrated:	372742	STRMS004	EAG-	1001209

Explanation for Sample(s) listed below:

7.68

Sample(s) Narrated:	372358	CDRMS004	EAG-	1001217

Explanation for Sample(s) listed below:

7.71

Sample(s) Narrated:	372743	STRMS005	EAG-	1001210

Explanation for Sample(s) listed below:

7.75

Sample(s) Narrated:	372744	CDRAS002	EAG-	1001216
	372746	STRES001	EAG-	1001212
	372749	STRWS001	EAG-	1001211

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CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

7.79

Sample(s) Narrated: 372745 DUPS001 EAG- 1001218

Explanation for Sample(s) listed below:

7.84

Sample(s) Narrated: 372748 DUPS002 EAG- 1001219

Explanation for Sample(s) listed below:

7.86

Sample(s) Narrated: 372747 STRES002 EAG- 1001213

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CASE NARRATIVE

Analysis: **Nickel, Total**
ICP Mass Spectrometry (ICP-MS)
WATER EPA-200.8/6020

Narrative:

The quantitated values of the isotopes monitored for this analyte exceeded a difference of 25%. The lower of the two values has been reported.

Sample(s) Narrated:	372748	DUPS002	EAG-	1001219

Analysis: **Nitrogen, Nitrate**
Colorimetric, Auto-Cadmium Reduction
WATER 353.2/4500 NO3F

Narrative:

Nitrite Nitrogen was analyzed on this sample within the mandated USEPA 48 hour holding time. The sample was also chemically preserved and later analyzed for Nitrate+Nitrite Nitrogen within the 28 day USEPA mandated hold time. Nitrate Nitrogen was calculated by subtraction (NO3+NO2-NO2=NO3).

Sample(s) Narrated:	372354	STRMS001	EAG-	1001206
	372355	STRMS002	EAG-	1001207
	372356	STRMS003	EAG-	1001208
	372357	YDRMS002	EAG-	1001214
	372358	CDRMS004	EAG-	1001217
	372749	STRWS001	EAG-	1001211

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CASE NARRATIVE

Analysis: **BOD, (5-Day)**
Biochemical Oxygen Demand
WATER SDM 5210B

Narrative:

The reported Biochemical Oxygen Demand result for this sample was calculated on an oxygen depletion of <2.0 mg/l

Sample(s) Narrated:				
	372357	YDRMS002	EAG-	1001214
	372742	STRMS004	EAG-	1001209
	372749	STRWS001	EAG-	1001211

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/04/04 @ 11:00
Sampler: R. Eagle
Received: 10/05/04 @ 08:55

Submittal #: **36162-20**
Submittal: Week of 10/4/04 Surface Waters

Sample ID: **STRMS001 EAG- 1001206**
Sample #: **372354**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	17	2.0	mg/L	10/08/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	10/08/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	10/05/04	TAM	325.2/4500-CL E
*	Nitrogen, Ammonia	0.06	0.05	mg/L	10/06/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	10/10/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	10/06/04	HLB	354.1/4500 NO2B
	Sulfate	<5.0	5.0	mg/L	10/05/04	TAM	EPA-375.4/9038
	Residue,Dissolved @ 180*C	49	20	mg/L	10/06/04	INR	160.1/SM 2540 C
*	Residue, Suspended	<4	4	mg/L	10/06/04	INR	160.2/SM 2540 D
	Alkalinity, Total	17	2.0	mg/L	10/08/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	14	5.0	mg/L	10/12/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	4.8	1.0	mg/L	10/06/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	10/06/04	JLB	SDM 5210B
	Color (Apparent)	35	5	A.C.U.	10/05/04	GEH	USEPA-110.2
	Turbidity	2.2	1.0	NTU	10/05/04	HLB	USEPA-180.1
	Iron, Total	490	20	ug/L	10/08/04	DSC	EPA-200.7/6010B
	Arsenic, Total	<1.0	1.0	ug/L	10/12/04	DSC	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	10/12/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	10/12/04	DSC	EPA-200.8/6020
	Manganese, Total	25	10	ug/L	10/12/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	10/12/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	4.9	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
	Potassium, Dissolved	0.74	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
	Magnesium, Dissolved	1.2	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
	Sodium, Dissolved	0.68	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/04/04 @ 12:15
Sampler: R. Eagle
Received: 10/05/04 @ 08:55

Submittal #: **36162-20**
Submittal: Week of 10/4/04 Surface Waters

Sample ID: **STRMS002 EAG- 1001207**
Sample #: **372355**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	24	2.0	mg/L	10/08/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	10/08/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	10/05/04	TAM	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	10/06/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	10/10/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	10/06/04	HLB	354.1/4500 NO2B
	Sulfate	<5.0	5.0	mg/L	10/05/04	TAM	EPA-375.4/9038
	Residue,Dissolved @ 180*C	58	20	mg/L	10/06/04	INR	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	10/06/04	INR	160.2/SM 2540 D
	Alkalinity, Total	24	2.0	mg/L	10/08/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	24	5.0	mg/L	10/12/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	7.7	1.0	mg/L	10/06/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	10/06/04	JLB	SDM 5210B
	Color (Apparent)	70	10	A.C.U.	10/05/04	GEH	USEPA-110.2
	Turbidity	2.5	1.0	NTU	10/05/04	HLB	USEPA-180.1
	Iron, Total	330	20	ug/L	10/08/04	DSC	EPA-200.7/6010B
	Arsenic, Total	<1.0	1.0	ug/L	10/12/04	DSC	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	10/12/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	10/12/04	DSC	EPA-200.8/6020
	Manganese, Total	13	10	ug/L	10/12/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	10/12/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	8.1	0.50	mg/L	10/08/04	DSC	EPA-200.7/6010B
	Potassium, Dissolved	0.67	0.50	mg/L	10/08/04	DSC	EPA-200.7/6010B
	Magnesium, Dissolved	1.8	0.50	mg/L	10/08/04	DSC	EPA-200.7/6010B
	Sodium, Dissolved	0.65	0.50	mg/L	10/08/04	DSC	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/04/04 @ 15:00
Sampler: R. Eagle
Received: 10/05/04 @ 08:55

Submittal #: **36162-20**
Submittal: Week of 10/4/04 Surface Waters

Sample ID: **STRMS003 EAG- 1001208**
Sample #: **372356**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	40	2.0	mg/L	10/08/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	10/08/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	10/05/04	TAM	325.2/4500-CL E
	Nitrogen, Ammonia	0.13	0.05	mg/L	10/06/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	0.11	0.05	mg/L	10/10/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	10/06/04	HLB	354.1/4500 NO2B
	Sulfate	<5.0	5.0	mg/L	10/05/04	TAM	EPA-375.4/9038
	Residue,Dissolved @ 180*C	66	20	mg/L	10/06/04	INR	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	10/06/04	INR	160.2/SM 2540 D
	Alkalinity, Total	40	2.0	mg/L	10/08/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	13	5.0	mg/L	10/12/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	4.0	1.0	mg/L	10/06/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	10/06/04	JLB	SDM 5210B
	Color (Apparent)	35	5	A.C.U.	10/05/04	GEH	USEPA-110.2
	Turbidity	2.0	1.0	NTU	10/05/04	HLB	USEPA-180.1
	Iron, Total	210	20	ug/L	10/08/04	DSC	EPA-200.7/6010B
	Arsenic, Total	1.3	1.0	ug/L	10/12/04	DSC	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	10/12/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	10/12/04	DSC	EPA-200.8/6020
	Manganese, Total	12	10	ug/L	10/12/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	10/12/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	13	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
	Potassium, Dissolved	0.60	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
	Magnesium, Dissolved	2.4	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
	Sodium, Dissolved	0.82	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/04/04 @ 09:00
Sampler: R. Eagle
Received: 10/05/04 @ 08:55

Submittal #: **36162-20**
Submittal: Week of 10/4/04 Surface Waters

Sample ID: **YDRMS002 EAG- 1001214**
Sample #: **372357**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	30	2.0	mg/L	10/08/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	10/08/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	10/05/04	TAM	325.2/4500-CL E
	Nitrogen, Ammonia	0.09	0.05	mg/L	10/06/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	10/10/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	10/06/04	HLB	354.1/4500 NO2B
	Sulfate	<5.0	5.0	mg/L	10/05/04	TAM	EPA-375.4/9038
	Residue,Dissolved @ 180*C	70	20	mg/L	10/06/04	INR	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	10/06/04	INR	160.2/SM 2540 D
	Alkalinity, Total	30	2.0	mg/L	10/08/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	26	5.0	mg/L	10/12/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	8.3	1.0	mg/L	10/06/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	1.3	1.0	mg/L	10/06/04	JLB	SDM 5210B
	Color (Apparent)	70	10	A.C.U.	10/05/04	GEH	USEPA-110.2
	Turbidity	6.0	1.0	NTU	10/05/04	HLB	USEPA-180.1
	Iron, Total	880	20	ug/L	10/08/04	DSC	EPA-200.7/6010B
	Arsenic, Total	<1.0	1.0	ug/L	10/12/04	DSC	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	10/12/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	10/12/04	DSC	EPA-200.8/6020
	Manganese, Total	23	10	ug/L	10/12/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	10/12/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	10	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
	Potassium, Dissolved	0.62	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
	Magnesium, Dissolved	2.3	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
	Sodium, Dissolved	0.90	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/04/04 @ 13:40
Sampler: R. Eagle
Received: 10/05/04 @ 08:55

Submittal #: **36162-20**
Submittal: Week of 10/4/04 Surface Waters

Sample ID: **CDRMS004 EAG- 1001217**
Sample #: **372358**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	65	2.0	mg/L	10/08/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	10/08/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	10/05/04	TAM	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	10/06/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	10/10/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	10/06/04	HLB	354.1/4500 NO2B
	Sulfate	<5.0	5.0	mg/L	10/05/04	TAM	EPA-375.4/9038
	Residue,Dissolved @ 180*C	99	20	mg/L	10/06/04	INR	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	10/06/04	INR	160.2/SM 2540 D
	Alkalinity, Total	65	2.0	mg/L	10/08/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	13	5.0	mg/L	10/12/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	3.3	1.0	mg/L	10/06/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	10/06/04	JLB	SDM 5210B
	Color (Apparent)	15	5	A.C.U.	10/05/04	GEH	USEPA-110.2
	Turbidity	1.5	1.0	NTU	10/05/04	HLB	USEPA-180.1
	Iron, Total	120	20	ug/L	10/08/04	DSC	EPA-200.7/6010B
	Arsenic, Total	1.8	1.0	ug/L	10/12/04	DSC	EPA-200.8/6020
	Barium, Total	13	10	ug/L	10/12/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	10/12/04	DSC	EPA-200.8/6020
	Manganese, Total	15	10	ug/L	10/12/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	10/12/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	22	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
	Potassium, Dissolved	0.53	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
	Magnesium, Dissolved	3.7	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
	Sodium, Dissolved	1.1	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/06/04 @ 13:45
Sampler: R. Eagle
Received: 10/07/04 @ 08:40

Submittal #: **36162-20**
Submittal: Week of 10/4/04 Surface Waters

Sample ID: **STRMS004 EAG- 1001209**
Sample #: **372742**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	52	2.0	mg/L	10/15/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	10/15/04	VAS	310.1/SM 2320 B
	Chloride	1.0	1.0	mg/L	10/12/04	TAM	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	10/11/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	0.09	0.05	mg/L	10/07/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	10/07/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	10/11/04	TAM	EPA-375.4/9038
	Residue,Dissolved @ 180*C	63	25	mg/L	10/08/04	INR	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	10/08/04	INR	160.2/SM 2540 D
	Alkalinity, Total	52	2.0	mg/L	10/15/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	15	5.0	mg/L	10/12/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	3.6	1.0	mg/L	10/08/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	3.1	1.0	mg/L	10/07/04	JLB	SDM 5210B
	Color (Apparent)	30	5	A.C.U.	10/07/04	GEH	USEPA-110.2
	Turbidity	1.6	1.0	NTU	10/07/04	HLB	USEPA-180.1
	Iron, Total	230	20	ug/L	10/15/04	DWJ	EPA-200.7/6010B
	Arsenic, Total	<1.0	1.0	ug/L	10/15/04	DSC	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	10/15/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	10/15/04	DSC	EPA-200.8/6020
	Manganese, Total	16	10	ug/L	10/15/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	10/15/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	14	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
	Potassium, Dissolved	0.72	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
	Magnesium, Dissolved	2.7	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
	Sodium, Dissolved	0.82	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/06/04 @ 08:45
Sampler: R. Eagle
Received: 10/07/04 @ 08:40

Submittal #: **36162-20**
Submittal: Week of 10/4/04 Surface Waters

Sample ID: **STRMS005 EAG- 1001210**
Sample #: **372743**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	60	2.0	mg/L	10/15/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	10/15/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	10/12/04	TAM	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	10/11/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	0.07	0.05	mg/L	10/07/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	10/07/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	10/11/04	TAM	EPA-375.4/9038
	Residue,Dissolved @ 180*C	85	25	mg/L	10/08/04	INR	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	10/08/04	INR	160.2/SM 2540 D
	Alkalinity, Total	60	2.0	mg/L	10/15/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	11	5.0	mg/L	10/12/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	3.0	1.0	mg/L	10/08/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	11	1.0	mg/L	10/07/04	JLB	SDM 5210B
	Color (Apparent)	20	5	A.C.U.	10/07/04	GEH	USEPA-110.2
	Turbidity	2.0	1.0	NTU	10/07/04	HLB	USEPA-180.1
	Iron, Total	200	20	ug/L	10/15/04	DWJ	EPA-200.7/6010B
	Arsenic, Total	<1.0	1.0	ug/L	10/15/04	DSC	EPA-200.8/6020
	Barium, Total	13	10	ug/L	10/15/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	10/15/04	DSC	EPA-200.8/6020
	Manganese, Total	11	10	ug/L	10/15/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	10/15/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	20	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
	Potassium, Dissolved	0.64	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
	Magnesium, Dissolved	4.1	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
	Sodium, Dissolved	1.1	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/06/04 @ 15:30
Sampler: R. Eagle
Received: 10/07/04 @ 08:40

Submittal #: **36162-20**
Submittal: Week of 10/4/04 Surface Waters

Sample ID: **CDRAS002 EAG- 1001216**
Sample #: **372744**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	43	2.0	mg/L	10/15/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	10/15/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	10/12/04	TAM	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	10/11/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	0.06	0.05	mg/L	10/07/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	10/07/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	10/11/04	TAM	EPA-375.4/9038
	Residue,Dissolved @ 180*C	58	25	mg/L	10/08/04	INR	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	10/08/04	INR	160.2/SM 2540 D
	Alkalinity, Total	43	2.0	mg/L	10/15/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	<5.0	5.0	mg/L	10/12/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	<1.0	1.0	mg/L	10/08/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	10/07/04	JLB	SDM 5210B
	Color (Apparent)	<5	5	A.C.U.	10/07/04	GEH	USEPA-110.2
	Turbidity	<1.0	1.0	NTU	10/07/04	HLB	USEPA-180.1
	Iron, Total	<20	20	ug/L	10/15/04	DWJ	EPA-200.7/6010B
	Arsenic, Total	<1.0	1.0	ug/L	10/15/04	DSC	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	10/15/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	10/15/04	DSC	EPA-200.8/6020
	Manganese, Total	<10	10	ug/L	10/15/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	10/15/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	15	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
	Potassium, Dissolved	0.56	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
	Magnesium, Dissolved	2.2	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
	Sodium, Dissolved	0.61	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/06/04 @ 15:30
Sampler: R. Eagle
Received: 10/07/04 @ 08:40

Submittal #: **36162-20**
Submittal: Week of 10/4/04 Surface Waters

Sample ID: **DUPS001 EAG- 1001218**
Sample #: **372745**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	40	2.0	mg/L	10/15/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	10/15/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	10/12/04	TAM	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	10/11/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	0.06	0.05	mg/L	10/07/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	10/07/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	10/11/04	TAM	EPA-375.4/9038
	Residue,Dissolved @ 180*C	60	25	mg/L	10/08/04	INR	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	10/08/04	INR	160.2/SM 2540 D
	Alkalinity, Total	40	2.0	mg/L	10/15/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	<5.0	5.0	mg/L	10/12/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	<1.0	1.0	mg/L	10/08/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	10/07/04	JLB	SDM 5210B
	Color (Apparent)	<5	5	A.C.U.	10/07/04	GEH	USEPA-110.2
	Turbidity	<1.0	1.0	NTU	10/07/04	HLB	USEPA-180.1
	Iron, Total	<20	20	ug/L	10/15/04	DWJ	EPA-200.7/6010B
	Arsenic, Total	<1.0	1.0	ug/L	10/15/04	DSC	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	10/15/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	10/15/04	DSC	EPA-200.8/6020
	Manganese, Total	<10	10	ug/L	10/15/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	10/15/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	15	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
	Potassium, Dissolved	0.53	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
	Magnesium, Dissolved	2.1	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
	Sodium, Dissolved	0.86	0.50	mg/L	10/21/04	KLVM	EPA-200.7/6010B

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/06/04 @ 10:15
Sampler: R. Eagle
Received: 10/07/04 @ 08:40

Submittal #: **36162-20**
Submittal: Week of 10/4/04 Surface Waters

Sample ID: **STRES001 EAG-1001212**
Sample #: **372746**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	60	2.0	mg/L	10/15/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	10/15/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	10/12/04	TAM	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	10/11/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	10/07/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	10/07/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	10/11/04	TAM	EPA-375.4/9038
	Residue,Dissolved @ 180*C	79	25	mg/L	10/08/04	INR	160.1/SM 2540 C
	Residue, Suspended	3	3	mg/L	10/08/04	INR	160.2/SM 2540 D
	Alkalinity, Total	60	2.0	mg/L	10/15/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	8.6	5.0	mg/L	10/12/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	2.0	1.0	mg/L	10/08/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	10/07/04	JLB	SDM 5210B
	Color (Apparent)	15	5	A.C.U.	10/07/04	GEH	USEPA-110.2
	Turbidity	1.3	1.0	NTU	10/07/04	HLB	USEPA-180.1
	Iron, Total	94	20	ug/L	10/15/04	DWJ	EPA-200.7/6010B
	Arsenic, Total	1.0	1.0	ug/L	10/15/04	DSC	EPA-200.8/6020
	Barium, Total	11	10	ug/L	10/15/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	10/15/04	DSC	EPA-200.8/6020
	Manganese, Total	11	10	ug/L	10/15/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	10/15/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	19	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
	Potassium, Dissolved	0.52	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
	Magnesium, Dissolved	4.0	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
	Sodium, Dissolved	1.3	0.50	mg/L	10/21/04	KLVM	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/06/04 @ 11:30
Sampler: R. Eagle
Received: 10/07/04 @ 08:40

Submittal #: **36162-20**
Submittal: Week of 10/4/04 Surface Waters

Sample ID: **STRES002 EAG- 1001213**
Sample #: **372747**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	58	2.0	mg/L	10/15/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	10/15/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	10/12/04	TAM	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	10/11/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	10/07/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	10/07/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	10/11/04	TAM	EPA-375.4/9038
	Residue,Dissolved @ 180*C	84	25	mg/L	10/08/04	INR	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	10/08/04	INR	160.2/SM 2540 D
	Alkalinity, Total	58	2.0	mg/L	10/15/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	9.3	5.0	mg/L	10/12/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	2.2	1.0	mg/L	10/09/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	10/07/04	JLB	SDM 5210B
	Color (Apparent)	15	5	A.C.U.	10/07/04	GEH	USEPA-110.2
	Turbidity	1.3	1.0	NTU	10/07/04	HLB	USEPA-180.1
	Iron, Total	79	20	ug/L	10/15/04	DWJ	EPA-200.7/6010B
	Arsenic, Total	1.1	1.0	ug/L	10/15/04	DSC	EPA-200.8/6020
	Barium, Total	11	10	ug/L	10/15/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	10/15/04	DSC	EPA-200.8/6020
	Manganese, Total	<10	10	ug/L	10/15/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	10/15/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	20	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
	Potassium, Dissolved	0.58	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
	Magnesium, Dissolved	4.1	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
	Sodium, Dissolved	1.4	0.50	mg/L	10/21/04	KLVM	EPA-200.7/6010B

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/06/04 @ 11:30
Sampler: R. Eagle
Received: 10/07/04 @ 08:40

Submittal #: **36162-20**
Submittal: Week of 10/4/04 Surface Waters

Sample ID: **DUPS002 EAG- 1001219**
Sample #: **372748**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	60	2.0	mg/L	10/15/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	10/15/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	10/12/04	TAM	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	10/11/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	10/08/04	HLB	353.2/4500 NO3F
*	Nitrogen, Nitrite	<0.05	0.05	mg/L	10/08/04	HLB	354.1/4500 NO2B
	Sulfate	11	5.0	mg/L	10/11/04	TAM	EPA-375.4/9038
	Residue,Dissolved @ 180*C	81	25	mg/L	10/08/04	INR	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	10/08/04	INR	160.2/SM 2540 D
	Alkalinity, Total	60	2.0	mg/L	10/15/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	8.5	5.0	mg/L	10/12/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	2.2	1.0	mg/L	10/09/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	10/07/04	JLB	SDM 5210B
	Color (Apparent)	15	5	A.C.U.	10/07/04	GEH	USEPA-110.2
	Turbidity	1.2	1.0	NTU	10/07/04	HLB	USEPA-180.1
	Iron, Total	110	20	ug/L	10/15/04	DWJ	EPA-200.7/6010B
	Arsenic, Total	1.0	1.0	ug/L	10/15/04	DSC	EPA-200.8/6020
	Barium, Total	12	10	ug/L	10/15/04	DSC	EPA-200.8/6020
	Copper, Total	1.0	1.0	ug/L	10/15/04	DSC	EPA-200.8/6020
	Manganese, Total	<10	10	ug/L	10/15/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	10/15/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	19	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
	Potassium, Dissolved	0.63	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
	Magnesium, Dissolved	4.1	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
	Sodium, Dissolved	1.5	0.50	mg/L	10/21/04	KLVM	EPA-200.7/6010B

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/06/04 @ 13:15
Sampler: R. Eagle
Received: 10/07/04 @ 08:40

Submittal #: **36162-20**
Submittal: Week of 10/4/04 Surface Waters

Sample ID: **STRWS001 EAG- 1001211**
Sample #: **372749**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	59	2.0	mg/L	10/15/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	10/15/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	10/12/04	TAM	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	10/11/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	10/08/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	10/08/04	HLB	354.1/4500 NO2B
	Sulfate	<5.0	5.0	mg/L	10/11/04	TAM	EPA-375.4/9038
	Residue,Dissolved @ 180*C	90	25	mg/L	10/08/04	INR	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	10/08/04	INR	160.2/SM 2540 D
	Alkalinity, Total	59	2.0	mg/L	10/15/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	15	5.0	mg/L	10/12/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	4.8	1.0	mg/L	10/09/04	SAJ	4151/5310D/9060
	BOD, (5-Day)	1.5	1.0	mg/L	10/07/04	JLB	SDM 5210B
	Color (Apparent)	25	5	A.C.U.	10/07/04	GEH	USEPA-110.2
	Turbidity	1.3	1.0	NTU	10/07/04	HLB	USEPA-180.1
	Iron, Total	350	20	ug/L	10/15/04	DWJ	EPA-200.7/6010B
	Arsenic, Total	<1.0	1.0	ug/L	10/15/04	DSC	EPA-200.8/6020
	Barium, Total	15	10	ug/L	10/15/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	10/15/04	DSC	EPA-200.8/6020
	Manganese, Total	33	10	ug/L	10/15/04	DSC	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	10/15/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	20	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
	Potassium, Dissolved	0.73	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
	Magnesium, Dissolved	3.5	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
	Sodium, Dissolved	1.5	0.50	mg/L	10/21/04	KLVM	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

End of Analytical Report

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Bicarbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/08/04	222674	VAS	<2.0
10/15/04	223086	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/08/04	222674	VAS	238	223	94	93-105
10/15/04	223086	VAS	238	229	96	93-105

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Carbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/08/04	222674	VAS	<2.0
10/15/04	223086	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/08/04	222674	VAS	377	289	77	77-110
10/15/04	223086	VAS	377	330	88	77-110

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Total**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/08/04	222674	VAS	<2.0
10/15/04	223086	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/08/04	222674	VAS	238	223	94	92-105
10/15/04	223086	VAS	238	229	96	92-105

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Total-SPLP**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B SPLP
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/15/04	223086	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/15/04	223086	VAS	238	229	**96**	0- 0

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/08/04	222685	DSC	<200

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/12/04	222808	DSC	<1.0
10/15/04	223036	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/12/04	222808	DSC	40	42.0	105	90-110
10/15/04	223036	DSC	40	41.8	105	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/12/04	99712	DSC	<1.0
10/15/04	99712	DSC	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/12/04	99712	DSC	25	25.0	100	85-115
10/15/04	99712	DSC	25	24.5	98	85-115

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/08/04	222685	DSC	<10

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/12/04	222808	DSC	<5.0
10/15/04	223038	DSC	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/12/04	222808	DSC	40	41.6	104	90-110
10/15/04	223038	DSC	40	41.7	104	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/12/04	99712	DSC	<10
10/15/04	99712	DSC	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/12/04	99712	DSC	25	26.9	108	86-119
10/15/04	99712	DSC	25	25.7	103	86-119

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QUALITY CONTROL REPORT

Parameter: **BOD, (5-Day)**
Method: Biochemical Oxygen Demand SDM 5210B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/06/04	222827	JLB	<1.0
10/07/04	222857	JLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/06/04	222827	JLB	198	198	100	85-115
10/07/04	222857	JLB	198	200	101	85-115

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QUALITY CONTROL REPORT

Parameter: **Carbon, Total Organic**
Method: Organic Carbon, Total 4151/5310D/9060 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/06/04	222586	SAJ	<1.0
10/08/04	222663	SAJ	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/06/04	222586	SAJ	25	24.3	97	90-110
10/08/04	222663	SAJ	25	24.2	97	90-110

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QUALITY CONTROL REPORT

Parameter: **Chemical Oxygen Demand**
Method: Closed Reflux, Colorimetric Method 410.4/SM 5220 D WATER
Units: mg/L

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/12/04	99947	JMJ	<5.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/12/04	99947	JMJ	30	30	100	90-110

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QUALITY CONTROL REPORT

Parameter: **Chloride**
Method: Colorimetric, Automated Ferricyanide 325.2/4500-CL E WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/05/04	222626	TAM	<1.0
10/12/04	223029	TAM	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/05/04	222626	TAM	78.1	78.03	100	92-109
10/12/04	223029	TAM	78.1	79.89	102	92-109

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QUALITY CONTROL REPORT

Parameter: **Color (Apparent)**
Method: Colorimetric, Platinum-Cobalt USEPA-110.2 WATER
Units: A.C.U.

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/05/04	222550	GEH	<5
10/07/04	223007	GEH	<5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/05/04	222550	GEH	25	25	100	80-120
10/07/04	223007	GEH	50	50	100	80-120

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/08/04	222685	DSC	<10
10/15/04	223062	DWJ	<10

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/12/04	222808	DSC	<1.0
10/15/04	223036	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/12/04	222808	DSC	40	42.6	107	90-110
10/15/04	223036	DSC	40	42.5	106	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/12/04	99712	DSC	<1.0
10/15/04	99712	DSC	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/12/04	99712	DSC	25	27.7	111	86-123
10/15/04	99712	DSC	25	25.3	101	86-123

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QUALITY CONTROL REPORT

Parameter: **Iron, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/08/04	222685	DSC	<20
10/15/04	223062	DWJ	<20
10/20/04	223279	KLVM	<20
10/20/04	223292	KLVM	<20

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/08/04	222685	DSC	500	521	104	90-110
10/15/04	223062	DWJ	500	499	100	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/08/04	99774	DSC	<20
10/15/04	100113	DWJ	<20

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/08/04	99774	DSC	250	255	102	83-118
10/15/04	100113	DWJ	250	273	109	83-118

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QUALITY CONTROL REPORT

Parameter: **Magnesium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/08/04	222685	DSC	<0.50
10/15/04	223062	DWJ	<0.50
10/20/04	223292	KLVM	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/08/04	222685	DSC	5.0	5.18	104	90-110
10/20/04	223292	KLVM	5.0	5.01	100	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/08/04	99864	DSC	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/08/04	99864	DSC	12.5	13.5	108	87-115

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/08/04	222685	DSC	<10
10/15/04	223062	DWJ	<10
10/20/04	223292	KLVM	<10

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/12/04	222808	DSC	<10
10/15/04	223038	DSC	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/12/04	222808	DSC	40	41.9	105	90-110
10/15/04	223038	DSC	40	41.9	105	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/12/04	99712	DSC	<10
10/15/04	99712	DSC	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/12/04	99712	DSC	25	28.0	112	86-124
10/15/04	99712	DSC	25	26.4	106	86-124

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/15/04	223062	DWJ	<10

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/12/04	222808	DSC	<1.0
10/15/04	223036	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/12/04	222808	DSC	40	43.0	108	90-110
10/15/04	223036	DSC	40	41.8	105	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/12/04	99712	DSC	<1.0
10/15/04	99712	DSC	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/12/04	99712	DSC	25	26.3	105	84-117
10/15/04	99712	DSC	25	24.8	99	84-117

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Ammonia**
Method: Colorimetric, Automated Phenate 350.1/4500 NH3G WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/06/04	222677	GEH	<0.02
10/11/04	222802	GEH	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/06/04	222677	GEH	0.765	0.784	102	90-110
10/11/04	222802	GEH	0.765	0.784	102	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrate**
Method: Colorimetric, Auto-Cadmium Reduction 353.2/4500 NO3F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/07/04	222773	HLB	<0.05
10/08/04	223147	HLB	<0.05
10/10/04	222789	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/07/04	222773	HLB	0.624	0.639	102	90-110
10/08/04	223147	HLB	0.624	0.645	103	90-110
10/10/04	222789	HLB	0.624	0.640	103	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrite**
Method: Colorimetric, Automated USEPA-353.2 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/07/04	222779	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/07/04	222779	HLB	0.50	0.49	98	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrite**
Method: Nitrite - Spectrophotometric 354.1/4500 NO2B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/06/04	222895	HLB	<0.01
10/08/04	222950	HLB	<0.01

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/06/04	222895	HLB	0.25	0.27	108	89-115
10/08/04	222950	HLB	0.25	0.27	108	89-115

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QUALITY CONTROL REPORT

Parameter: **Potassium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/08/04	222685	DSC	<0.20
10/15/04	223062	DWJ	<0.10
10/20/04	223292	KLVM	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/08/04	222685	DSC	5.0	5.24	105	90-110
10/20/04	223292	KLVM	5.0	4.84	97	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/08/04	99864	DSC	<0.20

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/08/04	99864	DSC	12.5	14.4	115	87-125

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QUALITY CONTROL REPORT

Parameter: **Residue,Dissolved @ 180*C**
Method: Residue-Gravimetric, Dried @ 180*C 160.1/SM 2540 C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/06/04	222780	INR	<2.5
10/08/04	223015	INR	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/06/04	222780	INR	1000	942	94	90-108
10/08/04	223015	INR	1000.0	1020	102	90-108
10/08/04	223015	INR	1000.0	979	98	90-108
10/08/04	223015	INR	1000.0	967	97	90-108

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QUALITY CONTROL REPORT

Parameter: **Residue, Suspended**
Method: Residue-Gravimetric, Dried @ 103-105*C 160.2/SM 2540 D WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/06/04	222807	INR	<2.5
10/08/04	222799	INR	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/06/04	222807	INR	1000	999	100	89-106
10/06/04	222807	INR	1000	969	97	89-106
10/08/04	222799	INR	1000.0	989	99	89-106
10/08/04	222799	INR	1000.0	921	92	89-106

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QUALITY CONTROL REPORT

Parameter: **Sodium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/08/04	222685	DSC	<0.50
10/15/04	223062	DWJ	<0.50
10/20/04	223279	KLVM	<0.50
10/21/04	223278	KLVM	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/08/04	222685	DSC	5.0	4.99	100	90-110
10/20/04	223279	KLVM	5.0	5.00	100	90-110
10/21/04	223278	KLVM	5.0	5.24	105	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/08/04	99864	DSC	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/08/04	99864	DSC	12.5	13.5	108	86-117

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QUALITY CONTROL REPORT

Parameter: **Sulfate**
Method: Turbidimetric Method (Manual) EPA-375.4/9038 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/05/04	222615	TAM	<5.0
10/11/04	223033	TAM	<5.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/05/04	222615	TAM	15.8	15.8	100	85-113
10/11/04	223033	TAM	15.8	16.9	107	85-113

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QUALITY CONTROL REPORT

Parameter: **Turbidity**
Method: Nephelometric USEPA-180.1 WATER
Units: NTU

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/05/04	222900	HLB	<1.0
10/07/04	222944	HLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/05/04	222900	HLB	402	399	99	90-110
10/07/04	222944	HLB	402	396	99	90-110

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TriMatrix Laboratories, Inc.

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www.trimatrixlabs.com

Chain of Custody Record

COC No. 102698

Page 1 of 1

For Lab Use Only

Cart: 8
VOA Rack/Tray:
Receipt Log No.: 1502
Project Chemist: JVL
Laboratory Project No.: 36162-20

Client Name: North Jackson Co.
Address: PO Box 30, 420 Rail St, Negaunee, MI 49866
Phone: 906-475-9739
Fax:

Project Name: Eagle
Client Project No. / P.O. No.:
Invoice To: ☐ Client ☒ Other (comments)
Contact/Report To: Dan Wiitala

Analyses Requested

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type A	B	C	D	Total	Sample Comments
			Number of Containers Submitted							2	2	1	3		
06	WS	372354	1 STRMS001 EAG-1001206	TMC476	10-4-04	11:00		X	WTR						
		372355	2 STRMS002 EAG-1001207	↓		12:15									
		372356	3 STRMS003 EAG-1001208	TMC435		15:00									
		372357	4 YORMS002 EAG-1001214	TMC476		09:00									
		372358	5 CORMS004 EAG-1001217	TMC435		13:40									
			6 ~~DUPS001~~ EAG-1001218												
			7												
			8												
			9												
			10												

Sampled By (print): Richard Eagle
Sampler's Signature: Richard R Eagle
Company: North Jackson Co

How Shipped? Hand Carrier FedEx
Tracking No. 790782437965
790782429875

Comments: Bill Jon Cheryl KEK

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
Richard R Eagle	10/4/04	17:20						
1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
						Jim Parker	10/5/04	8 55

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Chain of Custody Record

COC No. 102699

Page 1 of 1

For Lab Use Only
Cart: 4
VOA Rack/Tray: N/A
Receipt Log No.: 19-L
Project Chemist: JVZ
Laboratory Project No.: 36102 20

Client Name: North Jackson Company
Address: PO Box 30
Negaunee, MI 49866
Phone: 906-475-9865
Fax: 906-475-0238

Project Name: Eagle
Client Project No. / P.O. No.:
Invoice To: ☐ Client ☒ Other (comments)
Contact/Report To: Dan Wiitala

Analyses Requested

	3	6	4								
		15	11								
	See e-mail for analysis request										
Container Type (corresponds to Container Packing List)	A	B	C	D							
Number of Containers Submitted											Total
1 STRMS004 (EAG-1001209)	2	2	1	3							8
2 STRMS005 (EAG-1001210)											8
3 CDRAS002 (EAG-1001216)											8
4 DUPS001 (EAG-1001218)											8
5 STRES001 (EAG-1001212)											8
6 STRES002 (EAG-1001213)											8
7 DUPS002 (EAG-1001219)											8
8 STRMS001 (EAG-1001211)											8
9											
10											

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Sample Comments
06	WS	372742	STRMS004 (EAG-1001209)	2 of 2	10-6	13:45		X	WTR	
		372743	STRMS005 (EAG-1001210)	1 of 2	10-6	8:45				
		372744	CDRAS002 (EAG-1001216)	1 of 2	10-6	15:30				
		372745	DUPS001 (EAG-1001218)	2 of 2	10-6	15:30				
		372746	STRES001 (EAG-1001212)	1 of 2	10-6	10:15				
		372747	STRES002 (EAG-1001213)	2 of 2	10-6	11:30				
		372748	DUPS002 (EAG-1001219)	1 of 2	10-6	11:30				
		372749	STRMS001 (EAG-1001211)	2 of 2	10-6	13:15				

Sampled By (print): Richard Eagle
Sampler's Signature: Richard R Eagle
Company: North Jackson Co.

How Shipped? Hand Carrier FedEx
Tracking No. 7907 8670 1979
7907 8244 3879

Comments: Invoice to Jon Cherry, KMC

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
Richard R Eagle	10/6/04	18:30						
1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
						BF	10-7-04	08:40

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October 22, 2004

North Jackson Company
Attn: Mr. Peter Sabee
420 Rail Street
Negaunee, MI 49866

RE: Eagle
Submittal Number: 36162-21

Dear Mr. Peter Sabee:

Enclosed is a copy of your laboratory report for test samples received by our laboratory on October 7, 2004.

Please note that the test results of the enclosed analyses relate only to the sample(s) as received at the laboratory, and are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC) standards. Qualification of test standards, including sample acceptance requirements, are presented within the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosure(s)

The total number of pages in this report, including this page, is 31.

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STATEMENT OF DATA QUALIFICATIONS

All analyses have been validated and comply with our Quality Control Program. No qualifications required.

Page 1 - **End of Statement of Data Qualifications**

Note: This document is included as a part of the analytical report for the above referenced project and submittal, and should be retained as a permanent record thereof.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/06/04 @ 10:55
Sampler: P. Kero
Received: 10/07/04 @ 08:40

Submittal #: **36162-21**
Submittal: October 2004 GW Samples

Sample ID: **QALM006B EAG- 1001199**
Sample #: **372750**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	85	2.0	mg/L	10/19/04	JLB	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	10/19/04	JLB	310.1/SM 2320 B
Chloride	2.1	1.0	mg/L	10/12/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	10/11/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	10/08/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	10/07/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	131	50	mg/L	10/08/04	INR	160.1/SM 2540 C
Calcium, Dissolved	18	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.67	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	5.7	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	2.4	0.50	mg/L	10/21/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	10/20/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	10/21/04	DSC	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	10/21/04	DSC	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	10/21/04	DSC	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	10/21/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	10/21/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	10/21/04	DSC	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	10/21/04	DSC	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	10/20/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	10/21/04	DSC	EPA-200.8/6020
Iron, Dissolved	14400	20	ug/L	10/20/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	10/20/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	150	20	ug/L	10/20/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	10/21/04	DSC	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	10/21/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	10/21/04	DSC	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	10/21/04	DSC	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	10/21/04	DSC	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	10/21/04	DSC	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/06/04 @ 12:27
Sampler: P. Kero
Received: 10/07/04 @ 08:40

Submittal #: **36162-21**
Submittal: October 2004 GW Samples

Sample ID: **QALM005A EAG- 1001196**
Sample #: **372751**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	6.1	2.0	mg/L	10/19/04	JLB	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	10/19/04	JLB	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	10/12/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	10/11/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	10/08/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	10/07/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	10/08/04	INR	160.1/SM 2540 C
Calcium, Dissolved	1.1	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.71	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	10/20/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	0.89	0.50	mg/L	10/21/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	10/20/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	10/21/04	DSC	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	10/21/04	DSC	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	10/21/04	DSC	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	10/21/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	10/21/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	10/21/04	DSC	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	10/21/04	DSC	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	10/20/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	10/21/04	DSC	EPA-200.8/6020
Iron, Dissolved	380	20	ug/L	10/20/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	10/20/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	10/20/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	10/21/04	DSC	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	10/21/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	10/21/04	DSC	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	10/21/04	DSC	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	10/21/04	DSC	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	10/21/04	DSC	EPA-200.8/6020

End of Analytical Report

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Bicarbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/19/04	223181	JLB	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/19/04	223181	JLB	238	247	104	93-105

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Carbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/19/04	223181	JLB	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/19/04	223181	JLB	377	385	102	77-110

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QUALITY CONTROL REPORT

Parameter: **Aluminum, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/20/04	223292	KLVM	<100

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/20/04	223292	KLVM	2500	2489	100	90-110

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QUALITY CONTROL REPORT

Parameter: **Antimony, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/21/04	223347	DSC	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/21/04	223347	DSC	40	38.0	95	90-110

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/21/04	223347	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/21/04	223347	DSC	40	40.6	102	90-110

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/21/04	223347	DSC	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/21/04	223347	DSC	40	38.4	96	90-110

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QUALITY CONTROL REPORT

Parameter: **Beryllium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/21/04	223346	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/21/04	223346	JMF	40	43.5	109	90-110

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QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/21/04	223347	DSC	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/21/04	223347	DSC	40	42.3	106	90-110

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QUALITY CONTROL REPORT

Parameter: **Chloride**
Method: Colorimetric, Automated Ferricyanide 325.2/4500-CL E WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/12/04	223029	TAM	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/12/04	223029	TAM	78.1	79.89	102	92-109

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QUALITY CONTROL REPORT

Parameter: **Chromium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/21/04	223347	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/21/04	223347	DSC	40	42.1	105	90-110

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QUALITY CONTROL REPORT

Parameter: **Cobalt, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/20/04	223292	KLVM	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/20/04	223292	KLVM	500	498	100	90-110

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/21/04	223347	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/21/04	223347	DSC	40	39.1	98	90-110

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Individual sample results relate only to the sample tested.

QUALITY CONTROL REPORT

Parameter: **Fluoride**
Method: Potentiometric, Ion Selective Electrode SM 4500 F-C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/08/04	222790	VAS	<0.10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/08/04	222790	VAS	3.43	3.24	94	88-116

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QUALITY CONTROL REPORT

Parameter: **Iron, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/20/04	223292	KLVM	<20

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/20/04	223292	KLVM	500	508	102	90-110

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QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/21/04	223347	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/21/04	223347	DSC	40	40.6	102	90-110

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QUALITY CONTROL REPORT

Parameter: **Lithium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/20/04	223292	KLVM	<20

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/20/04	223292	KLVM	500	488	98	90-110

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QUALITY CONTROL REPORT

Parameter: **Magnesium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/20/04	223292	KLVM	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/20/04	223292	KLVM	5.0	5.01	100	90-110

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/20/04	223292	KLVM	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/20/04	223292	KLVM	500	502	100	90-110

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/21/04	223346	JMF	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/21/04	223346	JMF	40	40.7	102	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrate**
Method: Colorimetric, Auto-Cadmium Reduction 353.2/4500 NO3F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/07/04	222773	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/07/04	222773	HLB	0.624	0.639	102	90-110

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QUALITY CONTROL REPORT

Parameter: **Potassium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/20/04	223292	KLVM	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/20/04	223292	KLVM	5.0	4.84	97	90-110

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QUALITY CONTROL REPORT

Parameter: **Residue,Dissolved @ 180*C**
Method: Residue-Gravimetric, Dried @ 180*C 160.1/SM 2540 C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/08/04	223015	INR	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/08/04	223015	INR	1000.0	1020	102	90-108
10/08/04	223015	INR	1000.0	979	98	90-108
10/08/04	223015	INR	1000.0	967	97	90-108

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QUALITY CONTROL REPORT

Parameter: **Selenium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/21/04	223347	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/21/04	223347	DSC	40	40.5	101	90-110

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QUALITY CONTROL REPORT

Parameter: **Silver, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/21/04	223347	DSC	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/21/04	223347	DSC	40	40.3	101	90-110

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QUALITY CONTROL REPORT

Parameter: **Sodium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/21/04	223278	KLVM	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/21/04	223278	KLVM	5.0	5.24	105	90-110

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QUALITY CONTROL REPORT

Parameter: **Sulfate**
Method: Turbidimetric Method (Manual) EPA-375.4/9038 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/11/04	223033	TAM	<5.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/11/04	223033	TAM	15.8	16.9	107	85-113

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QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/21/04	223347	DSC	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/21/04	223347	DSC	40	40.3	101	90-110

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TriMatrix Laboratories, Inc.

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Phone (616) 975-4500 Fax (616) 942-7463
www.trimatrixlabs.com

Chain of Custody Record

COC No. 104396

Page 1 of 1

For Lab Use Only
Cart: 4 (Bottom)
VOA Rack/Tray: NA
Receipt Log No.: 19-6
Project Chemist: JK
Laboratory Project No.: 36162-21

Client Name: North Jackson Co.
Address: PO Box 30
Negaunee, MI 49866
Phone: 906-475-9865
Fax: 906-475-0238

Project Name: Eagle
Client Project No. / P.O. No.:
Invoice To: ☐ Client ☒ Other (comments)
Contact/Report To: Dan Wittala

Analyses Requested

See e-mail for list of ground-water parameters

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

	Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List) 3	15	Total	Sample Comments
											Number of Containers Submitted			
1	04	W	372750	QALM006B, EAG-1001199	TMO342 1 of 1	10/6/04	10:55		X	WTR	3	1	4	
2	↓	1	372751	QALM005A, EAG-1001196	1 of 1	10/6/04	12:27		X	WTR	3	1	4	
3														
4														
5														
6														
7														
8														
9														
10														

Sampled By (print): Pete Kero
Sampler's Signature: Pete Kero
Company: North Jackson C.

How Shipped? Hand Carrier FedEx
Tracking No.: 7907 8714 4240

Comments: Invoice to Jon Cherry, KMC

	1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
	Pete Kero	10/6/04	16:30						
	1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
							JAK	10-7-04	08:40

TriMatrixCOC -- COC WHITE COPY - REPORT YELLOW COPY - LABORATORY PINK COPY - FIELD

October 29, 2004

North Jackson Company
Attn: Mr. Peter Sabee
420 Rail Street
Negaunee, MI 49866

RE: Eagle
Submittal Number: 36162-23

Dear Mr. Peter Sabee:

Enclosed is a copy of your laboratory report for test samples received by our laboratory on October 14, 2004.

Please note that the test results of the enclosed analyses relate only to the sample(s) as received at the laboratory, and are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC) standards. Qualification of test standards, including sample acceptance requirements, are presented within the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosure(s)

The total number of pages in this report, including this page, is 63.

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Carbon, Total Organic**
Organic Carbon, Total
WATER 4151/5310D/9060

Qualification:

The analytical requirements of the method require quadruplicate analysis on every sample submitted for TOC testing. The reporting requirements require both the average and the range of the four analyses be reported. The result reported is the average; the range of the replicates is:

Explanation for Sample(s) listed below:

0.035 - 0.067

Sample(s) Qualified:	373161	FBKS002	EAG-	1001224

Explanation for Sample(s) listed below:

0.040 - 0.085

Sample(s) Qualified:	373281	FBKS001	EAG-	1001193

Explanation for Sample(s) listed below:

0.080 - 0.156

Sample(s) Qualified:	373160	FBKS001	EAG-	1001223

Explanation for Sample(s) listed below:

7.481 - 7.826

Sample(s) Qualified:	373354	YDRMS003	EAG-	1001215

Page 1 - **End of Statement of Data Qualifications**

Note: This document is included as a part of the analytical report for the above referenced project and submittal, and should be retained as a permanent record thereof.

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CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

4.16

Sample(s) Narrated:	373281	FBKS001	EAG-	1001193

Explanation for Sample(s) listed below:

4.60

Sample(s) Narrated:	373161	FBKS002	EAG-	1001224

Explanation for Sample(s) listed below:

5.44

Sample(s) Narrated:	373160	FBKS001	EAG-	1001223

Explanation for Sample(s) listed below:

6.81

Sample(s) Narrated:	373354	YDRMS003	EAG-	1001215

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CASE NARRATIVE

Analysis: **BOD, (5-Day)**
Biochemical Oxygen Demand
WATER SDM 5210B

Narrative:

The reported Biochemical Oxygen Demand result for this sample was calculated on an oxygen depletion of <2.0 mg/l

Sample(s) Narrated: 373354 YDRMS003 EAG- 1001215

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/11/04 @ 10:30
Sampler: P. Sabee
Received: 10/12/04 @ 08:40

Submittal #: **36162-23**
Submittal: 10/11-13/04 Samples

Sample ID: **FBKM002 EAG- 1001205**
Sample #: **373157**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	<2.0	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	10/13/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	10/13/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	10/22/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	10/13/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	10/14/04	INR	160.1/SM 2540 C

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/11/04 @ 10:00
Sampler: P. Sabee
Received: 10/12/04 @ 08:40

Submittal #: **36162-23**
Submittal: 10/11-13/04 Samples

Sample ID: **EQBS001 EAG- 1001221**
Sample #: **373158**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Calcium, Dissolved	<0.50	0.50	mg/L	10/27/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	10/27/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	10/27/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	10/28/04	DWJ	EPA-200.7/6010B

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/11/04 @ 10:15
Sampler: P. Sabee
Received: 10/12/04 @ 08:40

Submittal #: **36162-23**
Submittal: 10/11-13/04 Samples

Sample ID: **EQBS002 EAG- 1001222**
Sample #: **373159**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Calcium, Dissolved	<0.50	0.50	mg/L	10/27/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	10/27/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	10/27/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	10/28/04	DWJ	EPA-200.7/6010B

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/11/04 @ 10:45
Sampler: P. Sabee
Received: 10/12/04 @ 08:40

Submittal #: **36162-23**
Submittal: 10/11-13/04 Samples

Sample ID: **FBKS001 EAG- 1001223**
Sample #: **373160**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	<2.0	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	10/13/04	TAM	325.2/4500-CL E
Nitrogen, Ammonia	<0.05	0.05	mg/L	10/13/04	GEH	350.1/4500 NH3G
Nitrogen, Nitrate	<0.05	0.05	mg/L	10/13/04	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	10/13/04	HLB	USEPA-353.2
Sulfate	<5.0	5.0	mg/L	10/13/04	TAM	EPA-375.4/9038
Residue,Dissolved @ 180*C	<20	20	mg/L	10/14/04	INR	160.1/SM 2540 C
Residue, Suspended	<3	3	mg/L	10/14/04	INR	160.2/SM 2540 D
Alkalinity, Total	<2.0	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
Chemical Oxygen Demand	<5.0	5.0	mg/L	10/15/04	JMJ	410.4/SM 5220 D
* Carbon, Total Organic	<1.0	1.0	mg/L	10/12/04	SAJ	4151/5310D/9060
BOD, (5-Day)	<1.0	1.0	mg/L	10/13/04	JLB	SDM 5210B
Color (Apparent)	<5	5	A.C.U.	10/13/04	GEH	USEPA-110.2
Turbidity	<1.0	1.0	NTU	10/12/04	HLB	USEPA-180.1
Iron, Total	<20	20	ug/L	10/16/04	DWJ	EPA-200.7/6010B
Arsenic, Total	<1.0	1.0	ug/L	10/22/04	JMF	EPA-200.8/6020
Barium, Total	<10	10	ug/L	10/22/04	JMF	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	10/22/04	JMF	EPA-200.8/6020
Manganese, Total	<10	10	ug/L	10/22/04	JMF	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	10/22/04	JMF	EPA-200.8/6020

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/11/04 @ 11:00
Sampler: P. Sabee
Received: 10/12/04 @ 08:40

Submittal #: **36162-23**
Submittal: 10/11-13/04 Samples

Sample ID: **FBKS002 EAG- 1001224**
Sample #: **373161**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	<2.0	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	10/13/04	TAM	325.2/4500-CL E
Nitrogen, Ammonia	<0.05	0.05	mg/L	10/13/04	GEH	350.1/4500 NH3G
Nitrogen, Nitrate	<0.05	0.05	mg/L	10/13/04	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	10/13/04	HLB	USEPA-353.2
Sulfate	<5.0	5.0	mg/L	10/13/04	TAM	EPA-375.4/9038
Residue,Dissolved @ 180*C	<20	20	mg/L	10/14/04	INR	160.1/SM 2540 C
Residue, Suspended	<3	3	mg/L	10/14/04	INR	160.2/SM 2540 D
Alkalinity, Total	<2.0	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
Chemical Oxygen Demand	<5.0	5.0	mg/L	10/15/04	JMJ	410.4/SM 5220 D
* Carbon, Total Organic	<1.0	1.0	mg/L	10/12/04	SAJ	4151/5310D/9060
BOD, (5-Day)	<1.0	1.0	mg/L	10/13/04	JLB	SDM 5210B
Color (Apparent)	<5	5	A.C.U.	10/13/04	GEH	USEPA-110.2
Turbidity	<1.0	1.0	NTU	10/12/04	HLB	USEPA-180.1
Iron, Total	<20	20	ug/L	10/16/04	DWJ	EPA-200.7/6010B
Arsenic, Total	<1.0	1.0	ug/L	10/22/04	JMF	EPA-200.8/6020
Barium, Total	<10	10	ug/L	10/22/04	JMF	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	10/22/04	JMF	EPA-200.8/6020
Manganese, Total	<10	10	ug/L	10/22/04	JMF	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	10/22/04	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/11/04 @ 10:45
Sampler: P. Sabee
Received: 10/12/04 @ 08:40

Submittal #: **36162-23**
Submittal: 10/11-13/04 Samples

Sample ID: **FBKM001 EAG- 1001204**
Sample #: **373162**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	<2.0	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	10/13/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	10/13/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	10/22/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	10/13/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	10/14/04	INR	160.1/SM 2540 C

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/12/04 @ 10:25
Sampler: P. Sabee
Received: 10/13/04 @ 09:00

Submittal #: **36162-23**
Submittal: 10/11-13/04 Samples

Sample ID: **EQBM001 EAG- 1001202**
Sample #: **373279**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Calcium, Dissolved	<0.50	0.50	mg/L	10/27/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	10/27/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	10/27/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	10/28/04	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	10/27/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	10/27/04	DSC	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	10/27/04	DSC	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	10/27/04	DSC	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	10/27/04	DSC	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	10/27/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	10/27/04	DSC	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	10/27/04	DSC	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	10/27/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	10/27/04	DSC	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	10/27/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	10/27/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	10/27/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	10/27/04	DSC	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	10/27/04	DSC	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	10/27/04	DSC	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	10/27/04	DSC	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	10/27/04	DSC	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	10/27/04	DSC	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/12/04 @ 10:00
Sampler: P. Sabee
Received: 10/13/04 @ 09:00

Submittal #: **36162-23**
Submittal: 10/11-13/04 Samples

Sample ID: **EQBS001 EAG- 1001192**
Sample #: **373280**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Calcium, Dissolved	<0.50	0.50	mg/L	10/27/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	10/27/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	10/27/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	10/28/04	DWJ	EPA-200.7/6010B

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/12/04 @ 10:10
Sampler: P. Sabee
Received: 10/13/04 @ 09:00

Submittal #: **36162-23**
Submittal: 10/11-13/04 Samples

Sample ID: **FBKS001 EAG- 1001193**
Sample #: **373281**
Matrix: QC Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	<2.0	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	10/19/04	TAM	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	10/13/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	10/13/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	10/13/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	10/19/04	TAM	EPA-375.4/9038
	Residue,Dissolved @ 180*C	<20	20	mg/L	10/14/04	INR	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	10/14/04	INR	160.2/SM 2540 D
	Alkalinity, Total	<2.0	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	<5.0	5.0	mg/L	10/15/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	<1.0	1.0	mg/L	10/14/04	GEH	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	10/14/04	JLB	SDM 5210B
	Color (Apparent)	<5	5	A.C.U.	10/13/04	GEH	USEPA-110.2
	Turbidity	<1.0	1.0	NTU	10/13/04	HLB	USEPA-180.1
	Iron, Total	<20	20	ug/L	10/16/04	DWJ	EPA-200.7/6010B
	Arsenic, Total	<1.0	1.0	ug/L	10/22/04	JMF	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	10/22/04	JMF	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	10/22/04	JMF	EPA-200.8/6020
	Manganese, Total	<10	10	ug/L	10/22/04	JMF	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	10/22/04	JMF	EPA-200.8/6020

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/12/04 @ 11:00
Sampler: P. Sabee
Received: 10/13/04 @ 09:00

Submittal #: **36162-23**
Submittal: 10/11-13/04 Samples

Sample ID: **EQBM002 EAG- 1001203**
Sample #: **373282**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Calcium, Dissolved	<0.50	0.50	mg/L	10/27/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	10/27/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	10/27/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	10/28/04	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	10/27/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	10/27/04	DSC	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	10/27/04	DSC	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	10/27/04	DSC	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	10/27/04	DSC	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	10/27/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	10/27/04	DSC	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	10/27/04	DSC	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	10/27/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	10/27/04	DSC	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	10/27/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	10/27/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	10/27/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	10/27/04	DSC	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	10/27/04	DSC	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	10/27/04	DSC	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	10/27/04	DSC	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	10/27/04	DSC	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	10/27/04	DSC	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/13/04 @ 13:45
Sampler: P. Sabee
Received: 10/14/04 @ 08:50

Submittal #: **36162-23**
Submittal: 10/11-13/04 Samples

Sample ID: **YDRMS003 EAG- 1001215**
Sample #: **373354**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	31	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	10/19/04	TAM	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	10/21/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	10/15/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	10/15/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	10/19/04	TAM	EPA-375.4/9038
	Residue,Dissolved @ 180*C	69	20	mg/L	10/18/04	INR	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	10/18/04	INR	160.2/SM 2540 D
	Alkalinity, Total	31	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	21	5.0	mg/L	10/18/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	7.7	1.0	mg/L	10/18/04	GEH	4151/5310D/9060
	BOD, (5-Day)	1.4	1.0	mg/L	10/14/04	JLB	SDM 5210B
	Color (Apparent)	60	5	A.C.U.	10/14/04	GEH	USEPA-110.2
	Turbidity	1.6	1.0	NTU	10/15/04	HLB	USEPA-180.1
	Iron, Total	460	20	ug/L	10/16/04	DWJ	EPA-200.7/6010B
	Arsenic, Total	<1.0	1.0	ug/L	10/22/04	JMF	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	10/22/04	JMF	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	10/22/04	JMF	EPA-200.8/6020
	Manganese, Total	24	10	ug/L	10/22/04	JMF	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	10/22/04	JMF	EPA-200.8/6020
	Calcium, Dissolved	11	0.50	mg/L	10/27/04	KLVM	EPA-200.7/6010B
	Potassium, Dissolved	0.54	0.50	mg/L	10/27/04	KLVM	EPA-200.7/6010B
	Magnesium, Dissolved	2.4	0.50	mg/L	10/27/04	KLVM	EPA-200.7/6010B
	Sodium, Dissolved	<0.50	0.50	mg/L	10/28/04	DWJ	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

End of Analytical Report

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Bicarbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/21/04	223374	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/21/04	223374	VAS	238	235	99	93-105

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Carbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/21/04	223374	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/21/04	223374	VAS	377	377	100	77-110

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Total**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/21/04	223374	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/21/04	223374	VAS	238	235	99	92-105

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QUALITY CONTROL REPORT

Parameter: **Aluminum, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/27/04	223665	KLVM	<100

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/27/04	223665	KLVM	2500	2521	101	90-110

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QUALITY CONTROL REPORT

Parameter: **Antimony, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/22/04	223411	JMF	<2.0
10/27/04	223634	DSC	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/27/04	223634	DSC	40	41.2	103	90-110

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/16/04	223090	DWJ	<200

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/22/04	223411	JMF	<1.0
10/27/04	223634	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/22/04	223411	JMF	40	39.6	99	90-110
10/27/04	223634	DSC	40	42.2	106	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/22/04	100339	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/22/04	100339	JMF	25	24.7	99	85-115

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/16/04	223090	DWJ	<10

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/22/04	223411	JMF	<10
10/27/04	223621	DSC	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/22/04	223411	JMF	40	40.2	101	90-110
10/27/04	223621	DSC	40	42.3	106	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/22/04	100339	JMF	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/22/04	100339	JMF	25	26.2	105	86-119

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QUALITY CONTROL REPORT

Parameter: **Beryllium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/27/04	223620	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/27/04	223620	DSC	40	43.2	108	90-110

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QUALITY CONTROL REPORT

Parameter: **BOD, (5-Day)**
Method: Biochemical Oxygen Demand SDM 5210B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/13/04	223100	JLB	<1.0
10/14/04	223394	JLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/13/04	223100	JLB	198	184	93	85-115
10/14/04	223394	JLB	198	180	91	85-115

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QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/16/04	223090	DWJ	<10
10/27/04	223665	KLVM	<10

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QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/22/04	223411	JMF	<0.2
10/27/04	223634	DSC	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/27/04	223634	DSC	40	42.8	107	90-110

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QUALITY CONTROL REPORT

Parameter: **Carbon, Total Organic**
Method: Organic Carbon, Total 4151/5310D/9060 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/12/04	222941	SAJ	<1.0
10/14/04	223190	GEH	<0.5
10/18/04	223293	GEH	<0.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/12/04	222941	SAJ	25	24.3	97	90-110
10/14/04	223190	GEH	25	24	96	90-110
10/18/04	223293	GEH	25	24	96	90-110

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QUALITY CONTROL REPORT

Parameter: **Chemical Oxygen Demand**
Method: Closed Reflux, Colorimetric Method 410.4/SM 5220 D WATER
Units: mg/L

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/15/04	100110	JMJ	<5.0
10/18/04	100216	JMJ	<5.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/15/04	100110	JMJ	30	30	100	90-110
10/18/04	100216	JMJ	30	29	97	90-110

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QUALITY CONTROL REPORT

Parameter: **Chloride**
Method: Colorimetric, Automated Ferricyanide 325.2/4500-CL E WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/13/04	223150	TAM	<1.0
10/19/04	223294	TAM	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/13/04	223150	TAM	78.1	80.4	103	92-109
10/19/04	223294	TAM	79.1	79.7	101	92-109

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QUALITY CONTROL REPORT

Parameter: **Chromium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/16/04	223090	DWJ	<50
10/27/04	223665	KLVM	<50

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QUALITY CONTROL REPORT

Parameter: **Chromium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/22/04	223411	JMF	<1.0
10/27/04	223634	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/27/04	223634	DSC	40	43.3	108	90-110

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QUALITY CONTROL REPORT

Parameter: **Cobalt, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/27/04	223665	KLVM	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/27/04	223665	KLVM	500	497	99	90-110

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QUALITY CONTROL REPORT

Parameter: **Cobalt, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/22/04	223411	JMF	<10

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QUALITY CONTROL REPORT

Parameter: **Color (Apparent)**
Method: Colorimetric, Platinum-Cobalt USEPA-110.2 WATER
Units: A.C.U.

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/13/04	223483	GEH	<5
10/14/04	223473	GEH	<5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/13/04	223483	GEH	50	50	100	80-120
10/14/04	223473	GEH	25	25	100	80-120

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/22/04	223411	JMF	<1.0
10/27/04	223634	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/22/04	223411	JMF	40	40.4	101	90-110
10/27/04	223634	DSC	40	43.2	108	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/22/04	100339	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/22/04	100339	JMF	25	26.5	106	86-123

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QUALITY CONTROL REPORT

Parameter: **Fluoride**
Method: Potentiometric, Ion Selective Electrode SM 4500 F-C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/22/04	223379	VAS	<0.10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/22/04	223379	VAS	3.43	3.31	97	88-116

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QUALITY CONTROL REPORT

Parameter: **Iron, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/16/04	223090	DWJ	<20
10/27/04	223665	KLVM	<20

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/16/04	223090	DWJ	500	489	98	90-110
10/27/04	223665	KLVM	500	514	103	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/16/04	100133	DWJ	<20

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/16/04	100133	DWJ	250	258	103	83-118

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QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/27/04	223665	KLVM	<50

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QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/22/04	223411	JMF	<1.0
10/27/04	223621	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/27/04	223621	DSC	40	40.1	100	90-110

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QUALITY CONTROL REPORT

Parameter: **Lithium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/27/04	223665	KLVM	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/27/04	223665	KLVM	500	512	102	90-110

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QUALITY CONTROL REPORT

Parameter: **Magnesium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/16/04	223090	DWJ	<0.50
10/27/04	223665	KLVM	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/27/04	223665	KLVM	5.0	5.13	103	90-110

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/16/04	223090	DWJ	<10
10/27/04	223665	KLVM	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/27/04	223665	KLVM	500	511	102	90-110

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/22/04	223411	JMF	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/22/04	223411	JMF	40	39.1	98	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/22/04	100339	JMF	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/22/04	100339	JMF	25	25.9	104	86-124

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/16/04	223090	DWJ	<10

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/22/04	223411	JMF	<1.0
10/27/04	223634	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/22/04	223411	JMF	40	39.3	98	90-110
10/27/04	223634	DSC	40	42.8	107	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/22/04	100339	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/22/04	100339	JMF	25	25.1	100	84-117

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Ammonia**
Method: Colorimetric, Automated Phenate 350.1/4500 NH3G WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/13/04	223117	GEH	<0.01
10/21/04	223383	GEH	<0.02

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/13/04	223117	GEH	0.765	0.710	93	90-110
10/21/04	223383	GEH	0.765	0.753	98	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrate**
Method: Colorimetric, Auto-Cadmium Reduction 353.2/4500 NO3F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/13/04	223396	HLB	<0.05
10/15/04	223399	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/13/04	223396	HLB	0.624	0.614	98	90-110
10/15/04	223399	HLB	0.624	0.635	102	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrite**
Method: Colorimetric, Automated USEPA-353.2 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/13/04	223397	HLB	<0.05
10/15/04	223400	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/13/04	223397	HLB	0.50	0.49	98	90-110
10/15/04	223400	HLB	0.50	0.50	100	90-110

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QUALITY CONTROL REPORT

Parameter: **Potassium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/16/04	223090	DWJ	<0.10
10/27/04	223665	KLVM	<0.20

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/27/04	223665	KLVM	5.0	5.03	101	90-110

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QUALITY CONTROL REPORT

Parameter: **Residue,Dissolved @ 180*C**
Method: Residue-Gravimetric, Dried @ 180*C 160.1/SM 2540 C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/14/04	223088	INR	<2.5
10/18/04	223480	INR	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/14/04	223088	INR	1000.0	1040	104	90-108
10/14/04	223088	INR	1000.0	984	98	90-108
10/18/04	223480	INR	1000	1060	106	90-108
10/18/04	223480	INR	1000	1030	103	90-108

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QUALITY CONTROL REPORT

Parameter: **Residue, Suspended**
Method: Residue-Gravimetric, Dried @ 103-105*C 160.2/SM 2540 D WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/14/04	223101	INR	<2.5
10/18/04	223212	INR	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/14/04	223101	INR	1000.0	978	98	89-106
10/14/04	223101	INR	1000.0	953	95	89-106
10/14/04	223101	INR	1000.0	974	97	89-106
10/18/04	223212	INR	1000.0	931	93	89-106

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QUALITY CONTROL REPORT

Parameter: **Residue, Suspended**
Method: Residue-Gravimetric, Dried @ 103-105*C 160.2/SM 2540 D WW
Units: mg/L

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/18/04	223212	INR	1000.0	981	98	88-108

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QUALITY CONTROL REPORT

Parameter: **Selenium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/16/04	223090	DWJ	<200

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QUALITY CONTROL REPORT

Parameter: **Selenium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/22/04	223411	JMF	<2.0
10/27/04	223634	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/27/04	223634	DSC	40	42.5	106	90-110

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QUALITY CONTROL REPORT

Parameter: **Silver, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/16/04	223090	DWJ	<10

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QUALITY CONTROL REPORT

Parameter: **Silver, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/22/04	223411	JMF	<0.2
10/27/04	223634	DSC	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/27/04	223634	DSC	40	43.1	108	90-110

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QUALITY CONTROL REPORT

Parameter: **Sodium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/16/04	223090	DWJ	<0.50
10/27/04	223665	KLVM	<0.50
10/28/04	223650	DWJ	<0.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/28/04	223650	DWJ	5.0	4.95	99	90-110

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QUALITY CONTROL REPORT

Parameter: **Sulfate**
Method: Turbidimetric Method (Manual) EPA-375.4/9038 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/13/04	223167	TAM	<5.0
10/19/04	223465	TAM	<5.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/13/04	223167	TAM	15.8	16.2	103	85-113
10/19/04	223465	TAM	15.8	14.4	91	85-113

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QUALITY CONTROL REPORT

Parameter: **Turbidity**
Method: Nephelometric USEPA-180.1 WATER
Units: NTU

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/12/04	223474	HLB	<1.0
10/13/04	223476	HLB	<1.0
10/15/04	223475	HLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/12/04	223474	HLB	402	394	98	90-110
10/13/04	223476	HLB	402	395	98	90-110
10/15/04	223475	HLB	402	396	99	90-110

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QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/16/04	223090	DWJ	<20

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QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/22/04	223411	JMF	<5.0
10/27/04	223634	DSC	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/27/04	223634	DSC	40	43.1	108	90-110

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Chain of Custody Record

COC No. 104398

Page 1 of 1

For Lab Use Only
Cart: 1
VOA Rack/Tray:
Receipt Log No.: 29-15
Project Chemist: Jim
Laboratory Project No.: 30162.23

Client Name: North Jackson
Address: PO Box 30
Negaunee, MI 49866
Phone: 906 475 9739
Fax:

Project Name: Eagle
Client Project No. / P.O. No.: Eagle
Invoice To: ☐ Client ☒ Other (comments)
Contact/Report To: D. Wittala

Analyses Requested

Via E-mail

⇦ PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

	Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List) A	B	C	Number of Containers Submitted	Total	Sample Comments
1	09	WG	373279	EQBM001 EAG-1001202	TM0109	10/12/04	1025		X	wtr		1		filtered		GW
2				FBKM001 EAG-1001204		10/12/04	1045		X	wtr	2					
3	44		373280	EQBS001 EAG-1001192		10/12/04	1000		X	wtr		1		~~field~~ filtered - Equipment		
4	14		373281	FBKS001 EAG-1001193		10/12/04	1010		X	wtr	2	1	4	total 1		sulfuric FB
5	09		373282	EQBM002 EAG-1001203		10/12/04	1100		X	wtr	X	1		filtered		Equip. GW
6																
7																
8																
9																
10																

Sampled By (print): D Sabee
Sampler's Signature: D Sabee
Company:

How Shipped? Hand Carrier FedEx
Tracking No.

Comments: Bill KMC
Jon Chen

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
D Sabee	10-12 04	1200						
1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
						Jim Fahey	10/13/04	9:00

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TriMatrix Laboratories, Inc.

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Chain of Custody Record

COC No. 100308

Page 1 of 1

For Lab Use Only
Cart: 4
VOA Rack/Tray:
Receipt Log No.: 27-3
Project Chemist: JK
Laboratory Project No.: 36162-23

Client Name: North Jackson
Address: PO Box 30
Negaunee MI 49866
Phone 906 475 9779
Fax:

Project Name: EAGLE
Client Project No. / P.O. No.: Eagle
Invoice To: ☐ Client ☑ Other (comments)
Contact/Report To: D Wittala

Analyses Requested

Via E Mail

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

	Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List) A	B	C	Total	Sample Comments
				Number of Containers Submitted											
1	10	WQ	373157	FBKM002 EAG-1001205	TMOOT	10/11/04	1030				2				
2	44		373158	EQBS001 EAG-1001221		10/11/04	1000					1	filtered		
3	44		373159	EQBS002 EAG-1001222		10/11/04	1015					1	filtered		
4	14		373160	FBKS001 EAG-1001223		10-11-04	1045				2	1	HCl		
5	14		373161	FBKS002 EAG-1001224		10-11-04	1100				2	1	HCl		
6	10		373162	FBKM001 EAG-1001204		10-11-04	1045				2				
7															
8															
9															
10															

Sampled By (print): P Sabee
Sampler's Signature:
Company:

How Shipped? Hand Carrier Fed Ex
Tracking No.

Comments: 13.11 KMC
Joe Cherry

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
P Sabee	10-11-04	1400						
1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
							10/12/04	8:40

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TriMatrix
Laboratories, Inc.

November 8, 2004

North Jackson Company
Attn: Mr. Peter Sabee
420 Rail Street
Negaunee, MI 49866

RE: Eagle
Submittal Number: 36162-24

Dear Mr. Peter Sabee:

Enclosed is a copy of your laboratory report for test samples received by our laboratory on October 22, 2004.

Please note that the test results of the enclosed analyses relate only to the sample(s) as received at the laboratory, and are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC) standards. Qualification of test standards, including sample acceptance requirements, are presented within the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosure(s)

The total number of pages in this report, including this page, is 25.

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Zinc, Dissolved**
ICP Mass Spectrometry (ICP-MS)
WATER EPA-200.8/6020

Qualification:

The analysis of the Method Preparation Blank (MPB) for this parameter, method and associated digestion/extraction batch, had a positive value above the project reporting limit. The corresponding sample result is < 5 times the positive MPB value and therefore must be considered estimated.

Sample(s) Qualified: 373948 WLDP021 EAG- 1001227

Page 1 - **End of Statement of Data Qualifications**

Note: This document is included as a part of the analytical report for the above referenced project and submittal, and should be retained as a permanent record thereof.

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CASE NARRATIVE

Analysis: **Selenium, Dissolved**
ICP Mass Spectrometry (ICP-MS)
WATER EPA-200.8/6020

Narrative:

The quantitated values of the isotopes monitored for this analyte exceeded a difference of 25%. The lower of the two values has been reported.

Sample(s) Narrated: 374408 QALM009A EAG- 1001244

Page 1 - **End of Case Narrative**

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/18/04 @ 15:30
Sampler: P. Kero
Received: 10/19/04 @ 10:25

Submittal #: **36162-24**
Submittal: Week of October 18, 2004

Sample ID: **WLDP001 EAG- 1001220**
Sample #: **373822**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	89	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	10/19/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	10/19/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	10/22/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	10/20/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	102	50	mg/L	10/21/04	INR	160.1/SM 2540 C
Calcium, Dissolved	26	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	1.0	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	4.9	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	0.82	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Barium, Dissolved	21	20	ug/L	10/29/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	10/29/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Iron, Dissolved	1050	20	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	30	20	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	10/29/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	10/29/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	10/29/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	10/29/04	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/18/04 @ 11:30
Sampler: P. Kero
Received: 10/19/04 @ 10:25

Submittal #: **36162-24**
Submittal: Week of October 18, 2004

Sample ID: **QALM003A EAG- 1001232**
Sample #: **373823**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	64	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
Chloride	3.2	1.0	mg/L	10/19/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	10/19/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	10/22/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	3.6	0.20	mg/L	10/20/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	108	50	mg/L	10/21/04	INR	160.1/SM 2540 C
Calcium, Dissolved	20	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.58	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	5.5	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	1.1	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	130	100	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	10/29/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	10/29/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Iron, Dissolved	130	20	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	10/29/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	10/29/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	10/29/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	10/29/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/18/04 @ 11:50
Sampler: P. Kero
Received: 10/19/04 @ 10:25

Submittal #: **36162-24**
Submittal: Week of October 18, 2004

Sample ID: **QALM003B EAG- 1001233**
Sample #: **373824**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	78	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	10/19/04	TAM	325.2/4500-CL E
Sulfate	5.3	5.0	mg/L	10/19/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	10/22/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	10/20/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	92	50	mg/L	10/21/04	INR	160.1/SM 2540 C
Calcium, Dissolved	21	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	1.2	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	6.0	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	1.8	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	4.9	2.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	10/29/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	10/29/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Iron, Dissolved	39	20	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	10/29/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	10/29/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	10/29/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	10/29/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/18/04 @ 13:50
Sampler: P. Kero
Received: 10/19/04 @ 10:25

Submittal #: **36162-24**
Submittal: Week of October 18, 2004

Sample ID: **QALP015 EAG- 1001247**
Sample #: **373825**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	61	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	10/19/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	10/19/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	10/22/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	10/20/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	88	50	mg/L	10/21/04	INR	160.1/SM 2540 C
Calcium, Dissolved	20	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	3.0	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	10/29/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	10/29/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	10/29/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	10/29/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	10/29/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	10/29/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/18/04 @ 10:00
Sampler: P. Kero
Received: 10/19/04 @ 10:25

Submittal #: **36162-24**
Submittal: Week of October 18, 2004

Sample ID: **QALM006A EAG- 1001238**
Sample #: **373826**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	<2.0	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	10/19/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	10/19/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	10/22/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	0.17	0.05	mg/L	10/20/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	10/21/04	INR	160.1/SM 2540 C
Calcium, Dissolved	0.89	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	10/29/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	10/29/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	10/29/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	10/29/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	10/29/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	10/29/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/18/04 @ 10:00
Sampler: P. Kero
Received: 10/19/04 @ 10:25

Submittal #: **36162-24**
Submittal: Week of October 18, 2004

Sample ID: **QALM006B EAG- 1001239**
Sample #: **373827**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	78	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
Chloride	1.0	1.0	mg/L	10/19/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	10/19/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	10/22/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	10/20/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	138	50	mg/L	10/21/04	INR	160.1/SM 2540 C
Calcium, Dissolved	20	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.70	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	5.8	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	1.7	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	10/29/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	10/29/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Iron, Dissolved	15200	20	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	150	20	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	10/29/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	10/29/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	10/29/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	10/29/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	10/29/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/19/04 @ 16:00
Sampler: P. Kero
Received: 10/20/04 @ 09:10

Submittal #: **36162-24**
Submittal: Week of October 18, 2004

Sample ID: **QALM004A EAG- 1001234**
Sample #: **373943**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	45	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	10/20/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	10/20/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	10/22/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	0.13	0.05	mg/L	10/20/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	60	50	mg/L	10/21/04	INR	160.1/SM 2540 C
Calcium, Dissolved	14	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.55	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	2.5	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	0.63	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	10/30/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	10/30/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	10/30/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	10/30/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	10/30/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	10/30/04	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/19/04 @ 16:30
Sampler: P. Kero
Received: 10/20/04 @ 09:10

Submittal #: **36162-24**
Submittal: Week of October 18, 2004

Sample ID: **QALM004D EAG- 1001235**
Sample #: **373944**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	84	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	10/20/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	10/20/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	10/22/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	10/20/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	138	50	mg/L	10/21/04	INR	160.1/SM 2540 C
Calcium, Dissolved	26	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.79	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	3.3	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	1.9	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	8.7	2.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	10/30/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	10/30/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Iron, Dissolved	110	20	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	56	20	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	10/30/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	10/30/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	10/30/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	10/30/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/19/04 @ 13:45
Sampler: P. Kero
Received: 10/20/04 @ 09:10

Submittal #: **36162-24**
Submittal: Week of October 18, 2004

Sample ID: **WLDP006 EAG- 1001225**
Sample #: **373945**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	27	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
Chloride	2.0	1.0	mg/L	10/20/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	10/20/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	10/22/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	0.07	0.05	mg/L	10/20/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	110	50	mg/L	10/21/04	INR	160.1/SM 2540 C
Calcium, Dissolved	0.90	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	610	100	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	10/30/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	10/30/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Iron, Dissolved	20400	20	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	29	20	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	10/30/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	10/30/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	10/30/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	10/30/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/19/04 @ 13:45
Sampler: P. Kero
Received: 10/20/04 @ 09:10

Submittal #: **36162-24**
Submittal: Week of October 18, 2004

Sample ID: **DUPP001 EAG- 1001256**
Sample #: **373946**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	35	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
Chloride	2.2	1.0	mg/L	10/20/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	10/20/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	10/22/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	0.08	0.05	mg/L	10/20/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	106	50	mg/L	10/21/04	INR	160.1/SM 2540 C
Calcium, Dissolved	0.86	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	580	100	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	10/30/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	10/30/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Iron, Dissolved	19800	20	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	28	20	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	10/30/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	10/30/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	10/30/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	10/30/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/19/04 @ 10:15
Sampler: P. Kero
Received: 10/20/04 @ 09:10

Submittal #: **36162-24**
Submittal: Week of October 18, 2004

Sample ID: **WLDP016 EAG- 1001226**
Sample #: **373947**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	84	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	10/20/04	TAM	325.2/4500-CL E
Sulfate	5.7	5.0	mg/L	10/20/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	10/22/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	10/20/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	116	50	mg/L	10/21/04	INR	160.1/SM 2540 C
Calcium, Dissolved	25	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.98	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	5.9	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	0.89	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	10/30/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	10/30/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Iron, Dissolved	100	20	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	10/30/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	10/30/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	10/30/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	10/30/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/19/04 @ 11:40
Sampler: P. Kero
Received: 10/20/04 @ 09:10

Submittal #: **36162-24**
Submittal: Week of October 18, 2004

Sample ID: **WLDP021 EAG- 1001227**
Sample #: **373948**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	11	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	10/21/04	VAS	310.1/SM 2320 B
Chloride	1.2	1.0	mg/L	10/20/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	10/20/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	10/22/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	10/20/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	74	50	mg/L	10/21/04	INR	160.1/SM 2540 C
Calcium, Dissolved	4.2	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	0.53	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	450	100	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	4.5	2.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	10/30/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	10/30/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Iron, Dissolved	2060	20	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	10/30/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	10/30/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	10/30/04	JMF	EPA-200.8/6020
* Zinc, Dissolved	17	10	ug/L	10/30/04	JMF	EPA-200.8/6020

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/20/04 @ 09:15
Sampler: P. Kero
Received: 10/22/04 @ 08:40

Submittal #: **36162-24**
Submittal: Week of October 18, 2004

Sample ID: **QALM005A EAG- 1001236**
Sample #: **374404**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	6.9	2.0	mg/L	10/25/04	JLB	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	10/25/04	JLB	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	10/25/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	10/25/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	10/29/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	10/22/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	10/26/04	INR	160.1/SM 2540 C
Calcium, Dissolved	1.2	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.66	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	0.78	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Barium, Dissolved	21	20	ug/L	11/02/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	11/03/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	11/02/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Iron, Dissolved	350	20	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	11/02/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	11/02/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	11/02/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	11/02/04	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/20/04 @ 09:45
Sampler: P. Kero
Received: 10/22/04 @ 08:40

Submittal #: **36162-24**
Submittal: Week of October 18, 2004

Sample ID: **QALM005D EAG- 1001237**
Sample #: **374405**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	93	2.0	mg/L	10/25/04	JLB	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	10/25/04	JLB	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	10/25/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	10/25/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	10/29/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	10/22/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	124	50	mg/L	10/26/04	INR	160.1/SM 2540 C
Calcium, Dissolved	27	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.66	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	2.8	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	1.2	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	3.4	2.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Barium, Dissolved	33	20	ug/L	10/30/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	10/30/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Iron, Dissolved	720	20	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	190	20	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	10/30/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	10/30/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	10/30/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	10/30/04	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/20/04 @ 12:00
Sampler: P. Kero
Received: 10/22/04 @ 08:40

Submittal #: **36162-24**
Submittal: Week of October 18, 2004

Sample ID: **QALM010A EAG- 1001246**
Sample #: **374406**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	41	2.0	mg/L	10/25/04	JLB	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	10/25/04	JLB	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	10/25/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	10/25/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	10/29/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	0.15	0.05	mg/L	10/22/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	64	50	mg/L	10/26/04	INR	160.1/SM 2540 C
Calcium, Dissolved	12	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	1.2	0.50	mg/L	11/04/04	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	2.3	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	1.2	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	11/02/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	11/03/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	11/02/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	41	20	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	11/02/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	11/02/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	11/02/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	11/02/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/20/04 @ 12:00
Sampler: P. Kero
Received: 10/22/04 @ 08:40

Submittal #: **36162-24**
Submittal: Week of October 18, 2004

Sample ID: **DUPM003 EAG- 1001258**
Sample #: **374407**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	54	2.0	mg/L	10/25/04	JLB	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	10/25/04	JLB	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	10/25/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	10/25/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	10/29/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	0.15	0.05	mg/L	10/22/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	56	50	mg/L	10/26/04	INR	160.1/SM 2540 C
Calcium, Dissolved	12	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	1.4	0.50	mg/L	11/04/04	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	2.3	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	1.1	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	11/02/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	11/03/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	11/02/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	38	20	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	11/02/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	11/02/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	11/02/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	11/02/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/20/04 @ 15:00
Sampler: P. Kero
Received: 10/22/04 @ 08:40

Submittal #: **36162-24**
Submittal: Week of October 18, 2004

Sample ID: **QALM009A EAG- 1001244**
Sample #: **374408**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	54	2.0	mg/L	10/25/04	JLB	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	10/25/04	JLB	310.1/SM 2320 B
Chloride	5.3	1.0	mg/L	10/25/04	TAM	325.2/4500-CL E
Sulfate	12	5.0	mg/L	10/25/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	10/29/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	0.14	0.05	mg/L	10/22/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	116	50	mg/L	10/26/04	INR	160.1/SM 2540 C
Calcium, Dissolved	15	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	1.4	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	2.4	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	0.79	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	10/30/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	10/30/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	10/30/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	10/30/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	10/30/04	JMF	EPA-200.8/6020
Zinc, Dissolved	12	10	ug/L	10/30/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/20/04 @ 14:35
Sampler: P. Kero
Received: 10/22/04 @ 08:40

Submittal #: **36162-24**
Submittal: Week of October 18, 2004

Sample ID: **QALM002D EAG- 1001231**
Sample #: **374409**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	109	2.0	mg/L	10/25/04	JLB	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	10/25/04	JLB	310.1/SM 2320 B
Chloride	2.0	1.0	mg/L	10/25/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	10/25/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	10/29/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	10/22/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	134	50	mg/L	10/26/04	INR	160.1/SM 2540 C
Calcium, Dissolved	27	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	2.0	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	4.0	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	5.7	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	3.2	2.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Barium, Dissolved	26	20	ug/L	10/30/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	10/30/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Iron, Dissolved	43	20	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	130	20	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	16	10	ug/L	10/30/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	10/30/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	10/30/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	10/30/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/20/04 @ 12:30
Sampler: P. Kero
Received: 10/22/04 @ 08:40

Submittal #: **36162-24**
Submittal: Week of October 18, 2004

Sample ID: **QALM002A EAG- 1001230**
Sample #: **374410**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	29	2.0	mg/L	10/25/04	JLB	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	10/25/04	JLB	310.1/SM 2320 B
Chloride	4.2	1.0	mg/L	10/25/04	TAM	325.2/4500-CL E
Sulfate	6.1	5.0	mg/L	10/25/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	10/29/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	0.17	0.05	mg/L	10/22/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	102	50	mg/L	10/26/04	INR	160.1/SM 2540 C
Calcium, Dissolved	8.8	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.65	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	1.0	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	0.59	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	10/30/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	10/30/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	10/30/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	10/30/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	10/30/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	10/30/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/20/04 @ 15:30
Sampler: P. Kero
Received: 10/22/04 @ 08:40

Submittal #: **36162-24**
Submittal: Week of October 18, 2004

Sample ID: **QALP016 EAG- 1001248**
Sample #: **374411**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	69	2.0	mg/L	10/25/04	JLB	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	10/25/04	JLB	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	10/25/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	10/25/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	10/29/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	0.10	0.05	mg/L	10/22/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	84	50	mg/L	10/26/04	INR	160.1/SM 2540 C
Calcium, Dissolved	20	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	11/04/04	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	3.1	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	11/02/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	11/03/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	11/02/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	11/02/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	11/02/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	11/02/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	11/02/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/20/04 @ 16:10
Sampler: P. Kero
Received: 10/22/04 @ 08:40

Submittal #: **36162-24**
Submittal: Week of October 18, 2004

Sample ID: **QALP018 EAG- 1001249**
Sample #: **374412**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	72	2.0	mg/L	10/25/04	JLB	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	10/25/04	JLB	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	10/25/04	TAM	325.2/4500-CL E
Sulfate	5.1	5.0	mg/L	10/25/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	10/29/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	0.20	0.05	mg/L	10/22/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	102	50	mg/L	10/26/04	INR	160.1/SM 2540 C
Calcium, Dissolved	21	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	11/04/04	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	4.1	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	0.80	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	11/02/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	11/03/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	11/02/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Iron, Dissolved	180	20	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	11/02/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	11/02/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	11/02/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	11/02/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/20/04 @ 00:00
Sampler: P. Kero
Received: 10/22/04 @ 08:40

Submittal #: **36162-24**
Submittal: Week of October 18, 2004

Sample ID: **DUPP004 EAG- 1001259**
Sample #: **374413**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	71	2.0	mg/L	10/25/04	JLB	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	10/25/04	JLB	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	10/25/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	10/25/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	10/29/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	0.20	0.05	mg/L	10/22/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	120	50	mg/L	10/26/04	INR	160.1/SM 2540 C
Calcium, Dissolved	21	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.50	0.50	mg/L	11/04/04	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	4.2	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	0.80	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	11/02/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	11/03/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	11/02/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Iron, Dissolved	170	20	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	11/02/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	11/02/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	11/02/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	11/02/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/21/04 @ 10:25
Sampler: P. Kero
Received: 10/22/04 @ 08:40

Submittal #: **36162-24**
Submittal: Week of October 18, 2004

Sample ID: **QALM007A EAG- 1001240**
Sample #: **374414**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	20	2.0	mg/L	10/25/04	JLB	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	10/25/04	JLB	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	10/25/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	10/25/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	10/29/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	0.32	0.05	mg/L	10/22/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	10/26/04	INR	160.1/SM 2540 C
Calcium, Dissolved	7.2	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.63	0.50	mg/L	11/04/04	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	0.80	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	11/02/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	11/03/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	11/02/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	11/02/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	11/02/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	11/02/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	11/02/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/21/04 @ 11:45
Sampler: P. Kero
Received: 10/22/04 @ 08:40

Submittal #: **36162-24**
Submittal: Week of October 18, 2004

Sample ID: **QALM007D EAG- 1001241**
Sample #: **374415**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	127	2.0	mg/L	10/25/04	JLB	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	10/25/04	JLB	310.1/SM 2320 B
Chloride	1.6	1.0	mg/L	10/25/04	TAM	325.2/4500-CL E
Sulfate	11	5.0	mg/L	10/25/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	10/29/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	10/22/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	170	50	mg/L	10/26/04	INR	160.1/SM 2540 C
Calcium, Dissolved	31	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	1.5	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	4.5	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	7.1	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	10/30/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	10/30/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Iron, Dissolved	870	20	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	120	20	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	10/30/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	10/30/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	10/30/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	10/30/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/21/04 @ 10:25
Sampler: P. Kero
Received: 10/22/04 @ 08:40

Submittal #: **36162-24**
Submittal: Week of October 18, 2004

Sample ID: **DUPM002 EAG- 1001257**
Sample #: **374416**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	22	2.0	mg/L	10/25/04	JLB	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	10/25/04	JLB	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	10/25/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	10/25/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	10/29/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	0.33	0.05	mg/L	10/22/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	56	50	mg/L	10/26/04	INR	160.1/SM 2540 C
Calcium, Dissolved	7.0	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.57	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	0.77	0.50	mg/L	10/30/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	0.61	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	10/30/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	10/30/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	10/30/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	10/30/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	10/30/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	10/30/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	10/30/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	10/30/04	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/21/04 @ 14:30
Sampler: P. Kero
Received: 10/22/04 @ 08:40

Submittal #: **36162-24**
Submittal: Week of October 18, 2004

Sample ID: **QALM001A EAG- 1001228**
Sample #: **374417**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	46	2.0	mg/L	10/25/04	JLB	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	10/25/04	JLB	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	10/25/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	10/25/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	10/29/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	0.05	0.05	mg/L	10/22/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	74	50	mg/L	10/26/04	INR	160.1/SM 2540 C
Calcium, Dissolved	12	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.64	0.50	mg/L	11/04/04	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	2.1	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	0.88	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	11/02/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	11/03/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	11/02/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	11/02/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	11/02/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	11/02/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	11/02/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/21/04 @ 15:15
Sampler: P. Kero
Received: 10/22/04 @ 08:40

Submittal #: **36162-24**
Submittal: Week of October 18, 2004

Sample ID: **QALM001D EAG- 1001229**
Sample #: **374418**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	75	2.0	mg/L	10/25/04	JLB	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	10/25/04	JLB	310.1/SM 2320 B
Chloride	1.3	1.0	mg/L	10/25/04	TAM	325.2/4500-CL E
Sulfate	11	5.0	mg/L	10/25/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	10/29/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	10/22/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	126	50	mg/L	10/26/04	INR	160.1/SM 2540 C
Calcium, Dissolved	13	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.77	0.50	mg/L	11/04/04	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	3.5	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	16	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	4.7	2.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	11/02/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	11/03/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	11/02/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	18	10	ug/L	11/02/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	11/02/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	11/02/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	11/02/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 10/21/04 @ 15:45
Sampler: P. Kero
Received: 10/22/04 @ 08:40

Submittal #: **36162-24**
Submittal: Week of October 18, 2004

Sample ID: **QALP020 EAG- 1001250**
Sample #: **374419**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	13	2.0	mg/L	10/25/04	JLB	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	10/25/04	JLB	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	10/25/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	10/25/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	10/29/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	10/22/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	106	50	mg/L	10/26/04	INR	160.1/SM 2540 C
Calcium, Dissolved	3.8	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	1.3	0.50	mg/L	11/04/04	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	0.83	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	11/03/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	11/02/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	11/03/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	11/02/04	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Iron, Dissolved	29	20	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	11/03/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	11/02/04	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	11/02/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	11/02/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	11/02/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	11/02/04	JMF	EPA-200.8/6020

End of Analytical Report

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Bicarbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/21/04	223374	VAS	<2.0
10/25/04	223709	JLB	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/21/04	223374	VAS	238	235	99	93-105
10/25/04	223709	JLB	238	243	102	93-105

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Carbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/21/04	223374	VAS	<2.0
10/25/04	223709	JLB	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/21/04	223374	VAS	377	377	100	77-110
10/25/04	223709	JLB	377	361	96	77-110

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QUALITY CONTROL REPORT

Parameter: **Aluminum, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/30/04	223844	KLVM	<100
11/03/04	224027	KLVM	<100

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/30/04	223844	KLVM	2500	2563	103	90-110
11/03/04	224027	KLVM	2500	2418	97	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/30/04	100632	KLVM	<100
10/30/04	100633	KLVM	<100
10/30/04	100639	KLVM	<100

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/30/04	100632	KLVM	1250	1341	107	86-120
10/30/04	100633	KLVM	1250	1427	114	86-120
10/30/04	100639	KLVM	1250	1246	100	86-120

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QUALITY CONTROL REPORT

Parameter: **Antimony, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/29/04	223797	JMF	<5.0
10/30/04	223893	JMF	<1.0
11/02/04	224043	JMF	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/29/04	223797	JMF	40	43.2	108	90-110
10/30/04	223893	JMF	40	41.4	104	90-110
11/02/04	224043	JMF	40	40.4	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/29/04	100589	JMF	<5.0
10/30/04	100652	JMF	<1.0
10/30/04	100660	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/29/04	100589	JMF	25	25.9	104	85-127
10/30/04	100652	JMF	25	26.0	104	85-127
10/30/04	100660	JMF	25	26.7	107	85-127

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/29/04	223797	JMF	<1.0
10/30/04	223893	JMF	<1.0
11/02/04	224043	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/29/04	223797	JMF	40	40.5	101	90-110
10/30/04	223893	JMF	40	41.5	104	90-110
11/02/04	224043	JMF	40	41.7	104	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/29/04	100589	JMF	<1.0
10/30/04	100652	JMF	<1.0
10/30/04	100660	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/29/04	100589	JMF	25	24.6	98	85-115
10/30/04	100652	JMF	25	23.9	96	85-115
10/30/04	100660	JMF	25	24.2	97	85-115

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/03/04	224027	KLVM	<10

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/29/04	223797	JMF	<10
10/30/04	223893	JMF	<5.0
11/02/04	224043	JMF	<5.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/29/04	223797	JMF	40	40.8	102	90-110
10/30/04	223893	JMF	40	42.4	106	90-110
11/02/04	224043	JMF	40	41.5	104	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/29/04	100589	JMF	<10
10/30/04	100652	JMF	<5.0
10/30/04	100660	JMF	<5.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/29/04	100589	JMF	25	26.1	104	86-119
10/30/04	100652	JMF	25	26.2	105	86-119
10/30/04	100660	JMF	25	26.8	107	86-119

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QUALITY CONTROL REPORT

Parameter: **Beryllium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/29/04	223797	JMF	<1.0
10/30/04	223893	JMF	<1.0
11/03/04	224014	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/29/04	223797	JMF	40	42.4	106	90-110
10/30/04	223893	JMF	40	42.5	106	90-110
11/03/04	224014	JMF	40	42.4	106	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/29/04	100589	JMF	<1.0
10/30/04	100652	JMF	<1.0
10/30/04	100660	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/29/04	100589	JMF	25	23.8	95	81-116
10/30/04	100652	JMF	25	24.3	97	81-116
10/30/04	100660	JMF	25	24.4	98	81-116

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QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/03/04	224027	KLVM	<10

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QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/29/04	223797	JMF	<0.2
10/30/04	223893	JMF	<0.2
11/02/04	224043	JMF	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/29/04	223797	JMF	40	41.2	103	90-110
10/30/04	223893	JMF	40	42.2	106	90-110
11/02/04	224043	JMF	40	41.0	103	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/29/04	100589	JMF	<0.2
10/30/04	100652	JMF	<0.2
10/30/04	100660	JMF	<0.2

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/29/04	100589	JMF	25	26.2	105	82-110
10/30/04	100652	JMF	25	25.3	101	82-110
10/30/04	100660	JMF	25	24.7	99	82-110

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QUALITY CONTROL REPORT

Parameter: **Chloride**
Method: Colorimetric, Automated Ferricyanide 325.2/4500-CL E WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/19/04	223294	TAM	<1.0
10/20/04	223684	TAM	<1.0
10/25/04	223685	TAM	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/19/04	223294	TAM	79.1	79.7	101	92-109
10/20/04	223684	TAM	78.1	78.16	100	92-109
10/25/04	223685	TAM	79.1	79.25	100	92-109

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QUALITY CONTROL REPORT

Parameter: **Chromium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/29/04	223797	JMF	<1.0
10/30/04	223893	JMF	<1.0
11/02/04	224043	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/29/04	223797	JMF	40	40.3	101	90-110
10/30/04	223893	JMF	40	41.6	104	90-110
11/02/04	224043	JMF	40	40.2	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/29/04	100589	JMF	<1.0
10/30/04	100652	JMF	<1.0
10/30/04	100660	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/29/04	100589	JMF	25	27.6	110	84-122
10/30/04	100652	JMF	25	27.2	109	84-122
10/30/04	100660	JMF	25	28.0	112	84-122

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QUALITY CONTROL REPORT

Parameter: **Cobalt, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/30/04	223844	KLVM	<10
11/03/04	224027	KLVM	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/30/04	223844	KLVM	500	510	102	90-110
11/03/04	224027	KLVM	500	484	97	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/30/04	100632	KLVM	<10
10/30/04	100633	KLVM	<10
10/30/04	100639	KLVM	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/30/04	100632	KLVM	250	252	101	84-117
10/30/04	100633	KLVM	250	267	107	84-117
10/30/04	100639	KLVM	250	244	98	84-117

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QUALITY CONTROL REPORT

Parameter: **Cobalt, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/30/04	223893	JMF	<10
11/02/04	224043	JMF	<10

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/30/04	223844	KLVM	<10
11/03/04	224027	KLVM	<10

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/29/04	223797	JMF	<1.0
10/30/04	223893	JMF	<1.0
11/02/04	224043	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/29/04	223797	JMF	40	41.4	104	90-110
10/30/04	223893	JMF	40	41.9	105	90-110
11/02/04	224043	JMF	40	40.2	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/29/04	100589	JMF	<1.0
10/30/04	100652	JMF	<1.0
10/30/04	100660	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/29/04	100589	JMF	25	26.8	107	86-123
10/30/04	100652	JMF	25	25.7	103	86-123
10/30/04	100660	JMF	25	24.5	98	86-123

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QUALITY CONTROL REPORT

Parameter: **Fluoride**
Method: Potentiometric, Ion Selective Electrode SM 4500 F-C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/22/04	223379	VAS	<0.10
10/29/04	223808	VAS	<0.10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/22/04	223379	VAS	3.43	3.31	97	88-116
10/29/04	223808	VAS	3.43	3.17	92	88-116

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QUALITY CONTROL REPORT

Parameter: **Iron, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/30/04	223844	KLVM	<20
11/03/04	224027	KLVM	<20

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/30/04	223844	KLVM	500	518	104	90-110
11/03/04	224027	KLVM	500	500	100	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/30/04	100632	KLVM	<20
10/30/04	100633	KLVM	<20
10/30/04	100639	KLVM	<20

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/30/04	100632	KLVM	250	259	104	83-118
10/30/04	100633	KLVM	250	281	112	83-118
10/30/04	100639	KLVM	250	252	101	83-118

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QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/29/04	223797	JMF	<1.0
10/30/04	223893	JMF	<1.0
11/02/04	224043	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/29/04	223797	JMF	40	39.2	98	90-110
10/30/04	223893	JMF	40	41.2	103	90-110
11/02/04	224043	JMF	40	39.0	98	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/29/04	100589	JMF	<1.0
10/30/04	100652	JMF	<1.0
10/30/04	100660	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/29/04	100589	JMF	25	25.2	101	89-119
10/30/04	100652	JMF	25	25.0	100	89-119
10/30/04	100660	JMF	25	25.2	101	89-119

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QUALITY CONTROL REPORT

Parameter: **Lithium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/30/04	223844	KLVM	<10
11/03/04	224027	KLVM	<20

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/30/04	223844	KLVM	500	510	102	90-110
11/03/04	224027	KLVM	500	506	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/30/04	100632	KLVM	<10
10/30/04	100633	KLVM	<10
10/30/04	100639	KLVM	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/30/04	100632	KLVM	250	264	106	86-115
10/30/04	100633	KLVM	250	274	110	86-115
10/30/04	100639	KLVM	250	250	100	86-115

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QUALITY CONTROL REPORT

Parameter: **Magnesium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/30/04	223844	KLVM	<0.50
11/03/04	224027	KLVM	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/30/04	223844	KLVM	5.0	5.13	103	90-110
11/03/04	224027	KLVM	5.0	4.99	100	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/30/04	100632	KLVM	<0.50
10/30/04	100633	KLVM	<0.50
10/30/04	100639	KLVM	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/30/04	100632	KLVM	12.5	13.0	104	87-115
10/30/04	100633	KLVM	12.5	13.9	111	87-115
10/30/04	100639	KLVM	12.5	12.4	99	87-115

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/30/04	223844	KLVM	<10
11/03/04	224027	KLVM	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/30/04	223844	KLVM	500	518	104	90-110
11/03/04	224027	KLVM	500	496	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/30/04	100632	KLVM	<10
10/30/04	100633	KLVM	<10
10/30/04	100639	KLVM	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/30/04	100632	KLVM	250	262	105	83-118
10/30/04	100633	KLVM	250	281	112	83-118
10/30/04	100639	KLVM	250	249	100	83-118

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/29/04	223797	JMF	<10

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/30/04	223844	KLVM	<10

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/29/04	223797	JMF	<1.0
10/30/04	223893	JMF	<1.0
11/02/04	224043	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/29/04	223797	JMF	40	41.2	103	90-110
10/30/04	223893	JMF	40	41.9	105	90-110
11/02/04	224043	JMF	40	41.9	105	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/29/04	100589	JMF	<1.0
10/30/04	100652	JMF	<1.0
10/30/04	100660	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/29/04	100589	JMF	25	25.3	101	84-117
10/30/04	100652	JMF	25	24.4	98	84-117
10/30/04	100660	JMF	25	25.3	101	84-117

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrate**
Method: Colorimetric, Auto-Cadmium Reduction 353.2/4500 NO3F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/22/04	223570	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/22/04	223570	HLB	0.624	0.639	102	90-110

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QUALITY CONTROL REPORT

Parameter: **Potassium, Total**
Method: Atomic Emission-ICP
Units: mg/L

EPA-200.7/6010B WATER

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/30/04	223844	KLVM	<0.10
11/03/04	224021	KLVM	<0.10
11/03/04	224057	KLVM	<0.10
11/04/04	224159	DWJ	<0.10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/30/04	223844	KLVM	5.0	5.07	101	90-110
11/03/04	224021	KLVM	5.0	4.90	98	90-110
11/03/04	224057	KLVM	5.0	5.07	101	90-110
11/04/04	224159	DWJ	5.0	5.10	102	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/30/04	100633	KLVM	<0.10
10/30/04	100639	KLVM	<0.10
11/03/04	100632	KLVM	<0.10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/30/04	100633	KLVM	12.5	13.6	109	87-125
10/30/04	100639	KLVM	12.5	12.2	98	87-125
11/03/04	100632	KLVM	12.5	13.2	106	87-125

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QUALITY CONTROL REPORT

Parameter: **Residue,Dissolved @ 180*C**
Method: Residue-Gravimetric, Dried @ 180*C 160.1/SM 2540 C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/21/04	223429	INR	<2.5
10/26/04	223708	INR	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/21/04	223429	INR	1000	1010	101	90-108
10/21/04	223429	INR	1000	929	93	90-108
10/21/04	223429	INR	1000	948	95	90-108
10/26/04	223708	INR	1000.0	1010	101	90-108
10/26/04	223708	INR	1000.0	1050	105	90-108
10/26/04	223708	INR	1000.0	1010	101	90-108

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QUALITY CONTROL REPORT

Parameter: **Selenium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/29/04	223797	JMF	<1.0
10/30/04	223893	JMF	<1.0
11/02/04	224043	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/29/04	223797	JMF	40	40.5	101	90-110
10/30/04	223893	JMF	40	41.7	104	90-110
11/02/04	224043	JMF	40	41.9	105	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/29/04	100589	JMF	<1.0
10/30/04	100652	JMF	<1.0
10/30/04	100660	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/29/04	100589	JMF	25	22.4	90	79-120
10/30/04	100652	JMF	25	22.4	90	79-120
10/30/04	100660	JMF	25	22.6	90	79-120

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QUALITY CONTROL REPORT

Parameter: **Silver, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/29/04	223797	JMF	<0.2
10/30/04	223893	JMF	<0.2
11/02/04	224043	JMF	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/29/04	223797	JMF	40	40.4	101	90-110
10/30/04	223893	JMF	40	41.9	105	90-110
11/02/04	224043	JMF	40	38.5	96	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/29/04	100589	JMF	<0.2
10/30/04	100652	JMF	<0.2
10/30/04	100660	JMF	<0.2

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/29/04	100589	JMF	25	25.8	103	86-114
10/30/04	100652	JMF	25	26.8	107	86-114
10/30/04	100660	JMF	25	26.5	106	86-114

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QUALITY CONTROL REPORT

Parameter: **Sodium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/30/04	223844	KLVM	<0.50
11/03/04	224027	KLVM	<0.50
11/03/04	224057	KLVM	<0.50
11/04/04	224159	DWJ	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/03/04	224027	KLVM	5.0	4.91	98	90-110
11/03/04	224057	KLVM	5.0	4.97	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/03/04	100632	KLVM	<0.50
11/03/04	100633	KLVM	<0.50
11/03/04	100639	KLVM	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/03/04	100632	KLVM	12.5	13.0	104	86-117
11/03/04	100633	KLVM	12.5	13.6	109	86-117
11/03/04	100639	KLVM	12.5	12.4	99	86-117

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QUALITY CONTROL REPORT

Parameter: **Sulfate**
Method: Turbidimetric Method (Manual) EPA-375.4/9038 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/19/04	223465	TAM	<5.0
10/20/04	223395	TAM	<5.0
10/25/04	223693	TAM	<5.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/19/04	223465	TAM	15.8	14.4	91	85-113
10/20/04	223395	TAM	15.8	15.35	97	85-113
10/25/04	223693	TAM	15.8	15.69	99	85-113

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QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/03/04	224027	KLVM	<20

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QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
10/29/04	223797	JMF	<4.0
10/30/04	223893	JMF	<4.0
11/02/04	224043	JMF	<4.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/29/04	223797	JMF	40	40.6	102	90-110
10/30/04	223893	JMF	40	42.1	105	90-110
11/02/04	224043	JMF	40	41.9	105	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
10/29/04	100589	JMF	**5.86**
10/30/04	100652	JMF	**5.4**
10/30/04	100660	JMF	<4.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
10/29/04	100589	JMF	25	28.6	114	87-124
10/30/04	100652	JMF	25	27.5	110	87-124
10/30/04	100660	JMF	25	26.1	104	87-124

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COC No. 104399

Page 1 of 1

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Cart: 4
VOA Rack/Tray:
Receipt Log No.: 39-5
Project Chemist:
Laboratory Project No.: 36162-24

Client Name	Project Name
North Jackson Co.	Eagle
Address: PO Box 30	Client Project No. / P.O. No.
Negaunee MI 49866	Invoice To: ☐ Client ☒ Other (comments)
Phone: 906-475-9865	Contact/Report To: Dan Wiitala
Fax: 906-475-0238	

Analyses Requested

See e-mail for ground water parameters

Container Type (corresponds to Container Packing List): A B

Number of Containers Submitted

	Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	A	B	Total	Sample Comments
				100220	TM0331									
1	OGWG		373822	EAG-~~100224~~ WLDP001	1	10/18/04	15:30		X	WTR	1	1	2	
2			373823	EAG-100232 QALM003A	1		11:30						2	
3			373824	EAG-1001233 QALM003B	1		11:50						2	
4			373825	EAG-1001247 QALP015	1		13:50						2	
5			373826	EAG-1001238 QALM006A	1		10:00						2	
6			373827	EAG-1001239 QALM006B	1		10:00						2	
7														
8														
9														
10														

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Sampled By (print): Pete Kero
Sampler's Signature: Pete Kero
Company: North Jackson Co

How Shipped? Hand Carrier FedEx
Tracking No.: 7903 0879 9321

Comments: Invoice to Jon Cherry, KMC

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
Pete Kero	10/18/04	17:30						

1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
						Li Plakos	10/19/04	10:25

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COC No. 104965

Page 1 of 1

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Cart: 7
VOA Rack/Tray: UA
Receipt Log No.: 41-6
Project Chemist: JCZ
Laboratory Project No.: 30162-24

Client Name: North Jackson Co.
Address: PO Box 30
Negaunee, MI 49866
Phone: 906-475-9865
Fax: 906-475-0238

Project Name: Eagle
Client Project No. / P.O. No.:
Invoice To: ☐ Client ☒ Other (comments)
Contact/Report To: Dan Wiitala

Analyses Requested

See e-mail for GW parameters

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type A	Container Type B	Total	Sample Comments
				Container Type (corresponds to Container Packing List)							A	B		
				Number of Containers Submitted										
04	WG	373943	1	EAG-1001234 QALM004A	1	10/19/04	16:00		X	WTR	1	1	2	
		373944	2	EAG-1001235 QALM004B D	1		16:30				1	1	2	
		373945	3	EAG-1001225 WLDP006	1		13:45				1	1	2	
		373946	4	EAG-1001256 DUPP001	1		13:45				1	1	2	
		373947	5	EAG-1001226 WLDP016	1		10:15				1	1	2	
		373948	6	EAG-1001227 WLDP021	1		11:40				1	1	2	
			7											
			8											
			9											
			10											

Sampled By (print): Pete Kero
Sampler's Signature: Peter Kero
Company: North Jackson Co.

How Shipped? Hand Carrier FedEx
Tracking No.: 7903 0903 4104

Comments: Invoice to Jan Cherry, KMC

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
Peter Kero	10/19/04	18:00						
1. Received By	**Date**	**Time**	**2. Received By**	**Date**	**Time**	**3. Received For Lab By**	**Date**	**Time**
						BH	10-20-04	09:18

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COC No. **104401**

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Cart: 7
VOA Rack/Tray:
Receipt Log No.: 4510
Project Chemist: JK
Laboratory Project No.: 34162-24

Client Name: North Jackson Co.
Address: PO Box 30
Negaunee MI 49866
Phone: 906-475-9865
Fax: 906-475-0238

Project Name: Eagle
Client Project No. / P.O. No.:
Invoice To: ☐ Client ☒ Other (comments)
Contact/Report To: Dan Wittman

Analyses Requested

See e-mail for list of GW parameters

⇦ PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date/Time	Sample Time/Date	COMP	GRAB	Matrix	Container Type A	Container Type B	Total	Sample Comments
				Container Type (corresponds to Container Packing List)							A	B		
				Number of Containers Submitted										
04	NG	374404	1	EAG-1001236 QALM005A	TM3085	9:15	10/20/04		X	WTR	1	1	2	
		374405	2	EAG-1001237 QALM005D		9:45	10/20/04		X	WTR	1	1	2	
		374406	3	EAG-1001246 QALM010A		12:00	10/20/04		X	WTR	1	1	2	
		374407	4	EAG-1001258 DUPM003		12:00	10/20/04		X	WTR	1	1	2	
		374408	5	EAG-1001244 QALM009A		15:00	10/20/04		X	WTR	1	1	2	
		374409	6	QALM002D EAG-1001231		1435	10/20/04		X	WTR	1	1	2	
		374410	7	QALM002A EAG-1001230		1230	10/20/04		X	WTR	1	1	2	
		374411	8	QALP016 EAG-1001248		1530	10/20/04		X	WTR	1	1	2	
		374412	9	QALP018 EAG-1001249		1610	10/20/04		X	WTR	1	1	2	
		374413	10	DUPP004 EAG-1001259			10/20/04		X	WTR	1	1	2	

Sampled By (print): Pete Klaus
Sampler's Signature: Pete Klaus
Company: North Jackson Co.

How Shipped? Hand Carrier FedEX
Tracking No.

Comments: Bill to KEK John Cherry

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
Pete Klaus	1830	10-20-04						
1. Received By	**Date**	**Time**	**2. Received By**	**Date**	**Time**	**3. Received For Lab By**	**Date**	**Time**
						Jai Plakon	10/22/04	840

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Cart: 7
VOA Rack/Tray:
Receipt Log No.: 45-13
Project Chemist:
Laboratory Project No.:

Client Name: North Jackson
Address: P.O. Box 80
Negaunee MI 49866
Phone: 906 475-9882
Fax:

Project Name: EAGLE
Client Project No. / P.O. No.: EAGLE
Invoice To: ☐ Client ☒ Other (comments)
Contact/Report To: D Widlala

Analyses Requested

GW Parameters via Email

⇦ PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List) A	B	Total	Sample Comments
			Number of Containers Submitted										
04	WG	374414	1 QALM007A		10-21-04	1025	X		Water	1	1		EAG-1001240
		374415	2 QALM007D		10-21-04	1145		X		1	1		EAG-1001241
		374416	3 DUPM002		10-21-04	1025	X			1	1		EAG-1001257
		374417	4 QALM001A		10-21-04	1430		X		1	1		EAG-1001228
		374418	5 QALM001D		10-21-04	1515		X		1	1		EAG-1001229
		374419	6 QALP020		10-21-04	1545		X		1	1		EAG-1001250
			7										
			8										
			9										
			10										

please add to name

Sampled By (print): P Sabee
Sampler's Signature: P Sabee
Company: North Jackson

How Shipped? Hand Carrier Fed Exp
Tracking No.

Comments: Bill KMC Attn Jon Chung

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
P Sabee	10-21-04	1200						
1. Received By	**Date**	**Time**	**2. Received By**	**Date**	**Time**	**3. Received For Lab By**	**Date**	**Time**
						Lori Plaker	10/22/04	8:40

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TriMatrix
Laboratories, Inc.

November 22, 2004

North Jackson Company
Attn: Mr. Peter Sabee
420 Rail Street
Negaunee, MI 49866

RE: Eagle
Submittal Number: 36162-25

Dear Mr. Peter Sabee:

Enclosed is a copy of your laboratory report for test samples received by our laboratory on November 4, 2004.

Please note that the test results of the enclosed analyses relate only to the sample(s) as received at the laboratory, and are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC) standards. Qualification of test standards, including sample acceptance requirements, are presented within the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosure(s)

The total number of pages in this report, including this page, is 46.

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STATEMENT OF DATA QUALIFICATIONS

All analyses have been validated and comply with our Quality Control Program. No qualifications required.

Page 1 - **End of Statement of Data Qualifications**

Note: This document is included as a part of the analytical report for the above referenced project and submittal, and should be retained as a permanent record thereof.

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36162- 25

CASE NARRATIVE

Analysis: **Selenium, Dissolved**
ICP Mass Spectrometry (ICP-MS)
WATER EPA-200.8/6020

Narrative:

The quantitated values of the isotopes monitored for this analyte exceeded a difference of 25%. The lower of the two values has been reported.

Sample(s) Narrated: 375484 QALM008D EAG- 1001243

Page 1 - **End of Case Narrative**

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 11/03/04 @ 12:25
Sampler: P. Sabee
Received: 11/04/04 @ 08:40

Submittal #: **36162-25**
Submittal: Week of November 1, 2004

Sample ID: **QALM008A EAG- 1001242**
Sample #: **375483**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	66	2.0	mg/L	11/11/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	11/11/04	VAS	310.1/SM 2320 B
Chloride	3.8	1.0	mg/L	11/04/04	TAM	325.2/4500-CL E
Sulfate	5.3	5.0	mg/L	11/04/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	11/12/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	0.12	0.05	mg/L	11/04/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	54	50	mg/L	11/05/04	INR	160.1/SM 2540 C
Calcium, Dissolved	8.7	0.50	mg/L	11/15/04	DWJ	EPA-200.7/6010B
Potassium, Dissolved	0.82	0.50	mg/L	11/15/04	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	1.4	0.50	mg/L	11/15/04	DWJ	EPA-200.7/6010B
Sodium, Dissolved	1.3	0.50	mg/L	11/15/04	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	11/15/04	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	11/15/04	DSC	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	11/13/04	DSC	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	11/13/04	DSC	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	11/15/04	DSC	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	11/15/04	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	11/13/04	DSC	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	11/15/04	DSC	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	11/15/04	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	11/15/04	DSC	EPA-200.8/6020
Iron, Dissolved	29	20	ug/L	11/15/04	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	11/15/04	DWJ	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	11/15/04	DWJ	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	11/13/04	DSC	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	11/13/04	DSC	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	11/15/04	DSC	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	11/13/04	DSC	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	11/13/04	DSC	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	11/13/04	DSC	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 11/03/04 @ 13:00
Sampler: P. Sabee
Received: 11/04/04 @ 08:40

Submittal #: **36162-25**
Submittal: Week of November 1, 2004

Sample ID: **QALM008D EAG- 1001243**
Sample #: **375484**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	66	2.0	mg/L	11/11/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	11/11/04	VAS	310.1/SM 2320 B
Chloride	6.3	1.0	mg/L	11/04/04	TAM	325.2/4500-CL E
Sulfate	11	5.0	mg/L	11/04/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	11/12/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	11/04/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	84	50	mg/L	11/05/04	INR	160.1/SM 2540 C
Calcium, Dissolved	15	0.50	mg/L	11/16/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	1.8	0.50	mg/L	11/16/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	2.9	0.50	mg/L	11/16/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	2.9	0.50	mg/L	11/16/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	11/16/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	11/17/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	3.2	2.0	ug/L	11/17/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	11/17/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	11/17/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	11/17/04	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	11/19/04	DSC	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	11/19/04	DSC	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	11/16/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	11/17/04	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	11/16/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	11/16/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	39	20	ug/L	11/16/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	11/19/04	DSC	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	11/17/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	11/17/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	11/17/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	11/17/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	11/17/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 11/03/04 @ 14:50
Sampler: P. Sabee
Received: 11/04/04 @ 08:40

Submittal #: **36162-25**
Submittal: Week of November 1, 2004

Sample ID: **QALM009D EAG- 1001245**
Sample #: **375485**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	66	2.0	mg/L	11/11/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	11/11/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	11/04/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	11/04/04	TAM	EPA-375.4/9038
Fluoride	0.14	0.10	mg/L	11/12/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	11/04/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	104	50	mg/L	11/05/04	INR	160.1/SM 2540 C
Calcium, Dissolved	18	0.50	mg/L	11/16/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.90	0.50	mg/L	11/16/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	4.0	0.50	mg/L	11/16/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	2.5	0.50	mg/L	11/16/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	11/16/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	11/17/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	11/17/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	11/17/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	11/17/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	11/17/04	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	11/19/04	DSC	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	11/19/04	DSC	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	11/16/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	11/17/04	JMF	EPA-200.8/6020
Iron, Dissolved	72	20	ug/L	11/16/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	11/16/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	21	20	ug/L	11/16/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	11/19/04	DSC	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	11/17/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	11/17/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	11/17/04	JMF	EPA-200.8/6020
Silver, Dissolved	1.1	0.2	ug/L	11/17/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	11/17/04	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 11/03/04 @ 14:10
Sampler: P. Sabee
Received: 11/04/04 @ 08:40

Submittal #: **36162-25**
Submittal: Week of November 1, 2004

Sample ID: **FBK001 EAG- 1001264**
Sample #: **375486**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	<2.0	2.0	mg/L	11/11/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	11/11/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	11/04/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	11/04/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	11/12/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	11/04/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	11/05/04	INR	160.1/SM 2540 C

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 11/03/04 @ 14:15
Sampler: P. Sabee
Received: 11/04/04 @ 08:40

Submittal #: **36162-25**
Submittal: Week of November 1, 2004

Sample ID: **FBK002 EAG- 1001265**
Sample #: **375487**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	<2.0	2.0	mg/L	11/11/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	11/11/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	11/04/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	11/04/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	11/12/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	11/04/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	11/05/04	INR	160.1/SM 2540 C

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 11/03/04 @ 14:20
Sampler: P. Sabee
Received: 11/04/04 @ 08:40

Submittal #: **36162-25**
Submittal: Week of November 1, 2004

Sample ID: **FBK003 EAG- 1001266**
Sample #: **375488**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	<2.0	2.0	mg/L	11/11/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	11/11/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	11/04/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	11/04/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	11/12/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	11/04/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	11/05/04	INR	160.1/SM 2540 C

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 11/03/04 @ 14:25
Sampler: P. Sabee
Received: 11/04/04 @ 08:40

Submittal #: **36162-25**
Submittal: Week of November 1, 2004

Sample ID: **FBK004 EAG- 1001267**
Sample #: **375489**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	<2.0	2.0	mg/L	11/11/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	11/11/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	11/04/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	11/04/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	11/12/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	11/04/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	11/05/04	INR	160.1/SM 2540 C

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 11/03/04 @ 14:30
Sampler: P. Sabee
Received: 11/04/04 @ 08:40

Submittal #: **36162-25**
Submittal: Week of November 1, 2004

Sample ID: **EQBM001 EAG- 1001260**
Sample #: **375490**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Calcium, Dissolved	<0.50	0.50	mg/L	11/16/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	11/16/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	11/16/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	11/16/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	11/16/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	11/17/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	11/17/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	11/17/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	11/17/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	11/17/04	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	11/19/04	DSC	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	11/19/04	DSC	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	11/16/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	11/17/04	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	11/16/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	11/16/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	11/16/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	11/19/04	DSC	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	11/17/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	11/17/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	11/17/04	JMF	EPA-200.8/6020
Silver, Dissolved	0.6	0.2	ug/L	11/17/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	11/17/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 11/03/04 @ 14:35
Sampler: P. Sabee
Received: 11/04/04 @ 08:40

Submittal #: **36162-25**
Submittal: Week of November 1, 2004

Sample ID: **EQBM002 EAG- 1001261**
Sample #: **375491**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Calcium, Dissolved	<0.50	0.50	mg/L	11/16/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	11/16/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	11/16/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	11/16/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	11/16/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	11/17/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	11/17/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	11/17/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	11/17/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	11/17/04	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	11/19/04	DSC	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	11/19/04	DSC	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	11/16/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	11/17/04	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	11/16/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	11/16/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	11/16/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	11/19/04	DSC	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	11/17/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	11/17/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	11/17/04	JMF	EPA-200.8/6020
Silver, Dissolved	0.4	0.2	ug/L	11/17/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	11/17/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 11/03/04 @ 14:40
Sampler: P. Sabee
Received: 11/04/04 @ 08:40

Submittal #: **36162-25**
Submittal: Week of November 1, 2004

Sample ID: **EQBM003 EAG- 1001262**
Sample #: **375492**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Calcium, Dissolved	<0.50	0.50	mg/L	11/16/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	11/16/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	11/16/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	11/16/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	11/16/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	11/17/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	11/17/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	11/17/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	11/17/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	11/17/04	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	11/19/04	DSC	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	11/19/04	DSC	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	11/16/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	11/17/04	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	11/16/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	11/16/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	11/16/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	11/19/04	DSC	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	11/17/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	11/17/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	11/17/04	JMF	EPA-200.8/6020
Silver, Dissolved	0.2	0.2	ug/L	11/17/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	11/17/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 11/03/04 @ 14:45
Sampler: P. Sabee
Received: 11/04/04 @ 08:40

Submittal #: **36162-25**
Submittal: Week of November 1, 2004

Sample ID: **EQBM004 EAG- 1001263**
Sample #: **375493**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Calcium, Dissolved	<0.50	0.50	mg/L	11/16/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	11/16/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	11/16/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	11/16/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	11/16/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	11/17/04	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	11/17/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	11/17/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	11/17/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	11/17/04	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	11/19/04	DSC	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	11/19/04	DSC	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	11/16/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	11/17/04	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	11/16/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	11/16/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	11/16/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	11/19/04	DSC	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	11/17/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	11/17/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	11/17/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	11/17/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	11/17/04	JMF	EPA-200.8/6020

End of Analytical Report

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Bicarbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/11/04	224577	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/11/04	224577	VAS	238	239	100	93-105

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Carbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/11/04	224577	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/11/04	224577	VAS	377	384	102	77-110

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QUALITY CONTROL REPORT

Parameter: **Aluminum, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/15/04	224790	DWJ	<100
11/16/04	224742	KLVM	<100

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/15/04	224790	DWJ	2500	2521	101	90-110
11/16/04	224742	KLVM	2500	2532	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/15/04	101270	DWJ	<100

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/15/04	101270	DWJ	1250	1281	102	86-120

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QUALITY CONTROL REPORT

Parameter: **Antimony, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/15/04	224687	DSC	<1.0
11/17/04	224881	JMF	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/15/04	224687	DSC	40	42.9	107	90-110
11/17/04	224881	JMF	40	40.5	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/15/04	101160	DSC	<2.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/15/04	101160	DSC	25	27.9	112	85-127

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/13/04	224623	DSC	<1.0
11/15/04	224687	DSC	<1.0
11/17/04	224881	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/13/04	224623	DSC	40	41.3	103	90-110
11/17/04	224881	JMF	40	38.5	96	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/13/04	101160	DSC	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/13/04	101160	DSC	25	25.4	102	85-115

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/13/04	224623	DSC	<5.0
11/17/04	224881	JMF	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/13/04	224623	DSC	40	42.4	106	90-110
11/17/04	224881	JMF	40	39.8	100	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/13/04	101160	DSC	<5.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/13/04	101160	DSC	25	25.2	101	86-119

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QUALITY CONTROL REPORT

Parameter: **Beryllium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/13/04	224623	DSC	<1.0
11/15/04	224687	DSC	<1.0
11/17/04	224881	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/15/04	224687	DSC	40	40.9	102	90-110
11/17/04	224881	JMF	40	38.1	95	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/15/04	101160	DSC	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/15/04	101160	DSC	25	24.7	99	81-116

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QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/13/04	224623	DSC	<0.2
11/19/04	224942	DSC	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/13/04	224623	DSC	40	43.1	108	90-110
11/19/04	224942	DSC	40	41.0	103	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/13/04	101160	DSC	<0.2

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/13/04	101160	DSC	25	26.4	106	82-110

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QUALITY CONTROL REPORT

Parameter: **Chloride**
Method: Colorimetric, Automated Ferricyanide 325.2/4500-CL E WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/04/04	224212	TAM	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/04/04	224212	TAM	78.1	78.1	100	92-109

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QUALITY CONTROL REPORT

Parameter: **Chromium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/15/04	224790	DWJ	<50

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QUALITY CONTROL REPORT

Parameter: **Chromium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/13/04	224623	DSC	<1.0
11/15/04	224687	DSC	<1.0
11/19/04	224942	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/15/04	224687	DSC	40	42.0	105	90-110
11/19/04	224942	DSC	40	43.0	108	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/15/04	101160	DSC	<2.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/15/04	101160	DSC	25	30.1	120	84-122

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QUALITY CONTROL REPORT

Parameter: **Cobalt, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/15/04	224790	DWJ	<10
11/16/04	224742	KLVM	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/15/04	224790	DWJ	500	485	97	90-110
11/16/04	224742	KLVM	500	509	102	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/15/04	101270	DWJ	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/15/04	101270	DWJ	250	247	99	84-117

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QUALITY CONTROL REPORT

Parameter: **Cobalt, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/15/04	224687	DSC	<10

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/15/04	224790	DWJ	<20

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/13/04	224623	DSC	<1.0
11/15/04	224687	DSC	<1.0
11/17/04	224881	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/15/04	224687	DSC	40	41.7	104	90-110
11/17/04	224881	JMF	40	37.2	93	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/15/04	101160	DSC	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/15/04	101160	DSC	25	27.6	110	86-123

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QUALITY CONTROL REPORT

Parameter: **Fluoride**
Method: Potentiometric, Ion Selective Electrode SM 4500 F-C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/12/04	224672	VAS	<0.10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/12/04	224672	VAS	3.43	3.42	100	88-116

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QUALITY CONTROL REPORT

Parameter: **Iron, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/15/04	224790	DWJ	<20
11/16/04	224742	KLVM	<20

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/15/04	224790	DWJ	500	520	104	90-110
11/16/04	224742	KLVM	500	506	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/15/04	101270	DWJ	<20

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/15/04	101270	DWJ	250	270	108	83-118

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QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/13/04	224623	DSC	<1.0
11/15/04	224687	DSC	<1.0
11/17/04	224881	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/15/04	224687	DSC	40	40.5	101	90-110
11/17/04	224881	JMF	40	38.3	96	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/15/04	101160	DSC	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/15/04	101160	DSC	25	27.5	110	89-119

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QUALITY CONTROL REPORT

Parameter: **Lithium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/15/04	224790	DWJ	<10
11/16/04	224742	KLVM	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/15/04	224790	DWJ	500	492	98	90-110
11/16/04	224742	KLVM	500	512	102	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/15/04	101270	DWJ	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/15/04	101270	DWJ	250	243	97	86-115

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QUALITY CONTROL REPORT

Parameter: **Magnesium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/15/04	224790	DWJ	<0.50
11/16/04	224742	KLVM	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/15/04	224790	DWJ	5.0	5.13	103	90-110
11/16/04	224742	KLVM	5.0	5.08	102	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/15/04	101270	DWJ	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/15/04	101270	DWJ	12.5	12.9	103	87-115

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/15/04	224790	DWJ	<20
11/16/04	224742	KLVM	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/15/04	224790	DWJ	500	490	98	90-110
11/16/04	224742	KLVM	500	509	102	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/15/04	101270	DWJ	<20

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/15/04	101270	DWJ	250	250	100	83-118

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/15/04	224790	DWJ	<50

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/13/04	224623	DSC	<1.0
11/15/04	224687	DSC	<1.0
11/17/04	224881	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/13/04	224623	DSC	40	42.5	106	90-110
11/17/04	224881	JMF	40	36.9	92	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/13/04	101160	DSC	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/13/04	101160	DSC	25	27.1	108	84-117

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrate**
Method: Colorimetric, Auto-Cadmium Reduction 353.2/4500 NO3F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/04/04	224128	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/04/04	224128	HLB	0.624	0.629	101	90-110

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QUALITY CONTROL REPORT

Parameter: **Potassium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/15/04	224790	DWJ	<0.10
11/16/04	224742	KLVM	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/15/04	224790	DWJ	5.0	5.09	102	90-110
11/16/04	224742	KLVM	5.0	4.83	97	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/15/04	101270	DWJ	<0.10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/15/04	101270	DWJ	12.5	12.9	103	87-125

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QUALITY CONTROL REPORT

Parameter: **Residue,Dissolved @ 180*C**
Method: Residue-Gravimetric, Dried @ 180*C 160.1/SM 2540 C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/05/04	224342	INR	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/05/04	224342	INR	1000.0	1050	105	90-108
11/05/04	224342	INR	1000.0	1040	104	90-108

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QUALITY CONTROL REPORT

Parameter: **Selenium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/13/04	224623	DSC	<1.0
11/15/04	224687	DSC	<1.0
11/17/04	224881	JMF	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/13/04	224623	DSC	40	41.6	104	90-110
11/17/04	224881	JMF	40	39.1	98	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/13/04	101160	DSC	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/13/04	101160	DSC	25	23.9	96	79-120

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QUALITY CONTROL REPORT

Parameter: **Silver, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/13/04	224623	DSC	<0.2
11/15/04	224687	DSC	<0.2
11/17/04	224881	JMF	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/13/04	224623	DSC	40	42.7	107	90-110
11/17/04	224881	JMF	40	41.4	104	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/13/04	101160	DSC	<0.2

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/13/04	101160	DSC	25	27.1	108	86-114

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QUALITY CONTROL REPORT

Parameter: **Sodium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/15/04	224790	DWJ	<0.50
11/16/04	224742	KLVM	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/15/04	224790	DWJ	5.0	4.86	97	90-110
11/16/04	224742	KLVM	5.0	4.92	98	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/15/04	101270	DWJ	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/15/04	101270	DWJ	12.5	13.1	105	86-117

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QUALITY CONTROL REPORT

Parameter: **Sulfate**
Method: Turbidimetric Method (Manual) EPA-375.4/9038 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/04/04	224567	TAM	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/04/04	224567	TAM	15.8	16.4	104	85-113

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QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/15/04	224790	DWJ	<20

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QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/13/04	224623	DSC	<4.0
11/15/04	224687	DSC	<4.0
11/17/04	224881	JMF	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/13/04	224623	DSC	40	42.0	105	90-110
11/17/04	224881	JMF	40	37.1	93	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/13/04	101160	DSC	**6.07**

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/13/04	101160	DSC	25	30.4	122	87-124

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Chain of Custody Record

COC No. 104966

Page 1 of 2

For Lab Use Only
Cart: 8
VOA Rack/Tray: NA
Receipt Log No.: 17-11
Project Chemist: JVK
Laboratory Project No.: 36162 - 25

Client Name: North Jackson Co
Address: PO Box 30
420 Rail St
Negaunee, MI 49866
Phone: 906-475-9882
Fax:

Project Name: Eagle
Client Project No. / P.O. No.: Eagle
Invoice To: ~~Client~~ Other (comments)
Contact/Report To: P. Sabee

Analyses Requested: Eagle GW List

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type A	Container Type B	Total	Sample Comments
				Number of Containers Submitted										
04	WG	375483	1	QALM008A		11/3/04	1225		X	Wtr	1	1	2	EAG-1001242
"	"	375484	2	QALM008D		"	1300		"	"	1	1	2	EAG-1001243
"	"	375485	3	QALM009D		"	1450		"	"	1	1	2	EAG-1001245
10	WG	375486	4	FBK001		"	1410		"	"	1		1	EAG-1001264
"	"	375487	5	FBK002		"	1415		"	"	1		1	EAG-1001265
"	"	375488	6	FBK003		"	1420		"	"	1		1	EAG-1001266
"	"	375489	7	FBK004		"	1425		"	"	1		1	EAG-1001267
09	"	375490	8	EQBM001		"	1430		"	"		1	1	EAG-1001260
"	"	375491	9	EQBM002		"	1435		"	"		1	1	EAG-1001261
"	"	375492	10	EQBM003		"	1440		"	"		1	1	EAG-1001262

Sampled By (print): P. Sabee
Sampler's Signature:
Company:

How Shipped? Hand Carrier: FedEx
Tracking No.:

Comments: John Cherry @ KMC

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
	11-3-04	1700						
1. Received By	**Date**	**Time**	**2. Received By**	**Date**	**Time**	**3. Received For Lab By**	**Date**	**Time**
							11-4-04	08:40

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www.trimatrixlabs.com

Chain of Custody Record

COC No. 104967

Page 1 of 2

For Lab Use Only

Cart: 8
VOA Rack/Tray: NA
Receipt Log No.: 17-11
Project Chemist:
Laboratory Project No.:

Client Name:
Address: Sup'l
Phone:
Fax:

Project Name:
Client Project No. / P.O. No.:
Invoice To ☐ Client ☐ Other (comments)
Contact/Report To:

Analyses Requested

⇦ PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List) B	Number of Containers Submitted								Total	Sample Comments
09	WG	375493	1	EQBM004		11/3/04	1445		X	WTR	1									1	EAG-1001263
			2																		
			3																		
			4																		
			5																		
			6																		
			7																		
			8																		
			9																		
			10																		

Sampled By (print):
Sampler's Signature:
Company:

How Shipped? Hand Carrier
Tracking No.

Comments:

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
	11-3-04	1700						
1. Received By	**Date**	**Time**	**2. Received By**	**Date**	**Time**	**3. Received For Lab By**	**Date**	**Time**
							11-4-04	08:40

TriMatrixCOC -- COC

WHITE COPY - REPORT YELLOW COPY - LABORATORY PINK COPY - FIELD

TriMatrix
Laboratories, Inc.

December 1, 2004

North Jackson Company
Attn: Mr. Peter Sabee
420 Rail Street
Negaunee, MI 49866

RE: Eagle
Submittal Number: 36162-26

Dear Mr. Peter Sabee:

Enclosed is a copy of your laboratory report for test samples received by our laboratory on November 11, 2004.

Please note that the test results of the enclosed analyses relate only to the sample(s) as received at the laboratory, and are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC) standards. Qualification of test standards, including sample acceptance requirements, are presented within the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosure(s)

The total number of pages in this report, including this page, is 63.

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Individual sample results relate only to the sample tested.

STATEMENT OF DATA QUALIFICATIONS

Analysis: **Iron, Total**
Atomic Emission-ICP
WATER EPA-200.7/6010B

Qualification:

The results between the sample and the serial dilution of the sample exceed the required 10% difference criteria. A chemical or physical interference should be suspected. The reported result must be considered estimated. The amount found in the serial dilution and the percent difference are:

Explanation for Sample(s) listed below:

The serial dilution read 1010 ug/L, a 35% difference.

Sample(s) Qualified: 376148 YDRMS002 EAG- 1001271

Analysis: **Carbon, Total Organic**
Organic Carbon, Total
WATER 4151/5310D/9060

Qualification:

The analytical requirements of the method require quadruplicate analysis on every sample submitted for TOC testing. The reporting requirements require both the average and the range of the four analyses be reported. The result reported is the average; the range of the replicates is:

Explanation for Sample(s) listed below:

0.000 - 0.083

Sample(s) Qualified: 376154 FBKS001 EAG- 1001275

Note: This document is included as a part of the analytical report for the above referenced project and submittal, and should be retained as a permanent record thereof.

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Carbon, Total Organic**
Organic Carbon, Total
WATER 4151/5310D/9060

Qualification:

The analytical requirements of the method require quadruplicate analysis on every sample submitted for TOC testing. The reporting requirements require both the average and the range of the four analyses be reported. The result reported is the average; the range of the replicates is:

Explanation for Sample(s) listed below:

12.073 - 12.235

Sample(s) Qualified:	376148	YDRMS002	EAG-	1001271

Explanation for Sample(s) listed below:

3.182 - 3.280

Sample(s) Qualified:	376150	CDRMS004	EAG-	1001272

Explanation for Sample(s) listed below:

3.622 - 3.721

Sample(s) Qualified:	376151	SRTMS003	EAG-	1001269

Explanation for Sample(s) listed below:

4.766 - 4.957

Sample(s) Qualified:	376152	DUPS001	EAG-	1001273

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Carbon, Total Organic**
Organic Carbon, Total
WATER 4151/5310D/9060

Qualification:

The analytical requirements of the method require quadruplicate analysis on every sample submitted for TOC testing. The reporting requirements require both the average and the range of the four analyses be reported. The result reported is the average; the range of the replicates is:

Explanation for Sample(s) listed below:

4.922 - 5.075

Sample(s) Qualified:	376147	STRMS001	EAG-	1001270

Explanation for Sample(s) listed below:

6.514 - 6.771

Sample(s) Qualified:	376149	STRMS002	EAG-	1001268

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CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

5.31

Sample(s) Narrated:	376154	FBKS001	EAG-	1001275

Explanation for Sample(s) listed below:

6.56

Sample(s) Narrated:	376152	DUPS001	EAG-	1001273

Explanation for Sample(s) listed below:

6.84

Sample(s) Narrated:	376147	STRMS001	EAG-	1001270

Explanation for Sample(s) listed below:

6.90

Sample(s) Narrated:	376149	STRMS002	EAG-	1001268

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CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

7.02

Sample(s) Narrated:	376148	YDRMS002	EAG-	1001271

Explanation for Sample(s) listed below:

7.18

Sample(s) Narrated:	376151	SRTMS003	EAG-	1001269

Explanation for Sample(s) listed below:

7.55

Sample(s) Narrated:	376150	CDRMS004	EAG-	1001272

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CASE NARRATIVE

Analysis: **Nickel, Total**
ICP Mass Spectrometry (ICP-MS)
WATER EPA-200.8/6020

Narrative:

The quantitated values of the isotopes monitored for this analyte exceeded a difference of 25%. The lower of the two values has been reported.

Sample(s) Narrated: 376150 CDRMS004 EAG- 1001272

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TriMatrix
Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 11/09/04 @ 14:00
Sampler: P. Sable
Received: 11/10/04 @ 08:55

Submittal #: **36162-26**
Submittal: Week of November 8, 2004

Sample ID: **STRMS001 EAG- 1001270**
Sample #: **376147**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	13	2.0	mg/L	11/11/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	11/11/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	11/11/04	TAM	325.2/4500-CL E
Nitrogen, Ammonia	<0.05	0.05	mg/L	11/16/04	GEH	350.1/4500 NH3G
Nitrogen, Nitrate	<0.05	0.05	mg/L	11/10/04	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	11/10/04	HLB	USEPA-353.2
Sulfate	<5.0	5.0	mg/L	11/11/04	TAM	EPA-375.4/9038
Residue,Dissolved @ 180*C	<20	20	mg/L	11/12/04	INR	160.1/SM 2540 C
Residue, Suspended	<3	3	mg/L	11/12/04	INR	160.2/SM 2540 D
Alkalinity, Total	13	2.0	mg/L	11/11/04	VAS	310.1/SM 2320 B
Chemical Oxygen Demand	15	5.0	mg/L	11/12/04	JMJ	410.4/SM 5220 D
* Carbon, Total Organic	5.0	1.0	mg/L	11/11/04	GEH	4151/5310D/9060
BOD, (5-Day)	<1.0	1.0	mg/L	11/10/04	JLB	SDM 5210B
Color (Apparent)	25	5	A.C.U.	11/10/04	GEH	USEPA-110.2
Turbidity	<1.0	1.0	NTU	11/10/04	HLB	USEPA-180.1
Iron, Total	350	20	ug/L	11/15/04	DWJ	EPA-200.7/6010B
Arsenic, Total	<1.0	1.0	ug/L	11/13/04	DSC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	11/13/04	DSC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	11/13/04	DSC	EPA-200.8/6020
Manganese, Total	17	10	ug/L	11/23/04	JMF	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	11/13/04	DSC	EPA-200.8/6020
Calcium, Dissolved	4.5	0.50	mg/L	11/23/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.65	0.50	mg/L	11/23/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	1.1	0.50	mg/L	11/23/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	11/23/04	KLVM	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 11/09/04 @ 13:00
Sampler: P. Sable
Received: 11/10/04 @ 08:55

Submittal #: **36162-26**
Submittal: Week of November 8, 2004

Sample ID: **YDRMS002 EAG- 1001271**
Sample #: **376148**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	18	2.0	mg/L	11/11/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	11/11/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	11/11/04	TAM	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	11/16/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	11/10/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	11/10/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	11/11/04	TAM	EPA-375.4/9038
	Residue,Dissolved @ 180*C	25	20	mg/L	11/12/04	INR	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	11/12/04	INR	160.2/SM 2540 D
	Alkalinity, Total	18	2.0	mg/L	11/11/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	33	5.0	mg/L	11/12/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	12	1.0	mg/L	11/11/04	GEH	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	11/10/04	JLB	SDM 5210B
	Color (Apparent)	100	25	A.C.U.	11/10/04	GEH	USEPA-110.2
	Turbidity	1.6	1.0	NTU	11/10/04	HLB	USEPA-180.1
*	Iron, Total	750	20	ug/L	11/15/04	DWJ	EPA-200.7/6010B
	Arsenic, Total	<1.0	1.0	ug/L	11/13/04	DSC	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	11/13/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	11/13/04	DSC	EPA-200.8/6020
	Manganese, Total	34	10	ug/L	11/23/04	JMF	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	11/13/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	7.5	0.50	mg/L	11/15/04	DWJ	EPA-200.7/6010B
	Potassium, Dissolved	<0.50	0.50	mg/L	11/15/04	DWJ	EPA-200.7/6010B
	Magnesium, Dissolved	1.6	0.50	mg/L	11/15/04	DWJ	EPA-200.7/6010B
	Sodium, Dissolved	0.86	0.50	mg/L	11/22/04	KLVM	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 11/09/04 @ 12:30
Sampler: P. Sable
Received: 11/10/04 @ 08:55

Submittal #: **36162-26**
Submittal: Week of November 8, 2004

Sample ID: **STRMS002 EAG- 1001268**
Sample #: **376149**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	36	2.0	mg/L	11/11/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	11/11/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	11/11/04	TAM	325.2/4500-CL E
Nitrogen, Ammonia	<0.05	0.05	mg/L	11/16/04	GEH	350.1/4500 NH3G
Nitrogen, Nitrate	<0.05	0.05	mg/L	11/10/04	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	11/10/04	HLB	USEPA-353.2
Sulfate	<5.0	5.0	mg/L	11/11/04	TAM	EPA-375.4/9038
Residue,Dissolved @ 180*C	<20	20	mg/L	11/12/04	INR	160.1/SM 2540 C
Residue, Suspended	<3	3	mg/L	11/12/04	INR	160.2/SM 2540 D
Alkalinity, Total	36	2.0	mg/L	11/11/04	VAS	310.1/SM 2320 B
Chemical Oxygen Demand	19	5.0	mg/L	11/12/04	JMJ	410.4/SM 5220 D
* Carbon, Total Organic	6.6	1.0	mg/L	11/12/04	GEH	4151/5310D/9060
BOD, (5-Day)	<1.0	1.0	mg/L	11/10/04	JLB	SDM 5210B
Color (Apparent)	70	10	A.C.U.	11/10/04	GEH	USEPA-110.2
Turbidity	1.3	1.0	NTU	11/10/04	HLB	USEPA-180.1
Iron, Total	320	20	ug/L	11/15/04	DWJ	EPA-200.7/6010B
Arsenic, Total	<1.0	1.0	ug/L	11/13/04	DSC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	11/13/04	DSC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	11/13/04	DSC	EPA-200.8/6020
Manganese, Total	12	10	ug/L	11/23/04	JMF	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	11/13/04	DSC	EPA-200.8/6020
Calcium, Dissolved	7.9	0.50	mg/L	11/23/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.64	0.50	mg/L	11/23/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	1.7	0.50	mg/L	11/23/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	11/23/04	KLVM	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 11/09/04 @ 11:15
Sampler: P. Sable
Received: 11/10/04 @ 08:55

Submittal #: **36162-26**
Submittal: Week of November 8, 2004

Sample ID: **CDRMS004 EAG- 1001272**
Sample #: **376150**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	68	2.0	mg/L	11/11/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	11/11/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	11/11/04	TAM	325.2/4500-CL E
Nitrogen, Ammonia	<0.05	0.05	mg/L	11/16/04	GEH	350.1/4500 NH3G
Nitrogen, Nitrate	<0.05	0.05	mg/L	11/10/04	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	11/10/04	HLB	USEPA-353.2
Sulfate	<5.0	5.0	mg/L	11/11/04	TAM	EPA-375.4/9038
Residue,Dissolved @ 180*C	90	20	mg/L	11/12/04	INR	160.1/SM 2540 C
Residue, Suspended	<3	3	mg/L	11/12/04	INR	160.2/SM 2540 D
Alkalinity, Total	68	2.0	mg/L	11/11/04	VAS	310.1/SM 2320 B
Chemical Oxygen Demand	9.5	5.0	mg/L	11/12/04	JMJ	410.4/SM 5220 D
* Carbon, Total Organic	3.2	1.0	mg/L	11/12/04	GEH	4151/5310D/9060
BOD, (5-Day)	<1.0	1.0	mg/L	11/10/04	JLB	SDM 5210B
Color (Apparent)	20	5	A.C.U.	11/10/04	GEH	USEPA-110.2
Turbidity	<1.0	1.0	NTU	11/10/04	HLB	USEPA-180.1
Iron, Total	100	20	ug/L	11/15/04	DWJ	EPA-200.7/6010B
Arsenic, Total	1.3	1.0	ug/L	11/13/04	DSC	EPA-200.8/6020
Barium, Total	11	10	ug/L	11/13/04	DSC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	11/13/04	DSC	EPA-200.8/6020
Manganese, Total	13	10	ug/L	11/23/04	JMF	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	11/13/04	DSC	EPA-200.8/6020
Calcium, Dissolved	21	0.50	mg/L	11/23/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	11/23/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	3.6	0.50	mg/L	11/23/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	1.0	0.50	mg/L	11/23/04	KLVM	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 11/09/04 @ 10:30
Sampler: P. Sable
Received: 11/10/04 @ 08:55

Submittal #: **36162-26**
Submittal: Week of November 8, 2004

Sample ID: **SRTMS003 EAG- 1001269**
Sample #: **376151**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	41	2.0	mg/L	11/11/04	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	11/11/04	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	11/11/04	TAM	325.2/4500-CL E
	Nitrogen, Ammonia	<0.05	0.05	mg/L	11/16/04	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	0.13	0.05	mg/L	11/10/04	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	11/10/04	HLB	USEPA-353.2
	Sulfate	<5.0	5.0	mg/L	11/11/04	TAM	EPA-375.4/9038
	Residue,Dissolved @ 180*C	<20	20	mg/L	11/12/04	INR	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	11/12/04	INR	160.2/SM 2540 D
	Alkalinity, Total	41	2.0	mg/L	11/11/04	VAS	310.1/SM 2320 B
	Chemical Oxygen Demand	12	5.0	mg/L	11/12/04	JMJ	410.4/SM 5220 D
*	Carbon, Total Organic	3.7	1.0	mg/L	11/12/04	GEH	4151/5310D/9060
	BOD, (5-Day)	<1.0	1.0	mg/L	11/10/04	JLB	SDM 5210B
	Color (Apparent)	30	5	A.C.U.	11/10/04	GEH	USEPA-110.2
	Turbidity	1.1	1.0	NTU	11/10/04	HLB	USEPA-180.1
	Iron, Total	160	20	ug/L	11/15/04	DWJ	EPA-200.7/6010B
	Arsenic, Total	<1.0	1.0	ug/L	11/13/04	DSC	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	11/13/04	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	11/13/04	DSC	EPA-200.8/6020
	Manganese, Total	<10	10	ug/L	11/23/04	JMF	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	11/13/04	DSC	EPA-200.8/6020
	Calcium, Dissolved	13	0.50	mg/L	11/23/04	KLVM	EPA-200.7/6010B
	Potassium, Dissolved	0.54	0.50	mg/L	11/23/04	KLVM	EPA-200.7/6010B
	Magnesium, Dissolved	2.4	0.50	mg/L	11/23/04	KLVM	EPA-200.7/6010B
	Sodium, Dissolved	0.65	0.50	mg/L	11/23/04	KLVM	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 11/09/04 @ 00:00
Sampler: P. Sable
Received: 11/10/04 @ 08:55

Submittal #: **36162-26**
Submittal: Week of November 8, 2004

Sample ID: **DUPS001 EAG- 1001273**
Sample #: **376152**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	14	2.0	mg/L	11/11/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	11/11/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	11/11/04	TAM	325.2/4500-CL E
Nitrogen, Ammonia	<0.05	0.05	mg/L	11/16/04	GEH	350.1/4500 NH3G
Nitrogen, Nitrate	<0.05	0.05	mg/L	11/10/04	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	11/10/04	HLB	USEPA-353.2
Sulfate	<5.0	5.0	mg/L	11/11/04	TAM	EPA-375.4/9038
Residue,Dissolved @ 180*C	<20	20	mg/L	11/12/04	INR	160.1/SM 2540 C
Residue, Suspended	<3	3	mg/L	11/12/04	INR	160.2/SM 2540 D
Alkalinity, Total	14	2.0	mg/L	11/11/04	VAS	310.1/SM 2320 B
Chemical Oxygen Demand	13	5.0	mg/L	11/12/04	JMJ	410.4/SM 5220 D
* Carbon, Total Organic	4.9	1.0	mg/L	11/12/04	GEH	4151/5310D/9060
BOD, (5-Day)	<1.0	1.0	mg/L	11/10/04	JLB	SDM 5210B
Color (Apparent)	30	5	A.C.U.	11/10/04	GEH	USEPA-110.2
Turbidity	<1.0	1.0	NTU	11/10/04	HLB	USEPA-180.1
Iron, Total	330	20	ug/L	11/15/04	DWJ	EPA-200.7/6010B
Arsenic, Total	<1.0	1.0	ug/L	11/13/04	DSC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	11/13/04	DSC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	11/13/04	DSC	EPA-200.8/6020
Manganese, Total	17	10	ug/L	11/23/04	JMF	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	11/13/04	DSC	EPA-200.8/6020
Calcium, Dissolved	4.5	0.50	mg/L	11/23/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.62	0.50	mg/L	11/23/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	1.1	0.50	mg/L	11/23/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	11/23/04	KLVM	EPA-200.7/6010B

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 11/09/04 @ 08:00
Sampler: P. Sable
Received: 11/10/04 @ 08:55

Submittal #: **36162-26**
Submittal: Week of November 8, 2004

Sample ID: **EQBS001 EAG- 1001274**
Sample #: **376153**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Calcium, Dissolved	<0.50	0.50	mg/L	11/19/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	11/19/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	11/19/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	11/19/04	KLVM	EPA-200.7/6010B

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 11/09/04 @ 08:00
Sampler: P. Sable
Received: 11/10/04 @ 08:55

Submittal #: **36162-26**
Submittal: Week of November 8, 2004

Sample ID: **FBKS001 EAG- 1001275**
Sample #: **376154**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	<2.0	2.0	mg/L	11/11/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	11/11/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	11/11/04	TAM	325.2/4500-CL E
Nitrogen, Ammonia	<0.05	0.05	mg/L	11/16/04	GEH	350.1/4500 NH3G
Nitrogen, Nitrate	<0.05	0.05	mg/L	11/10/04	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	11/10/04	HLB	USEPA-353.2
Sulfate	<5.0	5.0	mg/L	11/11/04	TAM	EPA-375.4/9038
Residue,Dissolved @ 180*C	<20	20	mg/L	11/12/04	INR	160.1/SM 2540 C
Residue, Suspended	<3	3	mg/L	11/12/04	INR	160.2/SM 2540 D
Alkalinity, Total	<2.0	2.0	mg/L	11/11/04	VAS	310.1/SM 2320 B
Chemical Oxygen Demand	<5.0	5.0	mg/L	11/12/04	JMJ	410.4/SM 5220 D
* Carbon, Total Organic	<1.0	1.0	mg/L	11/12/04	GEH	4151/5310D/9060
BOD, (5-Day)	<1.0	1.0	mg/L	11/10/04	JLB	SDM 5210B
Color (Apparent)	<5	5	A.C.U.	11/10/04	GEH	USEPA-110.2
Turbidity	<1.0	1.0	NTU	11/10/04	HLB	USEPA-180.1
Iron, Total	<20	20	ug/L	11/15/04	DWJ	EPA-200.7/6010B
Arsenic, Total	<1.0	1.0	ug/L	11/13/04	DSC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	11/13/04	DSC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	11/13/04	DSC	EPA-200.8/6020
Manganese, Total	<10	10	ug/L	11/23/04	JMF	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	11/13/04	DSC	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 11/10/04 @ 12:15
Sampler: D.W./R.E.
Received: 11/11/04 @ 09:30

Submittal #: **36162-26**
Submittal: Week of November 8, 2004

Sample ID: **STRES0XX EAG- 1001150**
Sample #: **376284**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	77	2.0	mg/L	11/19/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	11/19/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	11/11/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	11/11/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	11/12/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	0.12	0.05	mg/L	11/11/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	11/12/04	INR	160.1/SM 2540 C
Calcium, Dissolved	21	0.50	mg/L	11/19/04	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.60	0.50	mg/L	11/19/04	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	3.4	0.50	mg/L	11/19/04	KLVM	EPA-200.7/6010B
Sodium, Dissolved	0.85	0.50	mg/L	11/19/04	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	11/19/04	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	11/24/04	DSC	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	11/24/04	DSC	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	11/24/04	DSC	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	11/30/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	11/22/04	KLVM	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	11/24/04	DSC	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	11/24/04	DSC	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	11/19/04	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	11/24/04	DSC	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	11/19/04	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	11/19/04	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	11/19/04	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	11/24/04	DSC	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	11/24/04	DSC	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	11/24/04	DSC	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	11/24/04	DSC	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	11/24/04	DSC	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	11/24/04	DSC	EPA-200.8/6020

End of Analytical Report

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Bicarbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/11/04	224577	VAS	<2.0
11/19/04	225077	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/11/04	224577	VAS	238	239	100	93-105
11/19/04	225077	VAS	238	243	102	93-105

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Carbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/11/04	224577	VAS	<2.0
11/19/04	225077	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/11/04	224577	VAS	377	384	102	77-110
11/19/04	225077	VAS	377	396	105	77-110

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Total**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/11/04	224577	VAS	<2.0
11/19/04	225077	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/11/04	224577	VAS	238	239	100	92-105

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QUALITY CONTROL REPORT

Parameter: **Aluminum, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/15/04	224790	DWJ	<100
11/19/04	225005	KLVM	<100

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/19/04	225005	KLVM	2500	2519	101	90-110

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QUALITY CONTROL REPORT

Parameter: **Antimony, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/24/04	225312	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/24/04	225312	DSC	40	38.8	97	90-110

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/22/04	225050	KLVM	<200

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/13/04	224623	DSC	<1.0
11/24/04	225312	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/13/04	224623	DSC	40	41.3	103	90-110
11/24/04	225312	DSC	40	41.2	103	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/13/04	101167	DSC	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/13/04	101167	DSC	25	25.8	103	85-115

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/22/04	225050	KLVM	<10

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/13/04	224623	DSC	<5.0
11/24/04	225312	DSC	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/13/04	224623	DSC	40	42.4	106	90-110
11/24/04	225312	DSC	40	39.5	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/13/04	101167	DSC	<5.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/13/04	101167	DSC	25	26.2	105	86-119

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QUALITY CONTROL REPORT

Parameter: **Beryllium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/13/04	224623	DSC	<1.0
11/30/04	225421	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/30/04	225421	JMF	40	40.0	100	90-110

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QUALITY CONTROL REPORT

Parameter: **BOD, (5-Day)**
Method: Biochemical Oxygen Demand SDM 5210B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/10/04	224820	JLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/10/04	224820	JLB	198	183	92	85-115

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QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/22/04	225050	KLVM	<10

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QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/13/04	224623	DSC	<0.2
11/24/04	225312	DSC	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/24/04	225312	DSC	40	40.9	102	90-110

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QUALITY CONTROL REPORT

Parameter: **Carbon, Total Organic**
Method: Organic Carbon, Total 4151/5310D/9060 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/11/04	224796	GEH	<0.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/11/04	224796	GEH	25	25	100	90-110

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QUALITY CONTROL REPORT

Parameter: **Chemical Oxygen Demand**
Method: Closed Reflux, Colorimetric Method 410.4/SM 5220 D WATER
Units: mg/L

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/12/04	101165	JMJ	<5.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/12/04	101165	JMJ	30	28	93	90-110

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QUALITY CONTROL REPORT

Parameter: **Chloride**
Method: Colorimetric, Automated Ferricyanide 325.2/4500-CL E WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/11/04	224786	TAM	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/11/04	224786	TAM	78.1	77.2	99	92-109

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QUALITY CONTROL REPORT

Parameter: **Chromium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/15/04	224790	DWJ	<50
11/22/04	225050	KLVM	<50

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QUALITY CONTROL REPORT

Parameter: **Chromium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/13/04	224623	DSC	<1.0
11/23/04	225120	JMF	<1.0
11/24/04	225312	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/24/04	225312	DSC	40	41.6	104	90-110

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QUALITY CONTROL REPORT

Parameter: **Cobalt, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/15/04	224790	DWJ	<10
11/19/04	225005	KLVM	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/19/04	225005	KLVM	500	501	100	90-110

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QUALITY CONTROL REPORT

Parameter: **Color (Apparent)**
Method: Colorimetric, Platinum-Cobalt USEPA-110.2 WATER
Units: A.C.U.

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/10/04	225042	GEH	<5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/10/04	225042	GEH	50	50	100	80-120

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/15/04	224790	DWJ	<20
11/22/04	225050	KLVM	<10

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/13/04	224623	DSC	<1.0
11/24/04	225312	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/13/04	224623	DSC	40	42.2	106	90-110
11/24/04	225312	DSC	40	40.1	100	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/13/04	101167	DSC	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/13/04	101167	DSC	25	28.8	115	86-123

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QUALITY CONTROL REPORT

Parameter: **Fluoride**
Method: Potentiometric, Ion Selective Electrode SM 4500 F-C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/12/04	224672	VAS	<0.10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/12/04	224672	VAS	3.43	3.42	100	88-116

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QUALITY CONTROL REPORT

Parameter: **Iron, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/15/04	224790	DWJ	<20
11/19/04	225005	KLVM	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/15/04	224790	DWJ	500	520	104	90-110
11/19/04	225005	KLVM	500	500	100	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/15/04	101320	DWJ	<20

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/15/04	101320	DWJ	250	240	96	83-118

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QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/22/04	225050	KLVM	<50

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QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/13/04	224623	DSC	<1.0
11/24/04	225312	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/24/04	225312	DSC	40	38.7	97	90-110

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QUALITY CONTROL REPORT

Parameter: **Lithium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/15/04	224790	DWJ	<10
11/19/04	225005	KLVM	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/19/04	225005	KLVM	500	510	102	90-110

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QUALITY CONTROL REPORT

Parameter: **Magnesium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/15/04	224790	DWJ	<0.50
11/19/04	225005	KLVM	<0.50
11/23/04	225101	KLVM	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/15/04	224790	DWJ	5.0	5.13	103	90-110
11/19/04	225005	KLVM	5.0	4.99	100	90-110
11/23/04	225101	KLVM	5.0	4.96	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/15/04	101320	DWJ	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/15/04	101320	DWJ	12.5	12.0	96	87-115

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/15/04	224790	DWJ	<20
11/19/04	225005	KLVM	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/19/04	225005	KLVM	500	501	100	90-110

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/23/04	225120	JMF	<5.0
11/24/04	225312	DSC	<5.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/23/04	225120	JMF	40	40.1	100	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/17/04	101167	JMF	<5.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/17/04	101167	JMF	25	28.6	114	86-124

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/15/04	224790	DWJ	<50

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/13/04	224623	DSC	<1.0
11/24/04	225312	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/13/04	224623	DSC	40	42.5	106	90-110
11/24/04	225312	DSC	40	41.0	103	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/13/04	101167	DSC	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/13/04	101167	DSC	25	27.9	112	84-117

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Ammonia**
Method: Colorimetric, Automated Phenate 350.1/4500 NH3G WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/16/04	224825	GEH	<0.01

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/16/04	224825	GEH	0.765	0.744	97	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrate**
Method: Colorimetric, Auto-Cadmium Reduction 353.2/4500 NO3F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/10/04	224509	HLB	<0.05
11/11/04	225049	HLB	<0.01

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/10/04	224509	HLB	0.624	0.623	100	90-110
11/11/04	225049	HLB	0.624	0.623	100	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrite**
Method: Colorimetric, Automated USEPA-353.2 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/10/04	224514	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/10/04	224514	HLB	0.50	0.50	100	90-110

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QUALITY CONTROL REPORT

Parameter: **Potassium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/15/04	224790	DWJ	<0.10
11/19/04	225005	KLVM	<0.20
11/22/04	225050	KLVM	<0.50
11/22/04	225239	KLVM	<0.50
11/23/04	225101	KLVM	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/15/04	224790	DWJ	5.0	5.09	102	90-110
11/19/04	225005	KLVM	5.0	4.71	94	90-110
11/23/04	225101	KLVM	5.0	5.15	103	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/15/04	101320	DWJ	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/15/04	101320	DWJ	12.5	12.8	102	87-125

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QUALITY CONTROL REPORT

Parameter: **Residue,Dissolved @ 180*C**
Method: Residue-Gravimetric, Dried @ 180*C 160.1/SM 2540 C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/12/04	224748	INR	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/12/04	224748	INR	1000	989	99	90-108
11/12/04	224748	INR	1000	1020	102	90-108

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QUALITY CONTROL REPORT

Parameter: **Residue, Suspended**
Method: Residue-Gravimetric, Dried @ 103-105*C 160.2/SM 2540 D WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/12/04	224712	INR	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/12/04	224712	INR	1000	1040	104	89-106
11/12/04	224712	INR	1000	993	99	89-106

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QUALITY CONTROL REPORT

Parameter: **Selenium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/22/04	225050	KLVM	<100

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QUALITY CONTROL REPORT

Parameter: **Selenium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/13/04	224623	DSC	<1.0
11/24/04	225312	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/24/04	225312	DSC	40	40.6	102	90-110

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QUALITY CONTROL REPORT

Parameter: **Silver, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/22/04	225050	KLVM	<10

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QUALITY CONTROL REPORT

Parameter: **Silver, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/13/04	224623	DSC	<0.2
11/24/04	225312	DSC	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/24/04	225312	DSC	40	40.6	102	90-110

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QUALITY CONTROL REPORT

Parameter: **Sodium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/15/04	224790	DWJ	<0.50
11/19/04	225005	KLVM	<0.50
11/22/04	225050	KLVM	<0.50
11/22/04	225239	KLVM	<0.50
11/23/04	225101	KLVM	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/19/04	225005	KLVM	5.0	4.89	98	90-110
11/22/04	225050	KLVM	5.0	4.83	97	90-110
11/23/04	225101	KLVM	5.0	4.70	94	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
11/22/04	101320	KLVM	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/22/04	101320	KLVM	12.5	12.7	102	86-117

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QUALITY CONTROL REPORT

Parameter: **Sulfate**
Method: Turbidimetric Method (Manual) EPA-375.4/9038 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/11/04	224676	TAM	<5.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/11/04	224676	TAM	15.8	16.8	106	85-113

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QUALITY CONTROL REPORT

Parameter: **Turbidity**
Method: Nephelometric USEPA-180.1 WATER
Units: NTU

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/10/04	225047	HLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/10/04	225047	HLB	402	384	96	90-110

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QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/15/04	224790	DWJ	<20
11/22/04	225050	KLVM	<20

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QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
11/13/04	224623	DSC	<4.0
11/23/04	225120	JMF	<10
11/24/04	225312	DSC	<4.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
11/24/04	225312	DSC	40	41.3	103	90-110

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Chain of Custody Record

COC No. 104968

Page 1 of 1

For Lab Use Only

Cart: 8
VOA Rack/Tray:
Receipt Log No.: 29-4
Project Chemist: JK
Laboratory Project No.: 36162-26

Client Name: North Jackson
Address: PO Box 30
Negaunee MI. 49866
Phone: 906 475 9802
Fax:

Project Name: EAGLE
Client Project No. / P.O. No.:
Invoice To: ☐ Client ☒ Other (comments)
Contact/Report To: D. Wahlin

Analyses Requested

3 6 4
15 11
E-mail

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

	Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type A	B	C	Total	Sample Comments
				Number of Containers Submitted											
1	06	WS	376147	STRMS001	TM1055	11-9-04	1400		X	W	2	2	4		EAG-100 1270
2			376148	SDRMS002			1300								EAG-100 1271
3			376149	STRMS002	↓		1230								EAG-1001268
4			376150	CDRMS004	TM1087		1115								EAG-1001272
5			376151	STRMS003	↓		1030								EAG-1001269
6	↓		376152	DUP5001	TM1055		—								EAG-1001273
7	44	WG	376153	EQB5001	TM1087		0800						15		EAG-1001274
8	14	↓	376154	FBK5001	TM1087		0800		↓	↓	↓	↓	3,3,4,6,11		EAG-1001275
9															
10															

Sampled By (print): P. BABCOCK
Sampler's Signature:
Company: NJC

How Shipped? Hand Carrier Fed Ex
Tracking No.

Comments: Bill KMC
Attn Jon Chamberlain

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
	11-9-04	1630						
1. Received By	**Date**	**Time**	**2. Received By**	**Date**	**Time**	**3. Received For Lab By**	**Date**	**Time**
						Lu Parker	11/10/04	8:55

TriMatrixCOC -- COC

WHITE COPY - REPORT YELLOW COPY - LABORATORY PINK COPY - FIELD

TriMatrix Laboratories, Inc.

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Phone (616) 975-4500 Fax (616) 942-7463
www.trimatrixlabs.com

Chain of Custody Record

COC No. 104964

Page 1 of 1

For Lab Use Only

Cart: 4
VOA Rack/Tray: NA
Receipt Log No.: 31-5
Project Chemist: JR
Laboratory Project No.: 36162-2L

Client Name: North Jackson Co
Address: 420 Rail St
Negaunee MI 49866
Phone: 906-475-9865
Fax: 906-475-0238

Project Name: Eagle
Client Project No. / P.O. No.:
Invoice To: ☐ Client ☑ Other (comments)
Contact/Report To:

Analyses Requested

A B B (filtered)

⇦ PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List)	Number of Containers Submitted	Total	Sample Comments
04	WG	376284	1 STRESOXX		11-10-04	1215		X	WW	2 1 1	- 4 total		(1) Run Hydrocarbons 1,3,5 Trimethyl
			2 EAG-100150										(2) - Note that Full Sample ID will be sent by e-mail including correct sequence numerical "EAG" series number.
			3										
			4										
			5										
			6										
			7										
			8										
			9										
			10										

Sampled By (print): Dan Wiitala/Richard Eagle
Sampler's Signature: Dan Wiitala/Richard Eagle
Company: North Jackson Co.

How Shipped? Hand Carrier FedEx
Tracking No.

Comments: Invoice to Kennecott Minerals Co.
- Note: Filtered Sample labeled on red tag

1. Relinquished By	Date	Time
Dan Wiitala	11-10-04	18:00

2. Relinquished By	Date	Time

3. Relinquished By	Date	Time

1. Received By	Date	Time

2. Received By	Date	Time

3. Received For Lab By	Date	Time
John Case	11-11-04	

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CG-30

January 6, 2005

North Jackson Company
Attn: Mr. Peter Sabee
P.O Box 218
Marquette, MI 49855

RE: Eagle
Submittal Number: 36162-27

Dear Mr. Peter Sabee:

Enclosed is a copy of your laboratory report for test samples received by our laboratory on December 16, 2004.

Please note that the test results of the enclosed analyses relate only to the sample(s) as received at the laboratory, and are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC) standards. Qualification of test standards, including sample acceptance requirements, are presented within the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosure(s)

The total number of pages in this report, including this page, is 63.

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Individual sample results relate only to the sample tested.

STATEMENT OF DATA QUALIFICATIONS

All analyses have been validated and comply with our Quality Control Program. No qualifications required.

Page 1 - **End of Statement of Data Qualifications**

Note: This document is included as a part of the analytical report for the above referenced project and submittal, and should be retained as a permanent record thereof.

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CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

5.63

Sample(s) Narrated:	379150	FBKS001	EAG-	1001325

Explanation for Sample(s) listed below:

6.42

Sample(s) Narrated:	379144	STRMS002	EAG-	1001319

Explanation for Sample(s) listed below:

6.65

Sample(s) Narrated:	379145	STRMS004	EAG-	1001320

Explanation for Sample(s) listed below:

7.00

Sample(s) Narrated:	379149	DUPS001	EAG-	1001324

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CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

7.20

Sample(s) Narrated:	379147	YDRMS002	EAG-	1001322

Explanation for Sample(s) listed below:

7.28

Sample(s) Narrated:	379146	STRES002	EAG-	1001321

Explanation for Sample(s) listed below:

7.35

Sample(s) Narrated:	379148	CDRMS004	EAG-	1001323

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CASE NARRATIVE

Analysis: **Nickel, Total**
ICP Mass Spectrometry (ICP-MS)
WATER EPA-200.8/6020

Narrative:

The quantitated values of the isotopes monitored for this analyte exceeded a difference of 25%. The lower of the two values has been reported.

Sample(s) Narrated:				
	379145	STRMS004	EAG-	1001320
	379146	STRES002	EAG-	1001321
	379147	YDRMS002	EAG-	1001322
	379148	CDRMS004	EAG-	1001323
	379149	DUPS001	EAG-	1001324

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 12/14/04 @ 15:00
Sampler: D.W.
Received: 12/15/04 @ 09:05

Submittal #: **36162-27**
Submittal: Week of December 13, 2004

Sample ID: **STRMS002 EAG- 1001319**
Sample #: **379144**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	29	2.0	mg/L	12/17/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	12/17/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	12/17/04	TAM	325.2/4500-CL E
Nitrogen, Ammonia	<0.05	0.05	mg/L	12/22/04	GEH	350.1/4500 NH3G
Nitrogen, Nitrate	0.06	0.05	mg/L	12/15/04	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	12/15/04	HLB	USEPA-353.2
Sulfate	<5.0	5.0	mg/L	12/17/04	TAM	EPA-375.4/9038
Residue,Dissolved @ 180*C	42	20	mg/L	12/16/04	INR	160.1/SM 2540 C
Residue, Suspended	<3	3	mg/L	12/16/04	INR	160.2/SM 2540 D
Alkalinity, Total	29	2.0	mg/L	12/17/04	VAS	310.1/SM 2320 B
Chemical Oxygen Demand	11	5.0	mg/L	12/17/04	JMJ	410.4/SM 5220 D
Carbon, Total Organic	5.0	1.0	mg/L	12/17/04	SAJ	EPA 415.1/5310D
BOD, (5-Day)	<1.0	1.0	mg/L	12/15/04	JLB	SDM 5210B
Color (Apparent)	45	5	A.C.U.	12/15/04	GEH	USEPA-110.2
Turbidity	1.3	1.0	NTU	12/16/04	HLB	USEPA-180.1
Iron, Total	310	20	ug/L	12/27/04	JLTR	EPA-200.7/6010B
Arsenic, Total	<1.0	1.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	01/03/05	DSC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Manganese, Total	13	10	ug/L	01/03/05	DSC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Calcium, Dissolved	7.9	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Potassium, Dissolved	0.56	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Magnesium, Dissolved	1.6	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Sodium, Dissolved	0.84	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 12/14/04 @ 12:45
Sampler: D.W.
Received: 12/15/04 @ 09:05

Submittal #: **36162-27**
Submittal: Week of December 13, 2004

Sample ID: **STRMS004 EAG- 1001320**
Sample #: **379145**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	48	2.0	mg/L	12/17/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	12/17/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	12/17/04	TAM	325.2/4500-CL E
Nitrogen, Ammonia	<0.05	0.05	mg/L	12/22/04	GEH	350.1/4500 NH3G
Nitrogen, Nitrate	0.19	0.05	mg/L	12/15/04	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	12/15/04	HLB	USEPA-353.2
Sulfate	<5.0	5.0	mg/L	12/17/04	TAM	EPA-375.4/9038
Residue,Dissolved @ 180*C	<20	20	mg/L	12/16/04	INR	160.1/SM 2540 C
Residue, Suspended	3	3	mg/L	12/16/04	INR	160.2/SM 2540 D
Alkalinity, Total	48	2.0	mg/L	12/17/04	VAS	310.1/SM 2320 B
Chemical Oxygen Demand	9.7	5.0	mg/L	12/17/04	JMJ	410.4/SM 5220 D
Carbon, Total Organic	4.1	1.0	mg/L	12/17/04	SAJ	EPA 415.1/5310D
BOD, (5-Day)	<1.0	1.0	mg/L	12/15/04	JLB	SDM 5210B
Color (Apparent)	30	5	A.C.U.	12/15/04	GEH	USEPA-110.2
Turbidity	4.8	1.0	NTU	12/16/04	HLB	USEPA-180.1
Iron, Total	260	20	ug/L	12/27/04	JLTR	EPA-200.7/6010B
Arsenic, Total	<1.0	1.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	01/03/05	DSC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Manganese, Total	19	10	ug/L	01/03/05	DSC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Calcium, Dissolved	12.8	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Potassium, Dissolved	0.66	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Magnesium, Dissolved	2.7	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Sodium, Dissolved	0.93	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 12/14/04 @ 12:30
Sampler: D.W.
Received: 12/15/04 @ 09:05

Submittal #: **36162-27**
Submittal: Week of December 13, 2004

Sample ID: **STRES002 EAG- 1001321**
Sample #: **379146**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	61	2.0	mg/L	12/17/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	12/17/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	12/17/04	TAM	325.2/4500-CL E
Nitrogen, Ammonia	0.07	0.05	mg/L	12/22/04	GEH	350.1/4500 NH3G
Nitrogen, Nitrate	0.08	0.05	mg/L	12/15/04	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	12/15/04	HLB	USEPA-353.2
Sulfate	<5.0	5.0	mg/L	12/17/04	TAM	EPA-375.4/9038
Residue,Dissolved @ 180*C	<20	20	mg/L	12/16/04	INR	160.1/SM 2540 C
Residue, Suspended	4	3	mg/L	12/16/04	INR	160.2/SM 2540 D
Alkalinity, Total	61	2.0	mg/L	12/17/04	VAS	310.1/SM 2320 B
Chemical Oxygen Demand	7.8	5.0	mg/L	12/17/04	JMJ	410.4/SM 5220 D
Carbon, Total Organic	3.4	1.0	mg/L	12/17/04	SAJ	EPA 415.1/5310D
BOD, (5-Day)	<1.0	1.0	mg/L	12/15/04	JLB	SDM 5210B
Color (Apparent)	20	5	A.C.U.	12/15/04	GEH	USEPA-110.2
Turbidity	2.1	1.0	NTU	12/16/04	HLB	USEPA-180.1
Iron, Total	130	20	ug/L	12/27/04	JLTR	EPA-200.7/6010B
Arsenic, Total	1.1	1.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Barium, Total	11	10	ug/L	01/03/05	DSC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Manganese, Total	11	10	ug/L	01/03/05	DSC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Calcium, Dissolved	18	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Potassium, Dissolved	0.55	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Magnesium, Dissolved	3.7	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Sodium, Dissolved	1.1	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 12/14/04 @ 15:45
Sampler: D.W.
Received: 12/15/04 @ 09:05

Submittal #: **36162-27**
Submittal: Week of December 13, 2004

Sample ID: **YDRMS002 EAG- 1001322**
Sample #: **379147**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	24	2.0	mg/L	12/17/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	12/17/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	12/17/04	TAM	325.2/4500-CL E
Nitrogen, Ammonia	<0.05	0.05	mg/L	12/22/04	GEH	350.1/4500 NH3G
Nitrogen, Nitrate	0.09	0.05	mg/L	12/15/04	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	12/15/04	HLB	USEPA-353.2
Sulfate	<5.0	5.0	mg/L	12/17/04	TAM	EPA-375.4/9038
Residue,Dissolved @ 180*C	64	20	mg/L	12/16/04	INR	160.1/SM 2540 C
Residue, Suspended	<3	3	mg/L	12/16/04	INR	160.2/SM 2540 D
Alkalinity, Total	24	2.0	mg/L	12/17/04	VAS	310.1/SM 2320 B
Chemical Oxygen Demand	20	5.0	mg/L	12/17/04	JMJ	410.4/SM 5220 D
Carbon, Total Organic	8.1	1.0	mg/L	12/17/04	SAJ	EPA 415.1/5310D
BOD, (5-Day)	<1.0	1.0	mg/L	12/15/04	JLB	SDM 5210B
Color (Apparent)	70	10	A.C.U.	12/15/04	GEH	USEPA-110.2
Turbidity	1.8	1.0	NTU	12/16/04	HLB	USEPA-180.1
Iron, Total	610	20	ug/L	12/27/04	JLTR	EPA-200.7/6010B
Arsenic, Total	<1.0	1.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	01/03/05	DSC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Manganese, Total	34	10	ug/L	01/03/05	DSC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Calcium, Dissolved	7.6	0.50	mg/L	12/27/04	JLTR	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	12/27/04	JLTR	EPA-200.7/6010B
Magnesium, Dissolved	1.6	0.50	mg/L	12/27/04	JLTR	EPA-200.7/6010B
Sodium, Dissolved	0.78	0.50	mg/L	12/27/04	JLTR	EPA-200.7/6010B

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 12/14/04 @ 13:40
Sampler: D.W.
Received: 12/15/04 @ 09:05

Submittal #: **36162-27**
Submittal: Week of December 13, 2004

Sample ID: **CDRMS004 EAG- 1001323**
Sample #: **379148**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	63	2.0	mg/L	12/17/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	12/17/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	12/17/04	TAM	325.2/4500-CL E
Nitrogen, Ammonia	<0.05	0.05	mg/L	12/22/04	GEH	350.1/4500 NH3G
Nitrogen, Nitrate	0.08	0.05	mg/L	12/15/04	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	12/15/04	HLB	USEPA-353.2
Sulfate	<5.0	5.0	mg/L	12/21/04	TAM	EPA-375.4/9038
Residue,Dissolved @ 180*C	62	20	mg/L	12/16/04	INR	160.1/SM 2540 C
Residue, Suspended	<3	3	mg/L	12/16/04	INR	160.2/SM 2540 D
Alkalinity, Total	63	2.0	mg/L	12/17/04	VAS	310.1/SM 2320 B
Chemical Oxygen Demand	10	5.0	mg/L	12/17/04	JMJ	410.4/SM 5220 D
Carbon, Total Organic	3.4	1.0	mg/L	12/17/04	SAJ	EPA 415.1/5310D
BOD, (5-Day)	<1.0	1.0	mg/L	12/15/04	JLB	SDM 5210B
Color (Apparent)	20	5	A.C.U.	12/15/04	GEH	USEPA-110.2
Turbidity	<1.0	1.0	NTU	12/16/04	HLB	USEPA-180.1
Iron, Total	98	20	ug/L	12/27/04	JLTR	EPA-200.7/6010B
Arsenic, Total	1.4	1.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Barium, Total	11	10	ug/L	01/03/05	DSC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Manganese, Total	<10	10	ug/L	01/03/05	DSC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Calcium, Dissolved	19	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Magnesium, Dissolved	3.2	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Sodium, Dissolved	1.2	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 12/14/04 @ 00:00
Sampler: D.W.
Received: 12/15/04 @ 09:05

Submittal #: **36162-27**
Submittal: Week of December 13, 2004

Sample ID: **DUPS001 EAG- 1001324**
Sample #: **379149**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	23	2.0	mg/L	12/17/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	12/17/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	12/17/04	TAM	325.2/4500-CL E
Nitrogen, Ammonia	<0.05	0.05	mg/L	12/22/04	GEH	350.1/4500 NH3G
Nitrogen, Nitrate	0.09	0.05	mg/L	12/15/04	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	12/15/04	HLB	USEPA-353.2
Sulfate	<5.0	5.0	mg/L	12/21/04	TAM	EPA-375.4/9038
Residue,Dissolved @ 180*C	<20	20	mg/L	12/16/04	INR	160.1/SM 2540 C
Residue, Suspended	<3	3	mg/L	12/16/04	INR	160.2/SM 2540 D
Alkalinity, Total	23	2.0	mg/L	12/17/04	VAS	310.1/SM 2320 B
Chemical Oxygen Demand	20	5.0	mg/L	12/17/04	JMJ	410.4/SM 5220 D
Carbon, Total Organic	8.2	1.0	mg/L	12/17/04	SAJ	EPA 415.1/5310D
BOD, (5-Day)	<1.0	1.0	mg/L	12/15/04	JLB	SDM 5210B
Color (Apparent)	70	10	A.C.U.	12/15/04	GEH	USEPA-110.2
Turbidity	1.9	1.0	NTU	12/16/04	HLB	USEPA-180.1
Iron, Total	670	20	ug/L	12/27/04	JLTR	EPA-200.7/6010B
Arsenic, Total	<1.0	1.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	01/03/05	DSC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Manganese, Total	36	10	ug/L	01/03/05	DSC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Calcium, Dissolved	7.8	0.50	mg/L	12/27/04	JLTR	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	12/27/04	JLTR	EPA-200.7/6010B
Magnesium, Dissolved	1.7	0.50	mg/L	12/27/04	JLTR	EPA-200.7/6010B
Sodium, Dissolved	0.79	0.50	mg/L	12/27/04	JLTR	EPA-200.7/6010B

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 12/14/04 @ 08:30
Sampler: D.W.
Received: 12/15/04 @ 09:05

Submittal #: **36162-27**
Submittal: Week of December 13, 2004

Sample ID: **FBKS001 EAG- 1001325**
Sample #: **379150**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	<2.0	2.0	mg/L	12/17/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	12/17/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	12/17/04	TAM	325.2/4500-CL E
Nitrogen, Ammonia	<0.05	0.05	mg/L	12/22/04	GEH	350.1/4500 NH3G
Nitrogen, Nitrate	<0.05	0.05	mg/L	12/15/04	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	12/15/04	HLB	USEPA-353.2
Sulfate	<5.0	5.0	mg/L	12/21/04	TAM	EPA-375.4/9038
Residue,Dissolved @ 180*C	<20	20	mg/L	12/16/04	INR	160.1/SM 2540 C
Residue, Suspended	<3	3	mg/L	12/16/04	INR	160.2/SM 2540 D
Alkalinity, Total	<2.0	2.0	mg/L	12/17/04	VAS	310.1/SM 2320 B
Chemical Oxygen Demand	<5.0	5.0	mg/L	12/17/04	JMJ	410.4/SM 5220 D
Carbon, Total Organic	<1.0	1.0	mg/L	12/17/04	SAJ	EPA 415.1/5310D
BOD, (5-Day)	<1.0	1.0	mg/L	12/15/04	JLB	SDM 5210B
Color (Apparent)	<5	5	A.C.U.	12/15/04	GEH	USEPA-110.2
Turbidity	<1.0	1.0	NTU	12/16/04	HLB	USEPA-180.1
Iron, Total	<20	20	ug/L	12/27/04	JLTR	EPA-200.7/6010B
Arsenic, Total	<1.0	1.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	01/03/05	DSC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Manganese, Total	<10	10	ug/L	01/03/05	DSC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	01/03/05	DSC	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 12/14/04 @ 08:45
Sampler: D.W.
Received: 12/15/04 @ 09:05

Submittal #: **36162-27**
Submittal: Week of December 13, 2004

Sample ID: **EQBS001 EAG- 1001326**
Sample #: **379151**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Calcium, Dissolved	<0.50	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 12/15/04 @ 13:00
Sampler: P. Sabee
Received: 12/16/04 @ 09:00

Submittal #: **36162-27**
Submittal: Week of December 13, 2004

Sample ID: **QALM005A EAG- 1001329**
Sample #: **379288**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	<2.0	2.0	mg/L	12/23/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	12/23/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	12/17/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	12/21/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	12/23/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	12/16/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	52	50	mg/L	12/20/04	INR	160.1/SM 2540 C
Calcium, Dissolved	1.2	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Potassium, Dissolved	0.81	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Sodium, Dissolved	0.66	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Barium, Dissolved	20	20	ug/L	01/03/05	DSC	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	01/04/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	01/03/05	DSC	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Iron, Dissolved	420	20	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	01/03/05	DSC	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	01/03/05	DSC	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	01/03/05	DSC	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	01/03/05	DSC	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 12/15/04 @ 13:30
Sampler: P. Sabee
Received: 12/16/04 @ 09:00

Submittal #: **36162-27**
Submittal: Week of December 13, 2004

Sample ID: **QALM005D EAG- 1001330**
Sample #: **379289**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	89	2.0	mg/L	12/23/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	12/23/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	12/17/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	12/21/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	12/23/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	12/16/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	96	50	mg/L	12/20/04	INR	160.1/SM 2540 C
Calcium, Dissolved	28	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Potassium, Dissolved	0.61	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Magnesium, Dissolved	2.9	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Sodium, Dissolved	1.4	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Arsenic, Dissolved	3.6	2.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Barium, Dissolved	31	20	ug/L	01/03/05	DSC	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	01/04/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	01/03/05	DSC	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Iron, Dissolved	740	20	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Manganese, Dissolved	200	20	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	01/03/05	DSC	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	01/03/05	DSC	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	01/03/05	DSC	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	01/03/05	DSC	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 12/15/04 @ 00:00
Sampler: P. Sabee
Received: 12/16/04 @ 09:00

Submittal #: **36162-27**
Submittal: Week of December 13, 2004

Sample ID: **DUPM001 EAG- 1001337**
Sample #: **379290**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	4.2	2.0	mg/L	12/23/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	12/23/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	12/17/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	12/21/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	12/23/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	12/16/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	66	50	mg/L	12/20/04	INR	160.1/SM 2540 C
Calcium, Dissolved	1.2	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Potassium, Dissolved	0.78	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Sodium, Dissolved	0.68	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Barium, Dissolved	21	20	ug/L	01/03/05	DSC	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	01/04/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	01/03/05	DSC	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Iron, Dissolved	460	20	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	01/03/05	DSC	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	01/03/05	DSC	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	01/03/05	DSC	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	01/03/05	DSC	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 12/15/04 @ 00:00
Sampler: P. Sabee
Received: 12/16/04 @ 09:00

Submittal #: **36162-27**
Submittal: Week of December 13, 2004

Sample ID: **DUPM002 EAG- 1001338**
Sample #: **379291**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	89	2.0	mg/L	12/23/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	12/23/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	12/17/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	12/21/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	12/23/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	12/16/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	142	50	mg/L	12/20/04	INR	160.1/SM 2540 C
Calcium, Dissolved	28	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Potassium, Dissolved	0.71	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Magnesium, Dissolved	2.9	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Sodium, Dissolved	1.4	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Arsenic, Dissolved	3.5	2.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Barium, Dissolved	32	20	ug/L	01/03/05	DSC	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	01/04/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	01/03/05	DSC	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Iron, Dissolved	740	20	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Manganese, Dissolved	200	20	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	01/03/05	DSC	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	01/03/05	DSC	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	01/03/05	DSC	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	01/03/05	DSC	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 12/15/04 @ 13:12
Sampler: P. Sabee
Received: 12/16/04 @ 09:00

Submittal #: **36162-27**
Submittal: Week of December 13, 2004

Sample ID: **FBKM001 EAG- 1001341**
Sample #: **379292**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	<2.0	2.0	mg/L	12/23/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	12/23/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	12/17/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	12/21/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	12/23/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	12/16/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	12/20/04	INR	160.1/SM 2540 C

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 12/15/04 @ 13:15
Sampler: P. Sabee
Received: 12/16/04 @ 09:00

Submittal #: **36162-27**
Submittal: Week of December 13, 2004

Sample ID: **FBKM002 EAG- 1001342**
Sample #: **379293**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	<2.0	2.0	mg/L	12/23/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	12/23/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	12/17/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	12/21/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	12/23/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	12/16/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	12/20/04	INR	160.1/SM 2540 C

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 12/15/04 @ 15:05
Sampler: P. Sabee
Received: 12/16/04 @ 09:00

Submittal #: **36162-27**
Submittal: Week of December 13, 2004

Sample ID: **QALM004A EAG- 1001327**
Sample #: **379294**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	46	2.0	mg/L	12/23/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	12/23/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	12/17/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	12/21/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	12/23/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	0.12	0.05	mg/L	12/16/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	12/20/04	INR	160.1/SM 2540 C
Calcium, Dissolved	14	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Potassium, Dissolved	0.57	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Magnesium, Dissolved	2.3	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Sodium, Dissolved	0.86	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	01/03/05	DSC	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	01/04/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	01/03/05	DSC	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	01/03/05	DSC	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	01/03/05	DSC	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	01/03/05	DSC	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	01/03/05	DSC	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 12/15/04 @ 15:10
Sampler: P. Sabee
Received: 12/16/04 @ 09:00

Submittal #: **36162-27**
Submittal: Week of December 13, 2004

Sample ID: **QALM004D EAG- 1001328**
Sample #: **379295**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	80	2.0	mg/L	12/23/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	12/23/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	12/17/04	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	12/21/04	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	12/23/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	12/16/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	12/20/04	INR	160.1/SM 2540 C
Calcium, Dissolved	25	0.50	mg/L	12/28/04	JLTR	EPA-200.7/6010B
Potassium, Dissolved	0.95	0.50	mg/L	12/28/04	JLTR	EPA-200.7/6010B
Magnesium, Dissolved	3.1	0.50	mg/L	12/28/04	JLTR	EPA-200.7/6010B
Sodium, Dissolved	2.1	0.50	mg/L	12/28/04	JLTR	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	12/28/04	JLTR	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	01/03/05	MSG	EPA-200.8/6020
Arsenic, Dissolved	7.6	2.0	ug/L	12/30/04	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	12/30/04	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	12/30/04	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	12/28/04	JLTR	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	01/03/05	MSG	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	12/30/04	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	12/28/04	JLTR	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	12/30/04	JMF	EPA-200.8/6020
Iron, Dissolved	110	20	ug/L	12/28/04	JLTR	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	12/28/04	JLTR	EPA-200.7/6010B
Manganese, Dissolved	54	20	ug/L	12/28/04	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	01/03/05	MSG	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	12/30/04	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	12/30/04	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	12/30/04	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	12/30/04	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	12/30/04	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 12/15/04 @ 14:20
Sampler: P. Sabee
Received: 12/16/04 @ 09:00

Submittal #: **36162-27**
Submittal: Week of December 13, 2004

Sample ID: **EQBM001 EAG- 1001339**
Sample #: **379296**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Calcium, Dissolved	<0.50	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Sodium, Dissolved	0.50	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	01/03/05	DSC	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	01/04/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	01/03/05	DSC	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	01/03/05	DSC	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	01/03/05	DSC	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	01/03/05	DSC	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	01/03/05	DSC	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 12/15/04 @ 14:25
Sampler: P. Sabee
Received: 12/16/04 @ 09:00

Submittal #: **36162-27**
Submittal: Week of December 13, 2004

Sample ID: **EQBM002 EAG- 1001340**
Sample #: **379297**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Calcium, Dissolved	<0.50	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	12/30/04	JLTR	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	01/03/05	DSC	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	01/04/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	01/03/05	DSC	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	12/30/04	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	01/03/05	DSC	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	01/03/05	DSC	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	01/03/05	DSC	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	01/03/05	DSC	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	01/03/05	DSC	EPA-200.8/6020

End of Analytical Report

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Bicarbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/17/04	226470	VAS	<2.0
12/23/04	226699	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/17/04	226470	VAS	23.8	23.3	98	89-111
12/23/04	226699	VAS	238	243	102	89-111

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Carbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/17/04	226470	VAS	<2.0
12/23/04	226699	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/17/04	226470	VAS	377	385	102	77-110
12/23/04	226699	VAS	377	369	98	77-110

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Total**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/17/04	226470	VAS	<2.0
12/23/04	226699	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/17/04	226470	VAS	23.8	23.3	98	89-111

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QUALITY CONTROL REPORT

Parameter: **Aluminum, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/28/04	226875	JLTR	<50
12/30/04	226963	JLTR	<50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/28/04	226875	JLTR	2500	2649	106	90-110
12/30/04	226963	JLTR	2500	2593	104	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
12/28/04	102736	JLTR	<100

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/28/04	102736	JLTR	1250	1223	98	86-120

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QUALITY CONTROL REPORT

Parameter: **Antimony, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
01/03/05	227007	MSG	<2.0
01/03/05	227018	DSC	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/03/05	227007	MSG	40	41.7	104	90-110
01/03/05	227018	DSC	40	43.9	110	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
01/03/05	102778	MSG	<2.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/03/05	102778	MSG	25	27.1	108	85-127

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/30/04	226934	JMF	<1.0
01/03/05	227018	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/30/04	226934	JMF	40	39.8	100	90-110
01/03/05	227018	DSC	40	41.9	105	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
12/29/04	102677	DWJ	<5.0
12/30/04	102778	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/29/04	102677	DWJ	25	25.4	102	85-115
12/30/04	102778	JMF	25	21.8	87	85-115

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/28/04	226875	JLTR	<10

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/30/04	226934	JMF	<5.0
01/03/05	227018	DSC	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/30/04	226934	JMF	40	40.8	102	90-110
01/03/05	227018	DSC	40	42.4	106	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
12/30/04	102778	JMF	<10
01/03/05	102677	DSC	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/30/04	102778	JMF	25	24.7	99	86-119
01/03/05	102677	DSC	25	26.8	107	86-119

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QUALITY CONTROL REPORT

Parameter: **Beryllium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/30/04	226934	JMF	<1.0
01/04/05	227033	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/30/04	226934	JMF	40	40.3	101	90-110
01/04/05	227033	JMF	40	39.8	100	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
12/30/04	102778	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/30/04	102778	JMF	25	21.8	87	81-116

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QUALITY CONTROL REPORT

Parameter: **BOD, (5-Day)**
Method: Biochemical Oxygen Demand SDM 5210B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/15/04	226375	JLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/15/04	226375	JLB	198	179	90	85-115

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QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/30/04	226934	JMF	<0.2
01/03/05	227007	MSG	<0.2
01/03/05	227018	DSC	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/03/05	227007	MSG	40	41.3	103	90-110
01/03/05	227018	DSC	40	38.9	97	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
01/03/05	102778	MSG	<0.2

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/03/05	102778	MSG	25	24.7	99	83-112

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QUALITY CONTROL REPORT

Parameter: **Carbon, Total Organic**
Method: Organic Carbon, Total EPA 415.1/5310D WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/17/04	226528	SAJ	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/17/04	226528	SAJ	25	24	96	90-110

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QUALITY CONTROL REPORT

Parameter: **Chemical Oxygen Demand**
Method: Closed Reflux, Colorimetric Method 410.4/SM 5220 D WATER
Units: mg/L

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
12/17/04	102483	JMJ	<5.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/17/04	102483	JMJ	30	33	110	90-110

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QUALITY CONTROL REPORT

Parameter: **Chloride**
Method: Colorimetric, Automated Ferricyanide 325.2/4500-CL E WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/17/04	226455	TAM	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/17/04	226455	TAM	78.1	76.6	98	92-109

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QUALITY CONTROL REPORT

Parameter: **Chromium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/30/04	226934	JMF	<1.0
01/03/05	227018	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/30/04	226934	JMF	40	38.6	97	90-110
01/03/05	227018	DSC	40	39.1	98	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
12/30/04	102778	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/30/04	102778	JMF	25	23.5	94	84-122

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QUALITY CONTROL REPORT

Parameter: **Cobalt, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/28/04	226875	JLTR	<10
12/30/04	226963	JLTR	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/28/04	226875	JLTR	500	529	106	90-110
12/30/04	226963	JLTR	500	516	103	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
12/28/04	102736	JLTR	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/28/04	102736	JLTR	250	244	98	84-117

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QUALITY CONTROL REPORT

Parameter: **Cobalt, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
01/03/05	227007	MSG	<10
01/03/05	227018	DSC	<10

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QUALITY CONTROL REPORT

Parameter: **Color (Apparent)**
Method: Colorimetric, Platinum-Cobalt USEPA-110.2 WATER
Units: A.C.U.

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/15/04	226491	GEH	<5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/15/04	226491	GEH	25	25	100	80-120

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/30/04	226934	JMF	<1.0
01/03/05	227018	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/30/04	226934	JMF	40	37.6	94	90-110
01/03/05	227018	DSC	40	41.4	104	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
12/30/04	102778	JMF	<1.0
01/03/05	102677	DSC	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/30/04	102778	JMF	25	24.0	96	86-123
01/03/05	102677	DSC	25	25.4	102	86-123

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QUALITY CONTROL REPORT

Parameter: **Fluoride**
Method: Potentiometric, Ion Selective Electrode SM 4500 F-C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/23/04	226676	VAS	<0.10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/23/04	226676	VAS	3.43	3.78	110	88-116

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QUALITY CONTROL REPORT

Parameter: **Iron, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/27/04	226804	JLTR	<20
12/28/04	226875	JLTR	<10
12/30/04	226963	JLTR	<20

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/27/04	226804	JLTR	500	516	103	90-110
12/28/04	226875	JLTR	500	541	108	90-110
12/30/04	226963	JLTR	500	531	106	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
12/27/04	102673	JLTR	<20
12/28/04	102736	JLTR	<20

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/27/04	102673	JLTR	250	252	101	83-118
12/28/04	102736	JLTR	250	253	101	83-118

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QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/30/04	226934	JMF	<1.0
01/03/05	227018	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/30/04	226934	JMF	40	39.2	98	90-110
01/03/05	227018	DSC	40	40.5	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
12/30/04	102778	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/30/04	102778	JMF	25	23.1	92	87-118

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QUALITY CONTROL REPORT

Parameter: **Lithium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/28/04	226875	JLTR	<10
12/30/04	226963	JLTR	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/28/04	226875	JLTR	500	515	103	90-110
12/30/04	226963	JLTR	500	508	102	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
12/28/04	102736	JLTR	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/28/04	102736	JLTR	250	246	98	86-115

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QUALITY CONTROL REPORT

Parameter: **Magnesium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/27/04	226801	JLTR	<0.50
12/28/04	226875	JLTR	<0.50
12/30/04	226963	JLTR	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/27/04	226801	JLTR	5.0	5.14	103	90-110
12/28/04	226875	JLTR	5.0	5.27	105	90-110
12/30/04	226963	JLTR	5.0	5.20	104	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
12/28/04	102736	JLTR	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/28/04	102736	JLTR	12.5	12.5	100	87-115

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/28/04	226875	JLTR	<10
12/30/04	226963	JLTR	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/28/04	226875	JLTR	500	533	107	90-110
12/30/04	226963	JLTR	500	515	103	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
12/28/04	102736	JLTR	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/28/04	102736	JLTR	250	250	100	83-118

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
01/03/05	227018	DSC	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/03/05	227018	DSC	40	40.8	102	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
01/03/05	102677	DSC	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/03/05	102677	DSC	25	24.5	98	86-124

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/28/04	226875	JLTR	<10
12/30/04	226963	JLTR	<10

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/30/04	226934	JMF	<1.0
01/03/05	227018	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/30/04	226934	JMF	40	38.7	97	90-110
01/03/05	227018	DSC	40	40.0	100	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
12/30/04	102778	JMF	<1.0
01/03/05	102677	DSC	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/30/04	102778	JMF	25	22.0	88	84-117
01/03/05	102677	DSC	25	24.1	96	84-117

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Ammonia**
Method: Colorimetric, Automated Phenate 350.1/4500 NH3G WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/22/04	226665	GEH	<0.02

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/22/04	226665	GEH	0.765	0.756	99	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrate**
Method: Colorimetric, Auto-Cadmium Reduction 353.2/4500 NO3F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/15/04	226527	HLB	<0.05
12/16/04	226407	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/15/04	226527	HLB	0.624	0.630	101	90-110
12/16/04	226407	HLB	0.624	0.639	102	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrite**
Method: Colorimetric, Automated USEPA-353.2 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/15/04	226532	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/15/04	226532	HLB	0.50	0.50	100	90-110

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QUALITY CONTROL REPORT

Parameter: **Potassium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/27/04	226801	JLTR	<0.50
12/27/04	226804	JLTR	<0.50
12/28/04	226875	JLTR	<0.50
12/30/04	226963	JLTR	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/27/04	226804	JLTR	5.0	5.23	105	90-110
12/28/04	226875	JLTR	5.0	5.20	104	90-110
12/30/04	226963	JLTR	5.0	5.26	105	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
12/27/04	102673	JLTR	<0.50
12/28/04	102736	JLTR	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/27/04	102673	JLTR	12.5	12.9	103	87-125
12/28/04	102736	JLTR	12.5	12.8	102	87-125

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QUALITY CONTROL REPORT

Parameter: **Residue,Dissolved @ 180*C**
Method: Residue-Gravimetric, Dried @ 180*C 160.1/SM 2540 C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/16/04	226434	INR	<2.5
12/20/04	226615	INR	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/16/04	226434	INR	1000.0	970	97	90-108
12/16/04	226434	INR	1000.0	1050	105	90-108
12/20/04	226615	INR	1000	951	95	90-108

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QUALITY CONTROL REPORT

Parameter: **Residue, Suspended**
Method: Residue-Gravimetric, Dried @ 103-105*C 160.2/SM 2540 D WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/16/04	226450	INR	<25

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/16/04	226450	INR	1000.0	975	98	89-106

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QUALITY CONTROL REPORT

Parameter: **Selenium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/30/04	226934	JMF	<1.0
01/03/05	227007	MSG	<2.0
01/03/05	227018	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/30/04	226934	JMF	40	40.6	102	90-110
01/03/05	227018	DSC	40	42.8	107	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
12/30/04	102778	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/30/04	102778	JMF	25	20.4	82	79-120

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QUALITY CONTROL REPORT

Parameter: **Silver, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/30/04	226934	JMF	<0.2
01/03/05	227018	DSC	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/30/04	226934	JMF	40	41.3	103	90-110
01/03/05	227018	DSC	40	35.8	90	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
12/30/04	102778	JMF	<0.2

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/30/04	102778	JMF	25	24.2	97	86-114

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QUALITY CONTROL REPORT

Parameter: **Sodium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/27/04	226801	JLTR	<0.50
12/27/04	226804	JLTR	<0.50
12/28/04	226875	JLTR	<0.50
12/30/04	226963	JLTR	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/27/04	226801	JLTR	5.0	5.27	105	90-110
12/28/04	226875	JLTR	5.0	4.90	98	90-110
12/30/04	226963	JLTR	5.0	4.83	97	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
12/27/04	102673	JLTR	<0.50
12/28/04	102736	JLTR	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/27/04	102673	JLTR	12.5	12.5	100	86-117
12/28/04	102736	JLTR	12.5	14.0	112	86-117

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QUALITY CONTROL REPORT

Parameter: **Sulfate**
Method: Turbidimetric Method (Manual) EPA-375.4/9038 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/17/04	226556	TAM	<5.0
12/21/04	226618	TAM	<5.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/17/04	226556	TAM	15.8	17.1	108	85-113
12/21/04	226618	TAM	15.8	15.3	97	85-113

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QUALITY CONTROL REPORT

Parameter: **Turbidity**
Method: Nephelometric USEPA-180.1 WATER
Units: NTU

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/16/04	226554	HLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/16/04	226554	HLB	402	384	96	90-110

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QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/30/04	226934	JMF	<4.0
01/03/05	227018	DSC	<4.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/30/04	226934	JMF	40	41.2	103	90-110
01/03/05	227018	DSC	40	41.4	104	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
12/30/04	102778	JMF	<4.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/30/04	102778	JMF	25	22.5	90	87-124

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Chain of Custody Record

COC No. 00366

Page 1 of 1

For Lab Use Only
Cart: 4
VOA Rack/Tray: NA
Receipt Log No.: 37-4
Project Chemist: JK
Laboratory Project No.: 36162-27

Client Name: North Jackson
Address: 1004 Harbor Hills Suite 102
Marquette MI 49855
Phone: (906) 225-6787
Fax: (906) 225-6769

Project Name: EAGLE
Client Project No. / P.O. No.:
Invoice To: KMC (Client / Other (comments))
Contact/Report To: North Jackson

Analyses Requested

	A	B	B	C	C					
	1000 ml	500 ml	500 ml (-filtered)	500 ml	40 ml					
Container Type (corresponds to Container Packing List)	3	6	15	4	11					

A PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Number of Containers Submitted										Total	Sample Comments
06	WS	379144	1	STRMS002 EAG10013[illegible]	1071	12-14	1500		X	water	3	1	1	1	3						9	
		379145	2	STRMS004 EAG10013[illegible]	1105	12-14	1245		X		3	1	1	1	3						9	
		379146	3	STRMS002 EAG10013[illegible]	1105	12-14	1230		X		3	1	1	1	3						9	
		379147	4	YDRMS002 EAG10013[illegible]	1071	12-14	1545		X		3	1	1	1	3						9	
		379148	5	CDRMS004 EAG10013[illegible]	1105	12-14	1340		X		3	1	1	1	3						9	
		379149	6	DUPS001 EAG10013[illegible]	1071	12-14			X		3	1	1	1	3						9	
14	WQ	379150	7	FBKS001 EAG10013[illegible]	1105	12-14	0830		X		3	1		1	3						8	
44	1	379151	8	EQBS001 EAG10013[illegible]	1105	12-14	0845		X				1								1	
			9	JK																		
			10																			

Sampled By (print): Dan Witala
Sampler's Signature: Dan Witala
Company:

How Shipped? Hand Carrier FedEx
Tracking No.:

Comments: EAGLE Project Surface water parameters
Short list

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
Dan Witala	12-14-04	1800						
1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
						[signature]	12-15-04	09:05

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Chain of Custody Record

COC No. 105643

Page 1 of 1

For Lab Use Only
Cart: 1
VOA Rack/Tray: NA
Receipt Log No.: 39-9
Project Chemist: JC
Laboratory Project No.: 36162-27

Client Name: North Tackson
Address: PO Box 218, Marquette, MI 49855
Phone: 906 225 6787
Fax:

Project Name: EAGLE
Client Project No. / P.O. No.:
Invoice To: ~~Client~~ Other (comments)
Contact/Report To: D. Witzke

Analyses Requested

⇦ PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List) A	B	Total	Sample Comments
										Number of Containers Submitted			
04	WG	379288	1 QALM005A	TM070	12-15-04	1300		X	WP	1	1	2	EAG-100,329
		379289	2 QALM005D			1330				1	1	2	EAG-100,330
		379290	3 DUPM001			—				1	1	2	EAG-100,337
		379291	4 DUPM002			—				1	1	2	EAG-1001338
10	WQ	379292	5 FBKM001			1312				1		1	EAG-100,341
↓	1	379293	6 FBKM002			1315				1		1	EAG-100,342
04	WG	379294	7 QALM004A			1505				1	1	2	EAG-100,327
1	1	379295	8 QALM004D			1510				1	1	2	EAG-100,328
09	WQ	379296	9 EQBM001			1420					1	1	EAG-100,339
↓	1	379297	10 EQBM002	↓	↓	1425		↓	↓		1	1	EAG-100,340

Sampled By (print): Peter Sabga
Sampler's Signature:
Company: North Tackson Co

How Shipped? Hand Carrier Fed Ex
Tracking No.

Comments: Bill to KMC - John Cheney

1. Relinquished By	Date	Time
F Taylor	12-15-04	1630
1. Received By	Date	Time

2. Relinquished By	Date	Time
2. Received By	Date	Time

3. Relinquished By	Date	Time
3. Received For Lab By	Date	Time
John Sabga	12-16-04	09:00

TriMatrixCOC -- COC

WHITE COPY - REPORT YELLOW COPY - LABORATORY PINK COPY - FIELD

TriMatrix
Laboratories, Inc.

January 13, 2005

North Jackson Company
Attn: Mr. Peter Sabee
P.O Box 218
Marquette, MI 49855

RE: Eagle
Submittal Number: 36162-28

Dear Mr. Peter Sabee:

Enclosed is a copy of your laboratory report for test samples received by our laboratory on December 29, 2004.

Please note that the test results of the enclosed analyses relate only to the sample(s) as received at the laboratory, and are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC) standards. Qualification of test standards, including sample acceptance requirements, are presented within the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosure(s)

The total number of pages in this report, including this page, is 47.

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STATEMENT OF DATA QUALIFICATIONS

All analyses have been validated and comply with our Quality Control Program. No qualifications required.

Page 1 - **End of Statement of Data Qualifications**

Note: This document is included as a part of the analytical report for the above referenced project and submittal, and should be retained as a permanent record thereof.

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CASE NARRATIVE

Analysis: **Selenium, Dissolved**
ICP Mass Spectrometry (ICP-MS)
WATER EPA-200.8/6020

Narrative:

The quantitated values of the isotopes monitored for this analyte exceeded a difference of 25%. The lower of the two values has been reported.

Sample(s) Narrated: 380329 QALM008D EAG- 1001334

Page 1 - **End of Case Narrative**

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 12/28/04 @ 14:40
Sampler: D.W./P.S.
Received: 12/29/04 @ 09:05

Submittal #: **36162-28**
Submittal: Week of December 27, 2004

Sample ID: **QALM006A EAG- 1001331**
Sample #: **380326**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	<2.0	2.0	mg/L	12/30/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	12/30/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	01/03/05	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	01/03/05	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	12/30/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	0.15	0.05	mg/L	12/29/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	54	50	mg/L	12/29/04	INR	160.1/SM 2540 C
Calcium, Dissolved	1.0	0.50	mg/L	01/08/05	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.74	0.50	mg/L	01/08/05	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	01/08/05	KLVM	EPA-200.7/6010B
Sodium, Dissolved	0.58	0.50	mg/L	01/08/05	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	100	100	ug/L	01/08/05	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	01/10/05	DSC	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	01/11/05	JLTR	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	01/10/05	DSC	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	01/08/05	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	01/08/05	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	01/08/05	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	01/08/05	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	01/10/05	DSC	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	01/10/05	DSC	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	01/10/05	DSC	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	01/10/05	DSC	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 12/28/04 @ 15:30
Sampler: D.W./P.S.
Received: 12/29/04 @ 09:05

Submittal #: **36162-28**
Submittal: Week of December 27, 2004

Sample ID: **QALM006B EAG- 1001332**
Sample #: **380327**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	71	2.0	mg/L	12/30/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	12/30/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	01/03/05	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	01/03/05	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	12/30/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	12/29/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	204	50	mg/L	12/29/04	INR	160.1/SM 2540 C
Calcium, Dissolved	17	0.50	mg/L	01/08/05	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.73	0.50	mg/L	01/08/05	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	5.0	0.50	mg/L	01/08/05	KLVM	EPA-200.7/6010B
Sodium, Dissolved	1.8	0.50	mg/L	01/08/05	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	01/08/05	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	01/10/05	DSC	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	01/11/05	JLTR	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	01/10/05	DSC	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	01/08/05	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Iron, Dissolved	13400	20	ug/L	01/08/05	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	01/08/05	KLVM	EPA-200.7/6010B
Manganese, Dissolved	130	20	ug/L	01/08/05	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	01/10/05	DSC	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	01/10/05	DSC	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	01/10/05	DSC	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	01/10/05	DSC	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 12/28/04 @ 11:45
Sampler: D.W./P.S.
Received: 12/29/04 @ 09:05

Submittal #: **36162-28**
Submittal: Week of December 27, 2004

Sample ID: **QALM008A EAG- 1001333**
Sample #: **380328**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	28	2.0	mg/L	12/30/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	12/30/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	01/03/05	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	01/03/05	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	12/30/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	0.12	0.05	mg/L	12/29/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	50	50	mg/L	12/29/04	INR	160.1/SM 2540 C
Calcium, Dissolved	8.8	0.50	mg/L	01/08/05	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.64	0.50	mg/L	01/08/05	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	1.4	0.50	mg/L	01/08/05	KLVM	EPA-200.7/6010B
Sodium, Dissolved	0.70	0.50	mg/L	01/08/05	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	01/08/05	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	01/10/05	DSC	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	01/11/05	JLTR	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	01/10/05	DSC	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	01/08/05	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	01/08/05	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	01/08/05	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	01/08/05	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	01/10/05	DSC	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	01/10/05	DSC	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	01/10/05	DSC	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	01/10/05	DSC	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 12/28/04 @ 11:55
Sampler: D.W./P.S.
Received: 12/29/04 @ 09:05

Submittal #: **36162-28**
Submittal: Week of December 27, 2004

Sample ID: **QALM008D EAG- 1001334**
Sample #: **380329**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	53	2.0	mg/L	12/30/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	12/30/04	VAS	310.1/SM 2320 B
Chloride	1.5	1.0	mg/L	01/03/05	TAM	325.2/4500-CL E
Sulfate	8.7	5.0	mg/L	01/03/05	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	12/30/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	12/29/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	146	50	mg/L	12/29/04	INR	160.1/SM 2540 C
Calcium, Dissolved	16	0.50	mg/L	01/08/05	KLVM	EPA-200.7/6010B
Potassium, Dissolved	1.8	0.50	mg/L	01/08/05	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	3.0	0.50	mg/L	01/08/05	KLVM	EPA-200.7/6010B
Sodium, Dissolved	3.3	0.50	mg/L	01/08/05	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	01/08/05	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	01/10/05	DSC	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	01/11/05	JLTR	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	01/10/05	DSC	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	01/08/05	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Iron, Dissolved	55	20	ug/L	01/08/05	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	01/08/05	KLVM	EPA-200.7/6010B
Manganese, Dissolved	58	20	ug/L	01/08/05	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	01/10/05	DSC	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	01/10/05	DSC	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	01/10/05	DSC	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	01/10/05	DSC	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 12/28/04 @ 13:45
Sampler: D.W./P.S.
Received: 12/29/04 @ 09:05

Submittal #: **36162-28**
Submittal: Week of December 27, 2004

Sample ID: **QALM009A EAG- 1001335**
Sample #: **380330**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	49	2.0	mg/L	12/30/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	12/30/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	01/03/05	TAM	325.2/4500-CL E
Sulfate	14	5.0	mg/L	01/03/05	TAM	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	12/30/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	0.19	0.05	mg/L	12/29/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	52	50	mg/L	12/29/04	INR	160.1/SM 2540 C
Calcium, Dissolved	14	0.50	mg/L	01/08/05	KLVM	EPA-200.7/6010B
Potassium, Dissolved	1.5	0.50	mg/L	01/08/05	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	2.3	0.50	mg/L	01/08/05	KLVM	EPA-200.7/6010B
Sodium, Dissolved	0.96	0.50	mg/L	01/08/05	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	01/08/05	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	01/10/05	DSC	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	01/11/05	JLTR	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	01/10/05	DSC	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	01/08/05	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	01/08/05	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	01/08/05	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	01/08/05	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	01/10/05	DSC	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	01/10/05	DSC	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	01/10/05	DSC	EPA-200.8/6020
Zinc, Dissolved	10	10	ug/L	01/10/05	DSC	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 12/28/04 @ 15:55
Sampler: D.W./P.S.
Received: 12/29/04 @ 09:05

Submittal #: **36162-28**
Submittal: Week of December 27, 2004

Sample ID: **QALM009D EAG- 1001336**
Sample #: **380331**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	66	2.0	mg/L	12/30/04	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	12/30/04	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	01/03/05	TAM	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	01/03/05	TAM	EPA-375.4/9038
Fluoride	0.14	0.10	mg/L	12/30/04	VAS	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	12/29/04	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	130	50	mg/L	12/29/04	INR	160.1/SM 2540 C
Calcium, Dissolved	18	0.50	mg/L	01/08/05	KLVM	EPA-200.7/6010B
Potassium, Dissolved	1.0	0.50	mg/L	01/08/05	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	4.2	0.50	mg/L	01/08/05	KLVM	EPA-200.7/6010B
Sodium, Dissolved	2.6	0.50	mg/L	01/08/05	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<100	100	ug/L	01/08/05	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	01/10/05	DSC	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	01/11/05	JLTR	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	01/10/05	DSC	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	01/08/05	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Iron, Dissolved	34	20	ug/L	01/08/05	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	01/08/05	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	01/08/05	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	01/10/05	DSC	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	01/10/05	DSC	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	01/10/05	DSC	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	01/10/05	DSC	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	01/10/05	DSC	EPA-200.8/6020

End of Analytical Report

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Bicarbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/30/04	227116	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/30/04	227116	VAS	238	240	101	89-111

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Carbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/30/04	227116	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/30/04	227116	VAS	377	380	101	77-110

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QUALITY CONTROL REPORT

Parameter: **Aluminum, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
01/08/05	227233	KLVM	<100

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/08/05	227233	KLVM	2500	2539	102	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
01/08/05	102989	KLVM	<200

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/08/05	102989	KLVM	1250	1247	100	86-120

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QUALITY CONTROL REPORT

Parameter: **Antimony, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
01/10/05	227234	DSC	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/10/05	227234	DSC	40	37.0	93	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
01/10/05	102993	DSC	<2.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/10/05	102993	DSC	250	268.3	107	85-127

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
01/08/05	227233	KLVM	<200
01/11/05	227264	JLTR	<200

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
01/10/05	227234	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/10/05	227234	DSC	40	39.7	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
01/10/05	102993	DSC	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/10/05	102993	DSC	250	237.9	95	85-115

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
01/08/05	227233	KLVM	<10
01/11/05	227264	JLTR	<10

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
01/10/05	227234	DSC	<5.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/10/05	227234	DSC	40	40.8	102	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
01/10/05	102993	DSC	<5.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/10/05	102993	DSC	250	261.7	105	86-119

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QUALITY CONTROL REPORT

Parameter: **Beryllium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
01/08/05	227233	KLVM	<10

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QUALITY CONTROL REPORT

Parameter: **Beryllium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
01/10/05	227234	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/10/05	227234	DSC	40	41.9	105	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
01/10/05	102993	DSC	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/10/05	102993	DSC	250	230.5	92	81-116

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QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
01/08/05	227233	KLVM	<10
01/11/05	227264	JLTR	<10

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QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
01/10/05	227234	DSC	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/10/05	227234	DSC	40	40.6	102	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
01/10/05	102993	DSC	<0.2

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/10/05	102993	DSC	250	247.2	99	83-112

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QUALITY CONTROL REPORT

Parameter: **Chloride**
Method: Colorimetric, Automated Ferricyanide 325.2/4500-CL E WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
01/03/05	227073	TAM	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/03/05	227073	TAM	78.1	75.9	97	92-109

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QUALITY CONTROL REPORT

Parameter: **Chromium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
01/08/05	227233	KLVM	<50
01/11/05	227264	JLTR	<50

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QUALITY CONTROL REPORT

Parameter: **Chromium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
01/10/05	227234	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/10/05	227234	DSC	40	39.7	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
01/10/05	102993	DSC	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/10/05	102993	DSC	250	239.4	96	84-122

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QUALITY CONTROL REPORT

Parameter: **Cobalt, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
01/08/05	227233	KLVM	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/08/05	227233	KLVM	500	513	103	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
01/08/05	102989	KLVM	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/08/05	102989	KLVM	250	249	100	84-117

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
01/08/05	227233	KLVM	<10

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
01/10/05	227234	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/10/05	227234	DSC	40	40.3	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
01/10/05	102993	DSC	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/10/05	102993	DSC	250	250.5	100	86-123

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QUALITY CONTROL REPORT

Parameter: **Fluoride**
Method: Potentiometric, Ion Selective Electrode SM 4500 F-C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/30/04	226864	VAS	<0.10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/30/04	226864	VAS	3.43	3.52	103	88-116

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QUALITY CONTROL REPORT

Parameter: **Iron, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
01/08/05	227233	KLVM	<20

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/08/05	227233	KLVM	500	518	104	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
01/08/05	102989	KLVM	<20

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/08/05	102989	KLVM	250	253	101	83-118

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QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
01/08/05	227233	KLVM	<50
01/11/05	227264	JLTR	<50

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QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
01/10/05	227234	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/10/05	227234	DSC	40	40.2	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
01/10/05	102993	DSC	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/10/05	102993	DSC	250	245.0	98	87-118

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QUALITY CONTROL REPORT

Parameter: **Lithium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
01/08/05	227233	KLVM	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/08/05	227233	KLVM	500	527	105	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
01/08/05	102989	KLVM	<20

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/08/05	102989	KLVM	250	272	109	86-115

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QUALITY CONTROL REPORT

Parameter: **Magnesium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
01/08/05	227233	KLVM	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/08/05	227233	KLVM	5.0	5.10	102	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
01/08/05	102989	KLVM	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/08/05	102989	KLVM	12.5	12.2	98	87-115

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
01/08/05	227233	KLVM	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/08/05	227233	KLVM	500	520	104	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
01/08/05	102989	KLVM	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/08/05	102989	KLVM	250	246	98	83-118

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
01/08/05	227233	KLVM	<10

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
01/10/05	227234	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/10/05	227234	DSC	40	41.3	103	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
01/10/05	102993	DSC	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/10/05	102993	DSC	250	254.3	102	84-117

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrate**
Method: Colorimetric, Auto-Cadmium Reduction 353.2/4500 NO3F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/29/04	227003	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/29/04	227003	HLB	0.624	0.642	103	90-110

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QUALITY CONTROL REPORT

Parameter: **Potassium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
01/08/05	227233	KLVM	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/08/05	227233	KLVM	5.0	5.11	102	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
01/08/05	102989	KLVM	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/08/05	102989	KLVM	12.5	13.4	107	87-125

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QUALITY CONTROL REPORT

Parameter: **Residue,Dissolved @ 180*C**
Method: Residue-Gravimetric, Dried @ 180*C 160.1/SM 2540 C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
12/29/04	226988	INR	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
12/29/04	226988	INR	1000	923	92	90-108

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QUALITY CONTROL REPORT

Parameter: **Selenium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
01/08/05	227233	KLVM	<100
01/11/05	227264	JLTR	<100

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QUALITY CONTROL REPORT

Parameter: **Selenium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
01/10/05	227234	DSC	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/10/05	227234	DSC	40	39.8	100	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
01/10/05	102993	DSC	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/10/05	102993	DSC	250	216.8	87	79-120

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QUALITY CONTROL REPORT

Parameter: **Silver, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
01/08/05	227233	KLVM	<10
01/11/05	227264	JLTR	<10

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QUALITY CONTROL REPORT

Parameter: **Silver, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
01/10/05	227234	DSC	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/10/05	227234	DSC	40	39.4	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
01/10/05	102993	DSC	<0.2

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/10/05	102993	DSC	250	252.8	101	86-114

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QUALITY CONTROL REPORT

Parameter: **Sodium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
01/08/05	227233	KLVM	<0.50
01/11/05	227264	JLTR	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/08/05	227233	KLVM	5.0	5.07	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
01/08/05	102989	KLVM	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/08/05	102989	KLVM	12.5	12.6	101	86-117

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QUALITY CONTROL REPORT

Parameter: **Sulfate**
Method: Turbidimetric Method (Manual) EPA-375.4/9038 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
01/03/05	227108	TAM	<5.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/03/05	227108	TAM	15.8	16.8	106	85-113

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QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
01/08/05	227233	KLVM	<20

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QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
01/10/05	227234	DSC	<4.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/10/05	227234	DSC	40	40.1	100	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
01/10/05	102993	DSC	<4.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
01/10/05	102993	DSC	250	232.5	93	87-124

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TriMatrix Laboratories, Inc.

5560 Corporate Exchange Court SE Grand Rapids, MI 49512
Phone (616) 975-4500 Fax (616) 942-7463
www.trimatrixlabs.com

Chain of Custody Record

COC No. 105589

Page 1 of 1

For Lab Use Only
Cart: 3
VOA Rack/Tray:
Receipt Log No.: 7-5
Project Chemist: JK
Laboratory Project No.: 30162-28

Client Name: North Jackson Co
Address: 1004 Hughes Hill Rd. Suite 102
Marquette, MI 49855
Phone: 906. 225. 6787
Fax: 906. 225. 6769

Project Name: EAGLE
Client Project No. / P.O. No.:
Invoice To: ☐ Client ☒ ~~Other~~ (comments)
Contact/Report To: North Jackson

Analyses Requested

A	B	1000 ml	500 ml (Amber)

⇦ PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List) 3 15 — Number of Containers Submitted		Total	Sample Comments
04	WG	380326	1 QALMC06A / EAG-1001331	TM0779	12-28-04	1440		X	WTR	1	1		
		380327	2 QALMC06B / EAG-1001332		12-28-04	1530		X	WTR	1	1		
		380328	3 QALMC08A / EAG-1001333		12-28-04	1145		X	WTR	1	1		
		380329	4 QALMC08D / EAG-1001334		12-28-04	1155		X	WTR	1	1		
		380330	5 QALMC09A / EAG-1001335		12-28-04	1345		X	WTR	1	1		
		380331	6 QALMC09D / EAG-1001336		12-28-04	1555		X	WTR	1	1		
			7						~~WTR~~				
			8										
			9										
			10										

Sampled By (print): Dawn Marie Peterson
Sampler's Signature: Dawn Marie Peterson
Company: North Jackson Co.

How Shipped? Hand Carrier FedEx
Tracking No.: 790380844130

Comments:
- Invoice to Jon Cleary, Kmart
- Groundwater parameter list for Eagle project

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
Dawn Marie Peterson	12-28-04	18:20						
1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
						Dawn Marie Peterson	12/29/04	9:05

TriMatrixCOC -- COC WHITE COPY - REPORT YELLOW COPY - LABORATORY PINK COPY - FIELD

TriMatrix
Laboratories, Inc.

March 11, 2005

North Jackson Company
Attn: Mr. Peter Sabee
P.O Box 218
Marquette, MI 49855

RE: Eagle
Submittal Number: 36162-29

Dear Mr. Peter Sabee:

Enclosed is a copy of your laboratory report for test samples received by our laboratory on February 25, 2005.

Please note that the test results of the enclosed analyses relate only to the sample(s) as received at the laboratory, and are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC) standards. Qualification of test standards, including sample acceptance requirements, are presented within the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosure(s)

The total number of pages in this report, including this page, is 127.

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Individual sample results relate only to the sample tested.

STATEMENT OF DATA QUALIFICATIONS

Analysis: **Residue,Dissolved @ 180*C**
Residue-Gravimetric, Dried @ 180*C
WATER 160.1/SM 2540 C

Qualification:

The matrix duplicate (DUP) RPD for this sample, fell outside the laboratory control limit for this method and matrix. The corresponding sample result must be considered estimated.

Explanation for Sample(s) listed below:

Relative % Diff	Control Limits
53%	0- 20

Sample(s) Qualified: 383528 DUPS002 EAG- 1001356

Analysis: **Barium, Total**
ICP Mass Spectrometry (ICP-MS)
WATER EPA-200.8/6020

Qualification:

The post-digestion spike recovery for this sample is outside the method established control limits. The corresponding sample result must be considered estimated.

Explanation for Sample(s) listed below:

Percent Recovery	Control Limits
126%	75- 125

Sample(s) Qualified: 384114 STRMS005 EAG- 1001347

Note: This document is included as a part of the analytical report for the above referenced project and submittal, and should be retained as a permanent record thereof.

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Copper, Total**
ICP Mass Spectrometry (ICP-MS)
WATER EPA-200.8/6020

Qualification:

The post-digestion spike recovery for this sample is outside the method established control limits. The corresponding sample result must be considered estimated.

Explanation for Sample(s) listed below:

Percent Recovery	Control Limits
129%	75- 125

Sample(s) Qualified:	384114	STRMS005	EAG-	1001347

Analysis: **Iron, Total**
Atomic Emission-ICP
WATER EPA-200.7/6010B

Qualification:

The analysis of the Method Preparation Blank (MPB) for this parameter, method and associated digestion/extraction batch, had a positive value above the project reporting limit. The corresponding sample result is < 5 times the positive MPB value and therefore must be considered estimated.

Sample(s) Qualified:	383435	CDRMS004	EAG-	1001354
	383439	STRES001	EAG-	1001349

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Coliform, Total**
Enzyme Substrate Test (MPN)
WATER SM 9223B

Qualification:

Analysis performed beyond established USEPA maximum allowable parameter hold time. All positive results must be considered estimated, and all non-detectable results must be considered approximate.

Explanation for Sample(s) listed below:

Sample received after EPA established hold time expired.

Sample(s) Qualified:	383434	CDRAS002	EAG-	1001353
	384114	STRMS005	EAG-	1001347

Explanation for Sample(s) listed below:

Sample received with insufficient time to complete analysis within hold time.

Sample(s) Qualified:	383435	CDRMS004	EAG-	1001354

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CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

5.35

Sample(s) Narrated:	383837	FBKS002	EAG-	1001360

Explanation for Sample(s) listed below:

5.58

Sample(s) Narrated:	383836	FBKS001	EAG-	1001359

Explanation for Sample(s) listed below:

5.81

Sample(s) Narrated:	383833	STRMS001	EAG-	1001343

Explanation for Sample(s) listed below:

6.95

Sample(s) Narrated:	383525	YDRMS003	EAG-	1001352

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CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

6.97

Sample(s) Narrated:	384114	STRMS005	EAG-	1001347

Explanation for Sample(s) listed below:

6.99

Sample(s) Narrated:	383526	YDRMS002	EAG-	1001351

Explanation for Sample(s) listed below:

7.08

Sample(s) Narrated:	383528	DUPS002	EAG-	1001356

Explanation for Sample(s) listed below:

7.20

Sample(s) Narrated:	383527	STRMS002	EAG-	1001344

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CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

7.23

Sample(s) Narrated:	383434	CDRAS002	EAG-	1001353

Explanation for Sample(s) listed below:

7.43

Sample(s) Narrated:	383436	STRWS001	EAG-	1001348

Explanation for Sample(s) listed below:

7.55

Sample(s) Narrated:	383435	CDRMS004	EAG-	1001354

Explanation for Sample(s) listed below:

7.68

Sample(s) Narrated:	383438	STRMS003	EAG-	1001345
	383440	DUPS001	EAG-	1001355
	383835	STRES002	EAG-	1001350

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CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

7.70

Sample(s) Narrated:	383834	STRES006	EAG-	1001361

Explanation for Sample(s) listed below:

7.72

Sample(s) Narrated:	383437	STRMS004	EAG-	1001346
	383439	STRES001	EAG-	1001349

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CASE NARRATIVE

Analysis: **Chromium, Total**
ICP Mass Spectrometry (ICP-MS)
WATER EPA-200.8/6020

Narrative:

The quantitated values of the isotopes monitored for this analyte exceeded a difference of 25%. The lower of the two values has been reported.

Sample(s) Narrated:				
	383440	DUPS001	EAG-	1001355

Analysis: **Nickel, Total**
ICP Mass Spectrometry (ICP-MS)
WATER EPA-200.8/6020

Narrative:

The quantitated values of the isotopes monitored for this analyte exceeded a difference of 25%. The lower of the two values has been reported.

Sample(s) Narrated:			
383834	STRES006	EAG-	1001361
383835	STRES002	EAG-	1001350
384114	STRMS005	EAG-	1001347

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CASE NARRATIVE

Analysis: **BOD, (5-Day)**
Biochemical Oxygen Demand
WATER SDM 5210B

Narrative:

The reported Biochemical Oxygen Demand result for this sample was calculated on an oxygen depletion of <2.0 mg/l

Sample(s) Narrated:				
	383434	CDRAS002	EAG-	1001353
	383435	CDRMS004	EAG-	1001354
	383437	STRMS004	EAG-	1001346
	383526	YDRMS002	EAG-	1001351
	383527	STRMS002	EAG-	1001344
	383528	DUPS002	EAG-	1001356
	384114	STRMS005	EAG-	1001347

Analysis: **Coliform, Total**
Enzyme Substrate Test (MPN)
WATER SM 9223B

Narrative:

Total coliform bacterial colonies were detected in this sample. A confirmation procedure for the presence of E. coli was NEGATIVE.

Sample(s) Narrated:				
	383434	CDRAS002	EAG-	1001353
	383436	STRWS001	EAG-	1001348
	383437	STRMS004	EAG-	1001346
	383438	STRMS003	EAG-	1001345
	383440	DUPS001	EAG-	1001355
	383525	YDRMS003	EAG-	1001352
	383528	DUPS002	EAG-	1001356
	383834	STRES006	EAG-	1001361
	383835	STRES002	EAG-	1001350
	384114	STRMS005	EAG-	1001347

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CASE NARRATIVE

Analysis: **Coliform, Total**
Enzyme Substrate Test (MPN)
WATER SM 9223B

Narrative:

Total coliform bacterial colonies were detected in this sample. A confirmation procedure for the presence of E. coli was POSITIVE.

Sample(s) Narrated:				
	383435	CDRMS004	EAG-	1001354
	383439	STRES001	EAG-	1001349
	383526	YDRMS002	EAG-	1001351
	383527	STRMS002	EAG-	1001344
	383833	STRMS001	EAG-	1001343

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/15/05 @ 09:30
Sampler: PJS
Received: 02/16/05 @ 09:30

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **CDRAS002 EAG- 1001353**
Sample #: **383434**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	114	2.0	mg/L	02/21/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	02/21/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	02/21/05	JLB	325.2/4500-CL E
Fluoride	<0.10	0.10	mg/L	02/24/05	SAJ	SM 4500 F-C
Nitrogen, Ammonia	<0.02	0.02	mg/L	02/18/05	GEH	350.1/4500 NH3G
Nitrogen, Nitrate	0.08	0.05	mg/L	02/16/05	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	02/16/05	HLB	USEPA-353.2
Sulfate	3.1	1.0	mg/L	02/22/05	JLB	EPA-375.4/9038
Sulfide	<1.0	1.0	mg/L	02/19/05	HLB	376.1/4500 S2-F
Residue,Dissolved @ 180*C	46	20	mg/L	02/17/05	GEH	160.1/SM 2540 C
Residue, Suspended	<3	3	mg/L	02/17/05	GEH	160.2/SM 2540 D
Alkalinity, Total	114	2.0	mg/L	02/21/05	INR	310.1/SM 2320 B
Chemical Oxygen Demand	<5.0	5.0	mg/L	02/25/05	JMJ	410.4/SM 5220 D
Carbon, Dissolved Organic	1.1	1.0	mg/L	02/23/05	SAJ	SDM 5310 D
Carbon, Total Organic	<1.0	1.0	mg/L	02/22/05	SAJ	EPA 415.1/5310D
BOD, (5-Day)	1.1	1.0	mg/L	02/17/05	JLB	SDM 5210B
* Coliform, Total	30	2	col/100mL	02/16/05	HLB	SM 9223B
Color (Apparent)	<5	5	A.C.U.	02/16/05	GEH	USEPA-110.2
Turbidity	<1.0	1.0	NTU	02/16/05	HLB	USEPA-180.1
SGT-HEM;Nonpolar Material	<10	10	mg/L	02/24/05	JMJ	USEPA-1664A
Aluminum, Total	50	50	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Iron, Total	<20	20	ug/L	03/09/05	DWJ	EPA-200.7/6010B
Lithium, Total	<10	10	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Antimony, Total	<2.0	2.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Arsenic, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Beryllium, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Boron, Total	<50	50	ug/L	02/23/05	DSC	EPA-200.8/6020
Cadmium, Total	<0.2	0.2	ug/L	02/23/05	DSC	EPA-200.8/6020
Chromium, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Cobalt, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Lead, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/15/05 @ 09:30
Sampler: PJS
Received: 02/16/05 @ 09:30

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **CDRAS002 EAG- 1001353**
Sample #: **383434**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Manganese, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Silver, Total	<0.2	0.2	ug/L	02/23/05	DSC	EPA-200.8/6020
Zinc, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Calcium, Dissolved	15	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	0.53	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	2.2	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	0.61	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B

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ANALYTICAL REPORT

Client:	**North Jackson Company**	Sampled:	02/15/05 @ 09:30
Project:	Eagle	Sampler:	PJS
		Received:	02/16/05 @ 09:30
Submittal #:	**36162-29**	Prepared:	n/a
Submittal:	02/2005 Full List SW	Prep. Method:	n/a
		Analyzed:	02/21/05 by DLVV
Sample ID:	**CDRAS002 EAG- 1001353**	Anal. Method:	USEPA-8260B
Sample #:	**383434**	QC Batch:	103963 -121
Matrix:	Surface Water	Anal. Batch:	228787
Unit:	ug/L	Percent Solids:	n/a
		Dilution Factor:	1

CAS Number	Volatile Organics USEPA Method 8260B	Analytical Result	Reporting Limit
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/15/05 @ 10:30
Sampler: PJS
Received: 02/16/05 @ 09:30

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **CDRMS004 EAG- 1001354**
Sample #: **383435**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	62	2.0	mg/L	02/21/05	INR	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	02/21/05	INR	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	02/21/05	JLB	325.2/4500-CL E
	Fluoride	<0.10	0.10	mg/L	02/24/05	SAJ	SM 4500 F-C
	Nitrogen, Ammonia	<0.02	0.02	mg/L	02/18/05	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	0.10	0.05	mg/L	02/16/05	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	02/16/05	HLB	USEPA-353.2
	Sulfate	<1.0	1.0	mg/L	02/22/05	JLB	EPA-375.4/9038
	Sulfide	<1.0	1.0	mg/L	02/19/05	HLB	376.1/4500 S2-F
	Residue,Dissolved @ 180*C	67	20	mg/L	02/17/05	GEH	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	02/17/05	GEH	160.2/SM 2540 D
	Alkalinity, Total	62	2.0	mg/L	02/21/05	INR	310.1/SM 2320 B
	Chemical Oxygen Demand	5.7	5.0	mg/L	02/25/05	JMJ	410.4/SM 5220 D
	Carbon, Dissolved Organic	2.7	1.0	mg/L	02/23/05	SAJ	SDM 5310 D
	Carbon, Total Organic	2.5	1.0	mg/L	02/22/05	SAJ	EPA 415.1/5310D
	BOD, (5-Day)	1.0	1.0	mg/L	02/17/05	JLB	SDM 5210B
*	Coliform, Total	240	2	col/100mL	02/16/05	HLB	SM 9223B
	Color (Apparent)	20	5	A.C.U.	02/16/05	GEH	USEPA-110.2
	Turbidity	<1.0	1.0	NTU	02/16/05	HLB	USEPA-180.1
	SGT-HEM;Nonpolar Material	<10	10	mg/L	02/24/05	JMJ	USEPA-1664A
	Aluminum, Total	57	50	ug/L	03/03/05	DWJ	EPA-200.7/6010B
*	Iron, Total	88	20	ug/L	03/09/05	DWJ	EPA-200.7/6010B
	Lithium, Total	<10	10	ug/L	03/03/05	DWJ	EPA-200.7/6010B
	Antimony, Total	<2.0	2.0	ug/L	02/23/05	DSC	EPA-200.8/6020
	Arsenic, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
	Barium, Total	11	10	ug/L	02/23/05	DSC	EPA-200.8/6020
	Beryllium, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
	Boron, Total	<50	50	ug/L	02/23/05	DSC	EPA-200.8/6020
	Cadmium, Total	<0.2	0.2	ug/L	02/23/05	DSC	EPA-200.8/6020
	Chromium, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
	Cobalt, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
	Lead, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/15/05 @ 10:30
Sampler: PJS
Received: 02/16/05 @ 09:30

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **CDRMS004 EAG- 1001354**
Sample #: **383435**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Manganese, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Silver, Total	<0.2	0.2	ug/L	02/23/05	DSC	EPA-200.8/6020
Zinc, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Calcium, Dissolved	20	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	0.62	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	3.4	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	1.2	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client:	**North Jackson Company**	Sampled:	02/15/05 @ 10:30
Project:	Eagle	Sampler:	PJS
		Received:	02/16/05 @ 09:30
		Prepared:	n/a
Submittal #:	**36162-29**	Prep. Method:	n/a
Submittal:	02/2005 Full List SW	Analyzed:	02/21/05 by DLVV
		Anal. Method:	USEPA-8260B
Sample ID:	**CDRMS004 EAG- 1001354**	QC Batch:	103963 -121
Sample #:	**383435**	Anal. Batch:	228787
Matrix:	Surface Water	Percent Solids:	n/a
Unit:	ug/L	Dilution Factor:	1

CAS Number	Volatile Organics USEPA Method 8260B	Analytical Result	Reporting Limit
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/15/05 @ 11:50
Sampler: PJS
Received: 02/16/05 @ 09:30

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **STRWS001 EAG- 1001348**
Sample #: **383436**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	55	2.0	mg/L	02/21/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	02/21/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	02/21/05	JLB	325.2/4500-CL E
Fluoride	<0.10	0.10	mg/L	02/24/05	SAJ	SM 4500 F-C
Nitrogen, Ammonia	<0.02	0.02	mg/L	02/18/05	GEH	350.1/4500 NH3G
Nitrogen, Nitrate	0.08	0.05	mg/L	02/16/05	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	02/16/05	HLB	USEPA-353.2
Sulfate	<1.0	1.0	mg/L	02/22/05	JLB	EPA-375.4/9038
Sulfide	<1.0	1.0	mg/L	02/19/05	HLB	376.1/4500 S2-F
Residue,Dissolved @ 180*C	63	20	mg/L	02/17/05	GEH	160.1/SM 2540 C
Residue, Suspended	<3	3	mg/L	02/17/05	GEH	160.2/SM 2540 D
Alkalinity, Total	55	2.0	mg/L	02/21/05	INR	310.1/SM 2320 B
Chemical Oxygen Demand	9.8	5.0	mg/L	02/25/05	JMJ	410.4/SM 5220 D
Carbon, Dissolved Organic	4.6	1.0	mg/L	02/23/05	SAJ	SDM 5310 D
Carbon, Total Organic	4.0	1.0	mg/L	02/22/05	SAJ	EPA 415.1/5310D
BOD, (5-Day)	<1.0	1.0	mg/L	02/17/05	JLB	SDM 5210B
Coliform, Total	170	2	col/100mL	02/16/05	HLB	SM 9223B
Color (Apparent)	25	5	A.C.U.	02/16/05	GEH	USEPA-110.2
Turbidity	1.4	1.0	NTU	02/16/05	HLB	USEPA-180.1
SGT-HEM;Nonpolar Material	<10	10	mg/L	02/24/05	JMJ	USEPA-1664A
Aluminum, Total	<50	50	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Iron, Total	220	20	ug/L	03/09/05	DWJ	EPA-200.7/6010B
Lithium, Total	<10	10	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Antimony, Total	<2.0	2.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Arsenic, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Barium, Total	12	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Beryllium, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Boron, Total	<50	50	ug/L	02/23/05	DSC	EPA-200.8/6020
Cadmium, Total	<0.2	0.2	ug/L	02/23/05	DSC	EPA-200.8/6020
Chromium, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Cobalt, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Lead, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/15/05 @ 11:50
Sampler: PJS
Received: 02/16/05 @ 09:30

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **STRWS001 EAG- 1001348**
Sample #: **383436**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Manganese, Total	23	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Silver, Total	<0.2	0.2	ug/L	02/23/05	DSC	EPA-200.8/6020
Zinc, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Calcium, Dissolved	16	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	0.58	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	2.8	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	1.0	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **STRWS001 EAG- 1001348**
Sample #: **383436**
Matrix: Surface Water
Unit: ug/L

Sampled: 02/15/05 @ 11:50
Sampler: PJS
Received: 02/16/05 @ 09:30
Prepared: n/a
Prep. Method: n/a
Analyzed: 02/21/05 by DLVV
Anal. Method: USEPA-8260B
QC Batch: 103963 -121
Anal. Batch: 228787
Percent Solids: n/a
Dilution Factor: 1

CAS Number	Volatile Organics USEPA Method 8260B	Analytical Result	Reporting Limit
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/15/05 @ 13:40
Sampler: PJS
Received: 02/16/05 @ 09:30

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **STRMS004 EAG- 1001346**
Sample #: **383437**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	47	2.0	mg/L	02/21/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	02/21/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	02/21/05	JLB	325.2/4500-CL E
Fluoride	<0.10	0.10	mg/L	02/24/05	SAJ	SM 4500 F-C
Nitrogen, Ammonia	<0.02	0.02	mg/L	02/18/05	GEH	350.1/4500 NH3G
Nitrogen, Nitrate	0.23	0.05	mg/L	02/16/05	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	02/16/05	HLB	USEPA-353.2
Sulfate	<1.0	1.0	mg/L	02/22/05	JLB	EPA-375.4/9038
Sulfide	<1.0	1.0	mg/L	02/19/05	HLB	376.1/4500 S2-F
Residue,Dissolved @ 180*C	55	20	mg/L	02/17/05	GEH	160.1/SM 2540 C
Residue, Suspended	<3	3	mg/L	02/17/05	GEH	160.2/SM 2540 D
Alkalinity, Total	47	2.0	mg/L	02/21/05	INR	310.1/SM 2320 B
Chemical Oxygen Demand	7.5	5.0	mg/L	02/25/05	JMJ	410.4/SM 5220 D
Carbon, Dissolved Organic	3.4	1.0	mg/L	02/23/05	SAJ	SDM 5310 D
Carbon, Total Organic	3.0	1.0	mg/L	02/22/05	SAJ	EPA 415.1/5310D
BOD, (5-Day)	1.1	1.0	mg/L	02/17/05	JLB	SDM 5210B
Coliform, Total	280	2	col/100mL	02/16/05	HLB	SM 9223B
Color (Apparent)	25	5	A.C.U.	02/16/05	GEH	USEPA-110.2
Turbidity	1.6	1.0	NTU	02/16/05	HLB	USEPA-180.1
SGT-HEM;Nonpolar Material	<10	10	mg/L	02/24/05	JMJ	USEPA-1664A
Aluminum, Total	150	50	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Iron, Total	160	20	ug/L	03/09/05	DWJ	EPA-200.7/6010B
Lithium, Total	<10	10	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Antimony, Total	<2.0	2.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Arsenic, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Beryllium, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Boron, Total	<50	50	ug/L	02/23/05	DSC	EPA-200.8/6020
Cadmium, Total	<0.2	0.2	ug/L	02/23/05	DSC	EPA-200.8/6020
Chromium, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Cobalt, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Lead, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/15/05 @ 13:40
Sampler: PJS
Received: 02/16/05 @ 09:30

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **STRMS004 EAG- 1001346**
Sample #: **383437**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Manganese, Total	15	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Silver, Total	<0.2	0.2	ug/L	02/23/05	DSC	EPA-200.8/6020
Zinc, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Calcium, Dissolved	14	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	0.58	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	2.6	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	0.81	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client:	**North Jackson Company**	Sampled:	02/15/05 @ 13:40
Project:	Eagle	Sampler:	PJS
		Received:	02/16/05 @ 09:30
		Prepared:	n/a
Submittal #:	**36162-29**	Prep. Method:	n/a
Submittal:	02/2005 Full List SW	Analyzed:	02/21/05 by DLVV
		Anal. Method:	USEPA-8260B
Sample ID:	**STRMS004 EAG- 1001346**	QC Batch:	103963 -121
Sample #:	**383437**	Anal. Batch:	228787
Matrix:	Surface Water	Percent Solids:	n/a
Unit:	ug/L	Dilution Factor:	1

CAS Number	Volatile Organics USEPA Method 8260B	Analytical Result	Reporting Limit
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/15/05 @ 14:50
Sampler: PJS
Received: 02/16/05 @ 09:30

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **STRMS003 EAG- 1001345**
Sample #: **383438**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	44	2.0	mg/L	02/21/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	02/21/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	02/21/05	JLB	325.2/4500-CL E
Fluoride	<0.10	0.10	mg/L	02/24/05	SAJ	SM 4500 F-C
Nitrogen, Ammonia	<0.02	0.02	mg/L	02/18/05	GEH	350.1/4500 NH3G
Nitrogen, Nitrate	0.20	0.05	mg/L	02/16/05	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	02/16/05	HLB	USEPA-353.2
Sulfate	<1.0	1.0	mg/L	02/22/05	JLB	EPA-375.4/9038
Sulfide	<1.0	1.0	mg/L	02/19/05	HLB	376.1/4500 S2-F
Residue,Dissolved @ 180*C	46	20	mg/L	02/17/05	GEH	160.1/SM 2540 C
Residue, Suspended	<3	3	mg/L	02/17/05	GEH	160.2/SM 2540 D
Alkalinity, Total	44	2.0	mg/L	02/21/05	INR	310.1/SM 2320 B
Chemical Oxygen Demand	7.3	5.0	mg/L	02/25/05	JMJ	410.4/SM 5220 D
Carbon, Dissolved Organic	3.0	1.0	mg/L	02/23/05	SAJ	SDM 5310 D
Carbon, Total Organic	2.5	1.0	mg/L	02/22/05	SAJ	EPA 415.1/5310D
BOD, (5-Day)	<1.0	1.0	mg/L	02/17/05	JLB	SDM 5210B
Coliform, Total	90	2	col/100mL	02/16/05	HLB	SM 9223B
Color (Apparent)	25	5	A.C.U.	02/16/05	GEH	USEPA-110.2
Turbidity	1.9	1.0	NTU	02/16/05	HLB	USEPA-180.1
SGT-HEM;Nonpolar Material	<10	10	mg/L	02/24/05	JMJ	USEPA-1664A
Aluminum, Total	94	50	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Iron, Total	160	20	ug/L	03/09/05	DWJ	EPA-200.7/6010B
Lithium, Total	<10	10	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Antimony, Total	<2.0	2.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Arsenic, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Beryllium, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Boron, Total	<50	50	ug/L	02/23/05	DSC	EPA-200.8/6020
Cadmium, Total	<0.2	0.2	ug/L	02/23/05	DSC	EPA-200.8/6020
Chromium, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Cobalt, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Lead, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/15/05 @ 14:50
Sampler: PJS
Received: 02/16/05 @ 09:30

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **STRMS003 EAG- 1001345**
Sample #: **383438**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Manganese, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Silver, Total	<0.2	0.2	ug/L	02/23/05	DSC	EPA-200.8/6020
Zinc, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Calcium, Dissolved	13	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	0.64	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	2.3	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	0.88	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B

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ANALYTICAL REPORT

Client:	**North Jackson Company**	Sampled:	02/15/05 @ 14:50
Project:	Eagle	Sampler:	PJS
		Received:	02/16/05 @ 09:30
		Prepared:	n/a
Submittal #:	**36162-29**	Prep. Method:	n/a
Submittal:	02/2005 Full List SW	Analyzed:	02/21/05 by DLVV
		Anal. Method:	USEPA-8260B
Sample ID:	**STRMS003 EAG- 1001345**	QC Batch:	103963 -121
Sample #:	**383438**	Anal. Batch:	228787
Matrix:	Surface Water	Percent Solids:	n/a
Unit:	ug/L	Dilution Factor:	1

CAS Number	Volatile Organics USEPA Method 8260B	Analytical Result	Reporting Limit
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/15/05 @ 15:40
Sampler: PJS
Received: 02/16/05 @ 09:30

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **STRES001 EAG- 1001349**
Sample #: **383439**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	65	2.0	mg/L	02/21/05	INR	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	02/21/05	INR	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	02/21/05	JLB	325.2/4500-CL E
	Fluoride	<0.10	0.10	mg/L	02/24/05	SAJ	SM 4500 F-C
	Nitrogen, Ammonia	<0.02	0.02	mg/L	02/18/05	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	0.09	0.05	mg/L	02/16/05	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	02/16/05	HLB	USEPA-353.2
	Sulfate	3.9	1.0	mg/L	02/22/05	JLB	EPA-375.4/9038
	Sulfide	<1.0	1.0	mg/L	02/19/05	HLB	376.1/4500 S2-F
	Residue,Dissolved @ 180*C	73	20	mg/L	02/17/05	GEH	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	02/17/05	GEH	160.2/SM 2540 D
	Alkalinity, Total	65	2.0	mg/L	02/21/05	INR	310.1/SM 2320 B
	Chemical Oxygen Demand	<5.0	5.0	mg/L	02/25/05	JMJ	410.4/SM 5220 D
	Carbon, Dissolved Organic	2.1	1.0	mg/L	02/23/05	SAJ	SDM 5310 D
	Carbon, Total Organic	1.7	1.0	mg/L	02/22/05	SAJ	EPA 415.1/5310D
	BOD, (5-Day)	<1.0	1.0	mg/L	02/17/05	JLB	SDM 5210B
	Coliform, Total	50	2	col/100mL	02/16/05	HLB	SM 9223B
	Color (Apparent)	10	5	A.C.U.	02/16/05	GEH	USEPA-110.2
	Turbidity	<1.0	1.0	NTU	02/16/05	HLB	USEPA-180.1
	SGT-HEM;Nonpolar Material	<10	10	mg/L	02/24/05	JMJ	USEPA-1664A
	Aluminum, Total	91	50	ug/L	03/03/05	DWJ	EPA-200.7/6010B
*	Iron, Total	75	20	ug/L	03/09/05	DWJ	EPA-200.7/6010B
	Lithium, Total	<10	10	ug/L	03/03/05	DWJ	EPA-200.7/6010B
	Antimony, Total	<2.0	2.0	ug/L	02/23/05	DSC	EPA-200.8/6020
	Arsenic, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
	Beryllium, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
	Boron, Total	<50	50	ug/L	02/23/05	DSC	EPA-200.8/6020
	Cadmium, Total	<0.2	0.2	ug/L	02/23/05	DSC	EPA-200.8/6020
	Chromium, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
	Cobalt, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
	Lead, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/15/05 @ 15:40
Sampler: PJS
Received: 02/16/05 @ 09:30

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **STRES001 EAG- 1001349**
Sample #: **383439**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Manganese, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Silver, Total	<0.2	0.2	ug/L	02/23/05	DSC	EPA-200.8/6020
Zinc, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Calcium, Dissolved	19	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	0.55	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	3.8	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	1.2	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B

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ANALYTICAL REPORT

Client:	**North Jackson Company**	Sampled:	02/15/05 @ 15:40
Project:	Eagle	Sampler:	PJS
		Received:	02/16/05 @ 09:30
Submittal #:	**36162-29**	Prepared:	n/a
Submittal:	02/2005 Full List SW	Prep. Method:	n/a
		Analyzed:	02/21/05 by DLVV
Sample ID:	**STRES001 EAG- 1001349**	Anal. Method:	USEPA-8260B
Sample #:	**383439**	QC Batch:	103963 -121
Matrix:	Surface Water	Anal. Batch:	228787
Unit:	ug/L	Percent Solids:	n/a
		Dilution Factor:	1

CAS Number	Volatile Organics USEPA Method 8260B	Analytical Result	Reporting Limit
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/15/05 @ 11:50
Sampler: PJS
Received: 02/16/05 @ 09:30

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **DUPS001 EAG- 1001355**
Sample #: **383440**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	55	2.0	mg/L	02/21/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	02/21/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	02/21/05	JLB	325.2/4500-CL E
Fluoride	<0.10	0.10	mg/L	02/24/05	SAJ	SM 4500 F-C
Nitrogen, Ammonia	<0.02	0.02	mg/L	02/18/05	GEH	350.1/4500 NH3G
Nitrogen, Nitrate	0.08	0.05	mg/L	02/16/05	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	02/16/05	HLB	USEPA-353.2
Sulfate	<1.0	1.0	mg/L	02/22/05	JLB	EPA-375.4/9038
Sulfide	<1.0	1.0	mg/L	02/19/05	HLB	376.1/4500 S2-F
Residue,Dissolved @ 180*C	61	20	mg/L	02/17/05	GEH	160.1/SM 2540 C
Residue, Suspended	<3	3	mg/L	02/17/05	GEH	160.2/SM 2540 D
Alkalinity, Total	55	2.0	mg/L	02/21/05	INR	310.1/SM 2320 B
Chemical Oxygen Demand	9.9	5.0	mg/L	02/25/05	JMJ	410.4/SM 5220 D
Carbon, Dissolved Organic	4.5	1.0	mg/L	02/23/05	SAJ	SDM 5310 D
Carbon, Total Organic	4.1	1.0	mg/L	02/22/05	SAJ	EPA 415.1/5310D
BOD, (5-Day)	<1.0	1.0	mg/L	02/17/05	JLB	SDM 5210B
Coliform, Total	280	2	col/100mL	02/16/05	HLB	SM 9223B
Color (Apparent)	25	5	A.C.U.	02/16/05	GEH	USEPA-110.2
Turbidity	1.8	1.0	NTU	02/16/05	HLB	USEPA-180.1
SGT-HEM;Nonpolar Material	<10	10	mg/L	02/24/05	JMJ	USEPA-1664A
Aluminum, Total	60	50	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Iron, Total	230	20	ug/L	03/09/05	DWJ	EPA-200.7/6010B
Lithium, Total	<10	10	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Antimony, Total	<2.0	2.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Arsenic, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Barium, Total	11	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Beryllium, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Boron, Total	<50	50	ug/L	02/23/05	DSC	EPA-200.8/6020
Cadmium, Total	<0.2	0.2	ug/L	02/23/05	DSC	EPA-200.8/6020
Chromium, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Cobalt, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Lead, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/15/05 @ 11:50
Sampler: PJS
Received: 02/16/05 @ 09:30

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **DUPS001 EAG- 1001355**
Sample #: **383440**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Manganese, Total	23	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Silver, Total	<0.2	0.2	ug/L	02/23/05	DSC	EPA-200.8/6020
Zinc, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Calcium, Dissolved	16	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	0.57	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	2.8	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	1.1	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client:	**North Jackson Company**	Sampled:	02/15/05 @ 11:50
Project:	Eagle	Sampler:	PJS
		Received:	02/16/05 @ 09:30
		Prepared:	n/a
Submittal #:	**36162-29**	Prep. Method:	n/a
Submittal:	02/2005 Full List SW	Analyzed:	02/21/05 by DLVV
		Anal. Method:	USEPA-8260B
Sample ID:	**DUPS001 EAG- 1001355**	QC Batch:	103963 -121
Sample #:	**383440**	Anal. Batch:	228787
Matrix:	Surface Water	Percent Solids:	n/a
Unit:	ug/L	Dilution Factor:	1

CAS Number	Volatile Organics USEPA Method 8260B	Analytical Result	Reporting Limit
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/16/05 @ 11:00
Sampler: P. Sabee
Received: 02/17/05 @ 10:35

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **YDRMS003 EAG- 1001352**
Sample #: **383525**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	23	2.0	mg/L	02/21/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	02/21/05	INR	310.1/SM 2320 B
Chloride	1.7	1.0	mg/L	02/21/05	JLB	325.2/4500-CL E
Fluoride	<0.10	0.10	mg/L	02/24/05	SAJ	SM 4500 F-C
Nitrogen, Ammonia	0.07	0.02	mg/L	02/18/05	GEH	350.1/4500 NH3G
Nitrogen, Nitrate	0.12	0.05	mg/L	02/18/05	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	02/18/05	HLB	USEPA-353.2
Sulfate	<1.0	1.0	mg/L	02/22/05	JLB	EPA-375.4/9038
Sulfide	<1.0	1.0	mg/L	02/19/05	HLB	376.1/4500 S2-F
Residue,Dissolved @ 180*C	26	20	mg/L	02/17/05	GEH	160.1/SM 2540 C
Residue, Suspended	<3	3	mg/L	02/17/05	GEH	160.2/SM 2540 D
Alkalinity, Total	23	2.0	mg/L	02/21/05	INR	310.1/SM 2320 B
Chemical Oxygen Demand	20	5.0	mg/L	02/25/05	JMJ	410.4/SM 5220 D
Carbon, Dissolved Organic	8.4	1.0	mg/L	02/23/05	SAJ	SDM 5310 D
Carbon, Total Organic	7.5	1.0	mg/L	02/22/05	SAJ	EPA 415.1/5310D
BOD, (5-Day)	<1.0	1.0	mg/L	02/17/05	JLB	SDM 5210B
Coliform, Total	130	2	col/100mL	02/17/05	HLB	SM 9223B
Color (Apparent)	70	10	A.C.U.	02/18/05	GEH	USEPA-110.2
Turbidity	1.9	1.0	NTU	02/18/05	HLB	USEPA-180.1
SGT-HEM;Nonpolar Material	<10	10	mg/L	02/24/05	JMJ	USEPA-1664A
Aluminum, Total	59	50	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Iron, Total	300	20	ug/L	03/09/05	DWJ	EPA-200.7/6010B
Lithium, Total	<10	10	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Antimony, Total	<2.0	2.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Arsenic, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Beryllium, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Boron, Total	<50	50	ug/L	02/23/05	DSC	EPA-200.8/6020
Cadmium, Total	<0.2	0.2	ug/L	02/23/05	DSC	EPA-200.8/6020
Chromium, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Cobalt, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Lead, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/16/05 @ 11:00
Sampler: P. Sabee
Received: 02/17/05 @ 10:35

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **YDRMS003 EAG- 1001352**
Sample #: **383525**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Manganese, Total	18	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Silver, Total	<0.2	0.2	ug/L	02/23/05	DSC	EPA-200.8/6020
Zinc, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Calcium, Dissolved	7.1	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	1.7	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	0.81	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B

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ANALYTICAL REPORT

Client:	**North Jackson Company**	Sampled:	02/16/05 @ 11:00
Project:	Eagle	Sampler:	P. Sabee
		Received:	02/17/05 @ 10:35
		Prepared:	n/a
Submittal #:	**36162-29**	Prep. Method:	n/a
Submittal:	02/2005 Full List SW	Analyzed:	02/21/05 by DLVV
		Anal. Method:	USEPA-8260B
Sample ID:	**YDRMS003 EAG- 1001352**	QC Batch:	103963 -121
Sample #:	**383525**	Anal. Batch:	228787
Matrix:	Surface Water	Percent Solids:	n/a
Unit:	ug/L	Dilution Factor:	1

CAS Number	Volatile Organics USEPA Method 8260B	Analytical Result	Reporting Limit
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/16/05 @ 14:00
Sampler: P. Sabee
Received: 02/17/05 @ 10:35

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **YDRMS002 EAG- 1001351**
Sample #: **383526**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	21	2.0	mg/L	02/21/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	02/21/05	INR	310.1/SM 2320 B
Chloride	1.5	1.0	mg/L	02/21/05	JLB	325.2/4500-CL E
Fluoride	<0.10	0.10	mg/L	02/24/05	SAJ	SM 4500 F-C
Nitrogen, Ammonia	0.11	0.02	mg/L	02/18/05	GEH	350.1/4500 NH3G
Nitrogen, Nitrate	0.10	0.05	mg/L	02/18/05	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	02/18/05	HLB	USEPA-353.2
Sulfate	<1.0	1.0	mg/L	02/22/05	JLB	EPA-375.4/9038
Sulfide	<1.0	1.0	mg/L	02/19/05	HLB	376.1/4500 S2-F
Residue,Dissolved @ 180*C	<20	20	mg/L	02/17/05	GEH	160.1/SM 2540 C
Residue, Suspended	<3	3	mg/L	02/17/05	GEH	160.2/SM 2540 D
Alkalinity, Total	21	2.0	mg/L	02/21/05	INR	310.1/SM 2320 B
Chemical Oxygen Demand	20	5.0	mg/L	02/25/05	JMJ	410.4/SM 5220 D
Carbon, Dissolved Organic	8.5	1.0	mg/L	02/23/05	SAJ	SDM 5310 D
Carbon, Total Organic	7.8	1.0	mg/L	02/22/05	SAJ	EPA 415.1/5310D
BOD, (5-Day)	1.6	1.0	mg/L	02/17/05	JLB	SDM 5210B
Coliform, Total	30	2	col/100mL	02/17/05	HLB	SM 9223B
Color (Apparent)	80	10	A.C.U.	02/18/05	GEH	USEPA-110.2
Turbidity	1.8	1.0	NTU	02/18/05	HLB	USEPA-180.1
SGT-HEM;Nonpolar Material	<10	10	mg/L	02/24/05	JMJ	USEPA-1664A
Aluminum, Total	68	50	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Iron, Total	590	20	ug/L	03/09/05	DWJ	EPA-200.7/6010B
Lithium, Total	<10	10	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Antimony, Total	<2.0	2.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Arsenic, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Beryllium, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Boron, Total	<50	50	ug/L	02/23/05	DSC	EPA-200.8/6020
Cadmium, Total	<0.2	0.2	ug/L	02/23/05	DSC	EPA-200.8/6020
Chromium, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Cobalt, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Lead, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/16/05 @ 14:00
Sampler: P. Sabee
Received: 02/17/05 @ 10:35

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **YDRMS002 EAG- 1001351**
Sample #: **383526**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Manganese, Total	31	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Nickel, Total	3.2	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Silver, Total	<0.2	0.2	ug/L	02/23/05	DSC	EPA-200.8/6020
Zinc, Total	71	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Calcium, Dissolved	7.9	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	1.9	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	0.83	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B

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ANALYTICAL REPORT

Client:	**North Jackson Company**	Sampled:	02/16/05 @ 14:00
Project:	Eagle	Sampler:	P. Sabee
		Received:	02/17/05 @ 10:35
		Prepared:	n/a
Submittal #:	**36162-29**	Prep. Method:	n/a
Submittal:	02/2005 Full List SW	Analyzed:	02/21/05 by DLVV
		Anal. Method:	USEPA-8260B
Sample ID:	**YDRMS002 EAG- 1001351**	QC Batch:	103963 -121
Sample #:	**383526**	Anal. Batch:	228787
Matrix:	Surface Water	Percent Solids:	n/a
Unit:	ug/L	Dilution Factor:	1

CAS Number	Volatile Organics USEPA Method 8260B	Analytical Result	Reporting Limit
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/16/05 @ 16:00
Sampler: P. Sabee
Received: 02/17/05 @ 10:35

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **STRMS002 EAG- 1001344**
Sample #: **383527**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	30	2.0	mg/L	02/21/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	02/21/05	INR	310.1/SM 2320 B
Chloride	1.4	1.0	mg/L	02/21/05	JLB	325.2/4500-CL E
Fluoride	<0.10	0.10	mg/L	02/24/05	SAJ	SM 4500 F-C
Nitrogen, Ammonia	0.05	0.02	mg/L	02/18/05	GEH	350.1/4500 NH3G
Nitrogen, Nitrate	0.08	0.05	mg/L	02/18/05	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	02/18/05	HLB	USEPA-353.2
Sulfate	<1.0	1.0	mg/L	02/22/05	JLB	EPA-375.4/9038
Sulfide	<1.0	1.0	mg/L	02/19/05	HLB	376.1/4500 S2-F
Residue,Dissolved @ 180*C	<20	20	mg/L	02/17/05	GEH	160.1/SM 2540 C
Residue, Suspended	<3	3	mg/L	02/17/05	GEH	160.2/SM 2540 D
Alkalinity, Total	30	2.0	mg/L	02/21/05	INR	310.1/SM 2320 B
Chemical Oxygen Demand	11	5.0	mg/L	02/25/05	JMJ	410.4/SM 5220 D
Carbon, Dissolved Organic	4.7	1.0	mg/L	02/23/05	SAJ	SDM 5310 D
Carbon, Total Organic	4.2	1.0	mg/L	02/22/05	SAJ	EPA 415.1/5310D
BOD, (5-Day)	1.1	1.0	mg/L	02/17/05	JLB	SDM 5210B
Coliform, Total	110	2	col/100mL	02/17/05	HLB	SM 9223B
Color (Apparent)	45	5	A.C.U.	02/18/05	GEH	USEPA-110.2
Turbidity	1.6	1.0	NTU	02/18/05	HLB	USEPA-180.1
SGT-HEM;Nonpolar Material	<10	10	mg/L	02/24/05	JMJ	USEPA-1664A
Aluminum, Total	60	50	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Iron, Total	210	20	ug/L	03/09/05	DWJ	EPA-200.7/6010B
Lithium, Total	<10	10	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Antimony, Total	<2.0	2.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Arsenic, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Beryllium, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Boron, Total	<50	50	ug/L	02/23/05	DSC	EPA-200.8/6020
Cadmium, Total	<0.2	0.2	ug/L	02/23/05	DSC	EPA-200.8/6020
Chromium, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Cobalt, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Lead, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/16/05 @ 16:00
Sampler: P. Sabee
Received: 02/17/05 @ 10:35

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **STRMS002 EAG- 1001344**
Sample #: **383527**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Manganese, Total	11	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Silver, Total	<0.2	0.2	ug/L	02/23/05	DSC	EPA-200.8/6020
Zinc, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Calcium, Dissolved	8.2	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	0.60	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	1.8	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	0.97	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B

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ANALYTICAL REPORT

Client:	**North Jackson Company**	Sampled:	02/16/05 @ 16:00
Project:	Eagle	Sampler:	P. Sabee
		Received:	02/17/05 @ 10:35
		Prepared:	n/a
Submittal #:	**36162-29**	Prep. Method:	n/a
Submittal:	02/2005 Full List SW	Analyzed:	02/22/05 by DLVV
		Anal. Method:	USEPA-8260B
Sample ID:	**STRMS002 EAG- 1001344**	QC Batch:	103963 -122
Sample #:	**383527**	Anal. Batch:	228904
Matrix:	Surface Water	Percent Solids:	n/a
Unit:	ug/L	Dilution Factor:	1

CAS Number	Volatile Organics USEPA Method 8260B	Analytical Result	Reporting Limit
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/16/05 @ 14:00
Sampler: P. Sabee
Received: 02/17/05 @ 10:35

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **DUPS002 EAG- 1001356**
Sample #: **383528**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	35	2.0	mg/L	02/21/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	02/21/05	INR	310.1/SM 2320 B
Chloride	1.1	1.0	mg/L	02/21/05	JLB	325.2/4500-CL E
Fluoride	<0.10	0.10	mg/L	02/24/05	SAJ	SM 4500 F-C
Nitrogen, Ammonia	0.05	0.02	mg/L	02/18/05	GEH	350.1/4500 NH3G
Nitrogen, Nitrate	0.10	0.05	mg/L	02/18/05	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	02/18/05	HLB	USEPA-353.2
Sulfate	<1.0	1.0	mg/L	02/22/05	JLB	EPA-375.4/9038
Sulfide	<1.0	1.0	mg/L	02/19/05	HLB	376.1/4500 S2-F
* Residue,Dissolved @ 180*C	22	20	mg/L	02/17/05	GEH	160.1/SM 2540 C
Residue, Suspended	<3	3	mg/L	02/17/05	GEH	160.2/SM 2540 D
Alkalinity, Total	35	2.0	mg/L	02/21/05	INR	310.1/SM 2320 B
Chemical Oxygen Demand	20	5.0	mg/L	02/25/05	JMJ	410.4/SM 5220 D
Carbon, Dissolved Organic	8.5	1.0	mg/L	02/23/05	SAJ	SDM 5310 D
Carbon, Total Organic	8.0	1.0	mg/L	02/22/05	SAJ	EPA 415.1/5310D
BOD, (5-Day)	1.7	1.0	mg/L	02/17/05	JLB	SDM 5210B
Coliform, Total	240	2	col/100mL	02/17/05	HLB	SM 9223B
Color (Apparent)	90	10	A.C.U.	02/18/05	GEH	USEPA-110.2
Turbidity	1.9	1.0	NTU	02/18/05	HLB	USEPA-180.1
SGT-HEM;Nonpolar Material	<10	10	mg/L	02/24/05	JMJ	USEPA-1664A
Aluminum, Total	81	50	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Iron, Total	620	20	ug/L	03/09/05	DWJ	EPA-200.7/6010B
Lithium, Total	<10	10	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Antimony, Total	<2.0	2.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Arsenic, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Beryllium, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Boron, Total	<50	50	ug/L	02/23/05	DSC	EPA-200.8/6020
Cadmium, Total	<0.2	0.2	ug/L	02/23/05	DSC	EPA-200.8/6020
Chromium, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Cobalt, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Lead, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/16/05 @ 14:00
Sampler: P. Sabee
Received: 02/17/05 @ 10:35

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **DUPS002 EAG- 1001356**
Sample #: **383528**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Manganese, Total	28	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	02/23/05	DSC	EPA-200.8/6020
Silver, Total	<0.2	0.2	ug/L	02/23/05	DSC	EPA-200.8/6020
Zinc, Total	<10	10	ug/L	02/23/05	DSC	EPA-200.8/6020
Calcium, Dissolved	7.9	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	1.8	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	1.0	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client:	**North Jackson Company**	Sampled:	02/16/05 @ 14:00
Project:	Eagle	Sampler:	P. Sabee
		Received:	02/17/05 @ 10:35
		Prepared:	n/a
Submittal #:	**36162-29**	Prep. Method:	n/a
Submittal:	02/2005 Full List SW	Analyzed:	02/22/05 by DLVV
		Anal. Method:	USEPA-8260B
Sample ID:	**DUPS002 EAG- 1001356**	QC Batch:	103963 -122
Sample #:	**383528**	Anal. Batch:	228904
Matrix:	Surface Water	Percent Solids:	n/a
Unit:	ug/L	Dilution Factor:	1

CAS Number	Volatile Organics USEPA Method 8260B	Analytical Result	Reporting Limit
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/21/05 @ 11:45
Sampler: P. Sabee
Received: 02/22/05 @ 08:50

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **STRMS001 EAG- 1001343**
Sample #: **383833**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	12	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	02/24/05	JLB	325.2/4500-CL E
Fluoride	<0.10	0.10	mg/L	02/24/05	SAJ	SM 4500 F-C
Nitrogen, Ammonia	<0.02	0.02	mg/L	02/24/05	GEH	350.1/4500 NH3G
Nitrogen, Nitrate	<0.05	0.05	mg/L	02/23/05	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	02/23/05	HLB	USEPA-353.2
Sulfate	7.1	1.0	mg/L	02/24/05	JLB	EPA-375.4/9038
Sulfide	<1.0	1.0	mg/L	02/26/05	HLB	376.1/4500 S2-F
Residue,Dissolved @ 180*C	<20	20	mg/L	02/24/05	GEH	160.1/SM 2540 C
Residue, Suspended	<3	3	mg/L	02/24/05	GEH	160.2/SM 2540 D
Alkalinity, Total	12	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Chemical Oxygen Demand	11	5.0	mg/L	02/25/05	JMJ	410.4/SM 5220 D
Carbon, Dissolved Organic	4.7	1.0	mg/L	02/23/05	SAJ	SDM 5310 D
Carbon, Total Organic	4.4	1.0	mg/L	02/24/05	SAJ	EPA 415.1/5310D
BOD, (5-Day)	<1.0	1.0	mg/L	02/23/05	JLB	SDM 5210B
Coliform, Total	220	2	col/100mL	02/22/05	HLB	SM 9223B
Color (Apparent)	40	5	A.C.U.	02/23/05	GEH	USEPA-110.2
Turbidity	<1.0	1.0	NTU	02/23/05	HLB	USEPA-180.1
SGT-HEM;Nonpolar Material	<10	10	mg/L	02/24/05	JMJ	USEPA-1664A
Aluminum, Total	<50	50	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Iron, Total	490	20	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Lithium, Total	<10	10	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Antimony, Total	<2.0	2.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Arsenic, Total	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Barium, Total	<10	10	ug/L	03/10/05	JMF	EPA-200.8/6020
Beryllium, Total	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Boron, Total	<50	50	ug/L	03/10/05	JMF	EPA-200.8/6020
Cadmium, Total	<0.2	0.2	ug/L	03/10/05	JMF	EPA-200.8/6020
Chromium, Total	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Cobalt, Total	<10	10	ug/L	03/10/05	JMF	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Lead, Total	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/21/05 @ 11:45
Sampler: P. Sabee
Received: 02/22/05 @ 08:50

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **STRMS001 EAG- 1001343**
Sample #: **383833**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Manganese, Total	20	10	ug/L	03/10/05	JMF	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	03/10/05	JMF	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Silver, Total	<0.2	0.2	ug/L	03/10/05	JMF	EPA-200.8/6020
Zinc, Total	<10	10	ug/L	03/10/05	JMF	EPA-200.8/6020
Calcium, Dissolved	4.8	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	0.56	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	1.2	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	0.85	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **STRMS001 EAG- 1001343**
Sample #: **383833**
Matrix: Surface Water
Unit: ug/L

Sampled: 02/21/05 @ 11:45
Sampler: P. Sabee
Received: 02/22/05 @ 08:50
Prepared: n/a
Prep. Method: n/a
Analyzed: 02/24/05 by LEW
Anal. Method: USEPA-8260B
QC Batch: 104203 -223
Anal. Batch: 228972
Percent Solids: n/a
Dilution Factor: 1

CAS Number	Volatile Organics USEPA Method 8260B	Analytical Result	Reporting Limit
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/21/05 @ 14:00
Sampler: P. Sabee
Received: 02/22/05 @ 08:50

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **STRES006 EAG- 1001361**
Sample #: **383834**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	63	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	02/24/05	JLB	325.2/4500-CL E
Fluoride	<0.10	0.10	mg/L	02/24/05	SAJ	SM 4500 F-C
Nitrogen, Ammonia	<0.02	0.02	mg/L	02/24/05	GEH	350.1/4500 NH3G
Nitrogen, Nitrate	0.20	0.05	mg/L	02/23/05	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	02/23/05	HLB	USEPA-353.2
Sulfate	3.6	1.0	mg/L	02/24/05	JLB	EPA-375.4/9038
Sulfide	<1.0	1.0	mg/L	02/26/05	HLB	376.1/4500 S2-F
Residue,Dissolved @ 180*C	60	20	mg/L	02/24/05	GEH	160.1/SM 2540 C
Residue, Suspended	<3	3	mg/L	02/24/05	GEH	160.2/SM 2540 D
Alkalinity, Total	63	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Chemical Oxygen Demand	<5.0	5.0	mg/L	02/25/05	JMJ	410.4/SM 5220 D
Carbon, Dissolved Organic	2.0	1.0	mg/L	02/23/05	SAJ	SDM 5310 D
Carbon, Total Organic	1.5	1.0	mg/L	02/24/05	SAJ	EPA 415.1/5310D
BOD, (5-Day)	<1.0	1.0	mg/L	02/23/05	JLB	SDM 5210B
Coliform, Total	80	2	col/100mL	02/22/05	HLB	SM 9223B
Color (Apparent)	10	5	A.C.U.	02/23/05	GEH	USEPA-110.2
Turbidity	<1.0	1.0	NTU	02/23/05	HLB	USEPA-180.1
SGT-HEM;Nonpolar Material	<10	10	mg/L	02/24/05	JMJ	USEPA-1664A
Aluminum, Total	78	50	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Iron, Total	26	20	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Lithium, Total	<10	10	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Antimony, Total	<2.0	2.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Arsenic, Total	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Barium, Total	<10	10	ug/L	03/10/05	JMF	EPA-200.8/6020
Beryllium, Total	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Boron, Total	<50	50	ug/L	03/10/05	JMF	EPA-200.8/6020
Cadmium, Total	<0.2	0.2	ug/L	03/10/05	JMF	EPA-200.8/6020
Chromium, Total	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Cobalt, Total	<10	10	ug/L	03/10/05	JMF	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Lead, Total	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/21/05 @ 14:00
Sampler: P. Sabee
Received: 02/22/05 @ 08:50

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **STRES006 EAG- 1001361**
Sample #: **383834**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Manganese, Total	<10	10	ug/L	03/10/05	JMF	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	03/10/05	JMF	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Silver, Total	<0.2	0.2	ug/L	03/10/05	JMF	EPA-200.8/6020
Zinc, Total	<10	10	ug/L	03/10/05	JMF	EPA-200.8/6020
Calcium, Dissolved	21	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	0.51	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	3.5	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	1.1	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **STRES006 EAG- 1001361**
Sample #: **383834**
Matrix: Surface Water
Unit: ug/L

Sampled: 02/21/05 @ 14:00
Sampler: P. Sabee
Received: 02/22/05 @ 08:50
Prepared: n/a
Prep. Method: n/a
Analyzed: 02/24/05 by LEW
Anal. Method: USEPA-8260B
QC Batch: 104203 -223
Anal. Batch: 228972
Percent Solids: n/a
Dilution Factor: 1

CAS Number	Volatile Organics USEPA Method 8260B	Analytical Result	Reporting Limit
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/21/05 @ 15:30
Sampler: P. Sabee
Received: 02/22/05 @ 08:50

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **STRES002 EAG- 1001350**
Sample #: **383835**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	62	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	02/24/05	JLB	325.2/4500-CL E
Fluoride	<0.10	0.10	mg/L	02/24/05	SAJ	SM 4500 F-C
Nitrogen, Ammonia	<0.02	0.02	mg/L	02/24/05	GEH	350.1/4500 NH3G
Nitrogen, Nitrate	0.10	0.05	mg/L	02/23/05	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	02/23/05	HLB	USEPA-353.2
Sulfate	4.0	1.0	mg/L	02/24/05	JLB	EPA-375.4/9038
Sulfide	<1.0	1.0	mg/L	02/26/05	HLB	376.1/4500 S2-F
Residue,Dissolved @ 180*C	46	20	mg/L	02/24/05	GEH	160.1/SM 2540 C
Residue, Suspended	5	3	mg/L	02/24/05	GEH	160.2/SM 2540 D
Alkalinity, Total	62	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Chemical Oxygen Demand	7.8	5.0	mg/L	02/25/05	JMJ	410.4/SM 5220 D
Carbon, Dissolved Organic	2.2	1.0	mg/L	02/23/05	SAJ	SDM 5310 D
Carbon, Total Organic	2.0	1.0	mg/L	02/24/05	SAJ	EPA 415.1/5310D
BOD, (5-Day)	<1.0	1.0	mg/L	02/23/05	JLB	SDM 5210B
Coliform, Total	80	2	col/100mL	02/22/05	HLB	SM 9223B
Color (Apparent)	10	5	A.C.U.	02/23/05	GEH	USEPA-110.2
Turbidity	2.8	1.0	NTU	02/23/05	HLB	USEPA-180.1
SGT-HEM;Nonpolar Material	<10	10	mg/L	02/24/05	JMJ	USEPA-1664A
Aluminum, Total	97	50	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Iron, Total	150	20	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Lithium, Total	<10	10	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Antimony, Total	<2.0	2.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Arsenic, Total	1.5	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Barium, Total	11	10	ug/L	03/10/05	JMF	EPA-200.8/6020
Beryllium, Total	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Boron, Total	<50	50	ug/L	03/10/05	JMF	EPA-200.8/6020
Cadmium, Total	<0.2	0.2	ug/L	03/10/05	JMF	EPA-200.8/6020
Chromium, Total	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Cobalt, Total	<10	10	ug/L	03/10/05	JMF	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Lead, Total	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/21/05 @ 15:30
Sampler: P. Sabee
Received: 02/22/05 @ 08:50

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **STRES002 EAG- 1001350**
Sample #: **383835**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Manganese, Total	14	10	ug/L	03/10/05	JMF	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	03/10/05	JMF	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Silver, Total	<0.2	0.2	ug/L	03/10/05	JMF	EPA-200.8/6020
Zinc, Total	<10	10	ug/L	03/10/05	JMF	EPA-200.8/6020
Calcium, Dissolved	19	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	0.63	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	3.9	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	1.3	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client:	**North Jackson Company**	Sampled:	02/21/05 @ 15:30
Project:	Eagle	Sampler:	P. Sabee
		Received:	02/22/05 @ 08:50
		Prepared:	n/a
Submittal #:	**36162-29**	Prep. Method:	n/a
Submittal:	02/2005 Full List SW	Analyzed:	02/24/05 by LEW
		Anal. Method:	USEPA-8260B
Sample ID:	**STRES002 EAG- 1001350**	QC Batch:	104203 -223
Sample #:	**383835**	Anal. Batch:	228972
Matrix:	Surface Water	Percent Solids:	n/a
Unit:	ug/L	Dilution Factor:	1

CAS Number	Volatile Organics USEPA Method 8260B	Analytical Result	Reporting Limit
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/21/05 @ 11:30
Sampler: P. Sabee
Received: 02/22/05 @ 08:50

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **FBKS001 EAG- 1001359**
Sample #: **383836**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	<2.0	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	02/24/05	JLB	325.2/4500-CL E
Fluoride	<0.10	0.10	mg/L	02/24/05	SAJ	SM 4500 F-C
Nitrogen, Ammonia	<0.02	0.02	mg/L	02/24/05	GEH	350.1/4500 NH3G
Nitrogen, Nitrate	<0.05	0.05	mg/L	02/23/05	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	02/23/05	HLB	USEPA-353.2
Sulfate	<1.0	1.0	mg/L	02/24/05	JLB	EPA-375.4/9038
Sulfide	<1.0	1.0	mg/L	02/26/05	HLB	376.1/4500 S2-F
Residue,Dissolved @ 180*C	<20	20	mg/L	02/24/05	GEH	160.1/SM 2540 C
Residue, Suspended	<3	3	mg/L	02/24/05	GEH	160.2/SM 2540 D
Alkalinity, Total	<2.0	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Chemical Oxygen Demand	<5.0	5.0	mg/L	02/25/05	JMJ	410.4/SM 5220 D
Carbon, Dissolved Organic	<1.0	1.0	mg/L	02/23/05	SAJ	SDM 5310 D
Carbon, Total Organic	<1.0	1.0	mg/L	02/24/05	SAJ	EPA 415.1/5310D
BOD, (5-Day)	<1.0	1.0	mg/L	02/23/05	JLB	SDM 5210B
Coliform, Total	<2	2	col/100mL	02/22/05	HLB	SM 9223B
Color (Apparent)	<5	5	A.C.U.	02/23/05	GEH	USEPA-110.2
Turbidity	<1.0	1.0	NTU	02/23/05	HLB	USEPA-180.1
SGT-HEM;Nonpolar Material	<10	10	mg/L	02/24/05	JMJ	USEPA-1664A
Aluminum, Total	<50	50	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Iron, Total	<20	20	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Lithium, Total	<10	10	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Antimony, Total	<2.0	2.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Arsenic, Total	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Barium, Total	<10	10	ug/L	03/10/05	JMF	EPA-200.8/6020
Beryllium, Total	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Boron, Total	<50	50	ug/L	03/10/05	JMF	EPA-200.8/6020
Cadmium, Total	<0.2	0.2	ug/L	03/10/05	JMF	EPA-200.8/6020
Chromium, Total	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Cobalt, Total	<10	10	ug/L	03/10/05	JMF	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Lead, Total	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/21/05 @ 11:30
Sampler: P. Sabee
Received: 02/22/05 @ 08:50

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **FBKS001 EAG- 1001359**
Sample #: **383836**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Manganese, Total	<10	10	ug/L	03/10/05	JMF	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	03/10/05	JMF	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Silver, Total	<0.2	0.2	ug/L	03/10/05	JMF	EPA-200.8/6020
Zinc, Total	<10	10	ug/L	03/10/05	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client:	**North Jackson Company**	Sampled:	02/21/05 @ 11:30
Project:	Eagle	Sampler:	P. Sabee
		Received:	02/22/05 @ 08:50
		Prepared:	n/a
Submittal #:	**36162-29**	Prep. Method:	n/a
Submittal:	02/2005 Full List SW	Analyzed:	02/24/05 by LEW
		Anal. Method:	USEPA-8260B
Sample ID:	**FBKS001 EAG- 1001359**	QC Batch:	104203 -223
Sample #:	**383836**	Anal. Batch:	228972
Matrix:	QC Water	Percent Solids:	n/a
Unit:	ug/L	Dilution Factor:	1

CAS Number	Volatile Organics USEPA Method 8260B	Analytical Result	Reporting Limit
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/21/05 @ 11:50
Sampler: P. Sabee
Received: 02/22/05 @ 08:50

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **FBKS002 EAG- 1001360**
Sample #: **383837**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	<2.0	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	02/24/05	JLB	325.2/4500-CL E
Fluoride	<0.10	0.10	mg/L	02/24/05	SAJ	SM 4500 F-C
Nitrogen, Ammonia	<0.02	0.02	mg/L	02/24/05	GEH	350.1/4500 NH3G
Nitrogen, Nitrate	<0.05	0.05	mg/L	02/23/05	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	02/23/05	HLB	USEPA-353.2
Sulfate	<1.0	1.0	mg/L	02/24/05	JLB	EPA-375.4/9038
Sulfide	<1.0	1.0	mg/L	02/26/05	HLB	376.1/4500 S2-F
Residue,Dissolved @ 180*C	<20	20	mg/L	02/24/05	GEH	160.1/SM 2540 C
Residue, Suspended	<3	3	mg/L	02/24/05	GEH	160.2/SM 2540 D
Alkalinity, Total	<2.0	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Chemical Oxygen Demand	<5.0	5.0	mg/L	02/25/05	JMJ	410.4/SM 5220 D
Carbon, Dissolved Organic	<1.0	1.0	mg/L	02/23/05	SAJ	SDM 5310 D
Carbon, Total Organic	<1.0	1.0	mg/L	02/24/05	SAJ	EPA 415.1/5310D
BOD, (5-Day)	<1.0	1.0	mg/L	02/23/05	JLB	SDM 5210B
Coliform, Total	<2	2	col/100mL	02/22/05	HLB	SM 9223B
Color (Apparent)	<5	5	A.C.U.	02/23/05	GEH	USEPA-110.2
Turbidity	<1.0	1.0	NTU	02/23/05	HLB	USEPA-180.1
SGT-HEM;Nonpolar Material	<10	10	mg/L	02/24/05	JMJ	USEPA-1664A
Aluminum, Total	<50	50	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Iron, Total	<20	20	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Lithium, Total	<10	10	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Antimony, Total	<2.0	2.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Arsenic, Total	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Barium, Total	<10	10	ug/L	03/10/05	JMF	EPA-200.8/6020
Beryllium, Total	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Boron, Total	<50	50	ug/L	03/10/05	JMF	EPA-200.8/6020
Cadmium, Total	<0.2	0.2	ug/L	03/10/05	JMF	EPA-200.8/6020
Chromium, Total	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Cobalt, Total	<10	10	ug/L	03/10/05	JMF	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Lead, Total	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/21/05 @ 11:50
Sampler: P. Sabee
Received: 02/22/05 @ 08:50

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **FBKS002 EAG- 1001360**
Sample #: **383837**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Manganese, Total	<10	10	ug/L	03/10/05	JMF	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	03/10/05	JMF	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Silver, Total	<0.2	0.2	ug/L	03/10/05	JMF	EPA-200.8/6020
Zinc, Total	<10	10	ug/L	03/10/05	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **FBKS002 EAG- 1001360**
Sample #: **383837**
Matrix: QC Water
Unit: ug/L

Sampled: 02/21/05 @ 11:50
Sampler: P. Sabee
Received: 02/22/05 @ 08:50
Prepared: n/a
Prep. Method: n/a
Analyzed: 02/24/05 by LEW
Anal. Method: USEPA-8260B
QC Batch: 104203 -223
Anal. Batch: 228972
Percent Solids: n/a
Dilution Factor: 1

CAS Number	Volatile Organics USEPA Method 8260B	Analytical Result	Reporting Limit
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/21/05 @ 11:40
Sampler: P. Sabee
Received: 02/22/05 @ 08:50

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **EQBS001 EAG- 1001357**
Sample #: **383838**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Calcium, Dissolved	<0.50	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/21/05 @ 12:00
Sampler: P. Sabee
Received: 02/22/05 @ 08:50

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **EQBS002 EAG- 1001358**
Sample #: **383839**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Calcium, Dissolved	<0.50	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/24/05 @ 09:10
Sampler: P. Kero
Received: 02/25/05 @ 09:10

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **STRMS005 EAG- 1001347**
Sample #: **384114**
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	59	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
	Chloride	1.9	1.0	mg/L	02/28/05	JLB	325.2/4500-CL E
	Fluoride	<0.10	0.10	mg/L	03/03/05	SAJ	SM 4500 F-C
	Nitrogen, Ammonia	0.02	0.02	mg/L	03/02/05	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	0.21	0.05	mg/L	02/25/05	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	02/25/05	HLB	USEPA-353.2
	Sulfate	5.6	1.0	mg/L	02/28/05	JLB	EPA-375.4/9038
	Sulfide	<1.0	1.0	mg/L	02/26/05	HLB	376.1/4500 S2-F
	Residue,Dissolved @ 180*C	70	20	mg/L	03/01/05	GEH	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	03/01/05	GEH	160.2/SM 2540 D
	Alkalinity, Total	59	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
	Chemical Oxygen Demand	9.2	5.0	mg/L	03/01/05	JMJ	410.4/SM 5220 D
	Carbon, Dissolved Organic	2.8	1.0	mg/L	03/07/05	SAJ	SDM 5310 D
	Carbon, Total Organic	2.5	1.0	mg/L	02/28/05	SAJ	EPA 415.1/5310D
	BOD, (5-Day)	1.5	1.0	mg/L	02/25/05	JLB	SDM 5210B
*	Coliform, Total	30	2	col/100mL	02/25/05	HLB	SM 9223B
	Color (Apparent)	15	5	A.C.U.	02/25/05	GEH	USEPA-110.2
	Turbidity	1.9	1.0	NTU	02/25/05	HLB	USEPA-180.1
	SGT-HEM;Nonpolar Material	<10	10	mg/L	03/04/05	JMJ	USEPA-1664A
	Aluminum, Total	130	50	ug/L	03/03/05	DWJ	EPA-200.7/6010B
	Iron, Total	160	20	ug/L	03/03/05	DWJ	EPA-200.7/6010B
	Lithium, Total	<10	10	ug/L	03/03/05	DWJ	EPA-200.7/6010B
	Antimony, Total	<2.0	2.0	ug/L	03/04/05	JMF	EPA-200.8/6020
	Arsenic, Total	<1.0	1.0	ug/L	03/04/05	JMF	EPA-200.8/6020
*	Barium, Total	14	10	ug/L	03/04/05	JMF	EPA-200.8/6020
	Beryllium, Total	<1.0	1.0	ug/L	03/04/05	JMF	EPA-200.8/6020
	Boron, Total	<50	50	ug/L	03/04/05	JMF	EPA-200.8/6020
	Cadmium, Total	<0.2	0.2	ug/L	03/04/05	JMF	EPA-200.8/6020
	Chromium, Total	<1.0	1.0	ug/L	03/04/05	JMF	EPA-200.8/6020
	Cobalt, Total	<10	10	ug/L	03/04/05	JMF	EPA-200.8/6020
*	Copper, Total	<1.0	1.0	ug/L	03/04/05	JMF	EPA-200.8/6020
	Lead, Total	<1.0	1.0	ug/L	03/04/05	JMF	EPA-200.8/6020

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/24/05 @ 09:10
Sampler: P. Kero
Received: 02/25/05 @ 09:10

Submittal #: **36162-29**
Submittal: 02/2005 Full List SW

Sample ID: **STRMS005 EAG- 1001347**
Sample #: **384114**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Manganese, Total	12	10	ug/L	03/04/05	JMF	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	03/04/05	JMF	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	03/04/05	JMF	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	03/04/05	JMF	EPA-200.8/6020
Silver, Total	<0.2	0.2	ug/L	03/04/05	JMF	EPA-200.8/6020
Zinc, Total	13	10	ug/L	03/04/05	JMF	EPA-200.8/6020
Calcium, Dissolved	19	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	0.65	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	3.8	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	1.3	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client:	**North Jackson Company**	Sampled:	02/24/05 @ 09:10
Project:	Eagle	Sampler:	P. Kero
		Received:	02/25/05 @ 09:10
Submittal #:	**36162-29**	Prepared:	n/a
Submittal:	02/2005 Full List SW	Prep. Method:	n/a
		Analyzed:	03/01/05 by DLVV
Sample ID:	**STRMS005 EAG- 1001347**	Anal. Method:	USEPA-8260B
Sample #:	**384114**	QC Batch:	104321 -201
Matrix:	Surface Water	Anal. Batch:	229156
Unit:	ug/L	Percent Solids:	n/a
		Dilution Factor:	1

CAS Number	Volatile Organics USEPA Method 8260B	Analytical Result	Reporting Limit
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

End of Analytical Report

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Bicarbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/21/05	228836	INR	<2.0
02/28/05	229028	INR	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/21/05	228836	INR	238	230	97	89-111
02/28/05	229028	INR	238	239	100	89-111

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Carbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/21/05	228836	INR	<2.0
02/28/05	229028	INR	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/21/05	228836	INR	377	353	94	77-110
02/28/05	229028	INR	377	328	87	77-110

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Total**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/21/05	228836	INR	<2.0
02/28/05	229028	INR	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/21/05	228836	INR	238	230	97	89-111
02/28/05	229028	INR	238	239	100	89-111

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QUALITY CONTROL REPORT

Parameter: **Aluminum, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/03/05	229162	DWJ	<50
03/10/05	229436	DWJ	<50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/03/05	229162	DWJ	2500	2513	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/03/05	104329	DWJ	<50
03/03/05	104329	DWJ	<50
03/03/05	104330	DWJ	<50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/03/05	104329	DWJ	1250	1266	101	86-120
03/03/05	104329	DWJ	1250	1287	103	86-120
03/03/05	104330	DWJ	1250	1269	102	86-120

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QUALITY CONTROL REPORT

Parameter: **Antimony, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/23/05	228885	DSC	<2.0
03/04/05	229215	JMF	<2.0
03/10/05	229463	JMF	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/23/05	228885	DSC	40	41.6	104	90-110
03/04/05	229215	JMF	40	36.0	90	90-110
03/10/05	229463	JMF	40	37.6	94	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
02/23/05	104145	DSC	<2.0
03/04/05	104360	JMF	<2.0
03/10/05	104145	JMF	<2.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/23/05	104145	DSC	100	107.6	108	85-127
03/04/05	104360	JMF	100	93.6	94	85-127
03/10/05	104145	JMF	100	104.3	104	85-127

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/03/05	229162	DWJ	<200

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/23/05	228885	DSC	<1.0
03/04/05	229215	JMF	<1.0
03/10/05	229463	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/23/05	228885	DSC	40	41.3	103	90-110
03/04/05	229215	JMF	40	40.0	100	90-110
03/10/05	229463	JMF	40	39.3	98	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
02/23/05	104145	DSC	<1.0
03/04/05	104360	JMF	<1.0
03/10/05	104145	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/23/05	104145	DSC	100	101.2	101	85-115
03/04/05	104360	JMF	100	90.6	91	85-115
03/10/05	104145	JMF	100	93.1	93	85-115

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/03/05	229162	DWJ	<10

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/23/05	228885	DSC	<10
03/04/05	229215	JMF	<10
03/10/05	229463	JMF	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/23/05	228885	DSC	40	40.2	101	90-110
03/04/05	229215	JMF	40	40.9	102	90-110
03/10/05	229463	JMF	40	40.9	102	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
02/23/05	104145	DSC	<10
03/04/05	104360	JMF	<10
03/10/05	104145	JMF	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/23/05	104145	DSC	100	106.2	106	86-119
03/04/05	104360	JMF	100	103.5	104	86-119
03/10/05	104145	JMF	100	108.1	108	86-119

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QUALITY CONTROL REPORT

Parameter: **Beryllium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/23/05	228885	DSC	<1.0
03/04/05	229215	JMF	<1.0
03/10/05	229463	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/23/05	228885	DSC	40	43.0	108	90-110
03/04/05	229215	JMF	40	42.0	105	90-110
03/10/05	229463	JMF	40	41.0	103	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
02/23/05	104145	DSC	<1.0
03/04/05	104360	JMF	<1.0
03/10/05	104145	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/23/05	104145	DSC	100	102.3	102	81-116
03/04/05	104360	JMF	100	87.5	88	81-116
03/10/05	104145	JMF	100	97.3	97	81-116

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QUALITY CONTROL REPORT

Parameter: **BOD, (5-Day)**
Method: Biochemical Oxygen Demand SDM 5210B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/17/05	228822	JLB	<1.0
02/23/05	229035	JLB	<1.0
02/25/05	229094	JLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/17/05	228822	JLB	198	209	106	85-115
02/23/05	229035	JLB	198	206	104	85-115
02/25/05	229094	JLB	198	195	98	85-115

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QUALITY CONTROL REPORT

Parameter: **Boron, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/03/05	229162	DWJ	<100
03/10/05	229436	DWJ	<100

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QUALITY CONTROL REPORT

Parameter: **Boron, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/23/05	228885	DSC	<50
03/04/05	229215	JMF	<10
03/10/05	229463	JMF	<50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/23/05	228885	DSC	40	42.4	106	90-110
03/04/05	229215	JMF	40	41.2	103	90-110
03/10/05	229463	JMF	40	42.9	107	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
02/23/05	104145	DSC	<50
03/04/05	104360	JMF	<50
03/10/05	104145	JMF	<50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/23/05	104145	DSC	100	100.9	101	78-124
03/04/05	104360	JMF	100	96.2	96	78-124
03/10/05	104145	JMF	100	98.5	99	78-124

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QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/03/05	229162	DWJ	<10

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Individual sample results relate only to the sample tested.

QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/23/05	228885	DSC	<0.2
03/04/05	229215	JMF	<0.2
03/10/05	229463	JMF	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/23/05	228885	DSC	40	41.9	105	90-110
03/04/05	229215	JMF	40	40.0	100	90-110
03/10/05	229463	JMF	40	39.6	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
02/23/05	104145	DSC	<0.2
03/04/05	104360	JMF	<0.2
03/10/05	104145	JMF	<0.2

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/23/05	104145	DSC	100	100.7	101	83-112
03/04/05	104360	JMF	100	93.9	94	83-112
03/10/05	104145	JMF	100	97.5	98	83-112

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QUALITY CONTROL REPORT

Parameter: **Carbon, Total Organic**
Method: Organic Carbon, Total EPA 415.1/5310D WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/22/05	228848	SAJ	<1.0
02/23/05	228920	SAJ	<1.0
02/24/05	228937	SAJ	<1.0
02/28/05	229053	SAJ	<1.0
03/07/05	229306	SAJ	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/22/05	228848	SAJ	25	24	96	87-110
02/23/05	228920	SAJ	25	25	100	87-110
02/24/05	228937	SAJ	25	24	96	87-110
02/28/05	229053	SAJ	25	24	96	87-110
03/07/05	229306	SAJ	25	24	96	87-110

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QUALITY CONTROL REPORT

Parameter: **Chemical Oxygen Demand**
Method: Closed Reflux, Colorimetric Method 410.4/SM 5220 D WATER
Units: mg/L

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
02/25/05	104214	JMJ	<5.0
03/01/05	104307	JMJ	<5.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/25/05	104214	JMJ	30	28	93	90-110
03/01/05	104307	JMJ	30	28	93	90-110

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QUALITY CONTROL REPORT

Parameter: **Chloride**
Method: Colorimetric, Automated Ferricyanide 325.2/4500-CL E WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/21/05	228789	JLB	<1.0
02/24/05	228914	JLB	<1.0
02/28/05	229026	JLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/21/05	228789	JLB	78.1	78.7	101	92-109
02/24/05	228914	JLB	78.1	78.9	101	92-109
02/28/05	229026	JLB	78.1	79.9	102	92-109

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QUALITY CONTROL REPORT

Parameter: **Chromium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/03/05	229162	DWJ	<50

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QUALITY CONTROL REPORT

Parameter: **Chromium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/23/05	228885	DSC	<1.0
03/04/05	229215	JMF	<1.0
03/10/05	229463	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/23/05	228885	DSC	40	42.3	106	90-110
03/04/05	229215	JMF	40	40.9	102	90-110
03/10/05	229463	JMF	40	41.4	104	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
02/23/05	104145	DSC	<1.0
03/04/05	104360	JMF	<1.0
03/10/05	104145	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/23/05	104145	DSC	100	110.7	111	84-122
03/04/05	104360	JMF	100	103.2	103	84-122
03/10/05	104145	JMF	100	109.9	110	84-122

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QUALITY CONTROL REPORT

Parameter: **Cobalt, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/03/05	229162	DWJ	<10
03/10/05	229436	DWJ	<10

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QUALITY CONTROL REPORT

Parameter: **Cobalt, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/23/05	228885	DSC	<10
03/04/05	229215	JMF	<10
03/10/05	229463	JMF	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/23/05	228885	DSC	40	42.9	107	90-110
03/04/05	229215	JMF	40	39.9	100	90-110
03/10/05	229463	JMF	40	40.5	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
02/23/05	104145	DSC	<10
03/04/05	104360	JMF	<10
03/10/05	104145	JMF	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/23/05	104145	DSC	100	111.0	111	80-125
03/04/05	104360	JMF	100	103.7	104	80-125
03/10/05	104145	JMF	100	108.3	108	80-125

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QUALITY CONTROL REPORT

Parameter: **Color (Apparent)**
Method: Colorimetric, Platinum-Cobalt USEPA-110.2 WATER
Units: A.C.U.

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/16/05	228666	GEH	<5
02/18/05	228713	GEH	<5
02/23/05	228879	GEH	<5
02/25/05	229099	GEH	<5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/16/05	228666	GEH	50	50	100	80-120
02/18/05	228713	GEH	50	50	100	80-120
02/23/05	228879	GEH	25	25	100	80-120
02/25/05	229099	GEH	25	25	100	80-120

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/03/05	229162	DWJ	<10

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/23/05	228885	DSC	<1.0
03/04/05	229215	JMF	<1.0
03/10/05	229463	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/23/05	228885	DSC	40	42.2	106	90-110
03/04/05	229215	JMF	40	41.5	104	90-110
03/10/05	229463	JMF	40	41.3	103	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
02/23/05	104145	DSC	<1.0
03/04/05	104360	JMF	<1.0
03/10/05	104145	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/23/05	104145	DSC	100	106.5	107	86-123
03/04/05	104360	JMF	100	107.0	107	86-123
03/10/05	104145	JMF	100	109.4	109	86-123

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QUALITY CONTROL REPORT

Parameter: **Fluoride**
Method: Potentiometric, Ion Selective Electrode SM 4500 F-C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/24/05	228956	SAJ	<0.10
03/03/05	229181	SAJ	<0.10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/24/05	228956	SAJ	0.343	0.363	106	88-116
03/03/05	229181	SAJ	0.343	0.339	99	88-116

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QUALITY CONTROL REPORT

Parameter: **Iron, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/03/05	229162	DWJ	<20
03/09/05	229407	DWJ	<20
03/10/05	229436	DWJ	<20

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/03/05	229162	DWJ	500	525	105	90-110
03/09/05	229407	DWJ	500	483	97	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/03/05	104329	DWJ	<20
03/03/05	104330	DWJ	<20
03/09/05	104329	DWJ	**20.4**

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/03/05	104329	DWJ	250	270	108	83-118
03/03/05	104330	DWJ	250	252	101	83-118
03/09/05	104329	DWJ	250	254	102	83-118

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QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/03/05	229162	DWJ	<50

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QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/23/05	228885	DSC	<1.0
03/04/05	229215	JMF	<1.0
03/10/05	229463	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/23/05	228885	DSC	40	40.8	102	90-110
03/04/05	229215	JMF	40	39.5	99	90-110
03/10/05	229463	JMF	40	38.9	97	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
02/23/05	104145	DSC	<1.0
03/04/05	104360	JMF	<1.0
03/10/05	104145	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/23/05	104145	DSC	100	113.6	114	87-118
03/04/05	104360	JMF	100	100.7	101	87-118
03/10/05	104145	JMF	100	102.9	103	87-118

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QUALITY CONTROL REPORT

Parameter: **Lithium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/03/05	229162	DWJ	<10
03/10/05	229436	DWJ	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/03/05	229162	DWJ	500	522	104	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/03/05	104329	DWJ	<10
03/03/05	104329	DWJ	<10
03/03/05	104330	DWJ	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/03/05	104329	DWJ	250	257	103	86-115
03/03/05	104329	DWJ	250	251	100	86-115
03/03/05	104330	DWJ	250	253	101	86-115

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QUALITY CONTROL REPORT

Parameter: **Magnesium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/03/05	229162	DWJ	<0.50
03/10/05	229436	DWJ	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/10/05	229436	DWJ	5.0	4.91	98	90-110

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/03/05	229162	DWJ	<10

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/23/05	228885	DSC	<5.0
03/04/05	229215	JMF	<10
03/10/05	229463	JMF	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/23/05	228885	DSC	40	42.2	106	90-110
03/04/05	229215	JMF	40	39.2	98	90-110
03/10/05	229463	JMF	40	40.5	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
02/23/05	104145	DSC	<10
03/04/05	104360	JMF	<10
03/10/05	104145	JMF	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/23/05	104145	DSC	100	106.3	106	86-124
03/04/05	104360	JMF	100	99.5	100	86-124
03/10/05	104145	JMF	100	106.6	107	86-124

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QUALITY CONTROL REPORT

Parameter: **Molybdenum, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/23/05	228885	DSC	<10
03/04/05	229215	JMF	<10
03/10/05	229463	JMF	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/23/05	228885	DSC	40	42.0	105	90-110
03/04/05	229215	JMF	40	37.3	93	90-110
03/10/05	229463	JMF	40	37.8	95	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
02/23/05	104145	DSC	<10
03/04/05	104360	JMF	<10
03/10/05	104145	JMF	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/23/05	104145	DSC	100	105.5	106	88-114
03/04/05	104360	JMF	100	97.2	97	88-114
03/10/05	104145	JMF	100	106.1	106	88-114

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/23/05	228885	DSC	<1.0
03/04/05	229215	JMF	<1.0
03/10/05	229463	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/23/05	228885	DSC	40	41.6	104	90-110
03/04/05	229215	JMF	40	40.6	102	90-110
03/10/05	229463	JMF	40	40.9	102	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
02/23/05	104145	DSC	<1.0
03/04/05	104360	JMF	<1.0
03/10/05	104145	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/23/05	104145	DSC	100	105.4	105	84-117
03/04/05	104360	JMF	100	102.9	103	84-117
03/10/05	104145	JMF	100	106.3	106	84-117

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Ammonia**
Method: Colorimetric, Automated Phenate 350.1/4500 NH3G WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/18/05	228727	GEH	<0.02
02/24/05	228964	GEH	<0.01
03/02/05	229135	GEH	<0.01

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/18/05	228727	GEH	0.765	0.69	90	90-110
02/24/05	228964	GEH	0.765	0.714	93	90-110
03/02/05	229135	GEH	0.765	0.716	94	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrate**
Method: Colorimetric, Auto-Cadmium Reduction 353.2/4500 NO3F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/16/05	228675	HLB	<0.05
02/18/05	228807	HLB	<0.05
02/23/05	228986	HLB	<0.05
02/25/05	228981	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/16/05	228675	HLB	0.624	0.647	104	90-110
02/18/05	228807	HLB	0.624	0.664	106	90-110
02/23/05	228986	HLB	0.624	0.651	104	90-110
02/25/05	228981	HLB	0.624	0.652	104	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrite**
Method: Colorimetric, Automated USEPA-353.2 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/16/05	228676	HLB	<0.05
02/18/05	228808	HLB	<0.05
02/23/05	228987	HLB	<0.05
02/25/05	228983	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/16/05	228676	HLB	0.50	0.50	100	90-110
02/18/05	228808	HLB	0.50	0.50	100	90-110
02/23/05	228987	HLB	0.50	0.49	98	90-110
02/25/05	228983	HLB	0.50	0.50	100	90-110

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QUALITY CONTROL REPORT

Parameter: **Potassium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/03/05	229162	DWJ	<0.50
03/10/05	229436	DWJ	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/10/05	229436	DWJ	5.0	4.97	99	90-110

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QUALITY CONTROL REPORT

Parameter: **Residue,Dissolved @ 180*C**
Method: Residue-Gravimetric, Dried @ 180*C 160.1/SM 2540 C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/17/05	228794	GEH	<2.5
02/24/05	228959	GEH	<2.5
03/01/05	229121	GEH	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/17/05	228794	GEH	1000	984	98	90-108
02/24/05	228959	GEH	1000	911	91	90-108
02/24/05	228959	GEH	1000	986	99	90-108
03/01/05	229121	GEH	1000	1010	101	90-108

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QUALITY CONTROL REPORT

Parameter: **Residue, Suspended**
Method: Residue-Gravimetric, Dried @ 103-105*C 160.2/SM 2540 D WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/17/05	228718	GEH	<2.5
02/24/05	228958	GEH	<2.5
03/01/05	229111	GEH	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/17/05	228718	GEH	1000.0	962	96	89-106
02/17/05	228718	GEH	1000	977	98	89-106
02/24/05	228958	GEH	1000	955	96	89-106
03/01/05	229111	GEH	1000.0	964	96	89-106

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QUALITY CONTROL REPORT

Parameter: **Selenium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/03/05	229162	DWJ	<200

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QUALITY CONTROL REPORT

Parameter: **Selenium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/23/05	228885	DSC	<2.0
03/04/05	229215	JMF	<2.0
03/10/05	229463	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/23/05	228885	DSC	40	41.9	105	90-110
03/04/05	229215	JMF	40	39.9	100	90-110
03/10/05	229463	JMF	40	38.0	95	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
02/23/05	104145	DSC	<2.0
03/04/05	104360	JMF	<2.0
03/10/05	104145	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/23/05	104145	DSC	100	93.4	93	79-120
03/04/05	104360	JMF	100	79.9	80	79-120
03/10/05	104145	JMF	100	87.6	88	79-120

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QUALITY CONTROL REPORT

Parameter: **SGT-HEM;Nonpolar Material**
Method: Hexane Extractable Material-SGT USEPA-1664A WATER
Units: mg/L

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
02/24/05	104192	JMJ	<10
03/04/05	104192	JMJ	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/24/05	104192	JMJ	20	16.8	84	64-132
03/04/05	104192	JMJ	20	15.9	80	64-132

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QUALITY CONTROL REPORT

Parameter: **Silver, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/03/05	229162	DWJ	<10

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QUALITY CONTROL REPORT

Parameter: **Silver, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/23/05	228885	DSC	<0.2
03/04/05	229215	JMF	<0.2
03/10/05	229463	JMF	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/23/05	228885	DSC	40	42.3	106	90-110
03/04/05	229215	JMF	40	40.9	102	90-110
03/10/05	229463	JMF	40	40.5	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
02/23/05	104145	DSC	<0.2
03/04/05	104360	JMF	<0.2
03/10/05	104145	JMF	<0.2

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/23/05	104145	DSC	100	108.8	109	86-114
03/04/05	104360	JMF	100	105.8	106	86-114
03/10/05	104145	JMF	100	103.0	103	86-114

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QUALITY CONTROL REPORT

Parameter: **Sodium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/03/05	229162	DWJ	<0.50
03/09/05	229407	DWJ	<0.50
03/10/05	229436	DWJ	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/10/05	229436	DWJ	5.0	4.97	99	90-110

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QUALITY CONTROL REPORT

Parameter: **Sulfate**
Method: Turbidimetric Method (Manual) EPA-375.4/9038 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/22/05	228834	JLB	<2.0
02/24/05	228919	JLB	<2.0
02/28/05	229042	JLB	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/22/05	228834	JLB	7.9	7.8	99	85-113
02/24/05	228919	JLB	7.9	7.9	100	85-113
02/28/05	229042	JLB	7.9	8.00	101	85-113

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QUALITY CONTROL REPORT

Parameter: **Sulfide**
Method: Titrimetric, Iodine 376.1/4500 S2-F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/19/05	228847	HLB	<1.0
02/26/05	228973	HLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/19/05	228847	HLB	11.6	11.6	100	97-103
02/26/05	228973	HLB	11.4	11.6	102	97-103

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QUALITY CONTROL REPORT

Parameter: **Turbidity**
Method: Nephelometric USEPA-180.1 WATER
Units: NTU

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/16/05	228714	HLB	<1.0
02/18/05	228817	HLB	<1.0
02/23/05	228955	HLB	<1.0
02/25/05	229022	HLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/16/05	228714	HLB	402	382	95	90-110
02/18/05	228817	HLB	402	391	97	90-110
02/23/05	228955	HLB	402	392	98	90-110
02/25/05	229022	HLB	402	388	97	90-110

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QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/03/05	229162	DWJ	<20

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QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/23/05	228885	DSC	<10
03/04/05	229215	JMF	<10
03/10/05	229463	JMF	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/23/05	228885	DSC	40	41.4	104	90-110
03/04/05	229215	JMF	40	40.1	100	90-110
03/10/05	229463	JMF	40	38.0	95	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
02/23/05	104145	DSC	<10
03/04/05	104360	JMF	<10
03/10/05	104145	JMF	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/23/05	104145	DSC	100	93.4	93	80-137
03/04/05	104360	JMF	100	94.9	95	80-137
03/10/05	104145	JMF	100	94.2	94	80-137

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QUALITY CONTROL REPORT

METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
Method: Volatiles Purge & Trap-GC/MS
Analyst: Diane L. VanMale Test Date: 02/21/05
Units: ug/L
QC Batch: 103963-121

Parameter	Blank Concentration	Quantitation Limit
Benzene	<1.00	1.0
Ethylbenzene	<1.00	1.0
Toluene	<1.00	1.0
Xylene (Total)	<3.00	3.0

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QUALITY CONTROL REPORT

METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
Method: Volatiles Purge & Trap-GC/MS
Analyst: Laurel E. Wood Test Date: 02/23/05
Units: ug/L
QC Batch: 104203-223

Parameter	Blank Concentration	Quantitation Limit
Benzene	<1.00	1.0
Ethylbenzene	<1.00	1.0
Toluene	<1.00	1.0
Xylene (Total)	<3.00	3.0

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QUALITY CONTROL REPORT

METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
Method: Volatiles Purge & Trap-GC/MS
Analyst: Diane L. VanMale Test Date: 03/01/05
Units: ug/L
QC Batch: 104321-201

Parameter	Blank Concentration	Quantitation Limit
Benzene	<1.00	1.0
Ethylbenzene	<1.00	1.0
Toluene	<1.00	1.0
Xylene (Total)	<3.00	3.0

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QUALITY CONTROL REPORT

LABORATORY FORTIFIED BLANK

Fraction: Quality Control Fraction
Method: Volatiles Purge & Trap-GC/MS
Analyst: Diane L. VanMale Test Date: 02/21/05
Units: ug/L
QC Batch: 103963-121

Parameter	Spike Quantity	Spike Result	Spike % Rec	Control Limits
Benzene	40.0	39.8	100	79 - 120
Ethylbenzene	40.0	42.2	106	77 - 125
Toluene	40.0	40.7	102	79 - 126
Xylene (Total)	120	130	108	80 - 119

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QUALITY CONTROL REPORT

LABORATORY FORTIFIED BLANK

Fraction: Quality Control Fraction
Method: Volatiles Purge & Trap-GC/MS
Analyst: Laurel E. Wood Test Date: 02/23/05
Units: ug/L
QC Batch: 104203-223

Parameter	Spike Quantity	Spike Result	Spike % Rec	Control Limits
Benzene	40.0	39.4	99	79 - 120
Ethylbenzene	40.0	41.8	105	77 - 125
Toluene	40.0	41.8	105	79 - 126
Xylene (Total)	120	122	102	80 - 119

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QUALITY CONTROL REPORT

LABORATORY FORTIFIED BLANK

Fraction: Quality Control Fraction
Method: Volatiles Purge & Trap-GC/MS
Analyst: Diane L. VanMale Test Date: 03/01/05
Units: ug/L
QC Batch: 104321-201

Parameter	Spike Quantity	Spike Result	Spike % Rec	Control Limits
Benzene	40.0	40.6	102	79 - 120
Ethylbenzene	40.0	39.6	99	77 - 125
Toluene	40.0	40.5	101	79 - 126
Xylene (Total)	120	118	98	80 - 119

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QUALITY CONTROL REPORT

METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
Method: Volatiles Purge & Trap-GC/MS
Analyst: Diane L. VanMale Test Date: 02/22/05
Units: ug/L
QC Batch: 103963-122

Parameter	Blank Concentration	Quantitation Limit
Benzene	<1.00	1.0
Toluene	<1.00	1.0
Ethylbenzene	<1.00	1.0
Xylene (Total)	<3.00	3.0

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QUALITY CONTROL REPORT

METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
Method: Volatiles Purge & Trap-GC/MS
Analyst: Diane L. VanMale Test Date: 03/01/05
Units: ug/L
QC Batch: 104321-201

Parameter	Blank Concentration	Quantitation Limit

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QUALITY CONTROL REPORT

LABORATORY FORTIFIED BLANK

Fraction: Quality Control Fraction
Method: Volatiles Purge & Trap-GC/MS
Analyst: Diane L. VanMale Test Date: 03/01/05
Units: ug/L
QC Batch: 104321-201

Parameter	Spike Quantity	Spike Result	Spike % Rec	Control Limits
Chlorobenzene	40.0	38.5	96	79 - 122
1,2-Dichlorobenzene	40.0	40.7	102	78 - 124
1,3-Dichlorobenzene	40.0	41.1	103	78 - 124
1,4-Dichlorobenzene	40.0	35.1	88	78 - 118

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QUALITY CONTROL REPORT

LABORATORY FORTIFIED BLANK

Fraction: Volatile Organics USEPA-8260B Scan
Method: Volatiles Purge & Trap-GC/MS
Analyst: Diane L. VanMale Test Date: 02/22/05
Units: ug/L
QC Batch: 103963-122

Parameter	Spike Quantity	Spike Result	Spike % Rec	Control Limits
Benzene	40.0	41.3	103	79 - 120
Chlorobenzene	40.0	40.6	102	79 - 122
1,1-Dichloroethylene	40.0	40.2	101	72 - 126
Toluene	40.0	41.2	103	79 - 126
Trichloroethene	40.0	40.0	100	71 - 127

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QUALITY CONTROL REPORT
SURROGATE RECOVERIES

Method: Volatiles Purge & Trap-GC/MS USEPA-8260B WATER

Surrogate Compound List

SUR-1: Dibromofluoromethane-sur
SUR-2: d4-1,2-Dichloroethane-sur
SUR-3: d8-Toluene-sur
SUR-4: 4-Bromofluorobenzene-sur

% R = Percent Recovery

Compounds:		SUR-1	SUR-2	SUR-3	SUR-4
Control Limits:		79-124	75-128	87-113	70-121
Sample # / ID	Batch	% R	% R	% R	% R
MPB-01	103963-121	102	111	99	92
MPB-01	103963-122	101	100	101	100
MPB-01	104203-223	102	96	100	99
MPB-01	104321-201	106	105	101	96
MPB-01	104321-201	106	105	101	96
LFB-01	103963-121	100	103	96	100
LFB-01	103963-122	98	100	98	99
LFB-01	104203-223	99	97	100	99
LFB-01	104321-201	99	101	102	100
LFB-01	104321-201	99	101	102	100
383434	103963-121	100	105	99	98
383435	103963-121	102	106	97	98
383436	103963-121	100	103	98	97
383437	103963-121	100	104	97	92
383438	103963-121	98	103	94	96
383439	103963-121	103	104	97	101
383440	103963-121	105	107	99	95
383525	103963-121	102	102	95	98
383526	103963-121	103	107	98	95
383527	103963-122	100	97	99	98
383528	103963-122	100	103	101	96
383833	104203-223	103	97	103	97
383834	104203-223	105	97	101	98
383835	104203-223	100	95	100	98
383836	104203-223	103	93	100	97
383837	104203-223	101	94	100	97
384114	104321-201	102	99	99	94

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Chain of Custody Record

COC No. 104844

Page ____ of ____

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Cart: 8,1
VOA Rack/Tray: 385-E
Receipt Log No.: 37-6
Project Chemist: JV
Laboratory Project No.: 36162-29

Client Name: North Jackson Co
Address: PO Box 213
Marquette, MI 49855
Phone: 906 225 6787
Fax: 906 225 6369

Project Name: Eagle
Client Project No. / P.O. No.:
Invoice To: ☐ Client ☑ Other (comments)
Contact/Report To: Dan Wilcox

Analyses Requested

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Container Type (corresponds to Container Packing List): 3 4 5 4 1p 9 8

Number of Containers Submitted

Test Group	Matrix Code	Laboratory Sample Number	#	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	A	B	C	D	E	F	H	Total	Sample Comments
01	WS	383434	1	CDRMS001 EAG-100353	TM0461	2-15-05	930		X	WW	4	2	6	2	1	2		17	
		383435	2	CDRMS001 EAG-100354	TM0722		1030				4	2	6	2	1	2		17	
		383436	3	STRWS001 EAG-100348	↓		1150				4	2	6	2	1	2		17	
		383437	4	STRMS004 EAG-100346	TM0713		1340				4	2	6	2	1	2		17	
		383438	5	STRMS003 EAG-100345	TM0713		1450				4	2	6	2	1	2		17	
		383439	6	STRMS001 EAG-100349	TM0913	↓	1540			↓	4	2	6	2	1	2		17	
		383440	7	DUPS001 EAG-100355	TM1115		—				4	2	6	2	1	2		17	
			8																
			9																
			10																

Sampled By (print): Peter Saber PJS
Sampler's Signature: Peter Saber
Company: North Jackson

How Shipped? Hand Carrier: FedEx
Tracking No.: 2-15-05 1815

Comments: Bill KMC - Jon Cherry

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
1. Received By	**Date**	**Time**	**2. Received By**	**Date**	**Time**	**3. Received For Lab By**	**Date**	**Time**
						Jon Faken	2/16/05	9:30

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Chain of Custody Record

COC No. 105682

Page 1 of 1

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Cart: 2
VOA Rack/Tray: 89-G
Receipt Log No.: 39-5
Project Chemist: JVZ
Laboratory Project No.: 36162-29

Client Name: North Jackson
Address: PO Box 218
Marquette MI 49855
Phone: 906 225 6787
Fax: 906 225 6769

Project Name: Eagle
Client Project No. / P.O. No.:
Invoice To: ☐ Client ☒ Other (comments)
Contact/Report To: Dan Wiitala

Analyses Requested

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	A	B	C	D	F	H	Total	Sample Comments
											Container Type (corresponds to Container Packing List)							
											Number of Containers Submitted							
01	WS	383525	1	YDRMS003 GAG-1001352	TM0886	2-16-05	1100		X	WT	4	2	6	2	1	2	17	
		383526	2	~~YDMS002~~ YDRMS002 GAG-1001351	TM0871 TM0886		1400											
		383527	3	STRMS002 GAG-1001344	TM1079		1600											
		383528	4	DUPS002 GAG-1001356	TM0871 TM0886		1400											
			5															
			6															
			7															
			8															
			9															
			10															

Sampled By (print): Peter Sabee
Sampler's Signature:
Company: North Jackson

How Shipped? Hand Carrier FedEx
Tracking No.

1. Relinquished By: Date 2-16-05 Time 1700
1. Received By: Date Time

2. Relinquished By: Date Time
2. Received By: Date Time

3. Relinquished By: Date Time
3. Received For Lab: Date 2/17/05 Time 10:35

Comments: Bill to KMC - Jon Cherry

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Chain of Custody Record

COC No. 00077

Page 1 of 1

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Cart: 5,4
VOA Rack/Tray: 551-W
Receipt Log No.: 47-5
Project Chemist: JVC
Laboratory Project No.: 36162-29

Client Name: North Jackson
Address: PO Box 218
Marquette MI 49855
Phone 906 225 6787
Fax 906 225 6789

Project Name: Eagle
Client Project No. / P.O. No.: Eagle
Invoice To: Client (Other / comments)
Contact/Report To: Dan Witale

Analyses Requested

A	B	C	D	E	F	H
15	7	11				

Container Type (corresponds to Container Packing List)

3	6	4	1	9		8

Number of Containers Submitted

A PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix										Total	Sample Comments
01	WS	383833	1	STRM5001 EAG-1001343	JM0909	2-21-05	1145		X	WTR	4	2	5	2	1	1	2				17	
↓	|	383834	2	STRE5006 EAG-1001361	JM0973		1400				4	2	5	2	1	1	2				17	
↓	|	383835	3	STRE5002 EAG-1001350	JM0973 JM0909		1530				4	2	5	2	1	1	2				17	
02	W	383836	4	FBKS001 EAG-1001359	JM0042		1130				4	1	5	2	1	1	2				16	
↓	|	383837	5	FBKS002 EAG-1001360	JM0042		1150				4	1	5	2	1	1	2				16	
03	|	383838	6	EQBS001 EAG-1001359	JM0042		1140					1										1	
↓	|	383839	7	EQBS002 EAG-1001358	JM0042	↓	1200		↓	↓		1										1	
			8																			
			9																			
			10																			

Sampled By (print): Peter Sabee
Sampler's Signature: Peter Sabee
Company: North Jackson

How Shipped? Hand Carrier Fed Ex
Tracking No. 8484674521846

Comments: Bill to Jon Cheny @ KMC

1. Relinquished By	Date	Time
Dan Witale	2-4-05	1825

1. Received By	Date	Time

2. Relinquished By	Date	Time

2. Received By	Date	Time

3. Relinquished By	Date	Time

3. Received For Lab By	Date	Time
[signature]	2/22/05	8:50

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Chain of Custody Record

COC No. 103796

Page 1 of 1

For Lab Use Only
Cart: 2
VOA Rack/Tray: 438-B
Receipt Log No.: 3-4
Project Chemist: JR
Laboratory Project No.: 36162-29

Client Name	Project Name
North Jackson Co.	Eagle
Address	Client Project No. / P.O. No.
2004 Harbor Hills Dr. Ste 102	
Marquette, MI	Invoice To ☐ Client ☒ Other (comments)
Phone 906-225-6787	Contact/Report To
Fax	Dan Wirth

Analyses Requested

PK
STRMSC005 - Surface Water Parameters
Nearby fishery *
Others - Groundwater Parameters

⇦ PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number
01	WS	384114

	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List) A	B	C	D	E	F	G	H	Total	Sample Comments
								Number of Containers Submitted (3) (15) (10) (2) (1) (1) (1) (1) (2) (11) (23)									
1	EAG-1001347 STRMSC005		2/24/05	9:10				4	1	1	2	1	2	2	6	17	Need to filter at lab!
2	EAG-1001372 QALM004A		2/24/05	PK 13:20				1	1							2	
3	EAG-1001374 QALM005A		2/24/05	12:30				1	1							2	
4	EAG-1001390 DUPM002		2/24/05					1	1							2	
5																	
6																	
7																	
8																	
9																	
10																	

Sampled By (print): Pete Kaus
Sampler's Signature: Peter Kaus
Company: North Jackson Co.

How Shipped? Hand Carrier FedEx
Tracking No.: 7914 8378 7090

Comments: - Please filter 1L green tag into 500 ml red sample tag bottle
- Invoice to Jim Cherry, KEIC

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
Peter Kaus	2/24/05	18:30						
1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
						Stephanie Lee	02-25-05	09:10

TriMatrixCOC -- COC WHITE COPY - REPORT YELLOW COPY - LABORATORY PINK COPY - FIELD

TriMatrix
Laboratories, Inc.

March 14, 2005

North Jackson Company
Attn: Mr. Peter Sabee
P.O Box 218
Marquette, MI 49855

RE: Eagle
Submittal Number: 36162-30

Dear Mr. Peter Sabee:

Enclosed is a copy of your laboratory report for test samples received by our laboratory on March 4, 2005.

Please note that the test results of the enclosed analyses relate only to the sample(s) as received at the laboratory, and are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC) standards. Qualification of test standards, including sample acceptance requirements, are presented within the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosure(s)

The total number of pages in this report, including this page, is 79.

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Sulfate**
Turbidimetric Method (Manual)
WATER EPA-375.4/9038

Qualification:

One of the matrix spike accuracies fell outside of the laboratory control limits, but the precision between the MS/MSD is within the control limit for this matrix and method. The corresponding sample result is not considered estimated.

Explanation for Sample(s) listed below:

Percent Recovery	Control Limits
115%	76- 126
135%	76- 126

Sample(s) Qualified: 384057 QALM005D EAG- 1001375

Page 1 - **End of Statement of Data Qualifications**

Note: This document is included as a part of the analytical report for the above referenced project and submittal, and should be retained as a permanent record thereof.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/22/05 @ 10:40
Sampler: P. Kero
Received: 02/23/05 @ 09:10

Submittal #: **36162-30**
Submittal: February 2005 GW Samples

Sample ID: **QALM006A EAG- 1001376**
Sample #: **383957**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	<2.0	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	02/24/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	02/24/05	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	02/24/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	0.18	0.05	mg/L	02/23/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	02/24/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	1.1	0.50	mg/L	03/03/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	03/03/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	03/03/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	0.63	0.50	mg/L	03/09/05	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	150	50	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	03/10/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	03/10/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	03/10/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	03/10/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	03/10/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	03/10/05	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/22/05 @ 11:15
Sampler: P. Kero
Received: 02/23/05 @ 09:10

Submittal #: **36162-30**
Submittal: February 2005 GW Samples

Sample ID: **QALM006B EAG- 1001377**
Sample #: **383958**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	77	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Chloride	1.8	1.0	mg/L	02/24/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	02/24/05	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	02/24/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	02/23/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	100	50	mg/L	02/24/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	18	0.50	mg/L	03/03/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	0.68	0.50	mg/L	03/03/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	5.4	0.50	mg/L	03/03/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	1.7	0.50	mg/L	03/09/05	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	67	50	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	03/10/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	03/10/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Iron, Dissolved	14300	20	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Manganese, Dissolved	140	20	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	03/10/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	03/10/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	03/10/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	03/10/05	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/22/05 @ 11:50
Sampler: P. Kero
Received: 02/23/05 @ 09:10

Submittal #: **36162-30**
Submittal: February 2005 GW Samples

Sample ID: **WLDP021 EAG- 1001365**
Sample #: **383959**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	6.6	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	02/24/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	02/24/05	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	02/24/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	0.08	0.05	mg/L	02/23/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	02/24/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	4.1	0.50	mg/L	03/03/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	03/03/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	0.71	0.50	mg/L	03/03/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	0.56	0.50	mg/L	03/09/05	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	490	50	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	5.7	2.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	03/10/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	03/10/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Iron, Dissolved	530	20	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	03/10/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	03/10/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	03/10/05	JMF	EPA-200.8/6020
Zinc, Dissolved	118	10	ug/L	03/10/05	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/22/05 @ 13:30
Sampler: P. Kero
Received: 02/23/05 @ 09:10

Submittal #: **36162-30**
Submittal: February 2005 GW Samples

Sample ID: **WLDP016 EAG- 1001364**
Sample #: **383960**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	83	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	02/24/05	JLB	325.2/4500-CL E
Sulfate	5.0	5.0	mg/L	02/24/05	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	02/24/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	02/23/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	02/24/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	23	0.50	mg/L	03/03/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	0.97	0.50	mg/L	03/03/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	5.5	0.50	mg/L	03/03/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	0.92	0.50	mg/L	03/09/05	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	03/10/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	03/10/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Iron, Dissolved	230	20	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	03/10/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	03/10/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	03/10/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	03/10/05	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/22/05 @ 14:22
Sampler: P. Kero
Received: 02/23/05 @ 09:10

Submittal #: **36162-30**
Submittal: February 2005 GW Samples

Sample ID: **WLDP006 EAG- 1001363**
Sample #: **383961**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	9.4	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Chloride	1.5	1.0	mg/L	02/24/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	02/24/05	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	02/24/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	02/23/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	02/24/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	0.67	0.50	mg/L	03/03/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	03/03/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	03/03/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	03/09/05	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	550	50	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	03/10/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	03/10/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Iron, Dissolved	9860	20	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	03/10/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	03/10/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	03/10/05	JMF	EPA-200.8/6020
Zinc, Dissolved	191	10	ug/L	03/10/05	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/22/05 @ 15:30
Sampler: P. Kero
Received: 02/23/05 @ 09:10

Submittal #: **36162-30**
Submittal: February 2005 GW Samples

Sample ID: **WLDP001 EAG- 1001362**
Sample #: **383962**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	81	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	02/24/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	02/24/05	JLB	EPA-375.4/9038
Fluoride	0.12	0.10	mg/L	02/24/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	02/23/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	02/24/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	23	0.50	mg/L	03/03/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	0.80	0.50	mg/L	03/03/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	4.7	0.50	mg/L	03/03/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	1.1	0.50	mg/L	03/09/05	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	52	50	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	03/10/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	03/10/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Iron, Dissolved	1010	20	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Manganese, Dissolved	22	20	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	03/10/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	03/10/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	03/10/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	03/10/05	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/22/05 @ 00:00
Sampler: P. Kero
Received: 02/23/05 @ 09:10

Submittal #: **36162-30**
Submittal: February 2005 GW Samples

Sample ID: **DUPP001 EAG- 1001389**
Sample #: **383963**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	79	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Chloride	1.0	1.0	mg/L	02/24/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	02/24/05	JLB	EPA-375.4/9038
Fluoride	0.10	0.10	mg/L	02/24/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	02/23/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	58	50	mg/L	02/24/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	23	0.50	mg/L	03/03/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	0.88	0.50	mg/L	03/03/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	4.8	0.50	mg/L	03/03/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	0.94	0.50	mg/L	03/09/05	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	03/10/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	03/10/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Iron, Dissolved	1010	20	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Manganese, Dissolved	24	20	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	03/10/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	03/10/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	03/10/05	JMF	EPA-200.8/6020
Zinc, Dissolved	39	10	ug/L	03/10/05	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/23/05 @ 14:50
Sampler: P. Sabee
Received: 02/24/05 @ 09:20

Submittal #: **36162-30**
Submittal: February 2005 GW Samples

Sample ID: **QALM005D EAG- 1001375**
Sample #: **384057**
Matrix: Ground Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	110	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
	Chloride	1.3	1.0	mg/L	02/28/05	JLB	325.2/4500-CL E
*	Sulfate	<5.0	5.0	mg/L	02/28/05	JLB	EPA-375.4/9038
	Fluoride	<0.10	0.10	mg/L	03/03/05	SAJ	SM 4500 F-C
	Nitrogen, Nitrate	<0.05	0.05	mg/L	02/24/05	HLB	353.2/4500 NO3F
	Residue,Dissolved @ 180*C	92	50	mg/L	03/01/05	GEH	160.1/SM 2540 C
	Calcium, Dissolved	28	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
	Potassium, Dissolved	0.57	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
	Magnesium, Dissolved	2.9	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
	Sodium, Dissolved	1.5	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
	Aluminum, Dissolved	<50	50	ug/L	03/10/05	DWJ	EPA-200.7/6010B
	Antimony, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
	Arsenic, Dissolved	3.8	2.0	ug/L	03/11/05	JMF	EPA-200.8/6020
	Barium, Dissolved	32	20	ug/L	03/11/05	JMF	EPA-200.8/6020
	Beryllium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
	Boron, Dissolved	<100	100	ug/L	03/10/05	DWJ	EPA-200.7/6010B
	Cadmium, Dissolved	<0.5	0.5	ug/L	03/11/05	JMF	EPA-200.8/6020
	Chromium, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
	Cobalt, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
	Copper, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
	Iron, Dissolved	740	20	ug/L	03/10/05	DWJ	EPA-200.7/6010B
	Lithium, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
	Manganese, Dissolved	210	20	ug/L	03/10/05	JLTR	EPA-200.7/6010B
	Molybdenum, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020
	Nickel, Dissolved	<25	25	ug/L	03/11/05	JMF	EPA-200.8/6020
	Lead, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
	Selenium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
	Silver, Dissolved	<0.2	0.2	ug/L	03/11/05	JMF	EPA-200.8/6020
	Zinc, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/23/05 @ 13:45
Sampler: P. Sabee
Received: 02/24/05 @ 09:20

Submittal #: **36162-30**
Submittal: February 2005 GW Samples

Sample ID: **QALP016 EAG- 1001386**
Sample #: **384058**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	61	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	02/28/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	02/28/05	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	03/03/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	0.09	0.05	mg/L	02/24/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	67	50	mg/L	03/01/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	21	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	3.5	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	0.79	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	03/11/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	03/11/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	03/10/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	03/11/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	03/11/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/23/05 @ 15:00
Sampler: P. Sabee
Received: 02/24/05 @ 09:20

Submittal #: **36162-30**
Submittal: February 2005 GW Samples

Sample ID: **QALP020 EAG- 1001388**
Sample #: **384059**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	10	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	02/28/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	02/28/05	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	03/03/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	02/24/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	03/01/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	3.9	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	1.1	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	0.84	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	0.65	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	03/11/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	03/11/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	03/10/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	03/11/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	03/11/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/23/05 @ 12:00
Sampler: P. Sabee
Received: 02/24/05 @ 09:20

Submittal #: **36162-30**
Submittal: February 2005 GW Samples

Sample ID: **QALM010A EAG- 1001384**
Sample #: **384060**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	39	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	02/28/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	02/28/05	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	03/03/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	0.17	0.05	mg/L	02/24/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	03/01/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	11	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	1.1	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	2.0	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	1.7	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	03/11/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	03/11/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	03/10/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	03/11/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	03/11/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/23/05 @ 00:00
Sampler: P. Sabee
Received: 02/24/05 @ 09:20

Submittal #: **36162-30**
Submittal: February 2005 GW Samples

Sample ID: **DUPM003 EAG- 1001391**
Sample #: **384061**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	110	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	02/28/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	02/28/05	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	03/03/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	02/24/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	97	50	mg/L	03/01/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	28	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	0.65	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	2.9	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	1.2	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	3.9	2.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Barium, Dissolved	33	20	ug/L	03/11/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	03/11/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Iron, Dissolved	720	20	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Manganese, Dissolved	200	20	ug/L	03/10/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	03/11/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	03/11/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/23/05 @ 00:00
Sampler: P. Sabee
Received: 02/24/05 @ 09:20

Submittal #: **36162-30**
Submittal: February 2005 GW Samples

Sample ID: **DUPP004 EAG- 1001392**
Sample #: **384062**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	64	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	02/28/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	02/28/05	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	03/03/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	0.09	0.05	mg/L	02/24/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	70	50	mg/L	03/01/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	21	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	3.3	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	0.72	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	03/11/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	03/11/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	03/10/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	03/11/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	03/11/05	JMF	EPA-200.8/6020
Zinc, Dissolved	11	10	ug/L	03/11/05	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/24/05 @ 13:20
Sampler: P. Kero
Received: 02/25/05 @ 09:10

Submittal #: **36162-30**
Submittal: February 2005 GW Samples

Sample ID: **QALM004A EAG- 1001372**
Sample #: **384115**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	42	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Chloride	1.1	1.0	mg/L	02/28/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	02/28/05	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	03/03/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	0.18	0.05	mg/L	02/25/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	03/01/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	13	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	0.52	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	2.1	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	0.80	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	03/11/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	03/11/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	03/10/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	03/11/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	03/11/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/24/05 @ 12:30
Sampler: P. Kero
Received: 02/25/05 @ 09:10

Submittal #: **36162-30**
Submittal: February 2005 GW Samples

Sample ID: **QALM005A EAG- 1001374**
Sample #: **384116**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	4.5	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	02/28/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	02/28/05	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	03/03/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	02/25/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	03/01/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	1.3	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	0.68	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	0.58	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Barium, Dissolved	23	20	ug/L	03/11/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	03/11/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Iron, Dissolved	240	20	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	03/10/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	03/11/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	03/11/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/24/05 @ 00:00
Sampler: P. Kero
Received: 02/25/05 @ 09:10

Submittal #: **36162-30**
Submittal: February 2005 GW Samples

Sample ID: **DUPM002 EAG- 1001390**
Sample #: **384117**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	3.6	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Chloride	1.3	1.0	mg/L	02/28/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	02/28/05	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	03/03/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	02/25/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	03/01/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	1.2	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	0.74	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	0.65	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Barium, Dissolved	20	20	ug/L	03/11/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	03/11/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Iron, Dissolved	230	20	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	03/10/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	03/11/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	03/11/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/25/05 @ 10:54
Sampler: P. Kero
Received: 02/26/05 @ 08:55

Submittal #: **36162-30**
Submittal: February 2005 GW Samples

Sample ID: **QALM004D EAG- 1001373**
Sample #: **384196**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	87	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	03/02/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	03/02/05	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	03/03/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	02/26/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	81	50	mg/L	03/01/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	25	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	0.88	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	3.2	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	2.2	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	9.8	2.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	03/11/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	03/11/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Iron, Dissolved	110	20	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Manganese, Dissolved	54	20	ug/L	03/10/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	03/11/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	03/11/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/25/05 @ 12:15
Sampler: P. Kero
Received: 02/26/05 @ 08:55

Submittal #: **36162-30**
Submittal: February 2005 GW Samples

Sample ID: **QALM008A EAG- 1001380**
Sample #: **384197**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	30	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Chloride	1.0	1.0	mg/L	03/02/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	03/02/05	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	03/03/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	0.11	0.05	mg/L	02/26/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	03/01/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	9.6	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	1.5	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	0.76	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	03/11/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	03/11/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	03/10/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	03/11/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	03/11/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/25/05 @ 12:30
Sampler: P. Kero
Received: 02/26/05 @ 08:55

Submittal #: **36162-30**
Submittal: February 2005 GW Samples

Sample ID: **QALM008D EAG- 1001381**
Sample #: **384198**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	47	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Chloride	1.7	1.0	mg/L	03/02/05	JLB	325.2/4500-CL E
Sulfate	7.4	5.0	mg/L	03/02/05	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	03/03/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	0.05	0.05	mg/L	02/26/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	50	50	mg/L	03/01/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	14	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	0.81	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	2.8	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	2.4	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	3.9	2.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	03/11/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	03/11/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	03/10/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	03/11/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	03/11/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/25/05 @ 14:10
Sampler: P. Kero
Received: 02/26/05 @ 08:55

Submittal #: **36162-30**
Submittal: February 2005 GW Samples

Sample ID: **QALM009A EAG- 1001382**
Sample #: **384199**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	46	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	03/02/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	03/02/05	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	03/03/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	0.16	0.05	mg/L	02/26/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	50	50	mg/L	03/01/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	14	0.50	mg/L	03/03/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	0.64	0.50	mg/L	03/03/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	2.4	0.50	mg/L	03/03/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	0.64	0.50	mg/L	03/09/05	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	03/08/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	03/08/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	03/08/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	03/08/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	03/08/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	03/08/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	03/08/05	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	03/03/05	DWJ	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	03/08/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	03/08/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	03/08/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	03/08/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	03/08/05	JMF	EPA-200.8/6020
Zinc, Dissolved	14	10	ug/L	03/08/05	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 02/25/05 @ 16:15
Sampler: P. Kero
Received: 02/26/05 @ 08:55

Submittal #: **36162-30**
Submittal: February 2005 GW Samples

Sample ID: **QALM009D EAG- 1001383**
Sample #: **384200**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	66	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	02/28/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	03/02/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	03/02/05	JLB	EPA-375.4/9038
Fluoride	0.12	0.10	mg/L	03/03/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	02/26/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	74	50	mg/L	03/01/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	18	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	0.93	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	4.2	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	2.7	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	2.5	2.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	03/11/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	03/11/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	03/10/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	03/11/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	03/11/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 03/01/05 @ 10:50
Sampler: P.S./D.W.
Received: 03/02/05 @ 09:15

Submittal #: **36162-30**
Submittal: February 2005 GW Samples

Sample ID: **QALM007A EAG- 1001378**
Sample #: **384331**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	18	2.0	mg/L	03/04/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	03/04/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	03/07/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	03/07/05	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	03/03/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	0.37	0.05	mg/L	03/02/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	03/03/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	6.4	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	0.63	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	0.93	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	03/11/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	03/14/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	03/11/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	03/10/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	03/11/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	03/11/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 03/01/05 @ 11:40
Sampler: P.S./D.W.
Received: 03/02/05 @ 09:15

Submittal #: **36162-30**
Submittal: February 2005 GW Samples

Sample ID: **QALM007D EAG- 1001379**
Sample #: **384332**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	112	2.0	mg/L	03/04/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	03/04/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	03/07/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	03/07/05	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	03/03/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	03/02/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	124	50	mg/L	03/03/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	30	0.50	mg/L	03/10/05	KLVM	EPA-200.7/6010B
Potassium, Dissolved	1.5	0.50	mg/L	03/10/05	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	4.1	0.50	mg/L	03/10/05	KLVM	EPA-200.7/6010B
Sodium, Dissolved	5.5	0.50	mg/L	03/10/05	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	03/10/05	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Barium, Dissolved	23	20	ug/L	03/10/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	03/11/05	JLTR	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	03/10/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	03/10/05	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Iron, Dissolved	1740	20	ug/L	03/10/05	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	03/10/05	KLVM	EPA-200.7/6010B
Manganese, Dissolved	130	20	ug/L	03/10/05	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	03/10/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	03/10/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	03/10/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	03/10/05	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 03/01/05 @ 13:15
Sampler: P.S./D.W.
Received: 03/02/05 @ 09:15

Submittal #: **36162-30**
Submittal: February 2005 GW Samples

Sample ID: **QALM003A EAG- 1001370**
Sample #: **384333**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	61	2.0	mg/L	03/04/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	03/04/05	INR	310.1/SM 2320 B
Chloride	1.4	1.0	mg/L	03/07/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	03/07/05	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	03/03/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	2.6	0.20	mg/L	03/02/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	102	50	mg/L	03/03/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	18	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	0.51	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	5.5	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	1.1	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	03/11/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	03/11/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	03/10/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	03/11/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	03/11/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 03/01/05 @ 13:30
Sampler: P.S./D.W.
Received: 03/02/05 @ 09:15

Submittal #: **36162-30**
Submittal: February 2005 GW Samples

Sample ID: **QALM003B EAG- 1001371**
Sample #: **384334**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	79	2.0	mg/L	03/04/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	03/04/05	INR	310.1/SM 2320 B
Chloride	1.4	1.0	mg/L	03/07/05	JLB	325.2/4500-CL E
Sulfate	6.9	5.0	mg/L	03/07/05	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	03/03/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	03/02/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	98	50	mg/L	03/03/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	19	0.50	mg/L	03/10/05	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.95	0.50	mg/L	03/10/05	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	5.7	0.50	mg/L	03/10/05	KLVM	EPA-200.7/6010B
Sodium, Dissolved	1.9	0.50	mg/L	03/10/05	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	03/10/05	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	5.3	2.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	03/10/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	03/11/05	JLTR	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	03/10/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	03/10/05	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Iron, Dissolved	37	20	ug/L	03/10/05	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	03/10/05	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	03/10/05	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	03/10/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	03/10/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	03/10/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	03/10/05	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 03/01/05 @ 15:45
Sampler: P.S./D.W.
Received: 03/02/05 @ 09:15

Submittal #: **36162-30**
Submittal: February 2005 GW Samples

Sample ID: **QALP015 EAG- 1001385**
Sample #: **384335**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	60	2.0	mg/L	03/04/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	03/04/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	03/07/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	03/07/05	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	03/03/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	0.08	0.05	mg/L	03/02/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	72	50	mg/L	03/03/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	18	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	3.0	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	0.51	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	03/11/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	03/11/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	03/10/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	03/11/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	03/11/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 03/02/05 @ 13:10
Sampler: P. Sabee
Received: 03/03/05 @ 09:00

Submittal #: **36162-30**
Submittal: February 2005 GW Samples

Sample ID: **QALM001A EAG- 1001366**
Sample #: **384435**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	51	2.0	mg/L	03/04/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	03/04/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	03/07/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	03/07/05	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	03/09/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	0.06	0.05	mg/L	03/04/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	03/03/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	16	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	0.97	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	2.9	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	1.4	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	03/11/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	03/11/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	03/10/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	03/11/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	03/11/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 03/02/05 @ 15:12
Sampler: P. Sabee
Received: 03/03/05 @ 09:00

Submittal #: **36162-30**
Submittal: February 2005 GW Samples

Sample ID: **QALM001D EAG- 1001367**
Sample #: **384436**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	73	2.0	mg/L	03/04/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	03/04/05	INR	310.1/SM 2320 B
Chloride	1.0	1.0	mg/L	03/07/05	JLB	325.2/4500-CL E
Sulfate	11	5.0	mg/L	03/07/05	JLB	EPA-375.4/9038
Fluoride	0.12	0.10	mg/L	03/09/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	03/04/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	62	50	mg/L	03/03/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	12	0.50	mg/L	03/10/05	KLVM	EPA-200.7/6010B
Potassium, Dissolved	0.70	0.50	mg/L	03/10/05	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	3.1	0.50	mg/L	03/10/05	KLVM	EPA-200.7/6010B
Sodium, Dissolved	13	1.0	mg/L	03/10/05	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	03/10/05	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	4.3	2.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	03/10/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	03/11/05	JLTR	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	03/10/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	03/10/05	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	03/10/05	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	03/10/05	KLVM	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	03/10/05	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	14	10	ug/L	03/10/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	03/10/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	03/10/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	03/10/05	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 03/02/05 @ 16:00
Sampler: P. Sabee
Received: 03/03/05 @ 09:00

Submittal #: **36162-30**
Submittal: February 2005 GW Samples

Sample ID: **QALP018 EAG- 1001387**
Sample #: **384437**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	63	2.0	mg/L	03/04/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	03/04/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	03/07/05	JLB	325.2/4500-CL E
Sulfate	5.4	5.0	mg/L	03/07/05	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	03/09/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	0.20	0.05	mg/L	03/04/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	70	50	mg/L	03/03/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	20	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	0.52	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	4.0	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	0.89	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	03/11/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	03/11/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Iron, Dissolved	76	20	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	03/10/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	03/11/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	03/11/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 03/03/05 @ 09:30
Sampler: P. Sabee
Received: 03/04/05 @ 08:40

Submittal #: **36162-30**
Submittal: February 2005 GW Samples

Sample ID: **FBKM001 EAG- 1001397**
Sample #: **384498**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	<2.0	2.0	mg/L	03/04/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	03/04/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	03/07/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	03/07/05	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	03/09/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	03/04/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	03/07/05	GEH	160.1/SM 2540 C

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 03/03/05 @ 09:40
Sampler: P. Sabee
Received: 03/04/05 @ 08:40

Submittal #: **36162-30**
Submittal: February 2005 GW Samples

Sample ID: **FBKM002 EAG- 1001398**
Sample #: **384499**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	<2.0	2.0	mg/L	03/04/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	03/04/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	03/07/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	03/07/05	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	03/09/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	03/04/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	03/07/05	GEH	160.1/SM 2540 C

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 03/03/05 @ 09:50
Sampler: P. Sabee
Received: 03/04/05 @ 08:40

Submittal #: **36162-30**
Submittal: February 2005 GW Samples

Sample ID: **FBKM003 EAG- 1001399**
Sample #: **384500**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	<2.0	2.0	mg/L	03/04/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	03/04/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	03/07/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	03/07/05	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	03/09/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	03/04/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	03/07/05	GEH	160.1/SM 2540 C

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 03/03/05 @ 10:00
Sampler: P. Sabee
Received: 03/04/05 @ 08:40

Submittal #: **36162-30**
Submittal: February 2005 GW Samples

Sample ID: **FBKM004 EAG- 1001400**
Sample #: **384501**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	<2.0	2.0	mg/L	03/04/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	03/04/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	03/07/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	03/07/05	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	03/09/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	03/04/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	03/07/05	GEH	160.1/SM 2540 C

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 03/03/05 @ 09:30
Sampler: P. Sabee
Received: 03/04/05 @ 08:40

Submittal #: **36162-30**
Submittal: February 2005 GW Samples

Sample ID: **EQBM001 EAG- 1001393**
Sample #: **384502**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Calcium, Dissolved	<0.50	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	03/11/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	03/11/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	03/10/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	03/11/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	03/11/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 03/03/05 @ 09:40
Sampler: P. Sabee
Received: 03/04/05 @ 08:40

Submittal #: **36162-30**
Submittal: February 2005 GW Samples

Sample ID: **EQBM002 EAG- 1001394**
Sample #: **384503**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Calcium, Dissolved	<0.50	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	03/11/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	03/11/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	03/10/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	03/11/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	03/11/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 03/03/05 @ 09:50
Sampler: P. Sabee
Received: 03/04/05 @ 08:40

Submittal #: **36162-30**
Submittal: February 2005 GW Samples

Sample ID: **EQBM003 EAG- 1001395**
Sample #: **384504**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Calcium, Dissolved	<0.50	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	03/11/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	03/11/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	03/10/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	03/11/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	03/11/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 03/03/05 @ 10:00
Sampler: P. Sabee
Received: 03/04/05 @ 08:40

Submittal #: **36162-30**
Submittal: February 2005 GW Samples

Sample ID: **EQBM004 EAG- 1001396**
Sample #: **384505**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Calcium, Dissolved	<0.50	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	03/11/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	03/11/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	03/10/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	03/11/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	03/11/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 03/03/05 @ 10:10
Sampler: P. Sabee
Received: 03/04/05 @ 08:40

Submittal #: **36162-30**
Submittal: February 2005 GW Samples

Sample ID: **QALM002A EAG- 1001368**
Sample #: **384506**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	43	2.0	mg/L	03/04/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	03/04/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	03/07/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	03/07/05	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	03/09/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	0.18	0.05	mg/L	03/04/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	03/07/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	9.1	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Potassium, Dissolved	0.70	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Magnesium, Dissolved	1.2	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Sodium, Dissolved	0.62	0.50	mg/L	03/10/05	DWJ	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	03/11/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	03/11/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	03/10/05	DWJ	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	03/10/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	03/11/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	03/11/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	03/11/05	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 03/03/05 @ 13:00
Sampler: P. Sabee
Received: 03/04/05 @ 08:40

Submittal #: **36162-30**
Submittal: February 2005 GW Samples

Sample ID: **QALM002D EAG- 1001369**
Sample #: **384507**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	100	2.0	mg/L	03/04/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	03/04/05	INR	310.1/SM 2320 B
Chloride	1.3	1.0	mg/L	03/07/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	03/07/05	JLB	EPA-375.4/9038
Fluoride	0.14	0.10	mg/L	03/09/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	03/04/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	106	50	mg/L	03/07/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	26	0.50	mg/L	03/10/05	KLVM	EPA-200.7/6010B
Potassium, Dissolved	2.1	0.50	mg/L	03/10/05	KLVM	EPA-200.7/6010B
Magnesium, Dissolved	4.3	0.50	mg/L	03/10/05	KLVM	EPA-200.7/6010B
Sodium, Dissolved	4.9	0.50	mg/L	03/10/05	KLVM	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	03/10/05	KLVM	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	5.2	2.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Barium, Dissolved	25	20	ug/L	03/10/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	03/11/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	03/11/05	JLTR	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	03/10/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	03/10/05	KLVM	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	03/10/05	KLVM	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	03/10/05	KLVM	EPA-200.7/6010B
Manganese, Dissolved	88	20	ug/L	03/10/05	KLVM	EPA-200.7/6010B
Molybdenum, Dissolved	13	10	ug/L	03/10/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	03/10/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	03/10/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	03/10/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	03/10/05	JMF	EPA-200.8/6020

End of Analytical Report

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Bicarbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/28/05	229028	INR	<2.0
03/04/05	229290	INR	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/28/05	229028	INR	238	239	100	89-111
03/04/05	229290	INR	238	230	97	89-111

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Carbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/28/05	229028	INR	<2.0
03/04/05	229290	INR	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/28/05	229028	INR	377	328	87	77-110
03/04/05	229290	INR	377	323	86	77-110

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QUALITY CONTROL REPORT

Parameter: **Aluminum, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/03/05	229162	DWJ	<50
03/10/05	229412	KLVM	<50
03/10/05	229436	DWJ	<50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/03/05	229162	DWJ	2500	2513	101	90-110
03/10/05	229412	KLVM	2500	2434	97	90-110
03/10/05	229436	DWJ	2500	2459	98	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/03/05	104330	DWJ	<50
03/03/05	104331	DWJ	<50
03/10/05	104523	KLVM	<50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/03/05	104330	DWJ	1250	1337	107	86-120
03/03/05	104331	DWJ	1250	1270	102	86-120
03/10/05	104523	KLVM	1250	1224	98	86-120

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QUALITY CONTROL REPORT

Parameter: **Antimony, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/08/05	229368	JMF	<2.0
03/10/05	229463	JMF	<2.0
03/11/05	229491	JMF	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/08/05	229368	JMF	40	40.6	102	90-110
03/10/05	229463	JMF	40	37.6	94	90-110
03/11/05	229491	JMF	40	37.9	95	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/08/05	104477	JMF	<5.0
03/10/05	104539	JMF	<2.0
03/10/05	104544	JMF	<2.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/08/05	104477	JMF	100	93.7	94	85-127
03/10/05	104539	JMF	100	95.0	95	85-127
03/10/05	104544	JMF	100	95.3	95	85-127

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/03/05	229162	DWJ	<200

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/08/05	229371	JMF	<1.0
03/10/05	229463	JMF	<1.0
03/11/05	229491	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/08/05	229371	JMF	40	40.4	101	90-110
03/10/05	229463	JMF	40	39.3	98	90-110
03/11/05	229491	JMF	40	40.0	100	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/08/05	104477	JMF	<1.0
03/10/05	104539	JMF	<1.0
03/10/05	104544	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/08/05	104477	JMF	100	91.2	91	85-115
03/10/05	104539	JMF	100	95.6	96	85-115
03/10/05	104544	JMF	100	93.5	94	85-115

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/03/05	229162	DWJ	<10
03/10/05	229412	KLVM	<10

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/08/05	229371	JMF	<10
03/10/05	229463	JMF	<10
03/11/05	229491	JMF	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/08/05	229371	JMF	40	41.4	104	90-110
03/10/05	229463	JMF	40	40.9	102	90-110
03/11/05	229491	JMF	40	41.0	103	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/08/05	104477	JMF	<10
03/10/05	104539	JMF	<10
03/10/05	104544	JMF	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/08/05	104477	JMF	100	95.9	96	86-119
03/10/05	104539	JMF	100	108.2	108	86-119
03/10/05	104544	JMF	100	108.5	109	86-119

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QUALITY CONTROL REPORT

Parameter: **Beryllium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/08/05	229371	JMF	<1.0
03/10/05	229463	JMF	<1.0
03/11/05	229491	JMF	<1.0
03/14/05	229511	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/08/05	229371	JMF	40	41.5	104	90-110
03/10/05	229463	JMF	40	41.0	103	90-110
03/11/05	229491	JMF	40	41.7	104	90-110
03/14/05	229511	JMF	40	41.5	104	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/08/05	104477	JMF	<1.0
03/10/05	104539	JMF	<1.0
03/11/05	104544	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/08/05	104477	JMF	100	93.1	93	81-116
03/10/05	104539	JMF	100	95.1	95	81-116
03/11/05	104544	JMF	100	88.2	88	81-116

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QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/03/05	229162	DWJ	<10

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QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/08/05	229371	JMF	<0.2
03/10/05	229463	JMF	<0.2
03/11/05	229491	JMF	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/08/05	229371	JMF	40	40.1	100	90-110
03/10/05	229463	JMF	40	39.6	99	90-110
03/11/05	229491	JMF	40	41.1	103	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/08/05	104477	JMF	<0.2
03/10/05	104539	JMF	<0.2
03/10/05	104544	JMF	<0.2

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/08/05	104477	JMF	100	93.1	93	83-112
03/10/05	104539	JMF	100	90.6	91	83-112
03/10/05	104544	JMF	100	93.8	94	83-112

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QUALITY CONTROL REPORT

Parameter: **Chloride**
Method: Colorimetric, Automated Ferricyanide 325.2/4500-CL E WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/24/05	228914	JLB	<1.0
02/28/05	229026	JLB	<1.0
03/02/05	229114	JLB	<1.0
03/07/05	229256	JLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/24/05	228914	JLB	78.1	78.9	101	92-109
02/28/05	229026	JLB	78.1	79.9	102	92-109
03/02/05	229114	JLB	78.1	80.8	103	92-109
03/07/05	229256	JLB	78.1	74.8	96	92-109

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QUALITY CONTROL REPORT

Parameter: **Chromium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/03/05	229162	DWJ	<50

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QUALITY CONTROL REPORT

Parameter: **Chromium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/08/05	229371	JMF	<1.0
03/10/05	229463	JMF	<1.0
03/11/05	229491	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/08/05	229371	JMF	40	41.2	103	90-110
03/10/05	229463	JMF	40	41.4	104	90-110
03/11/05	229491	JMF	40	42.7	107	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/08/05	104477	JMF	<1.0
03/10/05	104539	JMF	<1.0
03/10/05	104544	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/08/05	104477	JMF	100	96.2	96	84-122
03/10/05	104539	JMF	100	106.9	107	84-122
03/10/05	104544	JMF	100	102.5	103	84-122

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QUALITY CONTROL REPORT

Parameter: **Cobalt, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/03/05	229162	DWJ	<10
03/10/05	229412	KLVM	<10
03/10/05	229436	DWJ	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/03/05	229162	DWJ	500	512	102	90-110
03/10/05	229412	KLVM	500	486	97	90-110
03/10/05	229436	DWJ	500	490	98	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/03/05	104330	DWJ	<10
03/03/05	104331	DWJ	<10
03/10/05	104523	KLVM	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/03/05	104330	DWJ	250	259	104	84-117
03/03/05	104331	DWJ	250	251	100	84-117
03/10/05	104523	KLVM	250	241	96	84-117

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QUALITY CONTROL REPORT

Parameter: **Cobalt, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/08/05	229371	JMF	<10
03/10/05	229463	JMF	<10

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/03/05	229162	DWJ	<10

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/08/05	229368	JMF	<1.0
03/10/05	229463	JMF	<1.0
03/11/05	229491	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/08/05	229368	JMF	40	40.1	100	90-110
03/10/05	229463	JMF	40	41.3	103	90-110
03/11/05	229491	JMF	40	41.0	103	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/08/05	104477	JMF	<1.0
03/10/05	104539	JMF	<1.0
03/10/05	104544	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/08/05	104477	JMF	100	102.3	102	86-123
03/10/05	104539	JMF	100	108.5	109	86-123
03/10/05	104544	JMF	100	105.3	105	86-123

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QUALITY CONTROL REPORT

Parameter: **Fluoride**
Method: Potentiometric, Ion Selective Electrode SM 4500 F-C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/24/05	228956	SAJ	<0.10
03/03/05	229181	SAJ	<0.10
03/09/05	229402	SAJ	<0.10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/24/05	228956	SAJ	0.343	0.363	106	88-116
03/03/05	229181	SAJ	0.343	0.339	99	88-116
03/09/05	229402	SAJ	0.343	0.354	103	88-116

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QUALITY CONTROL REPORT

Parameter: **Iron, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/03/05	229162	DWJ	<20
03/09/05	229407	DWJ	<20
03/10/05	229412	KLVM	<20
03/10/05	229436	DWJ	<20

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/03/05	229162	DWJ	500	525	105	90-110
03/10/05	229412	KLVM	500	484	97	90-110
03/10/05	229436	DWJ	500	508	102	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/03/05	104330	DWJ	<20
03/03/05	104331	DWJ	<20
03/10/05	104523	KLVM	<20

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/03/05	104330	DWJ	250	260	104	83-118
03/03/05	104331	DWJ	250	279	112	83-118
03/10/05	104523	KLVM	250	247	99	83-118

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QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/03/05	229162	DWJ	<50
03/10/05	229412	KLVM	<50

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QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/08/05	229371	JMF	<1.0
03/10/05	229463	JMF	<1.0
03/11/05	229491	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/08/05	229371	JMF	40	40.6	102	90-110
03/10/05	229463	JMF	40	38.9	97	90-110
03/11/05	229491	JMF	40	39.9	100	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/08/05	104477	JMF	<1.0
03/10/05	104539	JMF	<1.0
03/10/05	104544	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/08/05	104477	JMF	100	98.4	98	87-118
03/10/05	104539	JMF	100	97.9	98	87-118
03/10/05	104544	JMF	100	96.9	97	87-118

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QUALITY CONTROL REPORT

Parameter: **Lithium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/03/05	229162	DWJ	<10
03/10/05	229412	KLVM	<10
03/10/05	229436	DWJ	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/03/05	229162	DWJ	500	522	104	90-110
03/10/05	229412	KLVM	500	478	96	90-110
03/10/05	229436	DWJ	500	496	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/03/05	104330	DWJ	<10
03/03/05	104331	DWJ	<10
03/10/05	104523	KLVM	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/03/05	104330	DWJ	250	259	104	86-115
03/03/05	104331	DWJ	250	253	101	86-115
03/10/05	104523	KLVM	250	246	98	86-115

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QUALITY CONTROL REPORT

Parameter: **Magnesium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/03/05	229162	DWJ	<0.50
03/10/05	229412	KLVM	<0.50
03/10/05	229436	DWJ	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/03/05	229162	DWJ	5.0	5.02	100	90-110
03/10/05	229412	KLVM	5.0	4.79	96	90-110
03/10/05	229436	DWJ	5.0	4.91	98	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/03/05	104330	DWJ	<0.50
03/03/05	104331	DWJ	<0.50
03/10/05	104523	KLVM	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/03/05	104330	DWJ	12.5	12.7	102	87-115
03/03/05	104331	DWJ	12.5	12.2	98	87-115
03/10/05	104523	KLVM	12.5	12.5	100	87-115

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/03/05	229162	DWJ	<10
03/10/05	229412	KLVM	<10
03/10/05	229459	JLTR	<20

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/03/05	229162	DWJ	500	514	103	90-110
03/10/05	229412	KLVM	500	492	98	90-110
03/10/05	229459	JLTR	500	496	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/03/05	104330	DWJ	<10
03/03/05	104331	DWJ	<20
03/10/05	104523	KLVM	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/03/05	104330	DWJ	250	259	104	83-118
03/03/05	104331	DWJ	250	247	99	83-118
03/10/05	104523	KLVM	250	249	100	83-118

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/08/05	229371	JMF	<10
03/10/05	229463	JMF	<10

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/08/05	229368	JMF	<1.0
03/10/05	229463	JMF	<1.0
03/11/05	229491	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/08/05	229368	JMF	40	39.5	99	90-110
03/10/05	229463	JMF	40	40.9	102	90-110
03/11/05	229491	JMF	40	40.7	102	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/08/05	104477	JMF	<1.0
03/10/05	104539	JMF	<1.0
03/10/05	104544	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/08/05	104477	JMF	100	98.0	98	84-117
03/10/05	104539	JMF	100	101.3	101	84-117
03/10/05	104544	JMF	100	98.2	98	84-117

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrate**
Method: Colorimetric, Auto-Cadmium Reduction 353.2/4500 NO3F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/23/05	228986	HLB	<0.05
02/24/05	228984	HLB	<0.05
02/25/05	228981	HLB	<0.05
02/26/05	229115	HLB	<0.05
03/02/05	229232	HLB	<0.05
03/04/05	229257	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/23/05	228986	HLB	0.624	0.651	104	90-110
02/24/05	228984	HLB	0.624	0.647	104	90-110
02/25/05	228981	HLB	0.624	0.652	104	90-110
02/26/05	229115	HLB	0.624	0.640	103	90-110
03/02/05	229232	HLB	0.624	0.656	105	90-110
03/04/05	229257	HLB	0.624	0.643	103	90-110

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QUALITY CONTROL REPORT

Parameter: **Potassium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/03/05	229162	DWJ	<0.50
03/10/05	229412	KLVM	<0.10
03/10/05	229436	DWJ	<0.50
03/11/05	229467	JLTR	<0.10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/03/05	229162	DWJ	5.0	5.17	103	90-110
03/10/05	229412	KLVM	5.0	4.71	94	90-110
03/10/05	229436	DWJ	5.0	4.97	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/03/05	104330	DWJ	<0.50
03/03/05	104331	DWJ	<0.50
03/10/05	104523	KLVM	<0.10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/03/05	104330	DWJ	12.5	13.1	105	87-125
03/03/05	104331	DWJ	12.5	13.0	104	87-125
03/10/05	104523	KLVM	12.5	12.7	102	87-125

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QUALITY CONTROL REPORT

Parameter: **Residue,Dissolved @ 180*C**
Method: Residue-Gravimetric, Dried @ 180*C 160.1/SM 2540 C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/24/05	228959	GEH	<2.5
03/01/05	229121	GEH	<2.5
03/03/05	229227	GEH	<2.5
03/07/05	229354	GEH	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/24/05	228959	GEH	1000	911	91	90-108
02/24/05	228959	GEH	1000	986	99	90-108
03/01/05	229121	GEH	1000	1010	101	90-108
03/03/05	229227	GEH	1000	1000	100	90-108
03/07/05	229354	GEH	1000	902	90	90-108
03/07/05	229354	GEH	1000	1020	102	90-108

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QUALITY CONTROL REPORT

Parameter: **Selenium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/03/05	229162	DWJ	<200

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QUALITY CONTROL REPORT

Parameter: **Selenium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/08/05	229371	JMF	<1.0
03/10/05	229463	JMF	<1.0
03/11/05	229491	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/08/05	229371	JMF	40	40.5	101	90-110
03/10/05	229463	JMF	40	38.0	95	90-110
03/11/05	229491	JMF	40	38.7	97	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/08/05	104477	JMF	<1.0
03/10/05	104539	JMF	<1.0
03/10/05	104544	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/08/05	104477	JMF	100	83.5	84	79-120
03/10/05	104539	JMF	100	85.3	85	79-120
03/10/05	104544	JMF	100	82.6	83	79-120

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QUALITY CONTROL REPORT

Parameter: **Silver, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/03/05	229162	DWJ	<10

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QUALITY CONTROL REPORT

Parameter: **Silver, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/08/05	229371	JMF	<0.2
03/10/05	229463	JMF	<0.2
03/11/05	229491	JMF	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/08/05	229371	JMF	40	40.3	101	90-110
03/10/05	229463	JMF	40	40.5	101	90-110
03/11/05	229491	JMF	40	41.5	104	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/08/05	104477	JMF	<0.2
03/10/05	104539	JMF	<0.2
03/10/05	104544	JMF	<0.2

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/08/05	104477	JMF	100	98.0	98	86-114
03/10/05	104539	JMF	100	103.3	103	86-114
03/10/05	104544	JMF	100	105.4	105	86-114

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QUALITY CONTROL REPORT

Parameter: **Sodium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/03/05	229162	DWJ	<0.50
03/09/05	229407	DWJ	<0.50
03/10/05	229412	KLVM	<0.50
03/10/05	229436	DWJ	<0.50
03/11/05	229467	JLTR	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/09/05	229407	DWJ	5.0	4.97	99	90-110
03/10/05	229412	KLVM	5.0	4.83	97	90-110
03/10/05	229436	DWJ	5.0	4.97	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/09/05	104330	DWJ	<0.50
03/09/05	104331	DWJ	<0.50
03/10/05	104523	KLVM	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/09/05	104330	DWJ	12.5	13.3	106	86-117
03/09/05	104331	DWJ	12.5	12.8	102	86-117
03/10/05	104523	KLVM	12.5	11.8	94	86-117

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QUALITY CONTROL REPORT

Parameter: **Sulfate**
Method: Turbidimetric Method (Manual) EPA-375.4/9038 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
02/24/05	228919	JLB	<2.0
02/28/05	229027	JLB	<5.0
03/02/05	229113	JLB	<5.0
03/07/05	229289	JLB	<5.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
02/24/05	228919	JLB	7.9	7.9	100	85-113
02/28/05	229027	JLB	15.8	17.1	108	85-113
03/02/05	229113	JLB	15.8	15.8	100	85-113
03/07/05	229289	JLB	15.8	15.0	95	85-113

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QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/03/05	229162	DWJ	<20
03/10/05	229412	KLVM	<20

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QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
03/08/05	229371	JMF	<10
03/10/05	229463	JMF	<10
03/11/05	229491	JMF	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/08/05	229371	JMF	40	40.5	101	90-110
03/10/05	229463	JMF	40	38.0	95	90-110
03/11/05	229491	JMF	40	39.3	98	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
03/08/05	104477	JMF	<10
03/10/05	104539	JMF	<10
03/10/05	104544	JMF	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
03/08/05	104477	JMF	100	93.9	94	80-137
03/10/05	104539	JMF	100	88.7	89	80-137
03/10/05	104544	JMF	100	87.9	88	80-137

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Phone (616) 975-4500 Fax (616) 942-7463
www.trimatrixlabs.com

Chain of Custody Record

COC No. 105590

Page 1 of 1

For Lab Use Only
Cart: 1
VOA Rack/Tray:
Receipt Log No. 493
Project Chemist: JVC
Laboratory Project No. 3662-30

Client Name: North Jackson Co.
Address: 1004 Hawkins Hills Drive Ste 104
Marquette, MI 49855
Phone 906-225-6787
Fax
Project Name: Eagle
Client Project No. / P.O. No.
Invoice To: ☐ Client ☒ Other (comments)
Contact/Report To: Dan Wittala

Analyses Requested

Groundwater Parameters 3 15

⇦ PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List) A	B	Total	Sample Comments
											Number of Containers Submitted			
04	WG	383957	1	EAG-1001376 ~~QALM006A~~ QALM006A	TM0978	2/22/05	10:40		X	H_2O	1	1	2	
		383958	2	EAG-1001377 QALM006B		2/22/05	11:15		X	H_2O	1	1	2	
		383959	3	EAG-1001365 WLDP021		2/22/05	11:50		X	H_2O	1	1	2	
		383960	4	EAG-1001364 WLDP016		2/22/05	13:30		X	H_2O	1	1	2	
		383961	5	EAG-1001363 WLDP006		2/22/05	14:22		X	H_2O	1	1	2	
		383962	6	EAG-1001362 WLDP001		2/22/05	15:30		X	H_2O	1	1	2	
		383963	7	EAG-1001389 DUPP001		2/22/05			X	H_2O	1	1	2	
			8											
			9											
			10											

Sampled By (print): Pete Kero
Sampler's Signature:
Company: North Jackson Co.

How Shipped? Hand Carrier FedEx
Tracking No. 7909 2528 8878

Comments: Invoice to Jon Cherry, KMC

1. Relinquished By	Date	Time
	2/22/05	18:00

2. Relinquished By	Date	Time

3. Relinquished By	Date	Time

1. Received By	Date	Time

2. Received By	Date	Time

3. Received For Lab By	Date	Time
	2/23/05	9:10

TriMatrixCOC -- COC

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Chain of Custody Record

COC No. 103795

Page 1 of 1

For Lab Use Only
Cart: 2
VOA Rack/Tray:
Receipt Log No.: 1-3
Project Chemist: JK
Laboratory Project No.: 36162-30

Client Name: North Jackson
Address: PO Box 218
Magnetic MI 44855
Phone: 906 225 0707
Fax:

Project Name: Eagle
Client Project No. / P.O. No.: Eagle
Invoice To: ☐ Client ☑ Other (comments)
Contact/Report To: Dan Wittala

Analyses Requested

⇦ PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List)	Number of Containers Submitted	Total	Sample Comments
										A	B		
34	WG	384057	QALMW05D EAG-100 1375	TM0779	7-23-05	1450		X	WTR	1	1	2	
		384058	QALP016 EAG-100 1386			1345							
		384059	QALP020 EAG-100 1385			1500							
		384060	QALMW01A EAG-100 1384			1200							
		384061	DUPMW03 EAG-100 1341			—							
		384062	DUPP004 EAG-100 1342			—							

Sampled By (print): Peter Sybee
Sampler's Signature:
Company: North Jackson

How Shipped? Hand Carrier Fed Ex
Tracking No.

Comments: Bill to Jon Cheney @ KMC

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
	2-23-05	1600						
1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
							2/24/05	9:20

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Chain of Custody Record

COC No. 105591

Page 1 of 1

For Lab Use Only
Cart: 7
VOA Rack/Tray:
Receipt Log No.: 5-6
Project Chemist: JOZ
Laboratory Project No.: 36162-30

Client Name: North Jackson Company
Address: 1004 Harbor Hills Drive, Ste 1042
Marquette, MI 49855
Phone: 906-225-6787
Fax:

Project Name: Eagle
Client Project No. / P.O. No.:
Invoice To: ☐ Client ☒ Other (comments)
Contact/Report To: Dan Witala

Analyses Requested: Groundwater Parameters

⇦ PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

	Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List) A	B	Total	Sample Comments
											Number of Containers Submitted			
1	04	W	384196	EAG-1001373 QALM004D	TM1106	2/25/05	10:54		X	WTR	1	2	2	
2			384197	EAG-1001380 QALM008A		2/25/05	12:15		X	WTR	1	1	2	
3			384198	EAG-1001381 QALM008D		2/25/05	12:30		X	WTR	1	1	2	
4			384199	EAG-1001332 QALM009A		2/25/05	14:10		X	WTR	1	1	2	
5			384200	EAG-1001383 QALM009D		2/25/05	16:15		X	WTR	1	1	2	
6														
7														
8														
9														
10														

Sampled By (print): Pete Kero
Sampler's Signature: Pete Kero
Company: North Jackson Co.

How Shipped? Hand Carrier FedEx
Tracking No.: 7922 1508 2730

Comments: Invoice to John Cherry, KEK

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
Pete Kero	2/25/05	18:30						
1. Received By	**Date**	**Time**	**2. Received By**	**Date**	**Time**	**3. Received For Lab By**	**Date**	**Time**
						Joe Fekra	2/26/05	8:55

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Page 1 of 1

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Cart: 2
VOA Rack/Tray: M8
Receipt Log No.: 11-9
Project Chemist: JC
Laboratory Project No.: 36162-30

Client Name: MTJC
Address: Muskegon MI
Phone: 231 725 6789
Fax:

Project Name: Zeeland
Client Project No. / P.O. No.:
Invoice To: ☐ Client ☒ Other (comments)
Contact/Report To: D Wittala

Analyses Requested

⇦ PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List)	Number of Containers Submitted	Total	Sample Comments
										A	B		
04	W6	384331	ONEMOON7A		3-1-05	1050		X	WW	1	1	2	EAC-100/1378
		384332	CHALMOON7D		3-1-05	1140		X	WW	1	1	2	EAC100/1379
		384333	CHALMOON3A		3-1-05	1315		X	WW	1	1	2	EAC100/1380
		384334	CHALMOON3B		3-1-05	1330		X	WW	1	1	2	EAC100/1381
		384335	CHALPOIS		3-1-05	1545		X	WW	1	1	2	EAC-100/1382

Sampled By (print): Esther D Wittala
Sampler's Signature:
Company: MTJC

How Shipped? Hand Carrier: Fed Ex
Tracking No.: 7904 3315 9715

1. Relinquished By: D Wittala Date: 3-1-05 Time: 1515
1. Received By: Date: Time:

2. Relinquished By: Date: Time:
2. Received By: Date: Time:

3. Relinquished By: Date: Time:
3. Received For Lab By: John Date: 03-02-05 Time: 09:15

Comments: Invoice TO KMC, Attn: Jon Cleary

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Page 1 of 1

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Cart: 3
VOA Rack/Tray:
Receipt Log No.: 13-2
Project Chemist: JK
Laboratory Project No.: 36162-30

Client Name: North Jackson
Address: PO Box 218
Marquette, MI 49855
Phone: 9062256787
Fax:

Project Name: Eagle
Client Project No. / P.O. No.: Eagle
Invoice To: ☐ Client ☒ Other (comments)
Contact/Report To: D. Witala

Analyses Requested

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

	Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List) A	B	Number of Containers Submitted A	B	Total	Sample Comments
1	04	WG	384435	QALMOOIA EAG-1001366		3-2-05	1310		X	WW	3	15	1	1	2	
2	↓	↓	384436	QALMOOID EAG-1001367		↓	1512		↓	↓			1	1	2	
3			384437	QALPO18 EAG-1001387			1600						1	1	2	
4																
5																
6																
7																
8																
9																
10																

Sampled By (print): Peter Sabyc
Sampler's Signature:
Company: North Jackson

How Shipped? Hand Carrier Fed Ex
Tracking No. 7928 6068 7502

1. Relinquished By: Date 3-2-05 Time 1500
1. Received By: Date Time

Comments: Bill to Jon Cherry @ KMC

2. Relinquished By: Date Time
2. Received By: Date Time

3. Relinquished By: Date Time
3. Received For Lab By: Date 3/3/05 Time 9:00

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COC No. 098624

Page 1 of 1

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Cart: 3
VOA Rack/Tray: M4
Receipt Log No.: 15-4
Project Chemist: JC
Laboratory Project No.: 36162-30

Client Name: NJC
Address: PO Box 218
Mgt MI
Phone: 906 226-6787
Fax:

Project Name: Eagle
Client Project No. / P.O. No.: Eagle
Invoice To: ☐ Client ☒ Other (comments)
Contact/Report To: P Wittala

Analyses Requested

Container Type (corresponds to Container Packing List): AG

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Number of Containers Submitted	Total	Sample Comments
16	WG	384498	1	FBKM001	TM0947-335		0830		X	W	1		EAG-1001397
		384499	2	FBKM002			0940		X		1		EAG-1001398
		384500	3	FBKM003			0950				1		EAG-1001399
		384501	4	FBKM004			1000				1		EAG-1001400
09		384502	5	EQBM001			0830					1	EAG-1001393
		384503	6	EQBM002			0940					1	EAG-1001394
		384504	7	EQBM003			0950					1	EAG-1001395
		384505	8	EQBM004			1000					1	EAG-1001396
04	WG	384506	9	FACM002A			1010				1	1	EAG-1001368
↓	↓	384507	10	FACM002D	↓	↓	1300	↓	↓	↓	1	1	EAG-1001369

Sampled By (print): P. Sabee
Sampler's Signature: P Sabee
Company: NJC

How Shipped? Hand Carrier: Fed Exp
Tracking No.:

Comments: Invoice Jon Cherry KMC

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
P Sabee	3-3-05	1700						
1. Received By	**Date**	**Time**	**2. Received By**	**Date**	**Time**	**3. Received For Lab By**	**Date**	**Time**
						Josh Ogle	03-04-05	08:40

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TriMatrix
Laboratories, Inc.

May 5, 2005

North Jackson Company
Attn: Mr. Peter Sabee
P.O Box 218
Marquette, MI 49855

RE: Eagle
Submittal Number: 36162-31

Dear Mr. Peter Sabee:

Enclosed is a copy of your laboratory report for test samples received by our laboratory on April 22, 2005.

Please note that the test results of the enclosed analyses relate only to the sample(s) as received at the laboratory, and are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC) standards. Qualification of test standards, including sample acceptance requirements, are presented within the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosure(s)

The total number of pages in this report, including this page, is 146.

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Antimony, Total**
ICP Mass Spectrometry (ICP-MS)
WATER EPA-200.8/6020

Qualification:

The post-digestion spike recovery for this sample is outside the method established control limits. The corresponding sample result must be considered estimated.

Explanation for Sample(s) listed below:

Percent Recovery	Control Limits
127%	75- 125

Sample(s) Qualified: 387378 STRES001 EAG- 1001407

Analysis: **Molybdenum, Total**
ICP Mass Spectrometry (ICP-MS)
WATER EPA-200.8/6020

Qualification:

The post-digestion spike recovery for this sample is outside the method established control limits. The corresponding sample result must be considered estimated.

Explanation for Sample(s) listed below:

Percent Recovery	Control Limits
128%	75- 125

Sample(s) Qualified: 387378 STRES001 EAG- 1001407

Note: This document is included as a part of the analytical report for the above referenced project and submittal, and should be retained as a permanent record thereof.

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STATEMENT OF DATA QUALIFICATIONS

Analysis: BOD, (5-Day)
Biochemical Oxygen Demand
WATER SDM 5210B

Qualification:

All positive results reported for this sample must be considered estimated, and all reporting limits considered approximate. The incubator failed to maintain the required 19-21 degree centigrade temperature over the course of the 5-day incubation period.

Sample(s) Qualified:				
	387291	STRMS001	EAG-	1001401
	387292	STRMS002	EAG-	1001402
	387293	STRMS005	EAG-	1001405
	387294	DUPS002	EAG-	1001414
	387295	FBKS001	EAG-	1001417
	387373	FBKS002	EAG-	1001418
	387375	STRMS004	EAG-	1001404
	387376	STRWS001	EAG-	1001406
	387377	STRMS003	EAG-	1001403
	387378	STRES001	EAG-	1001407

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Coliform, Total**
Enzyme Substrate Test (MPN)
WATER SM 9223B

Qualification:

Analysis performed beyond established USEPA maximum allowable parameter hold time. All positive results must be considered estimated, and all non-detectable results must be considered approximate.

Explanation for Sample(s) listed below:

Sample received with insufficient time to complete analysis with in hold.

Sample(s) Qualified:	387293	STRMS005	EAG-	1001405

Analysis: **Volatile Organics**
Volatiles Purge & Trap-GC/MS
WATER USEPA-8260B

Qualification:

Surrogate spike result(s) for this sample and analysis had a percent recovery outside the upper control limit for this method and matrix. Any positive results must be considered estimated.

Sample(s) Qualified:	387373	FBKS002	EAG-	1001418
	387375	STRMS004	EAG-	1001404
	387377	STRMS003	EAG-	1001403
	387378	STRES001	EAG-	1001407

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CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

3.35

Sample(s) Narrated:	387373	FBKS002	EAG-	1001418

Explanation for Sample(s) listed below:

4.73

Sample(s) Narrated:	387295	FBKS001	EAG-	1001417

Explanation for Sample(s) listed below:

5.79

Sample(s) Narrated:	387121	YDRMS002	EAG-	1001409

Explanation for Sample(s) listed below:

5.87

Sample(s) Narrated:	387122	DUPS001	EAG-	1001413

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CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

5.88

Sample(s) Narrated:	387872	YDRMS003	EAG-	1001410

Explanation for Sample(s) listed below:

6.19

Sample(s) Narrated:	387291	STRMS001	EAG-	1001401

Explanation for Sample(s) listed below:

6.25

Sample(s) Narrated:	387292	STRMS002	EAG-	1001402

Explanation for Sample(s) listed below:

6.68

Sample(s) Narrated:	387376	STRWS001	EAG-	1001406

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CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

6.70

Sample(s) Narrated:	387294	DUPS002	EAG-	1001414

Explanation for Sample(s) listed below:

6.76

Sample(s) Narrated:	387375	STRMS004	EAG-	1001404

Explanation for Sample(s) listed below:

6.82

Sample(s) Narrated:	387293	STRMS005	EAG-	1001405

Explanation for Sample(s) listed below:

6.96

Sample(s) Narrated:	387377	STRMS003	EAG-	1001403

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CASE NARRATIVE

Analysis: **Color (Apparent)**
Colorimetric, Platinum-Cobalt
WATER USEPA-110.2

Narrative:

The "A.C.U." reported in the units column for this test stands for Apparent Color Units. Color is pH dependent, its value increasing proportionally with pH. As such the method requires the pH of the sample be tested, and reported with the result of the color analysis. The pH of the sample was:

Explanation for Sample(s) listed below:

7.35

Sample(s) Narrated:	387378	STRES001	EAG-	1001407

Explanation for Sample(s) listed below:

7.52

Sample(s) Narrated:	387594	STRES002	EAG-	1001408

Explanation for Sample(s) listed below:

7.54

Sample(s) Narrated:	387593	CDRMS004	EAG-	1001412

Explanation for Sample(s) listed below:

7.74

Sample(s) Narrated:	387592	CDRAS002	EAG-	1001411

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CASE NARRATIVE

Analysis: **Residue, Suspended**
Residue-Gravimetric, Dried @ 103-105*C
WATER 160.2/SM 2540 D

Narrative:

The precision result between the sample and its duplicate was out of control when compared to the precision window. Because the amounts found in both analyses were less than five times the reporting limit, no qualifications are necessary.

Sample(s) Narrated:	387594	STRES002	EAG-	1001408

Analysis: **Chromium, Total**
ICP Mass Spectrometry (ICP-MS)
WATER EPA-200.8/6020

Narrative:

The quantitated values of the isotopes monitored for this analyte exceeded a difference of 25%. The lower of the two values has been reported.

Sample(s) Narrated:	387291	STRMS001	EAG-	1001401
	387292	STRMS002	EAG-	1001402
	387293	STRMS005	EAG-	1001405
	387294	DUPS002	EAG-	1001414
	387592	CDRAS002	EAG-	1001411
	387593	CDRMS004	EAG-	1001412
	387594	STRES002	EAG-	1001408

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CASE NARRATIVE

Analysis: **Nickel, Total**
ICP Mass Spectrometry (ICP-MS)
WATER EPA-200.8/6020

Narrative:

The quantitated values of the isotopes monitored for this analyte exceeded a difference of 25%. The lower of the two values has been reported.

Sample(s) Narrated:				
	387375	STRMS004	EAG-	1001404
	387376	STRWS001	EAG-	1001406
	387377	STRMS003	EAG-	1001403
	387378	STRES001	EAG-	1001407
	387592	CDRAS002	EAG-	1001411
	387593	CDRMS004	EAG-	1001412
	387594	STRES002	EAG-	1001408

Analysis: **Nitrogen, Nitrate**
Colorimetric, Auto-Cadmium Reduction
WATER 353.2/4500 NO3F

Narrative:

Nitrite Nitrogen was analyzed on this sample within the mandated USEPA 48 hour holding time. The sample was also chemically preserved and later analyzed for Nitrate+Nitrite Nitrogen within the 28 day USEPA mandated hold time. Nitrate Nitrogen was calculated by subtraction (NO3+NO2-NO2=NO3).

Sample(s) Narrated:				
	387121	YDRMS002	EAG-	1001409
	387122	DUPS001	EAG-	1001413

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CASE NARRATIVE

Analysis: **BOD, (5-Day)**
Biochemical Oxygen Demand
WATER SDM 5210B

Narrative:

The reported Biochemical Oxygen Demand result for this sample was calculated on an oxygen depletion of <2.0 mg/l

Sample(s) Narrated:				
	387121	YDRMS002	EAG-	1001409
	387122	DUPS001	EAG-	1001413
	387292	STRMS002	EAG-	1001402
	387294	DUPS002	EAG-	1001414
	387375	STRMS004	EAG-	1001404
	387376	STRWS001	EAG-	1001406
	387377	STRMS003	EAG-	1001403
	387378	STRES001	EAG-	1001407

Analysis: **Coliform, Total**
Enzyme Substrate Test (MPN)
WATER SM 9223B

Narrative:

Total coliform bacterial colonies were detected in this sample. A confirmation procedure for the presence of E. coli was NEGATIVE.

Sample(s) Narrated:				
	387121	YDRMS002	EAG-	1001409
	387291	STRMS001	EAG-	1001401
	387292	STRMS002	EAG-	1001402
	387293	STRMS005	EAG-	1001405
	387294	DUPS002	EAG-	1001414
	387375	STRMS004	EAG-	1001404
	387376	STRWS001	EAG-	1001406
	387378	STRES001	EAG-	1001407
	387592	CDRAS002	EAG-	1001411
	387594	STRES002	EAG-	1001408

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CASE NARRATIVE

Analysis: **Coliform, Total**
Enzyme Substrate Test (MPN)
WATER SM 9223B

Narrative:

Total coliform bacterial colonies were detected in this sample. A confirmation procedure for the presence of E. coli was POSITIVE.

Sample(s) Narrated:				
	387122	DUPS001	EAG-	1001413
	387377	STRMS003	EAG-	1001403
	387593	CDRMS004	EAG-	1001412
	387872	YDRMS003	EAG-	1001410

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: North Jackson Company
Project: Eagle

Sampled: 04/12/05 @ 12:15
Sampler: R. Eagle
Received: 04/13/05 @ 08:50

Submittal #: 36162-31
Submittal: April 2005 Surface Waters

Sample ID: YDRMS002 EAG- 1001409
Sample #: 387121
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	5.0	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
Chloride	1.3	1.0	mg/L	04/14/05	JLB	325.2/4500-CL E
Fluoride	<0.10	0.10	mg/L	04/20/05	SAJ	SM 4500 F-C
Nitrogen, Ammonia	<0.02	0.02	mg/L	04/20/05	GEH	350.1/4500 NH3G
Nitrogen, Nitrate	0.08	0.05	mg/L	04/15/05	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	04/14/05	HLB	354.1/4500 NO2B
Sulfate	<1.0	1.0	mg/L	04/19/05	JLB	EPA-375.4/9038
Sulfide	<1.0	1.0	mg/L	04/16/05	HLB	376.1/4500 S2-F
Residue,Dissolved @ 180*C	20	20	mg/L	04/14/05	GEH	160.1/SM 2540 C
Residue, Suspended	<3	3	mg/L	04/15/05	GEH	160.2/SM 2540 D
Alkalinity, Total	5.0	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
Chemical Oxygen Demand	32	5.0	mg/L	04/18/05	JMJ	410.4/SM 5220 D
Carbon, Dissolved Organic	12	1.0	mg/L	04/29/05	SAJ	SDM 5310 D
Carbon, Total Organic	12	1.0	mg/L	04/15/05	SAJ	EPA 415.1/5310D
BOD, (5-Day)	1.9	1.0	mg/L	04/14/05	JLB	SDM 5210B
Coliform, Total	280	2	col/100mL	04/13/05	HLB	SM 9223B
Color (Apparent)	100	5	A.C.U.	04/13/05	GEH	USEPA-110.2
Turbidity	1.4	1.0	NTU	04/14/05	HLB	USEPA-180.1
SGT-HEM;Nonpolar Material	<10	10	mg/L	04/15/05	JMC	USEPA-1664A
Aluminum, Total	150	50	ug/L	04/15/05	KLVM	EPA-200.7/6010B
Iron, Total	290	20	ug/L	04/21/05	JLTR	EPA-200.7/6010B
Lithium, Total	<10	10	ug/L	04/15/05	KLVM	EPA-200.7/6010B
Antimony, Total	<2.0	2.0	ug/L	04/20/05	DSC	EPA-200.8/6020
Arsenic, Total	<1.0	1.0	ug/L	04/20/05	DSC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	04/20/05	DSC	EPA-200.8/6020
Beryllium, Total	<1.0	1.0	ug/L	04/20/05	DSC	EPA-200.8/6020
Boron, Total	<50	50	ug/L	04/20/05	DSC	EPA-200.8/6020
Cadmium, Total	<0.2	0.2	ug/L	04/20/05	DSC	EPA-200.8/6020
Chromium, Total	<1.0	1.0	ug/L	04/20/05	DSC	EPA-200.8/6020
Cobalt, Total	<10	10	ug/L	04/20/05	DSC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	04/20/05	DSC	EPA-200.8/6020
Lead, Total	<1.0	1.0	ug/L	04/20/05	DSC	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: North Jackson Company
Project: Eagle

Sampled: 04/12/05 @ 12:15
Sampler: R. Eagle
Received: 04/13/05 @ 08:50

Submittal #: 36162-31
Submittal: April 2005 Surface Waters

Sample ID: YDRMS002 EAG- 1001409
Sample #: 387121
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Manganese, Total	<10	10	ug/L	04/20/05	DSC	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	04/20/05	DSC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	04/20/05	DSC	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	04/20/05	DSC	EPA-200.8/6020
Silver, Total	<0.2	0.2	ug/L	04/20/05	DSC	EPA-200.8/6020
Zinc, Total	<10	10	ug/L	04/20/05	DSC	EPA-200.8/6020
Calcium, Dissolved	2.7	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Magnesium, Dissolved	0.64	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	05/03/05	DSC	EPA-200.7/6010B

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: North Jackson Company
Project: Eagle

Submittal #: 36162-31
Submittal: April 2005 Surface Waters

Sample ID: YDRMS002 EAG- 1001409
Sample #: 387121
Matrix: Surface Water
Unit: ug/L

Sampled: 04/12/05 @ 12:15
Sampler: R. Eagle
Received: 04/13/05 @ 08:50
Prepared: n/a
Prep. Method: n/a
Analyzed: 04/16/05 by DLVV
Anal. Method: USEPA-8260B
QC Batch: 105463 -116
Anal. Batch: 230861
Percent Solids: n/a
Dilution Factor: 1

CAS Number	Volatile Organics USEPA Method 8260B	Analytical Result	Reporting Limit
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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ANALYTICAL REPORT

Client: North Jackson Company
Project: Eagle

Sampled: 04/12/05 @ 00:00
Sampler: R. Eagle
Received: 04/13/05 @ 08:50

Submittal #: 36162-31
Submittal: April 2005 Surface Waters

Sample ID: DUPS001 EAG- 1001413
Sample #: 387122
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	4.5	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	04/14/05	JLB	325.2/4500-CL E
Fluoride	<0.10	0.10	mg/L	04/20/05	SAJ	SM 4500 F-C
Nitrogen, Ammonia	<0.02	0.02	mg/L	04/20/05	GEH	350.1/4500 NH3G
Nitrogen, Nitrate	0.08	0.05	mg/L	04/15/05	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	04/14/05	HLB	354.1/4500 NO2B
Sulfate	<1.0	1.0	mg/L	04/19/05	JLB	EPA-375.4/9038
Sulfide	<1.0	1.0	mg/L	04/16/05	HLB	376.1/4500 S2-F
Residue,Dissolved @ 180*C	23	20	mg/L	04/14/05	GEH	160.1/SM 2540 C
Residue, Suspended	<3	3	mg/L	04/15/05	GEH	160.2/SM 2540 D
Alkalinity, Total	4.5	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
Chemical Oxygen Demand	32	5.0	mg/L	04/18/05	JMJ	410.4/SM 5220 D
Carbon, Dissolved Organic	13	1.0	mg/L	04/29/05	SAJ	SDM 5310 D
Carbon, Total Organic	11	1.0	mg/L	04/15/05	SAJ	EPA 415.1/5310D
BOD, (5-Day)	1.4	1.0	mg/L	04/14/05	JLB	SDM 5210B
Coliform, Total	170	2	col/100mL	04/13/05	HLB	SM 9223B
Color (Apparent)	100	5	A.C.U.	04/13/05	GEH	USEPA-110.2
Turbidity	1.1	1.0	NTU	04/14/05	HLB	USEPA-180.1
SGT-HEM;Nonpolar Material	<10	10	mg/L	04/15/05	JMJ	USEPA-1664A
Aluminum, Total	150	50	ug/L	04/15/05	KLVM	EPA-200.7/6010B
Iron, Total	280	20	ug/L	04/21/05	JLTR	EPA-200.7/6010B
Lithium, Total	<10	10	ug/L	04/15/05	KLVM	EPA-200.7/6010B
Antimony, Total	<2.0	2.0	ug/L	04/20/05	DSC	EPA-200.8/6020
Arsenic, Total	<1.0	1.0	ug/L	04/20/05	DSC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	04/20/05	DSC	EPA-200.8/6020
Beryllium, Total	<1.0	1.0	ug/L	04/20/05	DSC	EPA-200.8/6020
Boron, Total	<50	50	ug/L	04/20/05	DSC	EPA-200.8/6020
Cadmium, Total	<0.2	0.2	ug/L	04/20/05	DSC	EPA-200.8/6020
Chromium, Total	<1.0	1.0	ug/L	04/20/05	DSC	EPA-200.8/6020
Cobalt, Total	<10	10	ug/L	04/20/05	DSC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	04/20/05	DSC	EPA-200.8/6020
Lead, Total	<1.0	1.0	ug/L	04/20/05	DSC	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: North Jackson Company
Project: Eagle

Sampled: 04/12/05 @ 00:00
Sampler: R. Eagle
Received: 04/13/05 @ 08:50

Submittal #: 36162-31
Submittal: April 2005 Surface Waters

Sample ID: DUPS001 EAG- 1001413
Sample #: 387122
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Manganese, Total	<10	10	ug/L	04/20/05	DSC	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	04/20/05	DSC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	04/20/05	DSC	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	04/20/05	DSC	EPA-200.8/6020
Silver, Total	<0.2	0.2	ug/L	04/20/05	DSC	EPA-200.8/6020
Zinc, Total	<10	10	ug/L	04/20/05	DSC	EPA-200.8/6020
Calcium, Dissolved	2.6	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Magnesium, Dissolved	0.61	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	05/03/05	DSC	EPA-200.7/6010B

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ANALYTICAL REPORT

Client:	North Jackson Company	Sampled:	04/12/05 @ 00:00
Project:	Eagle	Sampler:	R. Eagle
		Received:	04/13/05 @ 08:50
		Prepared:	n/a
Submittal #:	36162-31	Prep. Method:	n/a
Submittal:	April 2005 Surface Waters	Analyzed:	04/16/05 by DLVV
		Anal. Method:	USEPA-8260B
Sample ID:	DUPS001 EAG- 1001413	QC Batch:	105463 -116
Sample #:	387122	Anal. Batch:	230861
Matrix:	Surface Water	Percent Solids:	n/a
Unit:	ug/L	Dilution Factor:	1

CAS Number	Volatile Organics USEPA Method 8260B	Analytical Result	Reporting Limit
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: North Jackson Company
Project: Eagle

Sampled: 04/13/05 @ 13:00
Sampler: P.S./R.E.
Received: 04/14/05 @ 08:50

Submittal #: 36162-31
Submittal: April 2005 Surface Waters

Sample ID: STRMS001 EAG- 1001401
Sample #: 387291
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	11	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
	Chloride	1.5	1.0	mg/L	04/19/05	JLB	325.2/4500-CL E
	Fluoride	<0.10	0.10	mg/L	04/20/05	SAJ	SM 4500 F-C
	Nitrogen, Ammonia	<0.02	0.02	mg/L	04/20/05	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	04/15/05	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	04/15/05	HLB	USEPA-353.2
	Sulfate	<1.0	1.0	mg/L	04/19/05	JLB	EPA-375.4/9038
	Sulfide	<1.0	1.0	mg/L	04/16/05	HLB	376.1/4500 S2-F
	Residue,Dissolved @ 180*C	34	20	mg/L	04/15/05	GEH	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	04/15/05	GEH	160.2/SM 2540 D
	Alkalinity, Total	11	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
	Chemical Oxygen Demand	21	5.0	mg/L	04/18/05	JMJ	410.4/SM 5220 D
	Carbon, Dissolved Organic	7.9	1.0	mg/L	04/29/05	SAJ	SDM 5310 D
	Carbon, Total Organic	7.4	1.0	mg/L	04/15/05	SAJ	EPA 415.1/5310D
*	BOD, (5-Day)	<1.0	1.0	mg/L	04/14/05	JLB	SDM 5210B
	Coliform, Total	500	2	col/100mL	04/14/05	HLB	SM 9223B
	Color (Apparent)	80	10	A.C.U.	04/14/05	GEH	USEPA-110.2
	Turbidity	1.4	1.0	NTU	04/15/05	HLB	USEPA-180.1
	SGT-HEM;Nonpolar Material	<10	10	mg/L	04/15/05	JMJ	USEPA-1664A
	Aluminum, Total	<50	50	ug/L	04/30/05	DSC	EPA-200.7/6010B
	Iron, Total	390	20	ug/L	04/22/05	JMF	EPA-200.7/6010B
	Lithium, Total	<10	10	ug/L	04/20/05	JLTR	EPA-200.7/6010B
	Antimony, Total	<2.0	2.0	ug/L	04/21/05	DSC	EPA-200.8/6020
	Arsenic, Total	<1.0	1.0	ug/L	04/21/05	DSC	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	04/21/05	DSC	EPA-200.8/6020
	Beryllium, Total	<1.0	1.0	ug/L	04/22/05	DSC	EPA-200.8/6020
	Boron, Total	<50	50	ug/L	04/22/05	DSC	EPA-200.8/6020
	Cadmium, Total	<0.2	0.2	ug/L	04/21/05	DSC	EPA-200.8/6020
	Chromium, Total	<1.0	1.0	ug/L	04/21/05	DSC	EPA-200.8/6020
	Cobalt, Total	<10	10	ug/L	04/21/05	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	04/21/05	DSC	EPA-200.8/6020
	Lead, Total	<1.0	1.0	ug/L	04/21/05	DSC	EPA-200.8/6020

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: North Jackson Company
Project: Eagle

Sampled: 04/13/05 @ 13:00
Sampler: P.S./R.E.
Received: 04/14/05 @ 08:50

Submittal #: 36162-31
Submittal: April 2005 Surface Waters

Sample ID: STRMS001 EAG- 1001401
Sample #: 387291
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Manganese, Total	<10	10	ug/L	04/21/05	DSC	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	04/21/05	DSC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	04/21/05	DSC	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	04/21/05	DSC	EPA-200.8/6020
Silver, Total	<0.2	0.2	ug/L	04/22/05	DSC	EPA-200.8/6020
Zinc, Total	<10	10	ug/L	04/21/05	DSC	EPA-200.8/6020
Calcium, Dissolved	3.4	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Magnesium, Dissolved	0.82	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Sodium, Dissolved	0.98	0.50	mg/L	05/03/05	DSC	EPA-200.7/6010B

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client:	North Jackson Company	Sampled:	04/13/05 @ 13:00
Project:	Eagle	Sampler:	P.S./R.E.
		Received:	04/14/05 @ 08:50
Submittal #:	36162-31	Prepared:	n/a
Submittal:	April 2005 Surface Waters	Prep. Method:	n/a
		Analyzed:	04/16/05 by DLVV
		Anal. Method:	USEPA-8260B
Sample ID:	STRMS001 EAG- 1001401	QC Batch:	105463 -116
Sample #:	387291	Anal. Batch:	230861
Matrix:	Surface Water	Percent Solids:	n/a
Unit:	ug/L	Dilution Factor:	1

CAS Number	Volatile Organics USEPA Method 8260B	Analytical Result	Reporting Limit
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: North Jackson Company
Project: Eagle

Sampled: 04/13/05 @ 11:00
Sampler: P.S./R.E.
Received: 04/14/05 @ 08:50

Submittal #: 36162-31
Submittal: April 2005 Surface Waters

Sample ID: STRMS002 EAG- 1001402
Sample #: 387292
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	26	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	04/19/05	JLB	325.2/4500-CL E
	Fluoride	<0.10	0.10	mg/L	04/20/05	SAJ	SM 4500 F-C
	Nitrogen, Ammonia	<0.02	0.02	mg/L	04/20/05	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	04/15/05	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	04/15/05	HLB	USEPA-353.2
	Sulfate	<1.0	1.0	mg/L	04/19/05	JLB	EPA-375.4/9038
	Sulfide	<1.0	1.0	mg/L	04/16/05	HLB	376.1/4500 S2-F
	Residue,Dissolved @ 180*C	38	20	mg/L	04/15/05	GEH	160.1/SM 2540 C
	Residue, Suspended	3	3	mg/L	04/15/05	GEH	160.2/SM 2540 D
	Alkalinity, Total	26	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
	Chemical Oxygen Demand	25	5.0	mg/L	04/18/05	JMJ	410.4/SM 5220 D
	Carbon, Dissolved Organic	9.5	1.0	mg/L	04/29/05	SAJ	SDM 5310 D
	Carbon, Total Organic	8.5	1.0	mg/L	04/15/05	SAJ	EPA 415.1/5310D
*	BOD, (5-Day)	1.0	1.0	mg/L	04/14/05	JLB	SDM 5210B
	Coliform, Total	900	2	col/100mL	04/14/05	HLB	SM 9223B
	Color (Apparent)	90	10	A.C.U.	04/14/05	GEH	USEPA-110.2
	Turbidity	1.7	1.0	NTU	04/15/05	HLB	USEPA-180.1
	SGT-HEM;Nonpolar Material	<10	10	mg/L	04/15/05	JMJ	USEPA-1664A
	Aluminum, Total	<50	50	ug/L	04/30/05	DSC	EPA-200.7/6010B
	Iron, Total	290	20	ug/L	04/22/05	JMF	EPA-200.7/6010B
	Lithium, Total	<10	10	ug/L	04/20/05	JLTR	EPA-200.7/6010B
	Antimony, Total	<2.0	2.0	ug/L	04/21/05	DSC	EPA-200.8/6020
	Arsenic, Total	<1.0	1.0	ug/L	04/21/05	DSC	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	04/21/05	DSC	EPA-200.8/6020
	Beryllium, Total	<1.0	1.0	ug/L	04/22/05	DSC	EPA-200.8/6020
	Boron, Total	<50	50	ug/L	04/22/05	DSC	EPA-200.8/6020
	Cadmium, Total	<0.2	0.2	ug/L	04/21/05	DSC	EPA-200.8/6020
	Chromium, Total	<1.0	1.0	ug/L	04/21/05	DSC	EPA-200.8/6020
	Cobalt, Total	<10	10	ug/L	04/21/05	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	04/21/05	DSC	EPA-200.8/6020
	Lead, Total	<1.0	1.0	ug/L	04/21/05	DSC	EPA-200.8/6020

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: North Jackson Company
Project: Eagle

Sampled: 04/13/05 @ 11:00
Sampler: P.S./R.E.
Received: 04/14/05 @ 08:50

Submittal #: 36162-31
Submittal: April 2005 Surface Waters

Sample ID: STRMS002 EAG- 1001402
Sample #: 387292
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Manganese, Total	14	10	ug/L	04/21/05	DSC	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	04/21/05	DSC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	04/21/05	DSC	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	04/21/05	DSC	EPA-200.8/6020
Silver, Total	<0.2	0.2	ug/L	04/22/05	DSC	EPA-200.8/6020
Zinc, Total	<10	10	ug/L	04/21/05	DSC	EPA-200.8/6020
Calcium, Dissolved	4.7	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Magnesium, Dissolved	1.1	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Sodium, Dissolved	0.51	0.50	mg/L	05/03/05	DSC	EPA-200.7/6010B

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ANALYTICAL REPORT

Client:	North Jackson Company	Sampled:	04/13/05 @ 11:00
Project:	Eagle	Sampler:	P.S./R.E.
		Received:	04/14/05 @ 08:50
		Prepared:	n/a
Submittal #:	36162-31	Prep. Method:	n/a
Submittal:	April 2005 Surface Waters	Analyzed:	04/16/05 by DLVV
		Anal. Method:	USEPA-8260B
Sample ID:	STRMS002 EAG- 1001402	QC Batch:	105463 -116
Sample #:	387292	Anal. Batch:	230861
Matrix:	Surface Water	Percent Solids:	n/a
Unit:	ug/L	Dilution Factor:	1

CAS Number	Volatile Organics USEPA Method 8260B	Analytical Result	Reporting Limit
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: North Jackson Company
Project: Eagle

Sampled: 04/13/05 @ 10:00
Sampler: P.S./R.E.
Received: 04/14/05 @ 08:30

Submittal #: 36162-31
Submittal: April 2005 Surface Waters

Sample ID: STRMS005 EAG- 1001405
Sample #: 387293
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	31	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	04/19/05	JLB	325.2/4500-CL E
	Fluoride	<0.10	0.10	mg/L	04/20/05	SAJ	SM 4500 F-C
	Nitrogen, Ammonia	<0.02	0.02	mg/L	04/20/05	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	0.06	0.05	mg/L	04/15/05	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	04/15/05	HLB	USEPA-353.2
	Sulfate	<1.0	1.0	mg/L	04/19/05	JLB	EPA-375.4/9038
	Sulfide	<1.0	1.0	mg/L	04/16/05	HLB	376.1/4500 S2-F
	Residue,Dissolved @ 180*C	64	20	mg/L	04/15/05	GEH	160.1/SM 2540 C
	Residue, Suspended	5	3	mg/L	04/15/05	GEH	160.2/SM 2540 D
	Alkalinity, Total	31	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
	Chemical Oxygen Demand	23	5.0	mg/L	04/18/05	JMJ	410.4/SM 5220 D
	Carbon, Dissolved Organic	8.8	1.0	mg/L	04/29/05	SAJ	SDM 5310 D
	Carbon, Total Organic	7.8	1.0	mg/L	04/15/05	SAJ	EPA 415.1/5310D
*	BOD, (5-Day)	<1.0	1.0	mg/L	04/14/05	JLB	SDM 5210B
*	Coliform, Total	300	2	col/100mL	04/14/05	HLB	SM 9223B
	Color (Apparent)	60	5	A.C.U.	04/14/05	GEH	USEPA-110.2
	Turbidity	2.9	1.0	NTU	04/15/05	HLB	USEPA-180.1
	SGT-HEM;Nonpolar Material	<10	10	mg/L	04/15/05	JMJ	USEPA-1664A
	Aluminum, Total	160	50	ug/L	04/30/05	DSC	EPA-200.7/6010B
	Iron, Total	250	20	ug/L	04/22/05	JMF	EPA-200.7/6010B
	Lithium, Total	<10	10	ug/L	04/20/05	JLTR	EPA-200.7/6010B
	Antimony, Total	<2.0	2.0	ug/L	04/21/05	DSC	EPA-200.8/6020
	Arsenic, Total	<1.0	1.0	ug/L	04/21/05	DSC	EPA-200.8/6020
	Barium, Total	10	10	ug/L	04/21/05	DSC	EPA-200.8/6020
	Beryllium, Total	<1.0	1.0	ug/L	04/22/05	DSC	EPA-200.8/6020
	Boron, Total	<50	50	ug/L	04/22/05	DSC	EPA-200.8/6020
	Cadmium, Total	<0.2	0.2	ug/L	04/21/05	DSC	EPA-200.8/6020
	Chromium, Total	<1.0	1.0	ug/L	04/21/05	DSC	EPA-200.8/6020
	Cobalt, Total	<10	10	ug/L	04/21/05	DSC	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	04/21/05	DSC	EPA-200.8/6020
	Lead, Total	<1.0	1.0	ug/L	04/21/05	DSC	EPA-200.8/6020

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: North Jackson Company
Project: Eagle

Sampled: 04/13/05 @ 10:00
Sampler: P.S./R.E.
Received: 04/14/05 @ 08:50

Submittal #: 36162-31
Submittal: April 2005 Surface Waters

Sample ID: STRMS005 EAG- 1001405
Sample #: 387293
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Manganese, Total	19	10	ug/L	04/21/05	DSC	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	04/21/05	DSC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	04/21/05	DSC	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	04/21/05	DSC	EPA-200.8/6020
Silver, Total	<0.2	0.2	ug/L	04/22/05	DSC	EPA-200.8/6020
Zinc, Total	<10	10	ug/L	04/21/05	DSC	EPA-200.8/6020
Calcium, Dissolved	10	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Potassium, Dissolved	0.52	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Magnesium, Dissolved	2.0	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Sodium, Dissolved	0.80	0.50	mg/L	05/03/05	DSC	EPA-200.7/6010B

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ANALYTICAL REPORT

Client:	North Jackson Company	Sampled:	04/13/05 @ 10:00
Project:	Eagle	Sampler:	P.S./R.E.
		Received:	04/14/05 @ 08:50
		Prepared:	n/a
Submittal #:	36162-31	Prep. Method:	n/a
Submittal:	April 2005 Surface Waters	Analyzed:	04/16/05 by DLVV
		Anal. Method:	USEPA-8260B
Sample ID:	STRMS005 EAG- 1001405	QC Batch:	105463 -116
Sample #:	387293	Anal. Batch:	230861
Matrix:	Surface Water	Percent Solids:	n/a
Unit:	ug/L	Dilution Factor:	1

CAS Number	Volatile Organics USEPA Method 8260B	Analytical Result	Reporting Limit
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: North Jackson Company
Project: Eagle

Sampled: 04/13/05 @ 00:00
Sampler: P.S./R.E.
Received: 04/14/05 @ 08:50

Submittal #: 36162-31
Submittal: April 2005 Surface Waters

Sample ID: DUPS002 EAG- 1001414
Sample #: 387294
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	24	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	04/19/05	JLB	325.2/4500-CL E
Fluoride	<0.10	0.10	mg/L	04/20/05	SAJ	SM 4500 F-C
Nitrogen, Ammonia	<0.02	0.02	mg/L	04/20/05	GEH	350.1/4500 NH3G
Nitrogen, Nitrate	<0.05	0.05	mg/L	04/15/05	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	04/15/05	HLB	USEPA-353.2
Sulfate	<1.0	1.0	mg/L	04/19/05	JLB	EPA-375.4/9038
Sulfide	<1.0	1.0	mg/L	04/16/05	HLB	376.1/4500 S2-F
Residue,Dissolved @ 180*C	45	20	mg/L	04/15/05	GEH	160.1/SM 2540 C
Residue, Suspended	<3	3	mg/L	04/15/05	GEH	160.2/SM 2540 D
Alkalinity, Total	24	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
Chemical Oxygen Demand	25	5.0	mg/L	04/18/05	JMJ	410.4/SM 5220 D
Carbon, Dissolved Organic	9.6	1.0	mg/L	04/29/05	SAJ	SDM 5310 D
Carbon, Total Organic	8.3	1.0	mg/L	04/15/05	SAJ	EPA 415.1/5310D
* BOD, (5-Day)	1.4	1.0	mg/L	04/14/05	JLB	SDM 5210B
Coliform, Total	240	2	col/100mL	04/14/05	HLB	SM 9223B
Color (Apparent)	90	10	A.C.U.	04/14/05	GEH	USEPA-110.2
Turbidity	2.2	1.0	NTU	04/15/05	HLB	USEPA-180.1
SGT-HEM;Nonpolar Material	<10	10	mg/L	04/15/05	JMJ	USEPA-1664A
Aluminum, Total	63	50	ug/L	05/03/05	DSC	EPA-200.7/6010B
Iron, Total	290	20	ug/L	04/22/05	JMF	EPA-200.7/6010B
Lithium, Total	<10	10	ug/L	04/20/05	JLTR	EPA-200.7/6010B
Antimony, Total	<2.0	2.0	ug/L	04/21/05	DSC	EPA-200.8/6020
Arsenic, Total	<1.0	1.0	ug/L	04/21/05	DSC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	04/21/05	DSC	EPA-200.8/6020
Beryllium, Total	<1.0	1.0	ug/L	04/22/05	DSC	EPA-200.8/6020
Boron, Total	<50	50	ug/L	04/22/05	DSC	EPA-200.8/6020
Cadmium, Total	<0.2	0.2	ug/L	04/21/05	DSC	EPA-200.8/6020
Chromium, Total	<1.0	1.0	ug/L	04/21/05	DSC	EPA-200.8/6020
Cobalt, Total	<10	10	ug/L	04/21/05	DSC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	04/21/05	DSC	EPA-200.8/6020
Lead, Total	<1.0	1.0	ug/L	04/21/05	DSC	EPA-200.8/6020

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: North Jackson Company
Project: Eagle

Sampled: 04/13/05 @ 00:00
Sampler: P.S./R.E.
Received: 04/14/05 @ 08:50

Submittal #: 36162-31
Submittal: April 2005 Surface Waters

Sample ID: DUPS002 EAG- 1001414
Sample #: 387294
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Manganese, Total	14	10	ug/L	04/21/05	DSC	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	04/21/05	DSC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	04/21/05	DSC	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	04/21/05	DSC	EPA-200.8/6020
Silver, Total	<0.2	0.2	ug/L	04/22/05	DSC	EPA-200.8/6020
Zinc, Total	<10	10	ug/L	04/21/05	DSC	EPA-200.8/6020
Calcium, Dissolved	4.8	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Potassium, Dissolved	0.53	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Magnesium, Dissolved	1.1	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Sodium, Dissolved	0.53	0.50	mg/L	05/03/05	DSC	EPA-200.7/6010B

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ANALYTICAL REPORT

Client:	North Jackson Company	Sampled:	04/13/05 @ 00:00
Project:	Eagle	Sampler:	P.S./R.E.
		Received:	04/14/05 @ 08:50
		Prepared:	n/a
Submittal #:	36162-31	Prep. Method:	n/a
Submittal:	April 2005 Surface Waters	Analyzed:	04/16/05 by DLVV
		Anal. Method:	USEPA-8260B
Sample ID:	DUPS002 EAG- 1001414	QC Batch:	105463 -116
Sample #:	387294	Anal. Batch:	230861
Matrix:	Surface Water	Percent Solids:	n/a
Unit:	ug/L	Dilution Factor:	1

CAS Number	Volatile Organics USEPA Method 8260B	Analytical Result	Reporting Limit
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: North Jackson Company
Project: Eagle

Sampled: 04/13/05 @ 10:30
Sampler: P.S./R.E.
Received: 04/14/05 @ 08:50

Submittal #: 36162-31
Submittal: April 2005 Surface Waters

Sample ID: FBKS001 EAG- 1001417
Sample #: 387295
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	<2.0	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	04/19/05	JLB	325.2/4500-CL E
Fluoride	<0.10	0.10	mg/L	04/20/05	SAJ	SM 4500 F-C
Nitrogen, Ammonia	<0.02	0.02	mg/L	04/20/05	GEH	350.1/4500 NH3G
Nitrogen, Nitrate	<0.05	0.05	mg/L	04/15/05	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	04/15/05	HLB	USEPA-353.2
Sulfate	<1.0	1.0	mg/L	04/19/05	JLB	EPA-375.4/9038
Sulfide	<1.0	1.0	mg/L	04/16/05	HLB	376.1/4500 S2-F
Residue,Dissolved @ 180*C	<20	20	mg/L	04/15/05	GEH	160.1/SM 2540 C
Residue, Suspended	<3	3	mg/L	04/15/05	GEH	160.2/SM 2540 D
Alkalinity, Total	<2.0	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
Chemical Oxygen Demand	<5.0	5.0	mg/L	04/18/05	JMJ	410.4/SM 5220 D
Carbon, Dissolved Organic	<1.0	1.0	mg/L	04/29/05	SAJ	SDM 5310 D
Carbon, Total Organic	<1.0	1.0	mg/L	04/15/05	SAJ	EPA 415.1/5310D
* BOD, (5-Day)	<1.0	1.0	mg/L	04/14/05	JLB	SDM 5210B
Coliform, Total	<2	2	col/100mL	04/14/05	HLB	SM 9223B
Color (Apparent)	<5	5	A.C.U.	04/14/05	GEH	USEPA-110.2
Turbidity	<1.0	1.0	NTU	04/15/05	HLB	USEPA-180.1
SGT-HEM;Nonpolar Material	<10	10	mg/L	04/15/05	JMJ	USEPA-1664A
Aluminum, Total	<50	50	ug/L	05/03/05	DSC	EPA-200.7/6010B
Iron, Total	<20	20	ug/L	04/22/05	JMF	EPA-200.7/6010B
Lithium, Total	<10	10	ug/L	04/20/05	JLTR	EPA-200.7/6010B
Antimony, Total	<2.0	2.0	ug/L	04/21/05	DSC	EPA-200.8/6020
Arsenic, Total	<1.0	1.0	ug/L	04/21/05	DSC	EPA-200.8/6020
Barium, Total	<10	10	ug/L	04/21/05	DSC	EPA-200.8/6020
Beryllium, Total	<1.0	1.0	ug/L	04/22/05	DSC	EPA-200.8/6020
Boron, Total	<50	50	ug/L	04/22/05	DSC	EPA-200.8/6020
Cadmium, Total	<0.2	0.2	ug/L	04/21/05	DSC	EPA-200.8/6020
Chromium, Total	<1.0	1.0	ug/L	04/21/05	DSC	EPA-200.8/6020
Cobalt, Total	<10	10	ug/L	04/21/05	DSC	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	04/21/05	DSC	EPA-200.8/6020
Lead, Total	<1.0	1.0	ug/L	04/21/05	DSC	EPA-200.8/6020

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: North Jackson Company
Project: Eagle

Sampled: 04/13/05 @ 10:30
Sampler: P.S./R.E.
Received: 04/14/05 @ 08:50

Submittal #: 36162-31
Submittal: April 2005 Surface Waters

Sample ID: FBKS001 EAG- 1001417
Sample #: 387295
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Manganese, Total	<10	10	ug/L	04/21/05	DSC	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	04/21/05	DSC	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	04/21/05	DSC	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	04/21/05	DSC	EPA-200.8/6020
Silver, Total	<0.2	0.2	ug/L	04/22/05	DSC	EPA-200.8/6020
Zinc, Total	<10	10	ug/L	04/21/05	DSC	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: North Jackson Company
Project: Eagle

Submittal #: 36162-31
Submittal: April 2005 Surface Waters

Sample ID: FBKS001 EAG- 1001417
Sample #: 387295
Matrix: QC Water
Unit: ug/L

Sampled: 04/13/05 @ 10:30
Sampler: P.S./R.E.
Received: 04/14/05 @ 08:50
Prepared: n/a
Prep. Method: n/a
Analyzed: 04/16/05 by DLVV
Anal. Method: USEPA-8260B
QC Batch: 105463 -116
Anal. Batch: 230861
Percent Solids: n/a
Dilution Factor: 1

CAS Number	Volatile Organics USEPA Method 8260B	Analytical Result	Reporting Limit
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: North Jackson Company
Project: Eagle

Sampled: 04/13/05 @ 10:30
Sampler: P.S./R.E.
Received: 04/14/05 @ 08:50

Submittal #: 36162-31
Submittal: April 2005 Surface Waters

Sample ID: EQBS001 EAG- 1001415
Sample #: 387296
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Calcium, Dissolved	<0.50	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	05/03/05	DSC	EPA-200.7/6010B

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: North Jackson Company
Project: Eagle

Sampled: 04/14/05 @ 11:30
Sampler: R.E./D.W.
Received: 04/15/05 @ 09:00

Submittal #: 36162-31
Submittal: April 2005 Surface Waters

Sample ID: FBKS002 EAG- 1001418
Sample #: 387373
Matrix: QC Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	<2.0	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	04/19/05	JLB	325.2/4500-CL E
	Fluoride	<0.10	0.10	mg/L	04/20/05	SAJ	SM 4500 F-C
	Nitrogen, Ammonia	<0.02	0.02	mg/L	04/20/05	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	04/15/05	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	04/15/05	HLB	USEPA-353.2
	Sulfate	<1.0	1.0	mg/L	04/19/05	JLB	EPA-375.4/9038
	Sulfide	<1.0	1.0	mg/L	04/16/05	HLB	376.1/4500 S2-F
	Residue,Dissolved @ 180*C	<20	20	mg/L	04/19/05	GEH	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	04/19/05	GEH	160.2/SM 2540 D
	Alkalinity, Total	<2.0	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
	Chemical Oxygen Demand	<5.0	5.0	mg/L	04/18/05	JMJ	410.4/SM 5220 D
	Carbon, Dissolved Organic	<1.0	1.0	mg/L	04/29/05	SAJ	SDM 5310 D
	Carbon, Total Organic	<1.0	1.0	mg/L	04/15/05	SAJ	EPA 415.1/5310D
*	BOD, (5-Day)	<1.0	1.0	mg/L	04/15/05	JLB	SDM 5210B
	Coliform, Total	<2	2	col/100mL	04/15/05	HLB	SM 9223B
	Color (Apparent)	<5	5	A.C.U.	04/15/05	GEH	USEPA-110.2
	Turbidity	<1.0	1.0	NTU	04/16/05	HLB	USEPA-180.1
	SGT-HEM;Nonpolar Material	<10	10	mg/L	04/26/05	JMJ	USEPA-1664A
	Aluminum, Total	<50	50	ug/L	05/03/05	DSC	EPA-200.7/6010B
	Iron, Total	<20	20	ug/L	05/02/05	DSC	EPA-200.7/6010B
	Lithium, Total	<10	10	ug/L	05/02/05	DSC	EPA-200.7/6010B
	Antimony, Total	<2.0	2.0	ug/L	04/30/05	JMF	EPA-200.8/6020
	Arsenic, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	04/30/05	JMF	EPA-200.8/6020
	Beryllium, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020
	Boron, Total	<50	50	ug/L	04/30/05	JMF	EPA-200.8/6020
	Cadmium, Total	<0.2	0.2	ug/L	05/03/05	DWJ	EPA-200.8/6020
	Chromium, Total	<1.0	1.0	ug/L	05/03/05	DWJ	EPA-200.8/6020
	Cobalt, Total	<10	10	ug/L	04/30/05	JMF	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020
	Lead, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: North Jackson Company
Project: Eagle

Sampled: 04/14/05 @ 11:30
Sampler: R.E./D.W.
Received: 04/15/05 @ 09:00

Submittal #: 36162-31
Submittal: April 2005 Surface Waters

Sample ID: FBKS002 EAG- 1001418
Sample #: 387373
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Manganese, Total	<10	10	ug/L	04/30/05	JMF	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	04/30/05	JMF	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	04/30/05	JMF	EPA-200.8/6020
Silver, Total	<0.2	0.2	ug/L	04/30/05	JMF	EPA-200.8/6020
Zinc, Total	<10	10	ug/L	05/03/05	DWJ	EPA-200.8/6020

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ANALYTICAL REPORT

Client: North Jackson Company
Project: Eagle

Submittal #: 36162-31
Submittal: April 2005 Surface Waters

Sample ID: FBKS002 EAG- 1001418
Sample #: 387373
Matrix: QC Water
Unit: ug/L

Sampled: 04/14/05 @ 11:30
Sampler: R.E./D.W.
Received: 04/15/05 @ 09:00
Prepared: n/a
Prep. Method: n/a
Analyzed: 04/23/05 by DLVV
Anal. Method: USEPA-8260B
QC Batch: 105692 -222
Anal. Batch: 231196
Percent Solids: n/a
Dilution Factor: 1

CAS Number	Volatile Organics *USEPA Method 8260B	Analytical Result	Reporting Limit
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: North Jackson Company
Project: Eagle

Sampled: 04/14/05 @ 11:30
Sampler: R.E./D.W.
Received: 04/15/05 @ 09:00

Submittal #: 36162-31
Submittal: April 2005 Surface Waters

Sample ID: EQBS002 EAG- 1001416
Sample #: 387374
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Calcium, Dissolved	<0.50	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	05/03/05	DSC	EPA-200.7/6010B

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: North Jackson Company
Project: Eagle

Sampled: 04/14/05 @ 09:30
Sampler: R.E./D.W.
Received: 04/15/05 @ 09:00

Submittal #: 36162-31
Submittal: April 2005 Surface Waters

Sample ID: STRMS004 EAG- 1001404
Sample #: 387375
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	34	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	04/19/05	JLB	325.2/4500-CL E
	Fluoride	<0.10	0.10	mg/L	04/20/05	SAJ	SM 4500 F-C
	Nitrogen, Ammonia	<0.02	0.02	mg/L	04/20/05	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	0.11	0.05	mg/L	04/15/05	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	04/15/05	HLB	USEPA-353.2
	Sulfate	<1.0	1.0	mg/L	04/19/05	JLB	EPA-375.4/9038
	Sulfide	<1.0	1.0	mg/L	04/16/05	HLB	376.1/4500 S2-F
	Residue,Dissolved @ 180*C	52	20	mg/L	04/19/05	GEH	160.1/SM 2540 C
	Residue, Suspended	3	3	mg/L	04/19/05	GEH	160.2/SM 2540 D
	Alkalinity, Total	34	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
	Chemical Oxygen Demand	18	5.0	mg/L	04/18/05	JMJ	410.4/SM 5220 D
	Carbon, Dissolved Organic	7.4	1.0	mg/L	04/29/05	SAJ	SDM 5310 D
	Carbon, Total Organic	6.4	1.0	mg/L	04/15/05	SAJ	EPA 415.1/5310D
*	BOD, (5-Day)	1.6	1.0	mg/L	04/15/05	JLB	SDM 5210B
	Coliform, Total	300	2	col/100mL	04/15/05	HLB	SM 9223B
	Color (Apparent)	50	5	A.C.U.	04/15/05	GEH	USEPA-110.2
	Turbidity	2.7	1.0	NTU	04/16/05	HLB	USEPA-180.1
	SGT-HEM;Nonpolar Material	<10	10	mg/L	04/26/05	JMJ	USEPA-1664A
	Aluminum, Total	130	50	ug/L	05/03/05	DSC	EPA-200.7/6010B
	Iron, Total	270	20	ug/L	05/02/05	DSC	EPA-200.7/6010B
	Lithium, Total	<10	10	ug/L	05/02/05	DSC	EPA-200.7/6010B
	Antimony, Total	<2.0	2.0	ug/L	04/30/05	JMF	EPA-200.8/6020
	Arsenic, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	04/30/05	JMF	EPA-200.8/6020
	Beryllium, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020
	Boron, Total	<50	50	ug/L	04/30/05	JMF	EPA-200.8/6020
	Cadmium, Total	<0.2	0.2	ug/L	05/03/05	DWJ	EPA-200.8/6020
	Chromium, Total	<1.0	1.0	ug/L	05/03/05	DWJ	EPA-200.8/6020
	Cobalt, Total	<10	10	ug/L	04/30/05	JMF	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020
	Lead, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: North Jackson Company
Project: Eagle

Sampled: 04/14/05 @ 09:30
Sampler: R.E./D.W.
Received: 04/15/05 @ 09:00

Submittal #: 36162-31
Submittal: April 2005 Surface Waters

Sample ID: STRMS004 EAG- 1001404
Sample #: 387375
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Manganese, Total	14	10	ug/L	04/30/05	JMF	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	04/30/05	JMF	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	04/30/05	JMF	EPA-200.8/6020
Silver, Total	<0.2	0.2	ug/L	04/30/05	JMF	EPA-200.8/6020
Zinc, Total	<10	10	ug/L	05/03/05	DWJ	EPA-200.8/6020
Calcium, Dissolved	9.4	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Potassium, Dissolved	0.53	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Magnesium, Dissolved	2.0	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Sodium, Dissolved	0.55	0.50	mg/L	05/03/05	DSC	EPA-200.7/6010B

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ANALYTICAL REPORT

Client:	North Jackson Company	Sampled:	04/14/05 @ 09:30
Project:	Eagle	Sampler:	R.E./D.W.
		Received:	04/15/05 @ 09:00
		Prepared:	n/a
Submittal #:	36162-31	Prep. Method:	n/a
Submittal:	April 2005 Surface Waters	Analyzed:	04/23/05 by DLVV
		Anal. Method:	USEPA-8260B
Sample ID:	STRMS004 EAG- 1001404	QC Batch:	105692 -222
Sample #:	387375	Anal. Batch:	231196
Matrix:	Surface Water	Percent Solids:	n/a
Unit:	ug/L	Dilution Factor:	1

CAS Number	Volatile Organics *USEPA Method 8260B	Analytical Result	Reporting Limit
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: North Jackson Company
Project: Eagle

Sampled: 04/14/05 @ 10:45
Sampler: R.E./D.W.
Received: 04/15/05 @ 09:00

Submittal #: 36162-31
Submittal: April 2005 Surface Waters

Sample ID: STRWS001 EAG- 1001406
Sample #: 387376
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	31	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	04/19/05	JLB	325.2/4500-CL E
	Fluoride	<0.10	0.10	mg/L	04/20/05	SAJ	SM 4500 F-C
	Nitrogen, Ammonia	<0.02	0.02	mg/L	04/20/05	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	<0.05	0.05	mg/L	04/15/05	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	04/15/05	HLB	USEPA-353.2
	Sulfate	<1.0	1.0	mg/L	04/19/05	JLB	EPA-375.4/9038
	Sulfide	<1.0	1.0	mg/L	04/16/05	HLB	376.1/4500 S2-F
	Residue,Dissolved @ 180*C	53	20	mg/L	04/19/05	GEH	160.1/SM 2540 C
	Residue, Suspended	<3	3	mg/L	04/19/05	GEH	160.2/SM 2540 D
	Alkalinity, Total	31	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
	Chemical Oxygen Demand	22	5.0	mg/L	04/18/05	JMJ	410.4/SM 5220 D
	Carbon, Dissolved Organic	8.5	1.0	mg/L	04/29/05	SAJ	SDM 5310 D
	Carbon, Total Organic	7.7	1.0	mg/L	04/15/05	SAJ	EPA 415.1/5310D
*	BOD, (5-Day)	1.2	1.0	mg/L	04/15/05	JLB	SDM 5210B
	Coliform, Total	130	2	col/100mL	04/15/05	HLB	SM 9223B
	Color (Apparent)	50	5	A.C.U.	04/15/05	GEH	USEPA-110.2
	Turbidity	1.9	1.0	NTU	04/16/05	HLB	USEPA-180.1
	SGT-HEM;Nonpolar Material	<10	10	mg/L	04/26/05	JMJ	USEPA-1664A
	Aluminum, Total	120	50	ug/L	05/03/05	DSC	EPA-200.7/6010B
	Iron, Total	270	20	ug/L	05/02/05	DSC	EPA-200.7/6010B
	Lithium, Total	<10	10	ug/L	05/02/05	DSC	EPA-200.7/6010B
	Antimony, Total	<2.0	2.0	ug/L	04/30/05	JMF	EPA-200.8/6020
	Arsenic, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020
	Barium, Total	11	10	ug/L	04/30/05	JMF	EPA-200.8/6020
	Beryllium, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020
	Boron, Total	<50	50	ug/L	04/30/05	JMF	EPA-200.8/6020
	Cadmium, Total	<0.2	0.2	ug/L	05/03/05	DWJ	EPA-200.8/6020
	Chromium, Total	<1.0	1.0	ug/L	05/03/05	DWJ	EPA-200.8/6020
	Cobalt, Total	<10	10	ug/L	04/30/05	JMF	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020
	Lead, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: North Jackson Company
Project: Eagle

Sampled: 04/14/05 @ 10:45
Sampler: R.E./D.W.
Received: 04/15/05 @ 09:00

Submittal #: 36162-31
Submittal: April 2005 Surface Waters

Sample ID: STRWS001 EAG- 1001406
Sample #: 387376
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Manganese, Total	22	10	ug/L	04/30/05	JMF	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	04/30/05	JMF	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	04/30/05	JMF	EPA-200.8/6020
Silver, Total	<0.2	0.2	ug/L	04/30/05	JMF	EPA-200.8/6020
Zinc, Total	<10	10	ug/L	05/03/05	DWJ	EPA-200.8/6020
Calcium, Dissolved	9.9	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Potassium, Dissolved	0.51	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Magnesium, Dissolved	1.8	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Sodium, Dissolved	0.68	0.50	mg/L	05/03/05	DSC	EPA-200.7/6010B

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client:	North Jackson Company	Sampled:	04/14/05 @ 10:45
Project:	Eagle	Sampler:	R.E./D.W.
		Received:	04/15/05 @ 09:00
		Prepared:	n/a
Submittal #:	36162-31	Prep. Method:	n/a
Submittal:	April 2005 Surface Waters	Analyzed:	04/25/05 by DLVV
		Anal. Method:	USEPA-8260B
Sample ID:	STRWS001 EAG- 1001406	QC Batch:	105692 -125
Sample #:	387376	Anal. Batch:	231197
Matrix:	Surface Water	Percent Solids:	n/a
Unit:	ug/L	Dilution Factor:	1

CAS Number	Volatile Organics USEPA Method 8260B	Analytical Result	Reporting Limit
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: North Jackson Company
Project: Eagle

Sampled: 04/14/05 @ 11:45
Sampler: R.E./D.W.
Received: 04/15/05 @ 09:00

Submittal #: 36162-31
Submittal: April 2005 Surface Waters

Sample ID: STRMS003 EAG- 1001403
Sample #: 387377
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	31	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	04/19/05	JLB	325.2/4500-CL E
	Fluoride	<0.10	0.10	mg/L	04/20/05	SAJ	SM 4500 F-C
	Nitrogen, Ammonia	<0.02	0.02	mg/L	04/20/05	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	0.11	0.05	mg/L	04/15/05	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	04/15/05	HLB	USEPA-353.2
	Sulfate	<1.0	1.0	mg/L	04/19/05	JLB	EPA-375.4/9038
	Sulfide	<1.0	1.0	mg/L	04/16/05	HLB	376.1/4500 S2-F
	Residue,Dissolved @ 180*C	55	20	mg/L	04/19/05	GEH	160.1/SM 2540 C
	Residue, Suspended	6	3	mg/L	04/19/05	GEH	160.2/SM 2540 D
	Alkalinity, Total	31	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
	Chemical Oxygen Demand	18	5.0	mg/L	04/18/05	JMJ	410.4/SM 5220 D
	Carbon, Dissolved Organic	6.7	1.0	mg/L	04/29/05	SAJ	SDM 5310 D
	Carbon, Total Organic	5.8	1.0	mg/L	04/15/05	SAJ	EPA 415.1/5310D
*	BOD, (5-Day)	2.1	1.0	mg/L	04/15/05	JLB	SDM 5210B
	Coliform, Total	500	2	col/100mL	04/15/05	HLB	SM 9223B
	Color (Apparent)	60	5	A.C.U.	04/15/05	GEH	USEPA-110.2
	Turbidity	4.0	1.0	NTU	04/16/05	HLB	USEPA-180.1
	SGT-HEM;Nonpolar Material	<10	10	mg/L	04/26/05	JMJ	USEPA-1664A
	Aluminum, Total	140	50	ug/L	05/03/05	DSC	EPA-200.7/6010B
	Iron, Total	290	20	ug/L	05/02/05	DSC	EPA-200.7/6010B
	Lithium, Total	<10	10	ug/L	05/02/05	DSC	EPA-200.7/6010B
	Antimony, Total	<2.0	2.0	ug/L	04/30/05	JMF	EPA-200.8/6020
	Arsenic, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020
	Barium, Total	20	10	ug/L	04/30/05	JMF	EPA-200.8/6020
	Beryllium, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020
	Boron, Total	<50	50	ug/L	04/30/05	JMF	EPA-200.8/6020
	Cadmium, Total	<0.2	0.2	ug/L	05/03/05	DWJ	EPA-200.8/6020
	Chromium, Total	<1.0	1.0	ug/L	05/03/05	DWJ	EPA-200.8/6020
	Cobalt, Total	<10	10	ug/L	04/30/05	JMF	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020
	Lead, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: North Jackson Company
Project: Eagle

Sampled: 04/14/05 @ 11:45
Sampler: R.E./D.W.
Received: 04/15/05 @ 09:00

Submittal #: 36162-31
Submittal: April 2005 Surface Waters

Sample ID: STRMS003 EAG- 1001403
Sample #: 387377
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Manganese, Total	14	10	ug/L	04/30/05	JMF	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	04/30/05	JMF	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	04/30/05	JMF	EPA-200.8/6020
Silver, Total	<0.2	0.2	ug/L	04/30/05	JMF	EPA-200.8/6020
Zinc, Total	<10	10	ug/L	05/03/05	DWJ	EPA-200.8/6020
Calcium, Dissolved	9.6	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Potassium, Dissolved	0.62	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Magnesium, Dissolved	2.1	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Sodium, Dissolved	0.71	0.50	mg/L	05/03/05	DSC	EPA-200.7/6010B

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ANALYTICAL REPORT

Client:	North Jackson Company	Sampled:	04/14/05 @ 11:45
Project:	Eagle	Sampler:	R.E./D.W.
		Received:	04/15/05 @ 09:00
		Prepared:	n/a
Submittal #:	36162-31	Prep. Method:	n/a
Submittal:	April 2005 Surface Waters	Analyzed:	04/23/05 by DLVV
		Anal. Method:	USEPA-8260B
Sample ID:	STRMS003 EAG- 1001403	QC Batch:	105692 -222
Sample #:	387377	Anal. Batch:	231196
Matrix:	Surface Water	Percent Solids:	n/a
Unit:	ug/L	Dilution Factor:	1

CAS Number	Volatile Organics *USEPA Method 8260B	Analytical Result	Reporting Limit
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: North Jackson Company
Project: Eagle

Sampled: 04/14/05 @ 13:15
Sampler: R.E./D.W.
Received: 04/15/05 @ 09:00

Submittal #: 36162-31
Submittal: April 2005 Surface Waters

Sample ID: STRES001 EAG- 1001407
Sample #: 387378
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	50	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	04/19/05	JLB	325.2/4500-CL E
	Fluoride	<0.10	0.10	mg/L	04/20/05	SAJ	SM 4500 F-C
	Nitrogen, Ammonia	<0.02	0.02	mg/L	04/20/05	GEH	350.1/4500 NH3G
	Nitrogen, Nitrate	0.05	0.05	mg/L	04/15/05	HLB	353.2/4500 NO3F
	Nitrogen, Nitrite	<0.05	0.05	mg/L	04/15/05	HLB	USEPA-353.2
	Sulfate	<1.0	1.0	mg/L	04/19/05	JLB	EPA-375.4/9038
	Sulfide	<1.0	1.0	mg/L	04/16/05	HLB	376.1/4500 S2-F
	Residue,Dissolved @ 180*C	72	20	mg/L	04/19/05	GEH	160.1/SM 2540 C
	Residue, Suspended	6	3	mg/L	04/19/05	GEH	160.2/SM 2540 D
	Alkalinity, Total	50	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
	Chemical Oxygen Demand	14	5.0	mg/L	04/18/05	JMJ	410.4/SM 5220 D
	Carbon, Dissolved Organic	5.7	1.0	mg/L	04/29/05	SAJ	SDM 5310 D
	Carbon, Total Organic	4.9	1.0	mg/L	04/15/05	SAJ	EPA 415.1/5310D
*	BOD, (5-Day)	1.2	1.0	mg/L	04/15/05	JLB	SDM 5210B
	Coliform, Total	80	2	col/100mL	04/15/05	HLB	SM 9223B
	Color (Apparent)	35	5	A.C.U.	04/15/05	GEH	USEPA-110.2
	Turbidity	2.8	1.0	NTU	04/16/05	HLB	USEPA-180.1
	SGT-HEM;Nonpolar Material	<10	10	mg/L	04/26/05	JMJ	USEPA-1664A
	Aluminum, Total	140	50	ug/L	05/03/05	DSC	EPA-200.7/6010B
	Iron, Total	150	20	ug/L	05/02/05	DSC	EPA-200.7/6010B
	Lithium, Total	<10	10	ug/L	05/02/05	DSC	EPA-200.7/6010B
*	Antimony, Total	<2.0	2.0	ug/L	04/30/05	JMF	EPA-200.8/6020
	Arsenic, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020
	Barium, Total	<10	10	ug/L	04/30/05	JMF	EPA-200.8/6020
	Beryllium, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020
	Boron, Total	<50	50	ug/L	04/30/05	JMF	EPA-200.8/6020
	Cadmium, Total	<0.2	0.2	ug/L	05/04/05	KLVM	EPA-200.8/6020
	Chromium, Total	<1.0	1.0	ug/L	05/04/05	KLVM	EPA-200.8/6020
	Cobalt, Total	<10	10	ug/L	04/30/05	JMF	EPA-200.8/6020
	Copper, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020
	Lead, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: North Jackson Company
Project: Eagle

Sampled: 04/14/05 @ 13:15
Sampler: R.E./D.W.
Received: 04/15/05 @ 09:00

Submittal #: 36162-31
Submittal: April 2005 Surface Waters

Sample ID: STRES001 EAG- 1001407
Sample #: 387378
Matrix: Surface Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Manganese, Total	12	10	ug/L	04/30/05	JMF	EPA-200.8/6020
*	Molybdenum, Total	<10	10	ug/L	04/30/05	JMF	EPA-200.8/6020
	Nickel, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020
	Selenium, Total	<2.0	2.0	ug/L	04/30/05	JMF	EPA-200.8/6020
	Silver, Total	<0.2	0.2	ug/L	04/30/05	JMF	EPA-200.8/6020
	Zinc, Total	<10	10	ug/L	05/04/05	KLVM	EPA-200.8/6020
	Calcium, Dissolved	14	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
	Potassium, Dissolved	<0.50	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
	Magnesium, Dissolved	2.8	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
	Sodium, Dissolved	0.73	0.50	mg/L	05/03/05	DSC	EPA-200.7/6010B

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client:	North Jackson Company	Sampled:	04/14/05 @ 13:15
Project:	Eagle	Sampler:	R.E./D.W.
		Received:	04/15/05 @ 09:00
		Prepared:	n/a
Submittal #:	36162-31	Prep. Method:	n/a
Submittal:	April 2005 Surface Waters	Analyzed:	04/23/05 by DLVV
		Anal. Method:	USEPA-8260B
Sample ID:	STRES001 EAG- 1001407	QC Batch:	105692 -222
Sample #:	387378	Anal. Batch:	231196
Matrix:	Surface Water	Percent Solids:	n/a
Unit:	ug/L	Dilution Factor:	1

CAS Number	Volatile Organics *USEPA Method 8260B	Analytical Result	Reporting Limit
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: North Jackson Company
Project: Eagle

Sampled: 04/19/05 @ 11:00
Sampler: P.S./R.E.
Received: 04/20/05 @ 08:50

Submittal #: 36162-31
Submittal: April 2005 Surface Waters

Sample ID: CDRAS002 EAG- 1001411
Sample #: 387592
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	50	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	04/22/05	JLB	325.2/4500-CL E
Fluoride	<0.10	0.10	mg/L	04/20/05	SAJ	SM 4500 F-C
Nitrogen, Ammonia	<0.02	0.02	mg/L	04/26/05	GEH	350.1/4500 NH3G
Nitrogen, Nitrate	0.06	0.05	mg/L	04/20/05	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	04/20/05	HLB	USEPA-353.2
Sulfate	2.9	1.0	mg/L	04/27/05	JLB	EPA-375.4/9038
Sulfide	<1.0	1.0	mg/L	04/24/05	HLB	376.1/4500 S2-F
Residue,Dissolved @ 180*C	46	20	mg/L	04/21/05	GEH	160.1/SM 2540 C
Residue, Suspended	<3	3	mg/L	04/21/05	GEH	160.2/SM 2540 D
Alkalinity, Total	50	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
Chemical Oxygen Demand	<5.0	5.0	mg/L	04/26/05	JMJ	410.4/SM 5220 D
Carbon, Dissolved Organic	1.2	1.0	mg/L	04/29/05	SAJ	SDM 5310 D
Carbon, Total Organic	1.0	1.0	mg/L	04/22/05	SAJ	EPA 415.1/5310D
BOD, (5-Day)	<1.0	1.0	mg/L	04/21/05	JLB	SDM 5210B
Coliform, Total	170	2	col/100mL	04/20/05	HLB	SM 9223B
Color (Apparent)	10	5	A.C.U.	04/20/05	GEH	USEPA-110.2
Turbidity	1.1	1.0	NTU	04/20/05	HLB	USEPA-180.1
SGT-HEM;Nonpolar Material	<10	10	mg/L	04/26/05	JMJ	USEPA-1664A
Aluminum, Total	<50	50	ug/L	05/03/05	DSC	EPA-200.7/6010B
Iron, Total	31	20	ug/L	05/02/05	DSC	EPA-200.7/6010B
Lithium, Total	<10	10	ug/L	05/02/05	DSC	EPA-200.7/6010B
Antimony, Total	<2.0	2.0	ug/L	04/30/05	JMF	EPA-200.8/6020
Arsenic, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020
Barium, Total	<10	10	ug/L	04/30/05	JMF	EPA-200.8/6020
Beryllium, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020
Boron, Total	<50	50	ug/L	04/30/05	JMF	EPA-200.8/6020
Cadmium, Total	<0.2	0.2	ug/L	04/30/05	JMF	EPA-200.8/6020
Chromium, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020
Cobalt, Total	<10	10	ug/L	04/30/05	JMF	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020
Lead, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: North Jackson Company
Project: Eagle

Sampled: 04/19/05 @ 11:00
Sampler: P.S./R.E.
Received: 04/20/05 @ 08:50

Submittal #: 36162-31
Submittal: April 2005 Surface Waters

Sample ID: CDRAS002 EAG- 1001411
Sample #: 387592
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Manganese, Total	<10	10	ug/L	04/30/05	JMF	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	04/30/05	JMF	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	04/30/05	JMF	EPA-200.8/6020
Silver, Total	<0.2	0.2	ug/L	04/30/05	JMF	EPA-200.8/6020
Zinc, Total	<10	10	ug/L	04/30/05	JMF	EPA-200.8/6020
Calcium, Dissolved	15	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Potassium, Dissolved	0.67	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Magnesium, Dissolved	2.2	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Sodium, Dissolved	0.66	0.50	mg/L	05/03/05	DSC	EPA-200.7/6010B

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client:	North Jackson Company	Sampled:	04/19/05 @ 11:00
Project:	Eagle	Sampler:	P.S./R.E.
		Received:	04/20/05 @ 08:50
		Prepared:	n/a
Submittal #:	36162-31	Prep. Method:	n/a
Submittal:	April 2005 Surface Waters	Analyzed:	04/26/05 by DLVV
		Anal. Method:	USEPA-8260B
Sample ID:	CDRAS002 EAG- 1001411	QC Batch:	105679 -126
Sample #:	387592	Anal. Batch:	231198
Matrix:	Surface Water	Percent Solids:	n/a
Unit:	ug/L	Dilution Factor:	1

CAS Number	Volatile Organics USEPA Method 8260B	Analytical Result	Reporting Limit
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: North Jackson Company
Project: Eagle

Sampled: 04/19/05 @ 11:40
Sampler: P.S./R.E.
Received: 04/20/05 @ 08:50

Submittal #: 36162-31
Submittal: April 2005 Surface Waters

Sample ID: CDRMS004 EAG- 1001412
Sample #: 387593
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	54	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	04/22/05	JLB	325.2/4500-CL E
Fluoride	<0.10	0.10	mg/L	04/20/05	SAJ	SM 4500 F-C
Nitrogen, Ammonia	<0.02	0.02	mg/L	04/26/05	GEH	350.1/4500 NH3G
Nitrogen, Nitrate	0.06	0.05	mg/L	04/20/05	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	04/20/05	HLB	USEPA-353.2
Sulfate	<1.0	1.0	mg/L	04/27/05	JLB	EPA-375.4/9038
Sulfide	<1.0	1.0	mg/L	04/24/05	HLB	376.1/4500 S2-F
Residue,Dissolved @ 180*C	70	20	mg/L	04/21/05	GEH	160.1/SM 2540 C
Residue, Suspended	<3	3	mg/L	04/21/05	GEH	160.2/SM 2540 D
Alkalinity, Total	54	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
Chemical Oxygen Demand	13	5.0	mg/L	04/26/05	JMJ	410.4/SM 5220 D
Carbon, Dissolved Organic	21	1.0	mg/L	04/29/05	SAJ	SDM 5310 D
Carbon, Total Organic	4.8	1.0	mg/L	04/22/05	SAJ	EPA 415.1/5310D
BOD, (5-Day)	1.2	1.0	mg/L	04/21/05	JLB	SDM 5210B
Coliform, Total	280	2	col/100mL	04/20/05	HLB	SM 9223B
Color (Apparent)	35	5	A.C.U.	04/20/05	GEH	USEPA-110.2
Turbidity	1.3	1.0	NTU	04/20/05	HLB	USEPA-180.1
SGT-HEM;Nonpolar Material	<10	10	mg/L	04/26/05	JMJ	USEPA-1664A
Aluminum, Total	<50	50	ug/L	05/03/05	DSC	EPA-200.7/6010B
Iron, Total	120	20	ug/L	05/02/05	DSC	EPA-200.7/6010B
Lithium, Total	<10	10	ug/L	05/02/05	DSC	EPA-200.7/6010B
Antimony, Total	<2.0	2.0	ug/L	04/30/05	JMF	EPA-200.8/6020
Arsenic, Total	1.4	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020
Barium, Total	12	10	ug/L	04/30/05	JMF	EPA-200.8/6020
Beryllium, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020
Boron, Total	<50	50	ug/L	04/30/05	JMF	EPA-200.8/6020
Cadmium, Total	<0.2	0.2	ug/L	04/30/05	JMF	EPA-200.8/6020
Chromium, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020
Cobalt, Total	<10	10	ug/L	04/30/05	JMF	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020
Lead, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: North Jackson Company
Project: Eagle

Sampled: 04/19/05 @ 11:40
Sampler: P.S./R.E.
Received: 04/20/05 @ 08:50

Submittal #: 36162-31
Submittal: April 2005 Surface Waters

Sample ID: CDRMS004 EAG- 1001412
Sample #: 387593
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Manganese, Total	13	10	ug/L	04/30/05	JMF	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	04/30/05	JMF	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	04/30/05	JMF	EPA-200.8/6020
Silver, Total	<0.2	0.2	ug/L	04/30/05	JMF	EPA-200.8/6020
Zinc, Total	<10	10	ug/L	04/30/05	JMF	EPA-200.8/6020
Calcium, Dissolved	18	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Potassium, Dissolved	0.59	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Magnesium, Dissolved	2.7	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Sodium, Dissolved	0.98	0.50	mg/L	05/03/05	DSC	EPA-200.7/6010B

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client:	North Jackson Company	Sampled:	04/19/05 @ 11:40
Project:	Eagle	Sampler:	P.S./R.E.
		Received:	04/20/05 @ 08:50
		Prepared:	n/a
Submittal #:	36162-31	Prep. Method:	n/a
Submittal:	April 2005 Surface Waters	Analyzed:	04/26/05 by DLVV
		Anal. Method:	USEPA-8260B
Sample ID:	CDRMS004 EAG- 1001412	QC Batch:	105679 -126
Sample #:	387593	Anal. Batch:	231198
Matrix:	Surface Water	Percent Solids:	n/a
Unit:	ug/L	Dilution Factor:	1

CAS Number	Volatile Organics USEPA Method 8260B	Analytical Result	Reporting Limit
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: North Jackson Company
Project: Eagle

Sampled: 04/19/05 @ 13:40
Sampler: P.S./R.E.
Received: 04/20/05 @ 08:50

Submittal #: 36162-31
Submittal: April 2005 Surface Waters

Sample ID: STRES002 EAG- 1001408
Sample #: 387594
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	51	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	04/22/05	JLB	325.2/4500-CL E
Fluoride	<0.10	0.10	mg/L	04/20/05	SAJ	SM 4500 F-C
Nitrogen, Ammonia	<0.02	0.02	mg/L	04/26/05	GEH	350.1/4500 NH3G
Nitrogen, Nitrate	0.05	0.05	mg/L	04/20/05	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	04/20/05	HLB	USEPA-353.2
Sulfate	<1.0	1.0	mg/L	04/27/05	JLB	EPA-375.4/9038
Sulfide	<1.0	1.0	mg/L	04/24/05	HLB	376.1/4500 S2-F
Residue,Dissolved @ 180*C	63	20	mg/L	04/21/05	GEH	160.1/SM 2540 C
Residue, Suspended	<3	3	mg/L	04/21/05	GEH	160.2/SM 2540 D
Alkalinity, Total	51	2.0	mg/L	04/20/05	INR	310.1/SM 2320 B
Chemical Oxygen Demand	15	5.0	mg/L	04/26/05	JMJ	410.4/SM 5220 D
Carbon, Dissolved Organic	6.7	1.0	mg/L	04/29/05	SAJ	SDM 5310 D
Carbon, Total Organic	5.4	1.0	mg/L	04/22/05	SAJ	EPA 415.1/5310D
BOD, (5-Day)	1.4	1.0	mg/L	04/21/05	JLB	SDM 5210B
Coliform, Total	300	2	col/100mL	04/20/05	HLB	SM 9223B
Color (Apparent)	40	5	A.C.U.	04/20/05	GEH	USEPA-110.2
Turbidity	2.1	1.0	NTU	04/20/05	HLB	USEPA-180.1
SGT-HEM;Nonpolar Material	<10	10	mg/L	04/26/05	JMJ	USEPA-1664A
Aluminum, Total	52	50	ug/L	05/03/05	DSC	EPA-200.7/6010B
Iron, Total	130	20	ug/L	05/02/05	DSC	EPA-200.7/6010B
Lithium, Total	<10	10	ug/L	05/02/05	DSC	EPA-200.7/6010B
Antimony, Total	<2.0	2.0	ug/L	04/30/05	JMF	EPA-200.8/6020
Arsenic, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020
Barium, Total	11	10	ug/L	04/30/05	JMF	EPA-200.8/6020
Beryllium, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020
Boron, Total	<50	50	ug/L	04/30/05	JMF	EPA-200.8/6020
Cadmium, Total	0.3	0.2	ug/L	04/30/05	JMF	EPA-200.8/6020
Chromium, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020
Cobalt, Total	<10	10	ug/L	04/30/05	JMF	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020
Lead, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/19/05 @ 13:40
Sampler: P.S./R.E.
Received: 04/20/05 @ 08:50

Submittal #: **36162-31**
Submittal: April 2005 Surface Waters

Sample ID: **STRES002 EAG- 1001408**
Sample #: **387594**
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Manganese, Total	11	10	ug/L	04/30/05	JMF	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	04/30/05	JMF	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	04/30/05	JMF	EPA-200.8/6020
Silver, Total	<0.2	0.2	ug/L	04/30/05	JMF	EPA-200.8/6020
Zinc, Total	15	10	ug/L	04/30/05	JMF	EPA-200.8/6020
Calcium, Dissolved	16	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Potassium, Dissolved	0.62	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Magnesium, Dissolved	3.1	0.50	mg/L	05/02/05	DSC	EPA-200.7/6010B
Sodium, Dissolved	0.96	0.50	mg/L	05/03/05	DSC	EPA-200.7/6010B

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client:	North Jackson Company	Sampled:	04/19/05 @ 13:40
Project:	Eagle	Sampler:	P.S./R.E.
		Received:	04/20/05 @ 08:50
		Prepared:	n/a
Submittal #:	36162-31	Prep. Method:	n/a
Submittal:	April 2005 Surface Waters	Analyzed:	04/26/05 by DLVV
		Anal. Method:	USEPA-8260B
Sample ID:	STRES002 EAG- 1001408	QC Batch:	105679 -126
Sample #:	387594	Anal. Batch:	231198
Matrix:	Surface Water	Percent Solids:	n/a
Unit:	ug/L	Dilution Factor:	1

CAS Number	Volatile Organics USEPA Method 8260B	Analytical Result	Reporting Limit
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: North Jackson Company
Project: Eagle

Sampled: 04/21/05 @ 11:00
Sampler: P. Sabee
Received: 04/22/05 @ 09:10

Submittal #: 36162-31
Submittal: April 2005 Surface Waters

Sample ID: YDRMS003 EAG- 1001410
Sample #: 387872
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	10	2.0	mg/L	04/29/05	JLB	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	04/29/05	JLB	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	04/27/05	JLB	325.2/4500-CL E
Fluoride	<0.10	0.10	mg/L	04/28/05	SAJ	SM 4500 F-C
Nitrogen, Ammonia	<0.02	0.02	mg/L	04/26/05	GEH	350.1/4500 NH3G
Nitrogen, Nitrate	0.07	0.05	mg/L	04/23/05	HLB	353.2/4500 NO3F
Nitrogen, Nitrite	<0.05	0.05	mg/L	04/23/05	HLB	USEPA-353.2
Sulfate	<1.0	1.0	mg/L	04/27/05	JLB	EPA-375.4/9038
Sulfide	<1.0	1.0	mg/L	04/24/05	HLB	376.1/4500 S2-F
Residue,Dissolved @ 180*C	29	25	mg/L	04/25/05	GEH	160.1/SM 2540 C
Residue, Suspended	<3	3	mg/L	04/25/05	GEH	160.2/SM 2540 D
Alkalinity, Total	10	2.0	mg/L	04/29/05	JLB	310.1/SM 2320 B
Chemical Oxygen Demand	28	5.0	mg/L	04/29/05	JMJ	410.4/SM 5220 D
Carbon, Dissolved Organic	11	1.0	mg/L	04/29/05	SAJ	SDM 5310 D
Carbon, Total Organic	10	1.0	mg/L	04/27/05	SAJ	EPA 415.1/5310D
BOD, (5-Day)	1.4	1.0	mg/L	04/22/05	JLB	SDM 5210B
Coliform, Total	900	2	col/100mL	04/22/05	HLB	SM 9223B
Color (Apparent)	100	20	A.C.U.	04/22/05	GEH	USEPA-110.2
Turbidity	1.3	1.0	NTU	04/22/05	HLB	USEPA-180.1
SGT-HEM;Nonpolar Material	<10	10	mg/L	04/26/05	JMJ	USEPA-1664A
Aluminum, Total	63	50	ug/L	04/30/05	DSC	EPA-200.7/6010B
Iron, Total	260	20	ug/L	04/27/05	JLTR	EPA-200.7/6010B
Lithium, Total	<10	10	ug/L	04/27/05	JLTR	EPA-200.7/6010B
Antimony, Total	<2.0	2.0	ug/L	04/30/05	JMF	EPA-200.8/6020
Arsenic, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020
Barium, Total	<10	10	ug/L	04/30/05	JMF	EPA-200.8/6020
Beryllium, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020
Boron, Total	<50	50	ug/L	05/03/05	DWJ	EPA-200.8/6020
Cadmium, Total	<0.2	0.2	ug/L	04/30/05	JMF	EPA-200.8/6020
Chromium, Total	<1.0	1.0	ug/L	05/03/05	DWJ	EPA-200.8/6020
Cobalt, Total	<10	10	ug/L	04/30/05	JMF	EPA-200.8/6020
Copper, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020
Lead, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: North Jackson Company
Project: Eagle

Sampled: 04/21/05 @ 11:00
Sampler: P. Sabee
Received: 04/22/05 @ 09:10

Submittal #: 36162-31
Submittal: April 2005 Surface Waters

Sample ID: YDRMS003 EAG- 1001410
Sample #: 387872
Matrix: Surface Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Manganese, Total	10	10	ug/L	04/30/05	JMF	EPA-200.8/6020
Molybdenum, Total	<10	10	ug/L	04/30/05	JMF	EPA-200.8/6020
Nickel, Total	<1.0	1.0	ug/L	04/30/05	JMF	EPA-200.8/6020
Selenium, Total	<2.0	2.0	ug/L	04/30/05	JMF	EPA-200.8/6020
Silver, Total	<0.2	0.2	ug/L	04/30/05	JMF	EPA-200.8/6020
Zinc, Total	<10	10	ug/L	04/30/05	JMF	EPA-200.8/6020
Calcium, Dissolved	3.5	0.50	mg/L	05/02/05	JLTR	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	05/02/05	JLTR	EPA-200.7/6010B
Magnesium, Dissolved	0.81	0.50	mg/L	05/02/05	JLTR	EPA-200.7/6010B
Sodium, Dissolved	0.55	0.50	mg/L	05/02/05	JLTR	EPA-200.7/6010B

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client:	North Jackson Company	Sampled:	04/21/05 @ 11:00
Project:	Eagle	Sampler:	P. Sabee
		Received:	04/22/05 @ 09:10
		Prepared:	n/a
Submittal #:	36162-31	Prep. Method:	n/a
Submittal:	April 2005 Surface Waters	Analyzed:	04/28/05 by DLVV
		Anal. Method:	USEPA-8260B
Sample ID:	YDRMS003 EAG- 1001410	QC Batch:	105725 -227
Sample #:	387872	Anal. Batch:	231284
Matrix:	Surface Water	Percent Solids:	n/a
Unit:	ug/L	Dilution Factor:	1

CAS Number	Volatile Organics USEPA Method 8260B	Analytical Result	Reporting Limit
71-43-2	Benzene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

End of Analytical Report

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Bicarbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/20/05	230981	INR	<2.0
04/29/05	231441	JLB	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/05	230981	INR	238	248	104	89-111
04/29/05	231441	JLB	238	258	108	89-111

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Carbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/20/05	230981	INR	<2.0
04/29/05	231441	JLB	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/05	230981	INR	377	310	82	77-110
04/29/05	231441	JLB	377	356	94	77-110

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Total**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/20/05	230981	INR	<2.0
04/29/05	231441	JLB	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/05	230981	INR	238	248	104	89-111
04/29/05	231441	JLB	238	258	108	89-111

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QUALITY CONTROL REPORT

Parameter: **Aluminum, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/15/05	230804	KLVM	<50
04/27/05	231241	JLTR	<50
04/30/05	231354	DSC	<50
05/03/05	231462	DSC	<50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/15/05	230804	KLVM	2500	2549	102	90-110
04/30/05	231354	DSC	2500	2399	96	90-110
05/03/05	231462	DSC	2500	2351	94	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/15/05	105425	KLVM	<200
04/27/05	105719	JLTR	<50
04/30/05	105529	DSC	<50
05/03/05	105841	DSC	<50
05/03/05	105842	DSC	<50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/15/05	105425	KLVM	1250	1218	97	86-120
04/27/05	105719	JLTR	1250	1285	103	86-120

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Individual sample results relate only to the sample tested.

QUALITY CONTROL REPORT

Parameter: **Aluminum, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/30/05	105529	DSC	1250	1221	98	86-120
05/03/05	105841	DSC	1250	1369	110	86-120
05/03/05	105842	DSC	1250	1138	91	86-120

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QUALITY CONTROL REPORT

Parameter: **Antimony, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/20/05	230917	DSC	<1.0
04/21/05	230998	DSC	<2.0
04/30/05	231414	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/05	230917	DSC	40	41.9	105	90-110
04/21/05	230998	DSC	40	40.3	101	90-110
04/30/05	231414	JMF	40	40.7	102	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/20/05	105508	DSC	<1.0
04/21/05	105552	DSC	<2.0
04/30/05	105827	JMF	<1.0
04/30/05	105832	JMF	<2.0
04/30/05	105846	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/05	105508	DSC	100	94.4	94	83-129
04/21/05	105552	DSC	100	86.5	87	83-129
04/30/05	105827	JMF	100	90.2	90	83-129

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QUALITY CONTROL REPORT

Parameter: **Antimony, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/30/05	105832	JMF	100	95.0	95	83-129
04/30/05	105846	JMF	100	95.5	96	83-129

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/20/05	230917	DSC	<1.0
04/21/05	230998	DSC	<1.0
04/22/05	231041	DSC	<1.0
04/30/05	231414	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/05	230917	DSC	40	39.9	100	90-110
04/21/05	230998	DSC	40	40.0	100	90-110
04/30/05	231414	JMF	40	41.0	103	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/20/05	105508	DSC	<1.0
04/21/05	105552	DSC	<1.0
04/30/05	105827	JMF	<1.0
04/30/05	105832	JMF	<1.0
04/30/05	105846	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/05	105508	DSC	100	95.8	96	84-112
04/21/05	105552	DSC	100	82.6	83	83-111

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QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/30/05	105827	JMF	100	94.6	95	83-111
04/30/05	105832	JMF	100	94.4	94	83-111
04/30/05	105846	JMF	100	94.6	95	83-111

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/30/05	231354	DSC	<10

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/20/05	230917	DSC	<10
04/21/05	230998	DSC	<10
04/30/05	231414	JMF	<5.0
05/04/05	231513	KLVM	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/05	230917	DSC	40	39.7	99	90-110
04/21/05	230998	DSC	40	40.0	100	90-110
04/30/05	231414	JMF	40	40.3	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/20/05	105508	DSC	<1.0
04/21/05	105552	DSC	<10
04/30/05	105827	JMF	<5.0
04/30/05	105832	JMF	<10
04/30/05	105846	JMF	<5.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/05	105508	DSC	100	99.1	99	86-119
04/21/05	105552	DSC	100	89.1	89	86-119

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/30/05	105827	JMF	100	100.5	101	86-119
04/30/05	105832	JMF	100	103.4	103	86-119
04/30/05	105846	JMF	100	101.0	101	86-119

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QUALITY CONTROL REPORT

Parameter: **Beryllium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/15/05	230804	KLVM	<10

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QUALITY CONTROL REPORT

Parameter: **Beryllium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/20/05	230917	DSC	<1.0
04/22/05	231041	DSC	<1.0
04/30/05	231414	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/05	230917	DSC	40	40.4	101	90-110
04/22/05	231041	DSC	40	41.2	103	90-110
04/30/05	231414	JMF	40	40.0	100	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/20/05	105508	DSC	<1.0
04/22/05	105552	DSC	<1.0
04/30/05	105827	JMF	<1.0
04/30/05	105832	JMF	<1.0
04/30/05	105846	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/05	105508	DSC	100	86.8	87	81-116
04/22/05	105552	DSC	100	83.6	84	81-116
04/30/05	105827	JMF	100	88.9	89	81-116

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QUALITY CONTROL REPORT

Parameter: **Beryllium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/30/05	105832	JMF	100	91.8	92	81-116
04/30/05	105846	JMF	100	90.0	90	81-116

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QUALITY CONTROL REPORT

Parameter: **BOD, (5-Day)**
Method: Biochemical Oxygen Demand SDM 5210B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/14/05	230971	JLB	<1.0
04/15/05	230937	JLB	<1.0
04/21/05	231170	JLB	<1.0
04/22/05	231270	JLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/14/05	230971	JLB	198	210	106	85-115
04/15/05	230937	JLB	198	213	108	85-115
04/21/05	231170	JLB	198	205	104	85-115
04/22/05	231270	JLB	198	184	93	85-115

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QUALITY CONTROL REPORT

Parameter: **Boron, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/20/05	231071	DSC	<50
04/22/05	231041	DSC	<50
04/30/05	231414	JMF	<20
05/03/05	231489	DWJ	<20

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/05	231071	DSC	40	41.2	103	90-110
04/22/05	231041	DSC	40	43.2	108	90-110
04/30/05	231414	JMF	40	41.2	103	90-110
05/03/05	231489	DWJ	40	40.9	102	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/20/05	105508	DSC	<50
04/22/05	105552	DSC	<50
04/30/05	105827	JMF	<20
04/30/05	105832	JMF	<50
04/30/05	105846	JMF	<20

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/05	105508	DSC	100	91.7	92	78-124

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QUALITY CONTROL REPORT

Parameter: **Boron, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/22/05	105552	DSC	100	87.3	87	78-124
04/30/05	105827	JMF	100	97.6	98	78-124
04/30/05	105832	JMF	100	104.3	104	78-124
04/30/05	105846	JMF	100	100.1	100	78-124

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QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/15/05	230804	KLVM	<10

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QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/20/05	230917	DSC	<0.2
04/21/05	230998	DSC	<0.2
04/22/05	231041	DSC	<0.2
04/30/05	231414	JMF	<0.2
05/03/05	231489	DWJ	<0.2
05/04/05	231513	KLVM	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/05	230917	DSC	40	40.7	102	90-110
04/21/05	230998	DSC	40	39.0	98	90-110
04/30/05	231414	JMF	40	40.5	101	90-110
05/03/05	231489	DWJ	40	40.8	102	90-110
05/04/05	231513	KLVM	40	41.0	103	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/20/05	105508	DSC	<0.2
04/21/05	105552	DSC	<0.2
04/30/05	105827	JMF	<0.2
04/30/05	105846	JMF	<0.2
05/03/05	105832	DWJ	<0.2

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/05	105508	DSC	100	93.3	93	83-112

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QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/21/05	105552	DSC	100	83.8	84	83-112
04/30/05	105827	JMF	100	96.5	97	83-112
04/30/05	105846	JMF	100	92.7	93	83-112
05/03/05	105832	DWJ	100	95.0	95	83-112

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QUALITY CONTROL REPORT

Parameter: **Carbon, Total Organic**
Method: Organic Carbon, Total EPA 415.1/5310D WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/15/05	230852	SAJ	<1.0
04/22/05	231079	SAJ	<1.0
04/27/05	231268	SAJ	<1.0
04/29/05	231449	SAJ	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/15/05	230852	SAJ	25	22	88	87-110
04/22/05	231079	SAJ	25	25	100	87-110
04/27/05	231268	SAJ	25	25	100	87-110
04/29/05	231449	SAJ	25	25	100	87-110

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QUALITY CONTROL REPORT

Parameter: **Chemical Oxygen Demand**
Method: Closed Reflux, Colorimetric Method 410.4/SM 5220 D WATER
Units: mg/L

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/18/05	105437	JMJ	<5.0
04/26/05	105656	JMJ	<5.0
04/29/05	105756	JMJ	<5.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/18/05	105437	JMJ	30	29	97	90-110
04/26/05	105656	JMJ	30	29	97	90-110
04/29/05	105756	JMJ	30	30	100	90-110

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QUALITY CONTROL REPORT

Parameter: **Chloride**
Method: Colorimetric, Automated Ferricyanide 325.2/4500-CL E WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/14/05	230737	JLB	<1.0
04/19/05	230869	JLB	<1.0
04/22/05	231063	JLB	<1.0
04/27/05	231314	JLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/14/05	230737	JLB	78.1	72.7	93	92-109
04/19/05	230869	JLB	78.1	72.7	93	92-109
04/22/05	231063	JLB	78.1	72.6	93	92-109
04/27/05	231314	JLB	78.1	72.6	93	92-109

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QUALITY CONTROL REPORT

Parameter: **Chromium, Total**
Method: Atomic Emission-ICP EPA-200.7/601CB WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/15/05	230804	KLVM	<50
05/02/05	231390	JLTR	<50

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QUALITY CONTROL REPORT

Parameter: **Chromium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/20/05	230917	DSC	<1.0
04/21/05	230998	DSC	<1.0
04/22/05	231041	DSC	<1.0
04/30/05	231414	JMF	<1.0
05/03/05	231489	DWJ	<1.0
05/04/05	231513	KLVM	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/05	230917	DSC	40	40.8	102	90-110
04/21/05	230998	DSC	40	40.7	102	90-110
04/30/05	231414	JMF	40	41.9	105	90-110
05/03/05	231489	DWJ	40	40.3	101	90-110
05/04/05	231513	KLVM	40	41.0	103	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/20/05	105508	DSC	<1.0
04/21/05	105552	DSC	<1.0
04/30/05	105827	JMF	<1.0
04/30/05	105846	JMF	<1.0
05/03/05	105832	DWJ	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/05	105508	DSC	100	108.4	108	84-122

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QUALITY CONTROL REPORT

Parameter: **Chromium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/21/05	105552	DSC	100	91.1	91	84-122
04/30/05	105827	JMF	100	103.7	104	84-122
04/30/05	105846	JMF	100	113.0	113	84-122
05/03/05	105832	DWJ	100	94.8	95	84-122

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QUALITY CONTROL REPORT

Parameter: **Cobalt, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/27/05	231241	JLTR	<15

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QUALITY CONTROL REPORT

Parameter: **Cobalt, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/20/05	230917	DSC	<1.0
04/21/05	230998	DSC	<10
04/30/05	231414	JMF	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/05	230917	DSC	40	44.1	110	90-110
04/21/05	230998	DSC	40	42.1	105	90-110
04/30/05	231414	JMF	40	39.4	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/20/05	105508	DSC	<1.0
04/21/05	105552	DSC	<10
04/30/05	105827	JMF	<10
04/30/05	105832	JMF	<10
04/30/05	105846	JMF	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/05	105508	DSC	100	104.2	104	80-125
04/21/05	105552	DSC	100	93.4	93	80-125
04/30/05	105827	JMF	100	100.0	100	80-125

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QUALITY CONTROL REPORT

Parameter: **Cobalt, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/30/05	105832	JMF	100	103.3	103	80-125
04/30/05	105846	JMF	100	102.4	102	80-125

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QUALITY CONTROL REPORT

Parameter: **Color (Apparent)**
Method: Colorimetric, Platinum-Cobalt USEPA-110.2 WATER
Units: A.C.U.

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/13/05	230735	GEH	<5
04/14/05	230736	GEH	<5
04/15/05	230856	GEH	<5
04/20/05	231082	GEH	<5
04/22/05	231143	GEH	<5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/13/05	230735	GEH	50	50	100	80-120
04/14/05	230736	GEH	50	50	100	80-120
04/15/05	230856	GEH	25	25	100	80-120
04/20/05	231082	GEH	50	50	100	80-120
04/22/05	231143	GEH	25	25	100	80-120

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/15/05	230804	KLVM	<10
04/30/05	231354	DSC	<10
05/02/05	231390	JLTR	<10

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/20/05	230917	DSC	<1.0
04/21/05	230998	DSC	<1.0
04/22/05	231041	DSC	<1.0
04/30/05	231414	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/05	230917	DSC	40	40.3	101	90-110
04/21/05	230998	DSC	40	40.7	102	90-110
04/30/05	231414	JMF	40	42.4	106	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/20/05	105508	DSC	**2.79**
04/21/05	105552	DSC	<1.0
04/30/05	105827	JMF	<1.0
04/30/05	105832	JMF	<1.0
04/30/05	105846	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/05	105508	DSC	100	104.1	104	86-123
04/21/05	105552	DSC	100	90.1	90	86-123

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/30/05	105827	JMF	100	108.1	108	86-123
04/30/05	105832	JMF	100	105.9	106	86-123
04/30/05	105846	JMF	100	102.5	103	86-123

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QUALITY CONTROL REPORT

Parameter: **Fluoride**
Method: Potentiometric, Ion Selective Electrode SM 4500 F-C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/20/05	231012	SAJ	<0.10
04/28/05	231318	SAJ	<0.10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/05	231012	SAJ	0.288	0.317	110	88-116
04/28/05	231318	SAJ	0.288	0.31	108	88-116

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QUALITY CONTROL REPORT

Parameter: **Iron, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/15/05	230804	KLVM	<20
04/20/05	230963	JLTR	<20
04/21/05	230968	JLTR	<20
04/22/05	231032	JMF	<20
04/27/05	231241	JLTR	<20
05/02/05	231430	DSC	<20

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/21/05	230968	JLTR	500	497	99	90-110
04/22/05	231032	JMF	500	481	96	90-110
04/27/05	231241	JLTR	500	507	101	90-110
05/02/05	231430	DSC	500	485	97	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/19/05	105425	JLTR	<20
04/22/05	105529	JMF	<20
04/27/05	105719	JLTR	<20
05/02/05	105841	DSC	<20
05/02/05	105842	DSC	<20

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/19/05	105425	JLTR	250	257	103	83-118

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QUALITY CONTROL REPORT

Parameter: **Iron, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/22/05	105529	JMF	250	266	106	83-118
04/27/05	105719	JLTR	250	282	113	83-118
05/02/05	105841	DSC	250	266	106	83-118
05/02/05	105842	DSC	250	264	106	83-118

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QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/15/05	230804	KLVM	<50
05/02/05	231390	JLTR	<50

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QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/20/05	230917	DSC	<1.0
04/21/05	230998	DSC	<1.0
04/22/05	231041	DSC	<1.0
04/30/05	231414	JMF	<1.0
05/04/05	231513	KLVM	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/05	230917	DSC	40	39.4	99	90-110
04/21/05	230998	DSC	40	39.5	99	90-110
04/30/05	231414	JMF	40	41.0	103	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/20/05	105508	DSC	<1.0
04/21/05	105552	DSC	<1.0
04/30/05	105827	JMF	<1.0
04/30/05	105832	JMF	<1.0
04/30/05	105846	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/05	105508	DSC	100	99.9	100	87-118

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QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/21/05	105552	DSC	100	94.3	94	87-118
04/30/05	105827	JMF	100	103.3	103	87-118
04/30/05	105832	JMF	100	101.2	101	87-118
04/30/05	105846	JMF	100	99.5	100	87-118

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QUALITY CONTROL REPORT

Parameter: **Lithium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/15/05	230804	KLVM	<10
04/20/05	230963	JLTR	<10
04/27/05	231241	JLTR	<10
05/02/05	231430	DSC	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/15/05	230804	KLVM	500	504	101	90-110
04/20/05	230963	JLTR	500	494	99	90-110
04/27/05	231241	JLTR	500	512	102	90-110
05/02/05	231430	DSC	500	501	100	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/15/05	105425	KLVM	<10
04/20/05	105529	JLTR	<10
04/27/05	105719	JLTR	<10
05/02/05	105841	DSC	<10
05/02/05	105842	DSC	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/15/05	105425	KLVM	250	257	103	86-115

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QUALITY CONTROL REPORT

Parameter: **Lithium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/05	105529	JLTR	250	263	105	86-115
04/27/05	105719	JLTR	250	255	102	86-115
05/02/05	105841	DSC	250	262	105	86-115
05/02/05	105842	DSC	250	251	100	86-115

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QUALITY CONTROL REPORT

Parameter: **Magnesium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/15/05	230804	KLVM	<0.50
04/22/05	231032	JMF	<0.50
04/27/05	231241	JLTR	<0.50
05/02/05	231390	JLTR	<0.50
05/02/05	231430	DSC	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/02/05	231390	JLTR	5.0	4.85	97	90-110
05/02/05	231430	DSC	5.0	5.07	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/29/05	105766	DSC	<0.50
05/02/05	105841	DSC	<0.50
05/02/05	105842	DSC	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/29/05	105766	DSC	12.5	12.8	102	87-115
05/02/05	105841	DSC	12.5	13.5	108	87-115
05/02/05	105842	DSC	12.5	13.4	107	87-115

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/15/05	230804	KLVM	<10
04/27/05	231241	JLTR	<10

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/20/05	230917	DSC	<5.0
04/21/05	230998	DSC	<10
04/30/05	231414	JMF	<5.0
05/04/05	231513	KLVM	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/05	230917	DSC	40	43.2	108	90-110
04/21/05	230998	DSC	40	43.3	108	90-110
04/30/05	231414	JMF	40	39.6	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/20/05	105508	DSC	<5.0
04/21/05	105552	DSC	<10
04/30/05	105827	JMF	<5.0
04/30/05	105832	JMF	<10
04/30/05	105846	JMF	<5.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/05	105508	DSC	100	114.0	114	86-124
04/21/05	105552	DSC	100	99.1	99	86-124

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/30/05	105827	JMF	100	98.6	99	86-124
04/30/05	105832	JMF	100	106.6	107	86-124
04/30/05	105846	JMF	100	106.4	106	86-124

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QUALITY CONTROL REPORT

Parameter: **Molybdenum, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/20/05	230917	DSC	<10
04/21/05	230998	DSC	<10
04/30/05	231414	JMF	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/05	230917	DSC	40	40.7	102	90-110
04/21/05	230998	DSC	40	37.9	95	90-110
04/30/05	231414	JMF	40	40.2	101	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/20/05	105508	DSC	<10
04/21/05	105552	DSC	<10
04/30/05	105827	JMF	<10
04/30/05	105832	JMF	<10
04/30/05	105846	JMF	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/05	105508	DSC	100	99.4	99	88-114
04/21/05	105552	DSC	100	92.1	92	88-114
04/30/05	105827	JMF	100	98.1	98	88-114

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QUALITY CONTROL REPORT

Parameter: **Molybdenum, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/30/05	105832	JMF	100	100.9	101	88-114
04/30/05	105846	JMF	100	101.0	101	88-114

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QUALITY CONTROL REPORT

Parameter: Nickel, Total
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/15/05	230804	KLVM	<10
04/27/05	231241	JLTR	<10

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/20/05	230917	DSC	<1.0
04/21/05	230998	DSC	<10
04/30/05	231414	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/05	230917	DSC	40	39.7	99	90-110
04/21/05	230998	DSC	40	40.9	102	90-110
04/30/05	231414	JMF	40	42.5	106	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/20/05	105508	DSC	<1.0
04/21/05	105552	DSC	<1.0
04/30/05	105827	JMF	<1.0
04/30/05	105832	JMF	<1.0
04/30/05	105846	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/05	105508	DSC	100	100.0	100	84-117
04/21/05	105552	DSC	100	90.7	91	84-117
04/30/05	105827	JMF	100	104.0	104	84-117

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/30/05	105832	JMF	100	102.5	103	84-117
04/30/05	105846	JMF	100	100.4	100	84-117

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Ammonia**
Method: Colorimetric, Automated Phenate 350.1/4500 NH3G WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/20/05	230964	GEH	<0.02
04/26/05	231231	GEH	<0.01

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/05	230964	GEH	0.81	0.766	95	90-110
04/26/05	231231	GEH	0.81	0.741	91	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrate**
Method: Colorimetric, Auto-Cadmium Reduction 353.2/4500 NO3F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/15/05	230805	HLB	<0.05
04/20/05	231020	HLB	<0.05
04/23/05	231492	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/15/05	230805	HLB	0.624	0.648	104	90-110
04/20/05	231020	HLB	0.624	0.651	104	90-110
04/23/05	231492	HLB	0.624	0.644	103	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrite**
Method: Colorimetric, Automated USEPA-353.2 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/15/05	230806	HLB	<0.05
04/20/05	231023	HLB	<0.05
04/23/05	231493	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/15/05	230806	HLB	0.50	0.50	100	90-110
04/20/05	231023	HLB	0.50	0.51	102	90-110
04/23/05	231493	HLB	0.50	0.49	98	90-110

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrite**
Method: Nitrite - Spectrophotometric 354.1/4500 NO2B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/14/05	230774	HLB	<0.01

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/14/05	230774	HLB	0.25	0.26	104	89-115

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QUALITY CONTROL REPORT

Parameter: **Potassium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/15/05	230804	KLVM	<0.50
04/20/05	230963	JLTR	<0.10
04/22/05	231032	JMF	<0.10
04/27/05	231241	JLTR	<0.10
05/02/05	231390	JLTR	<0.50
05/02/05	231415	JLTR	<0.50
05/02/05	231430	DSC	<0.10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/02/05	231415	JLTR	5.0	4.98	100	90-110
05/02/05	231430	DSC	5.0	4.94	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/02/05	105841	DSC	<0.10
05/02/05	105842	DSC	<0.20

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/02/05	105841	DSC	12.5	13.5	108	87-125
05/02/05	105842	DSC	12.5	12.9	103	87-125

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QUALITY CONTROL REPORT

Parameter: **Residue,Dissolved @ 180*C**
Method: Residue-Gravimetric, Dried @ 180*C 160.1/SM 2540 C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/14/05	230742	GEH	<2.5
04/15/05	230799	GEH	<2.5
04/19/05	230935	GEH	<2.5
04/21/05	231047	GEH	<2.5
04/25/05	231189	GEH	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/14/05	230742	GEH	1000	982	98	90-108
04/15/05	230799	GEH	1000	1000	100	90-108
04/19/05	230935	GEH	1000	1002	100	90-108
04/21/05	231047	GEH	1000	984	98	90-108
04/21/05	231047	GEH	1000	976	98	90-108
04/25/05	231189	GEH	1000	986	99	90-108
04/25/05	231189	GEH	1000	968	97	90-108
04/25/05	231189	GEH	1000	975	98	90-108
04/25/05	231189	GEH	1000	964	96	90-108

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QUALITY CONTROL REPORT

Parameter: **Residue, Suspended**
Method: Residue-Gravimetric, Dried @ 103-105*C 160.2/SM 2540 D WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/15/05	230800	GEH	<2.5
04/19/05	230936	GEH	<2.5
04/21/05	231043	GEH	<2.5
04/25/05	231243	GEH	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/15/05	230800	GEH	1000	956	96	89-106
04/15/05	230800	GEH	1000	990	99	89-106
04/15/05	230800	GEH	1000	984	98	89-106
04/19/05	230936	GEH	1000	964	96	89-106
04/21/05	231043	GEH	1000	993	99	89-106
04/25/05	231243	GEH	1000	1005	101	89-106
04/25/05	231243	GEH	1000	1010	101	89-106

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QUALITY CONTROL REPORT

Parameter: **Selenium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/20/05	230917	DSC	<1.0
04/21/05	230998	DSC	<1.0
04/22/05	231041	DSC	<1.0
04/30/05	231414	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/05	230917	DSC	40	40.3	101	90-110
04/21/05	230998	DSC	40	40.8	102	90-110
04/30/05	231414	JMF	40	41.4	104	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/20/05	105508	DSC	<1.0
04/21/05	105552	DSC	<2.0
04/30/05	105827	JMF	<1.0
04/30/05	105832	JMF	<2.0
04/30/05	105846	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/05	105508	DSC	100	88.7	89	79-120
04/21/05	105552	DSC	100	75.3	75	75-110

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QUALITY CONTROL REPORT

Parameter: **Selenium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/30/05	105827	JMF	100	85.4	85	75-110
04/30/05	105832	JMF	100	87.0	87	75-110
04/30/05	105846	JMF	100	87.7	88	75-110

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QUALITY CONTROL REPORT

Parameter: **SGT-HEM;Nonpolar Material**
Method: Hexane Extractable Material-SGT USEPA-1664A WATER
Units: mg/L

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/15/05	105462	JMJ	<10
04/26/05	105462	JMJ	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/15/05	105462	JMJ	20	16.9	85	64-132
04/26/05	105462	JMJ	20	16.6	83	64-132

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QUALITY CONTROL REPORT

Parameter: **Silver, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/15/05	230804	KLVM	<10

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QUALITY CONTROL REPORT

Parameter: **Silver, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/20/05	230917	DSC	<0.2
04/22/05	231041	DSC	<0.2
04/30/05	231414	JMF	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/05	230917	DSC	40	40.8	102	90-110
04/22/05	231041	DSC	40	41.8	105	90-110
04/30/05	231414	JMF	40	41.7	104	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/20/05	105508	DSC	<0.2
04/22/05	105552	DSC	<0.2
04/30/05	105827	JMF	<0.2
04/30/05	105832	JMF	<0.2
04/30/05	105846	JMF	<0.2

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/05	105508	DSC	100	100.2	100	86-114
04/22/05	105552	DSC	100	90.2	90	86-114
04/30/05	105827	JMF	100	104.2	104	86-114

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QUALITY CONTROL REPORT

Parameter: **Silver, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/30/05	105832	JMF	100	101.6	102	86-114
04/30/05	105846	JMF	100	97.2	97	86-114

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QUALITY CONTROL REPORT

Parameter: **Sodium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/15/05	230804	KLVM	<0.50
04/20/05	230963	JLTR	<0.50
04/21/05	230968	JLTR	<0.50
04/22/05	231032	JMF	<0.50
04/27/05	231241	JLTR	<0.50
05/02/05	231390	JLTR	<0.50
05/02/05	231415	JLTR	<0.50
05/03/05	231463	DSC	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/02/05	231415	JLTR	5.0	4.88	98	90-110
05/03/05	231463	DSC	5.0	4.85	97	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/03/05	105841	DSC	<0.50
05/03/05	105842	DSC	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/03/05	105841	DSC	12.5	14.5	116	86-117
05/03/05	105842	DSC	12.5	13.5	108	86-117

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QUALITY CONTROL REPORT

Parameter: **Sulfate**
Method: Turbidimetric Method (Manual) EPA-375.4/9038 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/19/05	230873	JLB	<1.0
04/27/05	231272	JLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/19/05	230873	JLB	7.9	7.99	101	85-113
04/27/05	231272	JLB	7.9	8.2	104	85-113

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QUALITY CONTROL REPORT

Parameter: **Sulfide**
Method: Titrimetric, Iodine 376.1/4500 S2-F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/16/05	230850	HLB	<1.0
04/24/05	231156	HLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/16/05	230850	HLB	9.6	9.8	102	97-103
04/24/05	231156	HLB	15.2	15	99	97-103

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QUALITY CONTROL REPORT

Parameter: **Turbidity**
Method: Nephelometric USEPA-180.1 WATER
Units: NTU

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/14/05	230848	HLB	<1.0
04/15/05	230854	HLB	<1.0
04/16/05	230855	HLB	<1.0
04/20/05	231009	HLB	<1.0
04/22/05	231158	HLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/14/05	230848	HLB	402	392	98	90-110
04/15/05	230854	HLB	402	389	97	90-110
04/16/05	230855	HLB	402	394	98	90-110
04/20/05	231009	HLB	402	394	98	90-110
04/22/05	231158	HLB	402	394	98	90-110

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QUALITY CONTROL REPORT

Parameter: Zinc, Total
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/15/05	230804	KLVM	<20

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QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/20/05	230917	DSC	<10
04/21/05	230998	DSC	<10
04/30/05	231414	JMF	<4.0
05/03/05	231489	DWJ	<10
05/04/05	231513	KLVM	<4.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/05	230917	DSC	40	39.9	100	90-110
04/21/05	230998	DSC	40	39.5	99	90-110
04/30/05	231414	JMF	40	41.9	105	90-110
05/03/05	231489	DWJ	40	40.8	102	90-110
05/04/05	231513	KLVM	40	41.3	103	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
04/20/05	105508	DSC	<10
04/21/05	105552	DSC	<10
04/30/05	105827	JMF	<4.0
04/30/05	105846	JMF	**6.55**
05/03/05	105832	DWJ	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/20/05	105508	DSC	100	90.1	90	80-137

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QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/21/05	105552	DSC	100	80.6	81	80-137
04/30/05	105827	JMF	100	92.7	93	80-137
04/30/05	105846	JMF	100	96.3	96	80-137
05/03/05	105832	DWJ	100	90.1	90	80-137

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QUALITY CONTROL REPORT

METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
Method: Volatiles Purge & Trap-GC/MS
Analyst: Diane L. VanMale
Test Date: 04/26/05
Units: ug/L
QC Batch: 105679-126

Parameter	Blank Concentration	Quantitation Limit
Benzene	<1.00	1.0
Ethylbenzene	<1.00	1.0
Toluene	<1.00	1.0
Xylene (Total)	<3.00	3.0

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QUALITY CONTROL REPORT

METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
Method: Volatiles Purge & Trap-GC/MS
Analyst: Diane L. VanMale
Units: ug/L
QC Batch: 105692-125

Test Date: 04/25/05

Parameter	Blank Concentration	Quantitation Limit
Benzene	<1.00	1.0
Ethylbenzene	<1.00	1.0
Toluene	<1.00	1.0
Xylene (Total)	<3.00	3.0

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QUALITY CONTROL REPORT

LABORATORY FORTIFIED BLANK

Fraction: Quality Control Fraction
Method: Volatiles Purge & Trap-GC/MS
Analyst: Diane L. VanMale
Test Date: 04/26/05
Units: ug/L
QC Batch: 105679-126

Parameter	Spike Quantity	Spike Result	Spike % Rec	Control Limits
Benzene	40.0	41.2	103	79 - 120
Ethylbenzene	40.0	40.7	102	77 - 125
Toluene	40.0	40.9	102	79 - 126
Xylene (Total)	120	122	102	80 - 119

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QUALITY CONTROL REPORT

LABORATORY FORTIFIED BLANK

Fraction: Quality Control Fraction
Method: Volatiles Purge & Trap-GC/MS
Analyst: Diane L. VanMale Test Date: 04/25/05
Units: ug/L
QC Batch: 105692-125

Parameter	Spike Quantity	Spike Result	Spike % Rec	Control Limits
Benzene	40.0	42.9	107	79 - 120
Ethylbenzene	40.0	40.8	102	77 - 125
Toluene	40.0	43.4	109	79 - 126
Xylene (Total)	120	127	106	80 - 119

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QUALITY CONTROL REPORT

METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
Method: Volatiles Purge & Trap-GC/MS
Analyst: Diane L. VanMale Test Date: 04/16/05
Units: ug/L
QC Batch: 105463-116

Parameter	Blank Concentration	Quantitation Limit
Benzene	<1.00	1.0
Toluene	<1.00	1.0
Ethylbenzene	<1.00	1.0
Xylene (Total)	<3.00	3.0

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QUALITY CONTROL REPORT

METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
Method: Volatiles Purge & Trap-GC/MS
Analyst: Diane L. VanMale
Test Date: 04/22/05
Units: ug/L
QC Batch: 105692-222

Parameter	Blank Concentration	Quantitation Limit
Benzene	<1.00	1.0
Toluene	<1.00	1.0
Ethylbenzene	<1.00	1.0
Xylene (Total)	<3.00	3.0

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QUALITY CONTROL REPORT

METHOD PREPARATION BLANK

Fraction: Volatile Organics USEPA Method 8260B/624
Method: Volatiles Purge & Trap-GC/MS
Analyst: Diane L. VanMale Test Date: 04/26/05
Units: ug/L
QC Batch: 105679-126

Parameter	Blank Concentration	Quantitation Limit
Benzene	<1.00	1.0
Ethylbenzene	<1.00	1.0
Toluene	<1.00	1.0
Xylene (Total)	<3.00	3.0

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QUALITY CONTROL REPORT

METHOD PREPARATION BLANK

Fraction: Quality Control Fraction
Method: Volatiles Purge & Trap-GC/MS
Analyst: Diane L. VanMale
Units: ug/L
QC Batch: 105725-227

Test Date: 04/27/05

Parameter	Blank Concentration	Quantitation Limit
Benzene	<1.0	1.0
Ethylbenzene	<1.00	1.0
Toluene	<1.0	1.0
Xylene (Total)	<3.00	3.0

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QUALITY CONTROL REPORT

LABORATORY FORTIFIED BLANK

Fraction: Quality Control Fraction
Method: Volatiles Purge & Trap-GC/MS
Analyst: Diane L. VanMale
Test Date: 04/27/05
Units: ug/L
QC Batch: 105725-227

Parameter	Spike Quantity	Spike Result	Spike % Rec	Control Limits
Benzene	40.0	41.1	103	79 - 120
Ethylbenzene	40.0	39.0	98	77 - 125
Toluene	40.0	39.5	99	79 - 126
Xylene (Total)	120	122	102	80 - 119
Methyl(tert)butyl Ether	40.0	38.8	97	66 - 129
1,2,4-Trimethylbenzene	40.0	40.8	102	62 - 143
1,3,5-Trimethylbenzene	40.0	40.0	100	70 - 126
2-Methylnaphthalene	40.0	38.0	95	33 - 151
Naphthalene	40.0	44.0	110	44 - 144

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QUALITY CONTROL REPORT

LABORATORY FORTIFIED BLANK

Fraction: Volatile Organics USEPA-8260B Scan
Method: Volatiles Purge & Trap-GC/MS
Analyst: Diane L. VanMale Test Date: 04/16/05
Units: ug/L
QC Batch: 105463-116

Parameter	Spike Quantity	Spike Result	Spike % Rec	Control Limits
Benzene	40.0	41.0	103	79 - 120
Chlorobenzene	40.0	36.4	91	79 - 122
1,1-Dichloroethylene	40.0	41.0	103	72 - 126
Toluene	40.0	39.6	99	79 - 126
Trichloroethene	40.0	47.2	118	71 - 127

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QUALITY CONTROL REPORT

LABORATORY FORTIFIED BLANK

Fraction: Volatile Organics USEPA-8260B Scan
Method: Volatiles Purge & Trap-GC/MS
Analyst: Diane L. VanMale Test Date: 04/26/05
Units: ug/L
QC Batch: 105679-126

Parameter	Spike Quantity	Spike Result	Spike % Rec	Control Limits
Benzene	40.0	41.2	103	79 - 120
Chlorobenzene	40.0	40.4	101	79 - 122
1,1-Dichloroethylene	40.0	42.4	106	72 - 126
Toluene	40.0	40.9	102	79 - 126
Trichloroethene	40.0	41.4	104	71 - 127

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QUALITY CONTROL REPORT

LABORATORY FORTIFIED BLANK

Fraction: Volatile Organics USEPA-8260B Scan
Method: Volatiles Purge & Trap-GC/MS
Analyst: Diane L. VanMale Test Date: 04/22/05
Units: ug/L
QC Batch: 105692-222

Parameter	Spike Quantity	Spike Result	Spike % Rec	Control Limits
Benzene	10.0	10.5	105	79 - 120
Chlorobenzene	10.0	9.55	96	79 - 122
1,1-Dichloroethylene	10.0	11.1	111	72 - 126
Toluene	10.0	10.2	102	79 - 126
Trichloroethene	10.0	11.9	119	71 - 127

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QUALITY CONTROL REPORT
SURROGATE RECOVERIES

Method: Volatiles Purge & Trap-GC/MS USEPA-8260B WATER

Surrogate Compound List

SUR-1: Dibromofluoromethane-sur
SUR-2: d4-1,2-Dichloroethane-sur
SUR-3: d8-Toluene-sur
SUR-4: 4-Bromofluorobenzene-sur

% R = Percent Recovery

Compounds:		SUR-1	SUR-2	SUR-3	SUR-4
Control Limits:		79-124	75-128	87-113	70-121
Sample # / ID	Batch	% R	% R	% R	% R
MPB-01	105463-116	97	97	97	98
MPB-01	105692-222	104	107	**118**	84
MPB-01	105692-125	104	102	105	101
MPB-01	105679-126	102	102	107	101
MPB-01	105679-126	102	102	107	101
MPB-01	105725-227	102	95	99	98
LFB-01	105463-116	93	98	100	101
LFB-01	105692-222	105	103	113	84
LFB-01	105692-125	104	99	103	101
LFB-01	105679-126	101	100	102	101
LFB-01	105679-126	101	100	102	101
LFB-01	105725-227	100	99	100	102
387121	105463-116	98	96	96	99
387122	105463-116	97	98	95	100
387291	105463-116	98	98	99	99
387292	105463-116	98	101	98	100
387293	105463-116	95	94	93	99
387294	105463-116	97	97	95	97
387295	105463-116	100	98	95	100
387373	105692-222	111	114	**141**	87
387375	105692-222	112	114	**143**	88
387376	105692-125	102	102	105	102
387377	105692-222	114	115	**149**	89
387378	105692-222	116	115	**154**	89
387592	105679-126	104	104	109	102
387593	105679-126	103	105	110	102
387594	105679-126	105	105	110	104
387872	105725-227	100	95	97	99

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Chain of Custody Record

COC No. 17251

Page 1 of 1

For Lab Use Only
Cart: 8
VOA Rack/Tray: 478-W
Receipt Log No.: 35-4
Project Chemist: JK
Laboratory Project No.: 38162-31

Client Name: North Jackson
Address: PO Box 218
Marquette MI 49855
Phone: 906 225 6787
Fax: 906 225 6787

Project Name: Eagle
Client Project No. / P.O. No.: Eagle
Invoice To: ☐ Client ☒ Other (comments)
Contact/Report To: D. Witala

Analyses Requested

Long SW List (607 parameters)
23 60 7 parameters
3 15 11 10 8 9

Container Type (corresponds to Container Packing List): A B C D H F

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

	Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Number of Containers Submitted						Total	Sample Comments
1	01	WS	387121	XORM5002 EAG-1001409	TM088	4/12/05	1215		X	wtr	4	2	6	2	2	1	12	
2	"	"	387122	DUPS001 EAG-1001413	↓	↓	—		X	"	4	2	6	1	1	1	17	
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

Sampled By (print): Richard Eagle
Sampler's Signature: Richard R Eagle
Company: North Jackson

How Shipped? Hand Carrier FedEx
Tracking No.

Comments: Bill to Jon Chemco KMC

1. Relinquished By	Date	Time
Richard R Eagle	4-12-05	05:00
1. Received By	Date	Time

2. Relinquished By	Date	Time
2. Received By	Date	Time

3. Relinquished By	Date	Time
3. Received By Lab By	Date	Time
[illegible]	4/13/05	8:50

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COC No. 16022

Page 1 of 1

For Lab Use Only
Cart: 6
VOA Rack/Tray: 664 W
Receipt Log No.: 37-2
Project Chemist: JN
Laboratory Project No.: 361162-31

Client Name: North Jackson Co
Address: Harbor Hills Suite 102, Mgt MI 49855
Phone: 225-6787
Fax:
Project Name: EAGLE
Client Project No. / P.O. No.: EAGLE
Invoice To: ☐ Client ☒ Other (comments)
Contact/Report To: P Sabee / D Wittala

Surface Water Lab
Levels

Analyses Requested

⇦ PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List) A	B	C	D	F	H	B	Total	Sample Comments
										Number of Containers Submitted								
01	WS	387291	1 STRMS001	TM0978 TM0291	4-13-05	1300		X	W	4	2	6	2	1	2		17	EAG-1001401
		387292	2 STRMS002	TM1150		1100		X										EAG-1001402
		387293	3 STRMS005	TM0291		0920-1000		X										EAG-1001405
		387294	4 DUPS002	TM1150		—	X											EAG-1001414
02	WQ	387295	5 FBKS001	TM0978		1030		X			(1)					No dissolvers		EAG-1001417
03	WQ	387296	6 EQBS001		4/13	1030										1		EAG-1001415
			7															
			8															
			9															
			10															

Sampled By (print): P. Sabee R Eagle
Sampler's Signature: P Sabee Printed R Eagle
Company: North Jackson

How Shipped? Hand Carrier Fed Ex
Tracking No. 7922 5321 7857
7915 9679 3504
7910 3652 4245

Comments: Bill Attn J. Chaney
K-14 C

	Date	Time
1. Relinquished By: P Sabee	4-13-05	1600
1. Received By		
2. Relinquished By		
2. Received By		
3. Relinquished By		
3. Received For Lab By: John Doe	04-14-05	08:30

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Chain of Custody Record

COC No. 17252

Page 1 of 1

For Lab Use Only
Cart: 7
VOA Rack/Tray: 399-R
Receipt Log No.: 39-1
Project Chemist: JK
Laboratory Project No.: 3well02-31

Client Name: North Jackson
Address: Harbor Hill Drive Suite 102
Marquette MI 49855
Phone:
Fax:

Project Name: EAGLE
Client Project No. / P.O. No.:
Invoice To: ☐ Client ☒ Other (comments)
Contact/Report To: D Wittala

Analyses Requested

Container Type (Corresponds to Container Packing List)

Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	A	B	C	D	F	H	Total	Sample Comments
			Number of Containers Submitted							23	15	7 4					
										3	6	11	18	9	8		
G2	WG	387373	1 FBKS002		4-14-05	1130		X	W	4	1	6	2	1	2	16	EAG-1001418
G3		387374	2 EQBS002		4-14-05	1130		X			1					1	EAG-1001416
G1	WS	387375	3 STRMS004		4-14-05	0930		X	W	4	2	6	2	1	1	16	EAG-1001404
		387376	4 STRWS001		4-14-05	1045		X	W	4	2	6	2	1	2	16	EAG-1001406
		387377	5 STRMS003		4-14-05	1145		X	W	4	2	6	2	1	2	16	EAG-1001403
		387378	6 STRES001		4-14-05	1315		X	W	4	2	6	2	1	2	16	EAG-1001407
			7														
			8														
			9														
			10														

Preservatives
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Sampled By (print): Richard Eagle/Dan Wittala
Sampler's Signature: Richard Eagle / Dan Wittala
Company: North Jackson Co

How Shipped? Hand Carrier Fed Ex
Tracking No. 7909 7823 0481 6
7915 9679 3445 / 7909 7759 3747

Comments: Bill Attn J. Chaney KMC

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
Richard Eagle	4-14-05	1630						
1. Received By	Date	Time	2. Received By	Date	Time	3. Received By Lab By	Date	Time
							4/15/05	9:00

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Chain of Custody Record

COC No. 17447

Page ____ of ____

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Cart: 6
VOA Rack/Tray: 21-B
Receipt Log No.: 29-4
Project Chemist: JL
Laboratory Project No.: 30162-31

Client Name: North Jackson
Address: Harbor Hills Dr
Marq MI. 49855
Phone: 906 225 6787
Fax:

Project Name: Eagle
Client Project No. / P.O. No.: Eagle
Invoice To: ☐ Client ☑ Other (comments)
Contact/Report To: P Sabee D Winkler

Analyses Requested

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List) A	B	C	D	F	H	Total	Sample Comments
				Number of Containers Submitted							4	2	6	2	1	2	17	
01	WS	387592	1	CDRA5002	TM12294-19-05		1100											EAG-1001411
		387593	2	CDRM5004	TM1229 TM044K		1140											EAG-1001412
		387594	3	STRES002	TM044K		1340											EAG-1001408
			4															
			5															
			6															
			7															
			8															
			9															
			10															

Sampled By (print): P. Sabee R Eagle
Sampler's Signature: P Sabee Richard R Eagle
Company: NOC

How Shipped? Hand Carrier Fed Ex
Tracking No. 7909 7823 2949 7915 9728 8500

Comments: Bill Alan J Cheney KMC

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
P Sabee	4-19-05	1600						
1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
						[illegible]	04-20-05	08:30

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Chain of Custody Record

COC No. 16021

Page 1 of 1

For Lab Use Only
Cart: 6
VOA Rack/Tray: 447-B
Receipt Log No.: 3-2
Project Chemist: JR
Laboratory Project No.: 34162.31

Client Name: NJE
Address: Harbor Hill Dr, Mesq M. 49855
Phone: 906 225 6767
Fax:

Project Name: Eagle
Client Project No. / P.O. No.: Eagle
Invoice To: ☐ Client ☒ Other (comments)
Contact/Report To: D. Wintala

Analyses Requested

Container Type (corresponds to Container Packing List): A B C D F H

Number of Containers Submitted: 23 15 7 / 3 6 4 1P 9 8

Total

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

	Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Total	Sample Comments
1	01	WS	387872	WRMS003		4-21-05	1100		X	W	4	GAS-1001410
2												
3												
4												
5												
6												
7												
8												
9												
10												

Sampled By (print): Baker
Sampler's Signature: [signature]
Company: NJE

How Shipped? Hand Carrier: Fed Ex
Tracking No.: 7704 8629 2592

Comments: B.U Ath 5 Chem 7 KMC

1. Relinquished By	Date	Time
[signature]	4-21-05	1600

2. Relinquished By	Date	Time

3. Relinquished By	Date	Time

1. Received By	Date	Time

2. Received By	Date	Time

3. Received For Lab By	Date	Time
[signature]	4/22/05	9:00

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TriMatrix
Laboratories, Inc.

May 24, 2005

North Jackson Company
Attn: Mr. Peter Sabee
P.O Box 218
Marquette, MI 49855

RE: Eagle
Submittal Number: 36162-32

Dear Mr. Peter Sabee:

Enclosed is a copy of your laboratory report for test samples received by our laboratory on May 10, 2005.

Please note that the test results of the enclosed analyses relate only to the sample(s) as received at the laboratory, and are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC) standards. Qualification of test standards, including sample acceptance requirements, are presented within the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosure(s)

The total number of pages in this report, including this page, is 72.

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Iron, Dissolved**
Atomic Emission-ICP
WATER EPA-200.7/6010B

Qualification:

One of the matrix spike accuracies fell outside of the laboratory control limits, but the precision between the MS/MSD is within the control limit for this matrix and method. The corresponding sample result is not considered estimated.

Explanation for Sample(s) listed below:

Percent Recovery	Control Limits
101%	74- 121
122%	74- 121

Sample(s) Qualified:	388436	QALM007D	EAG-	1001436

Analysis: **Nitrogen, Nitrate**
Colorimetric, Auto-Cadmium Reduction
WATER 353.2/4500 NO3F

Qualification:

Analysis performed beyond established USEPA maximum allowable parameter hold time. All positive results must be considered estimated, and all non-detectable results must be considered approximate.

Explanation for Sample(s) listed below:

Sample received after EPA established hold time expired.

Sample(s) Qualified:	389426	WLDP001	EAG-	1001419
	389427	WLDP006	EAG-	1001420
	389428	WLDP021	EAG-	1001422
	389429	QALM002A	EAG-	1001425
	389430	QALM002D	EAG-	1001426
	389433	DUPP001	EAG-	1001446
	389548	FBKM003	EAG-	1001457
	389549	FBKM004	EAG-	1001458

Note: This document is included as a part of the analytical report for the above referenced project and submittal, and should be retained as a permanent record thereof.

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STATEMENT OF DATA QUALIFICATIONS

Analysis: **Nitrogen, Nitrate**
Colorimetric, Auto-Cadmium Reduction
WATER 353.2/4500 NO3F

Qualification:

Analysis performed beyond established USEPA maximum allowable parameter hold time. All positive results must be considered estimated, and all non-detectable results must be considered approximate.

Explanation for Sample(s) listed below:

Sample was received with insufficient time to complete analysis with in hold time.

Sample(s) Qualified:	388431	QALM003A	EAG-	1001427
	388432	QALM003B	EAG-	1001428
	388433	QALM005A	EAG-	1001431
	388434	QALM005D	EAG-	1001432

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/26/05 @ 12:50
Sampler: P.S./R.E.
Received: 04/28/05 @ 09:00

Submittal #: **36162-32**
Submittal: Apr/May 2005 Groundwaters

Sample ID: **QALM003A EAG- 1001427**
Sample #: **388431**
Matrix: Ground Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	66	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	05/02/05	JLB	325.2/4500-CL E
	Sulfate	<5.0	5.0	mg/L	05/02/05	JLB	EPA-375.4/9038
	Fluoride	0.12	0.10	mg/L	05/09/05	SAJ	SM 4500 F-C
*	Nitrogen, Nitrate	2.5	0.25	mg/L	04/28/05	HLB	353.2/4500 NO3F
	Residue,Dissolved @ 180*C	92	50	mg/L	04/29/05	GEH	160.1/SM 2540 C
	Calcium, Dissolved	18	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
	Potassium, Dissolved	<0.50	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
	Magnesium, Dissolved	5.4	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
	Sodium, Dissolved	1.2	0.50	mg/L	05/19/05	JLTR	EPA-200.7/6010B
	Aluminum, Dissolved	<50	50	ug/L	05/18/05	JLTR	EPA-200.7/6010B
	Antimony, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
	Arsenic, Dissolved	<2.0	2.0	ug/L	05/14/05	JMF	EPA-200.8/6020
	Barium, Dissolved	<20	20	ug/L	05/14/05	JMF	EPA-200.8/6020
	Beryllium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
	Boron, Dissolved	<100	100	ug/L	05/20/05	JLTR	EPA-200.7/6010B
	Cadmium, Dissolved	<0.5	0.5	ug/L	05/14/05	JMF	EPA-200.8/6020
	Chromium, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
	Cobalt, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
	Copper, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
	Iron, Dissolved	<20	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
	Lithium, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
	Manganese, Dissolved	<20	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
	Molybdenum, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020
	Nickel, Dissolved	<25	25	ug/L	05/14/05	JMF	EPA-200.8/6020
	Lead, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
	Selenium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
	Silver, Dissolved	<0.2	0.2	ug/L	05/14/05	JMF	EPA-200.8/6020
	Zinc, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/26/05 @ 12:05
Sampler: P.S./R.E.
Received: 04/28/05 @ 09:00

Submittal #: **36162-32**
Submittal: Apr/May 2005 Groundwaters

Sample ID: **QALM003B EAG- 1001428**
Sample #: **388432**
Matrix: Ground Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	82	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	05/02/05	JLB	325.2/4500-CL E
	Sulfate	6.3	5.0	mg/L	05/02/05	JLB	EPA-375.4/9038
	Fluoride	0.17	0.10	mg/L	05/09/05	SAJ	SM 4500 F-C
*	Nitrogen, Nitrate	<0.05	0.05	mg/L	04/28/05	HLB	353.2/4500 NO3F
	Residue,Dissolved @ 180*C	90	50	mg/L	04/29/05	GEH	160.1/SM 2540 C
	Calcium, Dissolved	22	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
	Potassium, Dissolved	0.98	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
	Magnesium, Dissolved	6.0	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
	Sodium, Dissolved	2.3	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
	Aluminum, Dissolved	<50	50	ug/L	05/18/05	JLTR	EPA-200.7/6010B
	Antimony, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
	Arsenic, Dissolved	4.9	2.0	ug/L	05/14/05	JMF	EPA-200.8/6020
	Barium, Dissolved	<20	20	ug/L	05/14/05	JMF	EPA-200.8/6020
	Beryllium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
	Boron, Dissolved	<100	100	ug/L	05/20/05	JLTR	EPA-200.7/6010B
	Cadmium, Dissolved	<0.5	0.5	ug/L	05/14/05	JMF	EPA-200.8/6020
	Chromium, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
	Cobalt, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
	Copper, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
	Iron, Dissolved	45	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
	Lithium, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
	Manganese, Dissolved	24	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
	Molybdenum, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020
	Nickel, Dissolved	<25	25	ug/L	05/14/05	JMF	EPA-200.8/6020
	Lead, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
	Selenium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
	Silver, Dissolved	<0.2	0.2	ug/L	05/14/05	JMF	EPA-200.8/6020
	Zinc, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/26/05 @ 10:00
Sampler: P.S./R.E.
Received: 04/28/05 @ 09:00

Submittal #: **36162-32**
Submittal: Apr/May 2005 Groundwaters

Sample ID: **QALM005A EAG- 1001431**
Sample #: **388433**
Matrix: Ground Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	2.8	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	05/02/05	JLB	325.2/4500-CL E
	Sulfate	<5.0	5.0	mg/L	05/02/05	JLB	EPA-375.4/9038
	Fluoride	<0.10	0.10	mg/L	05/09/05	SAJ	SM 4500 F-C
*	Nitrogen, Nitrate	<0.05	0.05	mg/L	04/28/05	HLB	353.2/4500 NO3F
	Residue,Dissolved @ 180*C	<50	50	mg/L	04/29/05	GEH	160.1/SM 2540 C
	Calcium, Dissolved	1.3	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
	Potassium, Dissolved	0.60	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
	Magnesium, Dissolved	<0.50	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
	Sodium, Dissolved	0.69	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
	Aluminum, Dissolved	<50	50	ug/L	05/18/05	JLTR	EPA-200.7/6010B
	Antimony, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
	Arsenic, Dissolved	<2.0	2.0	ug/L	05/14/05	JMF	EPA-200.8/6020
	Barium, Dissolved	<20	20	ug/L	05/14/05	JMF	EPA-200.8/6020
	Beryllium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
	Boron, Dissolved	<100	100	ug/L	05/20/05	JLTR	EPA-200.7/6010B
	Cadmium, Dissolved	<0.5	0.5	ug/L	05/14/05	JMF	EPA-200.8/6020
	Chromium, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
	Cobalt, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
	Copper, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
	Iron, Dissolved	120	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
	Lithium, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
	Manganese, Dissolved	<20	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
	Molybdenum, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020
	Nickel, Dissolved	<25	25	ug/L	05/14/05	JMF	EPA-200.8/6020
	Lead, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
	Selenium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
	Silver, Dissolved	<0.2	0.2	ug/L	05/14/05	JMF	EPA-200.8/6020
	Zinc, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/26/05 @ 11:15
Sampler: P.S./R.E.
Received: 04/28/05 @ 09:00

Submittal #: **36162-32**
Submittal: Apr/May 2005 Groundwaters

Sample ID: **QALM005D EAG- 1001432**
Sample #: **388434**
Matrix: Ground Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	86	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	05/02/05	JLB	325.2/4500-CL E
	Sulfate	<5.0	5.0	mg/L	05/02/05	JLB	EPA-375.4/9038
	Fluoride	0.16	0.10	mg/L	05/09/05	SAJ	SM 4500 F-C
*	Nitrogen, Nitrate	<0.05	0.05	mg/L	04/28/05	HLB	353.2/4500 NO3F
	Residue,Dissolved @ 180*C	94	50	mg/L	04/29/05	GEH	160.1/SM 2540 C
	Calcium, Dissolved	28	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
	Potassium, Dissolved	0.58	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
	Magnesium, Dissolved	2.9	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
	Sodium, Dissolved	1.4	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
	Aluminum, Dissolved	<50	50	ug/L	05/18/05	JLTR	EPA-200.7/6010B
	Antimony, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
	Arsenic, Dissolved	3.7	2.0	ug/L	05/14/05	JMF	EPA-200.8/6020
	Barium, Dissolved	30	20	ug/L	05/14/05	JMF	EPA-200.8/6020
	Beryllium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
	Boron, Dissolved	<100	100	ug/L	05/20/05	JLTR	EPA-200.7/6010B
	Cadmium, Dissolved	<0.5	0.5	ug/L	05/14/05	JMF	EPA-200.8/6020
	Chromium, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
	Cobalt, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
	Copper, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
	Iron, Dissolved	670	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
	Lithium, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
	Manganese, Dissolved	200	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
	Molybdenum, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020
	Nickel, Dissolved	<25	25	ug/L	05/14/05	JMF	EPA-200.8/6020
	Lead, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
	Selenium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
	Silver, Dissolved	<0.2	0.2	ug/L	05/14/05	JMF	EPA-200.8/6020
	Zinc, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/26/05 @ 14:15
Sampler: P.S./R.E.
Received: 04/28/05 @ 09:00

Submittal #: **36162-32**
Submittal: Apr/May 2005 Groundwaters

Sample ID: **QALM007A EAG- 1001435**
Sample #: **388435**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	16	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	05/02/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	05/02/05	JLB	EPA-375.4/9038
Fluoride	0.13	0.10	mg/L	05/09/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	0.37	0.05	mg/L	04/28/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	04/29/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	6.3	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Potassium, Dissolved	0.78	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Magnesium, Dissolved	0.81	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Sodium, Dissolved	0.68	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	05/14/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	05/20/05	JLTR	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	05/14/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	05/14/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	05/14/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/26/05 @ 15:00
Sampler: P.S./R.E.
Received: 04/28/05 @ 09:00

Submittal #: **36162-32**
Submittal: Apr/May 2005 Groundwaters

Sample ID: **QALM007D EAG- 1001436**
Sample #: **388436**
Matrix: Ground Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	105	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	05/02/05	JLB	325.2/4500-CL E
	Sulfate	<5.0	5.0	mg/L	05/02/05	JLB	EPA-375.4/9038
	Fluoride	0.18	0.10	mg/L	05/09/05	SAJ	SM 4500 F-C
	Nitrogen, Nitrate	<0.05	0.05	mg/L	04/28/05	HLB	353.2/4500 NO3F
	Residue,Dissolved @ 180*C	132	50	mg/L	04/29/05	GEH	160.1/SM 2540 C
	Calcium, Dissolved	31	0.50	mg/L	05/09/05	JLTR	EPA-200.7/6010B
	Potassium, Dissolved	1.1	0.50	mg/L	05/09/05	JLTR	EPA-200.7/6010B
	Magnesium, Dissolved	4.1	0.50	mg/L	05/09/05	JLTR	EPA-200.7/6010B
	Sodium, Dissolved	3.8	0.50	mg/L	05/10/05	DWJ	EPA-200.7/6010B
	Aluminum, Dissolved	<50	50	ug/L	05/09/05	JLTR	EPA-200.7/6010B
	Antimony, Dissolved	<5.0	5.0	ug/L	05/11/05	JMF	EPA-200.8/6020
	Arsenic, Dissolved	<2.0	2.0	ug/L	05/10/05	JMF	EPA-200.8/6020
	Barium, Dissolved	29	20	ug/L	05/10/05	JMF	EPA-200.8/6020
	Beryllium, Dissolved	<1.0	1.0	ug/L	05/10/05	JMF	EPA-200.8/6020
	Boron, Dissolved	<100	100	ug/L	05/10/05	DWJ	EPA-200.7/6010B
	Cadmium, Dissolved	<0.5	0.5	ug/L	05/11/05	JMF	EPA-200.8/6020
	Chromium, Dissolved	<5.0	5.0	ug/L	05/10/05	JMF	EPA-200.8/6020
	Cobalt, Dissolved	10	10	ug/L	05/09/05	JLTR	EPA-200.7/6010B
	Copper, Dissolved	<5.0	5.0	ug/L	05/10/05	JMF	EPA-200.8/6020
*	Iron, Dissolved	1720	20	ug/L	05/09/05	JLTR	EPA-200.7/6010B
	Lithium, Dissolved	<10	10	ug/L	05/09/05	JLTR	EPA-200.7/6010B
	Manganese, Dissolved	120	20	ug/L	05/09/05	JLTR	EPA-200.7/6010B
	Molybdenum, Dissolved	<10	10	ug/L	05/10/05	JMF	EPA-200.8/6020
	Nickel, Dissolved	<25	25	ug/L	05/11/05	JMF	EPA-200.8/6020
	Lead, Dissolved	<1.0	1.0	ug/L	05/10/05	JMF	EPA-200.8/6020
	Selenium, Dissolved	<1.0	1.0	ug/L	05/10/05	JMF	EPA-200.8/6020
	Silver, Dissolved	<0.2	0.2	ug/L	05/10/05	JMF	EPA-200.8/6020
	Zinc, Dissolved	<10	10	ug/L	05/10/05	JMF	EPA-200.8/6020

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/26/05 @ 16:00
Sampler: P.S./R.E.
Received: 04/28/05 @ 09:00

Submittal #: **36162-32**
Submittal: Apr/May 2005 Groundwaters

Sample ID: **QALM010A EAG- 1001441**
Sample #: **388437**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	39	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	05/02/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	05/02/05	JLB	EPA-375.4/9038
Fluoride	0.12	0.10	mg/L	05/09/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	0.19	0.05	mg/L	04/28/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	52	50	mg/L	04/29/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	12	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Potassium, Dissolved	0.92	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Magnesium, Dissolved	2.2	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Sodium, Dissolved	1.4	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Antimony, Dissolved	132	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	90	2.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	05/14/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	1.1	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	05/20/05	JLTR	EPA-200.7/6010B
Cadmium, Dissolved	12	0.5	ug/L	05/14/05	JMF	EPA-200.8/6020
Chromium, Dissolved	21	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Copper, Dissolved	13	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	18	10	ug/L	05/14/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	05/14/05	JMF	EPA-200.8/6020
Lead, Dissolved	16	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Selenium, Dissolved	64	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Silver, Dissolved	6.3	0.2	ug/L	05/14/05	JMF	EPA-200.8/6020
Zinc, Dissolved	28	10	ug/L	05/14/05	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/27/05 @ 11:25
Sampler: P.S./R.E./D.W.
Received: 04/28/05 @ 09:00

Submittal #: **36162-32**
Submittal: Apr/May 2005 Groundwaters

Sample ID: **QALM004A EAG- 1001429**
Sample #: **388438**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	44	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	05/02/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	05/02/05	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	05/09/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	0.19	0.05	mg/L	04/28/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	60	50	mg/L	04/29/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	13	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Potassium, Dissolved	0.54	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Magnesium, Dissolved	2.3	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Sodium, Dissolved	0.87	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	05/14/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	05/20/05	JLTR	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	05/14/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	05/14/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	05/14/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/27/05 @ 11:40
Sampler: P.S./R.E./D.W.
Received: 04/28/05 @ 09:00

Submittal #: **36162-32**
Submittal: Apr/May 2005 Groundwaters

Sample ID: **QALM004D EAG- 1001430**
Sample #: **388439**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	81	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	05/02/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	05/02/05	JLB	EPA-375.4/9038
Fluoride	0.20	0.10	mg/L	05/09/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	04/28/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	104	50	mg/L	04/29/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	25	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Potassium, Dissolved	0.93	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Magnesium, Dissolved	3.3	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Sodium, Dissolved	2.2	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	9.4	2.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	05/14/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	05/14/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Iron, Dissolved	99	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Manganese, Dissolved	58	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	05/14/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	05/14/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/27/05 @ 12:45
Sampler: P.S./R.E./D.W.
Received: 04/28/05 @ 09:00

Submittal #: **36162-32**
Submittal: Apr/May 2005 Groundwaters

Sample ID: **QALM006A EAG- 1001433**
Sample #: **388440**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	3.2	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	05/02/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	05/02/05	JLB	EPA-375.4/9038
Fluoride	0.15	0.10	mg/L	05/09/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	0.14	0.05	mg/L	04/28/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	04/29/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	1.0	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Sodium, Dissolved	0.62	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Aluminum, Dissolved	120	50	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	05/14/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	05/14/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	05/14/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	05/14/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/27/05 @ 13:55
Sampler: P.S./R.E./D.W.
Received: 04/28/05 @ 09:00

Submittal #: **36162-32**
Submittal: Apr/May 2005 Groundwaters

Sample ID: **QALM006B EAG- 1001434**
Sample #: **388441**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	71	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Chloride	1.4	1.0	mg/L	05/02/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	05/02/05	JLB	EPA-375.4/9038
Fluoride	0.17	0.10	mg/L	05/09/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	04/28/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	126	50	mg/L	04/29/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	18	0.50	mg/L	05/09/05	JLTR	EPA-200.7/6010B
Potassium, Dissolved	0.62	0.50	mg/L	05/09/05	JLTR	EPA-200.7/6010B
Magnesium, Dissolved	5.2	0.50	mg/L	05/09/05	JLTR	EPA-200.7/6010B
Sodium, Dissolved	1.6	0.50	mg/L	05/09/05	JLTR	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	05/09/05	JLTR	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	05/11/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	05/10/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	05/10/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	05/10/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	05/10/05	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	05/11/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	05/10/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	05/09/05	JLTR	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	05/10/05	JMF	EPA-200.8/6020
Iron, Dissolved	13800	20	ug/L	05/09/05	JLTR	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	05/09/05	JLTR	EPA-200.7/6010B
Manganese, Dissolved	140	20	ug/L	05/09/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	05/10/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	05/11/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	05/10/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	05/10/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	05/10/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	05/10/05	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/27/05 @ 12:45
Sampler: P.S./R.E./D.W.
Received: 04/28/05 @ 09:00

Submittal #: **36162-32**
Submittal: Apr/May 2005 Groundwaters

Sample ID: **QALM008A EAG- 1001437**
Sample #: **388442**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	31	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	05/02/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	05/02/05	JLB	EPA-375.4/9038
Fluoride	0.11	0.10	mg/L	05/09/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	0.10	0.05	mg/L	04/28/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	04/29/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	9.8	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Potassium, Dissolved	0.65	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Magnesium, Dissolved	1.5	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Sodium, Dissolved	0.98	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	05/14/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	05/14/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	05/14/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	05/14/05	JMF	EPA-200.8/6020
Zinc, Dissolved	52	10	ug/L	05/14/05	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/27/05 @ 15:30
Sampler: P.S./R.E./D.W.
Received: 04/28/05 @ 09:00

Submittal #: **36162-32**
Submittal: Apr/May 2005 Groundwaters

Sample ID: **QALM009A EAG- 1001439**
Sample #: **388443**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	52	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	05/02/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	05/02/05	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	05/09/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	0.20	0.05	mg/L	04/28/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	04/29/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	14	0.50	mg/L	05/09/05	JLTR	EPA-200.7/6010B
Potassium, Dissolved	0.93	0.50	mg/L	05/09/05	JLTR	EPA-200.7/6010B
Magnesium, Dissolved	2.4	0.50	mg/L	05/09/05	JLTR	EPA-200.7/6010B
Sodium, Dissolved	0.95	0.50	mg/L	05/09/05	JLTR	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	05/09/05	JLTR	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	05/11/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	05/10/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	05/10/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	05/10/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	05/10/05	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	05/11/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	05/10/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	05/09/05	JLTR	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	05/10/05	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	05/09/05	JLTR	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	05/09/05	JLTR	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	05/09/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	05/10/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	05/11/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	05/10/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	05/10/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	05/10/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	05/10/05	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/27/05 @ 13:15
Sampler: P.S./R.E./D.W.
Received: 04/28/05 @ 09:00

Submittal #: **36162-32**
Submittal: Apr/May 2005 Groundwaters

Sample ID: **QALM008D EAG- 1001438**
Sample #: **388444**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	50	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Chloride	2.5	1.0	mg/L	05/02/05	JLB	325.2/4500-CL E
Sulfate	7.9	5.0	mg/L	05/02/05	JLB	EPA-375.4/9038
Fluoride	0.15	0.10	mg/L	05/09/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	0.06	0.05	mg/L	04/28/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	90	50	mg/L	04/29/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	14	0.50	mg/L	05/09/05	JLTR	EPA-200.7/6010B
Potassium, Dissolved	1.2	0.50	mg/L	05/09/05	JLTR	EPA-200.7/6010B
Magnesium, Dissolved	2.9	0.50	mg/L	05/09/05	JLTR	EPA-200.7/6010B
Sodium, Dissolved	2.1	0.50	mg/L	05/09/05	JLTR	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	05/09/05	JLTR	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	05/11/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	3.0	2.0	ug/L	05/10/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	05/10/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	05/10/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	05/10/05	DWJ	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	05/11/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	05/10/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	05/09/05	JLTR	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	05/10/05	JMF	EPA-200.8/6020
Iron, Dissolved	56	20	ug/L	05/09/05	JLTR	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	05/09/05	JLTR	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	05/09/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	05/10/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	05/11/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	05/10/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	05/10/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	05/10/05	JMF	EPA-200.8/6020
Zinc, Dissolved	12	10	ug/L	05/10/05	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/27/05 @ 00:00
Sampler: P.S./R.E./D.W.
Received: 04/28/05 @ 09:00

Submittal #: **36162-32**
Submittal: Apr/May 2005 Groundwaters

Sample ID: **DUPM002 EAG- 1001447**
Sample #: **388445**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	39	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	05/02/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	05/02/05	JLB	EPA-375.4/9038
Fluoride	0.10	0.10	mg/L	05/09/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	0.19	0.05	mg/L	04/28/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	04/29/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	13	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Potassium, Dissolved	0.54	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Magnesium, Dissolved	2.2	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Sodium, Dissolved	0.90	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	05/14/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	05/14/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	05/14/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	05/14/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/27/05 @ 00:00
Sampler: P.S./R.E./D.W.
Received: 04/28/05 @ 09:00

Submittal #: **36162-32**
Submittal: Apr/May 2005 Groundwaters

Sample ID: **DUPM003 EAG- 1001448**
Sample #: **388446**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	82	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Chloride	1.2	1.0	mg/L	05/02/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	05/02/05	JLB	EPA-375.4/9038
Fluoride	0.15	0.10	mg/L	05/09/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	04/28/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	82	50	mg/L	04/29/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	25	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Potassium, Dissolved	0.81	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Magnesium, Dissolved	3.3	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Sodium, Dissolved	2.2	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	9.5	2.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	05/14/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	05/14/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Iron, Dissolved	100	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Manganese, Dissolved	59	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	05/14/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	05/14/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/28/05 @ 15:26
Sampler: P.S./R.E.
Received: 04/29/05 @ 08:50

Submittal #: **36162-32**
Submittal: Apr/May 2005 Groundwaters

Sample ID: **QALM001A EAG- 1001423**
Sample #: **388627**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	54	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	05/02/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	05/02/05	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	05/09/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	0.05	0.05	mg/L	04/29/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	05/04/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	16	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Potassium, Dissolved	0.87	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Magnesium, Dissolved	2.8	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Sodium, Dissolved	1.3	0.50	mg/L	05/20/05	JLTR	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	05/14/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	05/14/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	05/14/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	05/14/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/28/05 @ 16:09
Sampler: P.S./R.E.
Received: 04/29/05 @ 08:50

Submittal #: **36162-32**
Submittal: Apr/May 2005 Groundwaters

Sample ID: **QALM001D EAG- 1001424**
Sample #: **388628**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	72	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	05/02/05	JLB	325.2/4500-CL E
Sulfate	9.2	5.0	mg/L	05/02/05	JLB	EPA-375.4/9038
Fluoride	0.18	0.10	mg/L	05/09/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	04/29/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	66	50	mg/L	05/04/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	13.2	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Potassium, Dissolved	0.66	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Magnesium, Dissolved	3.4	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Sodium, Dissolved	13	2.5	mg/L	05/20/05	JLTR	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	3.9	2.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	05/14/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	05/14/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	11	10	ug/L	05/14/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	05/14/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	05/14/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 04/28/05 @ 14:00
Sampler: P.S./R.E.
Received: 04/29/05 @ 08:50

Submittal #: **36162-32**
Submittal: Apr/May 2005 Groundwaters

Sample ID: **QALM009D EAG- 1001440**
Sample #: **388629**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	67	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	05/02/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	05/02/05	JLB	EPA-375.4/9038
Fluoride	0.20	0.10	mg/L	05/09/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	04/29/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	58	50	mg/L	05/04/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	19	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Potassium, Dissolved	0.84	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Magnesium, Dissolved	4.2	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Sodium, Dissolved	2.6	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	2.3	2.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	05/14/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	05/14/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	05/14/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	05/14/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 05/03/05 @ 10:00
Sampler: D.W./R.E.
Received: 05/04/05 @ 08:40

Submittal #: **36162-32**
Submittal: Apr/May 2005 Groundwaters

Sample ID: **FBKM001 EAG- 1001454**
Sample #: **389082**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	<2.0	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	05/10/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	05/10/05	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	05/09/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	05/05/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	05/04/05	GEH	160.1/SM 2540 C

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 05/03/05 @ 10:30
Sampler: D.W./R.E.
Received: 05/04/05 @ 08:40

Submittal #: **36162-32**
Submittal: Apr/May 2005 Groundwaters

Sample ID: **FBKM002 EAG- 1001455**
Sample #: **389083**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	<2.0	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	05/10/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	05/10/05	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	05/09/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	05/05/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	05/04/05	GEH	160.1/SM 2540 C

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 05/03/05 @ 10:00
Sampler: D.W./R.E.
Received: 05/04/05 @ 08:40

Submittal #: **36162-32**
Submittal: Apr/May 2005 Groundwaters

Sample ID: **EQBM001 EAG- 1001450**
Sample #: **389084**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Calcium, Dissolved	<0.50	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	05/17/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	05/14/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	05/14/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	05/14/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 05/03/05 @ 10:30
Sampler: D.W./R.E.
Received: 05/04/05 @ 08:40

Submittal #: **36162-32**
Submittal: Apr/May 2005 Groundwaters

Sample ID: **EQBM002 EAG- 1001451**
Sample #: **389085**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Calcium, Dissolved	<0.50	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	05/17/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	05/14/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	05/14/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	05/14/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 05/03/05 @ 11:10
Sampler: D.W./R.E.
Received: 05/04/05 @ 08:40

Submittal #: **36162-32**
Submittal: Apr/May 2005 Groundwaters

Sample ID: **QALP015 EAG- 1001442**
Sample #: **389086**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	59	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	05/10/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	05/10/05	JLB	EPA-375.4/9038
Fluoride	0.12	0.10	mg/L	05/09/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	0.09	0.05	mg/L	05/05/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	56	50	mg/L	05/04/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	18	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Magnesium, Dissolved	2.9	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Sodium, Dissolved	0.77	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	05/17/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	05/14/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	05/14/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	05/14/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 05/03/05 @ 12:10
Sampler: D.W./R.E.
Received: 05/04/05 @ 08:40

Submittal #: **36162-32**
Submittal: Apr/May 2005 Groundwaters

Sample ID: **QALP016 EAG- 1001443**
Sample #: **389087**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	72	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	05/10/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	05/10/05	JLB	EPA-375.4/9038
Fluoride	0.12	0.10	mg/L	05/09/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	0.11	0.05	mg/L	05/05/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	54	50	mg/L	05/04/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	23	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Magnesium, Dissolved	3.6	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Sodium, Dissolved	0.86	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	05/17/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	05/14/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	05/14/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	05/14/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 05/03/05 @ 13:35
Sampler: D.W./R.E.
Received: 05/04/05 @ 08:40

Submittal #: **36162-32**
Submittal: Apr/May 2005 Groundwaters

Sample ID: **QALP018 EAG- 1001444**
Sample #: **389088**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	56	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	05/10/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	05/10/05	JLB	EPA-375.4/9038
Fluoride	0.12	0.10	mg/L	05/09/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	0.12	0.05	mg/L	05/05/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	56	50	mg/L	05/04/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	17	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Magnesium, Dissolved	3.5	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Sodium, Dissolved	1.1	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	05/17/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	05/14/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Iron, Dissolved	39	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	05/14/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	05/14/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 05/03/05 @ 14:35
Sampler: D.W./R.E.
Received: 05/04/05 @ 08:40

Submittal #: **36162-32**
Submittal: Apr/May 2005 Groundwaters

Sample ID: **QALP020 EAG- 1001445**
Sample #: **389089**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	11	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	05/10/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	05/10/05	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	05/09/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	05/05/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	05/04/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	3.8	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Potassium, Dissolved	1.0	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Magnesium, Dissolved	0.88	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Sodium, Dissolved	0.76	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	05/17/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	05/14/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	05/14/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	05/14/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 05/03/05 @ 00:00
Sampler: D.W./R.E.
Received: 05/04/05 @ 08:40

Submittal #: **36162-32**
Submittal: Apr/May 2005 Groundwaters

Sample ID: **DUPP004 EAG- 1001449**
Sample #: **389090**
Matrix: Ground Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	71	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	05/10/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	05/10/05	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	05/09/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	0.11	0.05	mg/L	05/05/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	52	50	mg/L	05/04/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	23	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Magnesium, Dissolved	3.7	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Sodium, Dissolved	0.88	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	05/17/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	05/14/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	05/14/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	05/14/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 05/04/05 @ 12:45
Sampler: D. Wiitala
Received: 05/05/05 @ 08:40

Submittal #: **36162-32**
Submittal: Apr/May 2005 Groundwaters

Sample ID: **WLDP016 EAG- 101421**
Sample #: **389186**
Matrix: Waste Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	83	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	05/06/05	INR	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	05/10/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	05/10/05	JLB	EPA-375.4/9038
Fluoride	0.11	0.10	mg/L	05/09/05	SAJ	SM 4500 F-C
Nitrogen, Nitrate	<0.05	0.05	mg/L	05/05/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	96	50	mg/L	05/09/05	GEH	160.1/SM 2540 C
Calcium, Dissolved	25	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Potassium, Dissolved	0.90	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Magnesium, Dissolved	5.9	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Sodium, Dissolved	1.2	0.50	mg/L	05/18/05	JLTR	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	05/17/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	05/14/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Iron, Dissolved	140	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	05/18/05	JLTR	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	05/14/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	05/14/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	05/14/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	05/14/05	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 05/05/05 @ 11:20
Sampler: P.S./R.E.
Received: 05/09/05 @ 10:22

Submittal #: **36162-32**
Submittal: Apr/May 2005 Groundwaters

Sample ID: **WLDP001 EAG- 1001419**
Sample #: **389426**
Matrix: Ground Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	81	2.0	mg/L	05/13/05	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	05/13/05	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	05/16/05	JLB	325.2/4500-CL E
	Sulfate	<5.0	5.0	mg/L	05/16/05	JLB	EPA-375.4/9038
	Fluoride	0.10	0.10	mg/L	05/17/05	SAJ	SM 4500 F-C
*	Nitrogen, Nitrate	<0.05	0.05	mg/L	05/11/05	HLB	353.2/4500 NO3F
	Residue,Dissolved @ 180*C	74	50	mg/L	05/11/05	GEH	160.1/SM 2540 C
	Calcium, Dissolved	22	0.50	mg/L	05/13/05	DSC	EPA-200.7/6010B
	Potassium, Dissolved	0.86	0.50	mg/L	05/13/05	DSC	EPA-200.7/6010B
	Magnesium, Dissolved	4.4	0.50	mg/L	05/13/05	DSC	EPA-200.7/6010B
	Sodium, Dissolved	0.60	0.50	mg/L	05/13/05	DSC	EPA-200.7/6010B
	Aluminum, Dissolved	<50	50	ug/L	05/13/05	DSC	EPA-200.7/6010B
	Antimony, Dissolved	<5.0	5.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Arsenic, Dissolved	<2.0	2.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Barium, Dissolved	<20	20	ug/L	05/18/05	JMF	EPA-200.8/6020
	Beryllium, Dissolved	<1.0	1.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Boron, Dissolved	<100	100	ug/L	05/13/05	DSC	EPA-200.7/6010B
	Cadmium, Dissolved	<0.5	0.5	ug/L	05/18/05	JMF	EPA-200.8/6020
	Chromium, Dissolved	<5.0	5.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Cobalt, Dissolved	<10	10	ug/L	05/13/05	DSC	EPA-200.7/6010B
	Copper, Dissolved	<5.0	5.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Iron, Dissolved	860	20	ug/L	05/13/05	DSC	EPA-200.7/6010B
	Lithium, Dissolved	<10	10	ug/L	05/13/05	DSC	EPA-200.7/6010B
	Manganese, Dissolved	22	20	ug/L	05/13/05	DSC	EPA-200.7/6010B
	Molybdenum, Dissolved	<10	10	ug/L	05/18/05	JMF	EPA-200.8/6020
	Nickel, Dissolved	<25	25	ug/L	05/18/05	JMF	EPA-200.8/6020
	Lead, Dissolved	<1.0	1.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Selenium, Dissolved	<1.0	1.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Silver, Dissolved	<0.2	0.2	ug/L	05/18/05	JMF	EPA-200.8/6020
	Zinc, Dissolved	<10	10	ug/L	05/18/05	JMF	EPA-200.8/6020

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 05/05/05 @ 10:40
Sampler: P.S./R.E.
Received: 05/09/05 @ 10:22

Submittal #: **36162-32**
Submittal: Apr/May 2005 Groundwaters

Sample ID: **WLDP006 EAG- 1001420**
Sample #: **389427**
Matrix: Ground Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	7.3	2.0	mg/L	05/13/05	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	05/13/05	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	05/16/05	JLB	325.2/4500-CL E
	Sulfate	<5.0	5.0	mg/L	05/16/05	JLB	EPA-375.4/9038
	Fluoride	0.38	0.10	mg/L	05/17/05	SAJ	SM 4500 F-C
*	Nitrogen, Nitrate	<0.05	0.05	mg/L	05/11/05	HLB	353.2/4500 NO3F
	Residue,Dissolved @ 180*C	<50	50	mg/L	05/11/05	GEH	160.1/SM 2540 C
	Calcium, Dissolved	<0.50	0.50	mg/L	05/13/05	DSC	EPA-200.7/6010B
	Potassium, Dissolved	<0.50	0.50	mg/L	05/13/05	DSC	EPA-200.7/6010B
	Magnesium, Dissolved	<0.50	0.50	mg/L	05/13/05	DSC	EPA-200.7/6010B
	Sodium, Dissolved	<0.50	0.50	mg/L	05/13/05	DSC	EPA-200.7/6010B
	Aluminum, Dissolved	500	50	ug/L	05/13/05	DSC	EPA-200.7/6010B
	Antimony, Dissolved	<5.0	5.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Arsenic, Dissolved	<2.0	2.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Barium, Dissolved	<20	20	ug/L	05/18/05	JMF	EPA-200.8/6020
	Beryllium, Dissolved	<1.0	1.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Boron, Dissolved	<100	100	ug/L	05/13/05	DSC	EPA-200.7/6010B
	Cadmium, Dissolved	<0.5	0.5	ug/L	05/18/05	JMF	EPA-200.8/6020
	Chromium, Dissolved	<5.0	5.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Cobalt, Dissolved	<10	10	ug/L	05/13/05	DSC	EPA-200.7/6010B
	Copper, Dissolved	<5.0	5.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Iron, Dissolved	8730	20	ug/L	05/13/05	DSC	EPA-200.7/6010B
	Lithium, Dissolved	<10	10	ug/L	05/13/05	DSC	EPA-200.7/6010B
	Manganese, Dissolved	<20	20	ug/L	05/13/05	DSC	EPA-200.7/6010B
	Molybdenum, Dissolved	<10	10	ug/L	05/18/05	JMF	EPA-200.8/6020
	Nickel, Dissolved	<25	25	ug/L	05/18/05	JMF	EPA-200.8/6020
	Lead, Dissolved	<1.0	1.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Selenium, Dissolved	<1.0	1.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Silver, Dissolved	<0.2	0.2	ug/L	05/18/05	JMF	EPA-200.8/6020
	Zinc, Dissolved	<10	10	ug/L	05/18/05	JMF	EPA-200.8/6020

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 05/05/05 @ 13:30
Sampler: P.S./R.E.
Received: 05/09/05 @ 10:22

Submittal #: **36162-32**
Submittal: Apr/May 2005 Groundwaters

Sample ID: **WLDP021 EAG- 1001422**
Sample #: **389428**
Matrix: Ground Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	13	2.0	mg/L	05/13/05	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	05/13/05	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	05/16/05	JLB	325.2/4500-CL E
	Sulfate	<5.0	5.0	mg/L	05/16/05	JLB	EPA-375.4/9038
	Fluoride	<0.10	0.10	mg/L	05/17/05	SAJ	SM 4500 F-C
*	Nitrogen, Nitrate	<0.05	0.05	mg/L	05/11/05	HLB	353.2/4500 NO3F
	Residue,Dissolved @ 180*C	<50	50	mg/L	05/11/05	GEH	160.1/SM 2540 C
	Calcium, Dissolved	5.0	0.50	mg/L	05/13/05	DSC	EPA-200.7/6010B
	Potassium, Dissolved	<0.50	0.50	mg/L	05/13/05	DSC	EPA-200.7/6010B
	Magnesium, Dissolved	0.66	0.50	mg/L	05/13/05	DSC	EPA-200.7/6010B
	Sodium, Dissolved	<0.50	0.50	mg/L	05/13/05	DSC	EPA-200.7/6010B
	Aluminum, Dissolved	470	50	ug/L	05/13/05	DSC	EPA-200.7/6010B
	Antimony, Dissolved	<5.0	5.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Arsenic, Dissolved	4.6	2.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Barium, Dissolved	<20	20	ug/L	05/18/05	JMF	EPA-200.8/6020
	Beryllium, Dissolved	<1.0	1.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Boron, Dissolved	<100	100	ug/L	05/13/05	DSC	EPA-200.7/6010B
	Cadmium, Dissolved	<0.5	0.5	ug/L	05/18/05	JMF	EPA-200.8/6020
	Chromium, Dissolved	<5.0	5.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Cobalt, Dissolved	<10	10	ug/L	05/13/05	DSC	EPA-200.7/6010B
	Copper, Dissolved	<5.0	5.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Iron, Dissolved	1660	20	ug/L	05/13/05	DSC	EPA-200.7/6010B
	Lithium, Dissolved	<10	10	ug/L	05/13/05	DSC	EPA-200.7/6010B
	Manganese, Dissolved	<20	20	ug/L	05/13/05	DSC	EPA-200.7/6010B
	Molybdenum, Dissolved	<10	10	ug/L	05/18/05	JMF	EPA-200.8/6020
	Nickel, Dissolved	<25	25	ug/L	05/18/05	JMF	EPA-200.8/6020
	Lead, Dissolved	<1.0	1.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Selenium, Dissolved	<1.0	1.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Silver, Dissolved	<0.2	0.2	ug/L	05/18/05	JMF	EPA-200.8/6020
	Zinc, Dissolved	119	10	ug/L	05/18/05	JMF	EPA-200.8/6020

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 05/05/05 @ 11:30
Sampler: P.S./R.E.
Received: 05/09/05 @ 10:22

Submittal #: **36162-32**
Submittal: Apr/May 2005 Groundwaters

Sample ID: **QALM002A EAG- 1001425**
Sample #: **389429**
Matrix: Ground Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	34	2.0	mg/L	05/13/05	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	05/13/05	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	05/16/05	JLB	325.2/4500-CL E
	Sulfate	<5.0	5.0	mg/L	05/16/05	JLB	EPA-375.4/9038
	Fluoride	<0.10	0.10	mg/L	05/17/05	SAJ	SM 4500 F-C
*	Nitrogen, Nitrate	<0.05	0.05	mg/L	05/11/05	HLB	353.2/4500 NO3F
	Residue,Dissolved @ 180*C	<50	50	mg/L	05/11/05	GEH	160.1/SM 2540 C
	Calcium, Dissolved	9.0	0.50	mg/L	05/13/05	DSC	EPA-200.7/6010B
	Potassium, Dissolved	0.80	0.50	mg/L	05/13/05	DSC	EPA-200.7/6010B
	Magnesium, Dissolved	1.0	0.50	mg/L	05/13/05	DSC	EPA-200.7/6010B
	Sodium, Dissolved	<0.50	0.50	mg/L	05/13/05	DSC	EPA-200.7/6010B
	Aluminum, Dissolved	<50	50	ug/L	05/13/05	DSC	EPA-200.7/6010B
	Antimony, Dissolved	<5.0	5.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Arsenic, Dissolved	<2.0	2.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Barium, Dissolved	<20	20	ug/L	05/18/05	JMF	EPA-200.8/6020
	Beryllium, Dissolved	<1.0	1.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Boron, Dissolved	<100	100	ug/L	05/13/05	DSC	EPA-200.7/6010B
	Cadmium, Dissolved	<0.5	0.5	ug/L	05/18/05	JMF	EPA-200.8/6020
	Chromium, Dissolved	<5.0	5.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Cobalt, Dissolved	<10	10	ug/L	05/13/05	DSC	EPA-200.7/6010B
	Copper, Dissolved	<5.0	5.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Iron, Dissolved	<20	20	ug/L	05/13/05	DSC	EPA-200.7/6010B
	Lithium, Dissolved	<10	10	ug/L	05/13/05	DSC	EPA-200.7/6010B
	Manganese, Dissolved	<20	20	ug/L	05/13/05	DSC	EPA-200.7/6010B
	Molybdenum, Dissolved	<10	10	ug/L	05/18/05	JMF	EPA-200.8/6020
	Nickel, Dissolved	<25	25	ug/L	05/18/05	JMF	EPA-200.8/6020
	Lead, Dissolved	<1.0	1.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Selenium, Dissolved	<1.0	1.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Silver, Dissolved	<0.2	0.2	ug/L	05/18/05	JMF	EPA-200.8/6020
	Zinc, Dissolved	<10	10	ug/L	05/18/05	JMF	EPA-200.8/6020

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 05/05/05 @ 12:20
Sampler: P.S./R.E.
Received: 05/09/05 @ 10:22

Submittal #: **36162-32**
Submittal: Apr/May 2005 Groundwaters

Sample ID: **QALM002D EAG- 1001426**
Sample #: **389430**
Matrix: Ground Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	103	2.0	mg/L	05/13/05	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	05/13/05	VAS	310.1/SM 2320 B
	Chloride	1.1	1.0	mg/L	05/16/05	JLB	325.2/4500-CL E
	Sulfate	<5.0	5.0	mg/L	05/16/05	JLB	EPA-375.4/9038
	Fluoride	0.12	0.10	mg/L	05/17/05	SAJ	SM 4500 F-C
*	Nitrogen, Nitrate	<0.05	0.05	mg/L	05/11/05	HLB	353.2/4500 NO3F
	Residue,Dissolved @ 180*C	110	50	mg/L	05/11/05	GEH	160.1/SM 2540 C
	Calcium, Dissolved	28	0.50	mg/L	05/13/05	DSC	EPA-200.7/6010B
	Potassium, Dissolved	1.6	0.50	mg/L	05/13/05	DSC	EPA-200.7/6010B
	Magnesium, Dissolved	3.9	0.50	mg/L	05/13/05	DSC	EPA-200.7/6010B
	Sodium, Dissolved	3.9	0.50	mg/L	05/13/05	DSC	EPA-200.7/6010B
	Aluminum, Dissolved	<50	50	ug/L	05/13/05	DSC	EPA-200.7/6010B
	Antimony, Dissolved	<5.0	5.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Arsenic, Dissolved	3.1	2.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Barium, Dissolved	29	20	ug/L	05/18/05	JMF	EPA-200.8/6020
	Beryllium, Dissolved	<1.0	1.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Boron, Dissolved	<100	100	ug/L	05/13/05	DSC	EPA-200.7/6010B
	Cadmium, Dissolved	<0.5	0.5	ug/L	05/18/05	JMF	EPA-200.8/6020
	Chromium, Dissolved	<5.0	5.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Cobalt, Dissolved	<10	10	ug/L	05/13/05	DSC	EPA-200.7/6010B
	Copper, Dissolved	<5.0	5.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Iron, Dissolved	26	20	ug/L	05/13/05	DSC	EPA-200.7/6010B
	Lithium, Dissolved	<10	10	ug/L	05/13/05	DSC	EPA-200.7/6010B
	Manganese, Dissolved	110	20	ug/L	05/13/05	DSC	EPA-200.7/6010B
	Molybdenum, Dissolved	<10	10	ug/L	05/18/05	JMF	EPA-200.8/6020
	Nickel, Dissolved	<25	25	ug/L	05/18/05	JMF	EPA-200.8/6020
	Lead, Dissolved	<1.0	1.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Selenium, Dissolved	<1.0	1.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Silver, Dissolved	<0.2	0.2	ug/L	05/18/05	JMF	EPA-200.8/6020
	Zinc, Dissolved	<10	10	ug/L	05/18/05	JMF	EPA-200.8/6020

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 05/05/05 @ 09:15
Sampler: P.S./R.E.
Received: 05/09/05 @ 10:22

Submittal #: **36162-32**
Submittal: Apr/May 2005 Groundwaters

Sample ID: **EQBM003 EAG- 1001452**
Sample #: **389431**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Calcium, Dissolved	<0.50	0.50	mg/L	05/13/05	DSC	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	05/13/05	DSC	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	05/13/05	DSC	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	05/13/05	DSC	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	05/13/05	DSC	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	05/18/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	05/18/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	05/18/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	05/18/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	05/13/05	DSC	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	05/18/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	05/18/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	05/13/05	DSC	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	05/18/05	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	05/13/05	DSC	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	05/13/05	DSC	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	05/13/05	DSC	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	05/18/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	05/18/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	05/18/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	05/18/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	05/18/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	05/18/05	JMF	EPA-200.8/6020

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 05/05/05 @ 09:30
Sampler: P.S./R.E.
Received: 05/09/05 @ 10:22

Submittal #: **36162-32**
Submittal: Apr/May 2005 Groundwaters

Sample ID: **EQBM004 EAG- 1001453**
Sample #: **389432**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Calcium, Dissolved	<0.50	0.50	mg/L	05/13/05	DSC	EPA-200.7/6010B
Potassium, Dissolved	<0.50	0.50	mg/L	05/13/05	DSC	EPA-200.7/6010B
Magnesium, Dissolved	<0.50	0.50	mg/L	05/13/05	DSC	EPA-200.7/6010B
Sodium, Dissolved	<0.50	0.50	mg/L	05/13/05	DSC	EPA-200.7/6010B
Aluminum, Dissolved	<50	50	ug/L	05/13/05	DSC	EPA-200.7/6010B
Antimony, Dissolved	<5.0	5.0	ug/L	05/18/05	JMF	EPA-200.8/6020
Arsenic, Dissolved	<2.0	2.0	ug/L	05/18/05	JMF	EPA-200.8/6020
Barium, Dissolved	<20	20	ug/L	05/18/05	JMF	EPA-200.8/6020
Beryllium, Dissolved	<1.0	1.0	ug/L	05/18/05	JMF	EPA-200.8/6020
Boron, Dissolved	<100	100	ug/L	05/13/05	DSC	EPA-200.7/6010B
Cadmium, Dissolved	<0.5	0.5	ug/L	05/18/05	JMF	EPA-200.8/6020
Chromium, Dissolved	<5.0	5.0	ug/L	05/18/05	JMF	EPA-200.8/6020
Cobalt, Dissolved	<10	10	ug/L	05/13/05	DSC	EPA-200.7/6010B
Copper, Dissolved	<5.0	5.0	ug/L	05/18/05	JMF	EPA-200.8/6020
Iron, Dissolved	<20	20	ug/L	05/13/05	DSC	EPA-200.7/6010B
Lithium, Dissolved	<10	10	ug/L	05/13/05	DSC	EPA-200.7/6010B
Manganese, Dissolved	<20	20	ug/L	05/13/05	DSC	EPA-200.7/6010B
Molybdenum, Dissolved	<10	10	ug/L	05/18/05	JMF	EPA-200.8/6020
Nickel, Dissolved	<25	25	ug/L	05/18/05	JMF	EPA-200.8/6020
Lead, Dissolved	<1.0	1.0	ug/L	05/18/05	JMF	EPA-200.8/6020
Selenium, Dissolved	<1.0	1.0	ug/L	05/18/05	JMF	EPA-200.8/6020
Silver, Dissolved	<0.2	0.2	ug/L	05/18/05	JMF	EPA-200.8/6020
Zinc, Dissolved	<10	10	ug/L	05/18/05	JMF	EPA-200.8/6020

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 05/05/05 @ 00:00
Sampler: P.S./R.E.
Received: 05/09/05 @ 10:22

Submittal #: **36162-32**
Submittal: Apr/May 2005 Groundwaters

Sample ID: **DUPP001 EAG- 1001446**
Sample #: **389433**
Matrix: Ground Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	6.6	2.0	mg/L	05/13/05	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	05/13/05	VAS	310.1/SM 2320 B
	Chloride	1.3	1.0	mg/L	05/16/05	JLB	325.2/4500-CL E
	Sulfate	<5.0	5.0	mg/L	05/16/05	JLB	EPA-375.4/9038
	Fluoride	<0.10	0.10	mg/L	05/17/05	SAJ	SM 4500 F-C
*	Nitrogen, Nitrate	<0.05	0.05	mg/L	05/11/05	HLB	353.2/4500 NO3F
	Residue,Dissolved @ 180*C	<50	50	mg/L	05/11/05	GEH	160.1/SM 2540 C
	Calcium, Dissolved	<0.50	0.50	mg/L	05/13/05	DSC	EPA-200.7/6010B
	Potassium, Dissolved	<0.50	0.50	mg/L	05/13/05	DSC	EPA-200.7/6010B
	Magnesium, Dissolved	<0.50	0.50	mg/L	05/13/05	DSC	EPA-200.7/6010B
	Sodium, Dissolved	<0.50	0.50	mg/L	05/13/05	DSC	EPA-200.7/6010B
	Aluminum, Dissolved	440	50	ug/L	05/13/05	DSC	EPA-200.7/6010B
	Antimony, Dissolved	<5.0	5.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Arsenic, Dissolved	<2.0	2.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Barium, Dissolved	<20	20	ug/L	05/18/05	JMF	EPA-200.8/6020
	Beryllium, Dissolved	<1.0	1.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Boron, Dissolved	<100	100	ug/L	05/13/05	DSC	EPA-200.7/6010B
	Cadmium, Dissolved	<0.5	0.5	ug/L	05/18/05	JMF	EPA-200.8/6020
	Chromium, Dissolved	<5.0	5.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Cobalt, Dissolved	<10	10	ug/L	05/13/05	DSC	EPA-200.7/6010B
	Copper, Dissolved	<5.0	5.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Iron, Dissolved	8420	20	ug/L	05/13/05	DSC	EPA-200.7/6010B
	Lithium, Dissolved	<10	10	ug/L	05/13/05	DSC	EPA-200.7/6010B
	Manganese, Dissolved	<20	20	ug/L	05/13/05	DSC	EPA-200.7/6010B
	Molybdenum, Dissolved	<10	10	ug/L	05/18/05	JMF	EPA-200.8/6020
	Nickel, Dissolved	<25	25	ug/L	05/18/05	JMF	EPA-200.8/6020
	Lead, Dissolved	<1.0	1.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Selenium, Dissolved	<1.0	1.0	ug/L	05/18/05	JMF	EPA-200.8/6020
	Silver, Dissolved	<0.2	0.2	ug/L	05/18/05	JMF	EPA-200.8/6020
	Zinc, Dissolved	<10	10	ug/L	05/18/05	JMF	EPA-200.8/6020

* See attached Statement of Data Qualifications.

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ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 05/05/05 @ 09:15
Sampler: PS/RE
Received: 05/09/05 @ 10:22

Submittal #: **36162-32**
Submittal: Apr/May 2005 Groundwaters

Sample ID: **FBKM003 EAG- 1001457**
Sample #: **389548**
Matrix: QC Water

Percent Solids: n/a

Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
Alkalinity, Bicarbonate	<2.0	2.0	mg/L	05/13/05	VAS	310.1/SM 2320 B
Alkalinity, Carbonate	<2.0	2.0	mg/L	05/13/05	VAS	310.1/SM 2320 B
Chloride	<1.0	1.0	mg/L	05/16/05	JLB	325.2/4500-CL E
Sulfate	<5.0	5.0	mg/L	05/16/05	JLB	EPA-375.4/9038
Fluoride	<0.10	0.10	mg/L	05/17/05	SAJ	SM 4500 F-C
* Nitrogen, Nitrate	<0.05	0.05	mg/L	05/11/05	HLB	353.2/4500 NO3F
Residue,Dissolved @ 180*C	<50	50	mg/L	05/11/05	GEH	160.1/SM 2540 C

* See attached Statement of Data Qualifications.

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TriMatrix Laboratories, Inc.

ANALYTICAL REPORT

Client: **North Jackson Company**
Project: Eagle

Sampled: 05/05/05 @ 09:30
Sampler: PS/RE
Received: 05/09/05 @ 10:22

Submittal #: **36162-32**
Submittal: Apr/May 2005 Groundwaters

Sample ID: **FBKM004 EAG- 1001458**
Sample #: **389549**
Matrix: QC Water

Percent Solids: n/a

	Parameter	Analytical Result	Reporting Limit	Unit	Analysis Date	Chem	Reference Citation
	Alkalinity, Bicarbonate	<2.0	2.0	mg/L	05/13/05	VAS	310.1/SM 2320 B
	Alkalinity, Carbonate	<2.0	2.0	mg/L	05/13/05	VAS	310.1/SM 2320 B
	Chloride	<1.0	1.0	mg/L	05/16/05	JLB	325.2/4500-CL E
	Sulfate	<5.0	5.0	mg/L	05/16/05	JLB	EPA-375.4/9038
	Fluoride	<0.10	0.10	mg/L	05/17/05	SAJ	SM 4500 F-C
*	Nitrogen, Nitrate	<0.05	0.05	mg/L	05/11/05	HLB	353.2/4500 NO3F
	Residue,Dissolved @ 180*C	<50	50	mg/L	05/11/05	GEH	160.1/SM 2540 C

* See attached Statement of Data Qualifications.

End of Analytical Report

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Bicarbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/06/05	231761	INR	<2.0
05/13/05	232265	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/06/05	231761	INR	238	237	100	89-111
05/13/05	232265	VAS	238	235	99	89-111

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QUALITY CONTROL REPORT

Parameter: **Alkalinity, Carbonate**
Method: Alkalinity, Automated-Titrimetric 310.1/SM 2320 B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/06/05	231761	INR	<2.0
05/13/05	232265	VAS	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/06/05	231761	INR	377	381	101	77-110
05/13/05	232265	VAS	377	366	97	77-110

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QUALITY CONTROL REPORT

Parameter: **Aluminum, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/09/05	231799	JLTR	<50
05/13/05	232133	DSC	<50
05/18/05	232281	JLTR	<50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/09/05	231799	JLTR	2500	2336	93	90-110
05/13/05	232133	DSC	2500	2354	94	90-110
05/18/05	232281	JLTR	2500	2381	95	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/09/05	106092	JLTR	<50
05/13/05	106315	DSC	<50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/09/05	106092	JLTR	1250	1254	100	86-120
05/13/05	106315	DSC	1250	1264	101	86-120

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Individual sample results relate only to the sample tested.

QUALITY CONTROL REPORT

Parameter: **Antimony, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/10/05	231836	JMF	<1.0
05/11/05	231875	JMF	<1.0
05/14/05	232339	JMF	<2.0
05/18/05	232280	JMF	<2.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/11/05	231875	JMF	40	42.8	107	90-110
05/14/05	232339	JMF	40	41.4	104	90-110
05/18/05	232280	JMF	40	42.0	105	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/11/05	106109	JMF	<2.0
05/18/05	106437	JMF	<2.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/11/05	106109	JMF	100	86.6	87	83-129
05/18/05	106437	JMF	100	98.2	98	83-129

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Individual sample results relate only to the sample tested.

QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/09/05	231799	JLTR	<200

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Individual sample results relate only to the sample tested.

QUALITY CONTROL REPORT

Parameter: **Arsenic, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/10/05	231836	JMF	<1.0
05/14/05	232339	JMF	<1.0
05/17/05	232118	JMF	<1.0
05/18/05	232280	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/05	231836	JMF	40	40.3	101	90-110
05/14/05	232339	JMF	40	39.7	99	90-110
05/18/05	232280	JMF	40	41.3	103	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/10/05	106109	JMF	<1.0
05/18/05	106437	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/05	106109	JMF	100	94.3	94	83-111
05/18/05	106437	JMF	100	99.0	99	83-111

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/09/05	231799	JLTR	<10
05/10/05	231807	DWJ	<10
05/18/05	232281	JLTR	<10
05/20/05	232336	JLTR	<100

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QUALITY CONTROL REPORT

Parameter: **Barium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/10/05	231836	JMF	<10
05/14/05	232339	JMF	<10
05/17/05	232118	JMF	<10
05/18/05	232280	JMF	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/05	231836	JMF	40	39.0	98	90-110
05/14/05	232339	JMF	40	41.1	103	90-110
05/17/05	232118	JMF	40	39.9	100	90-110
05/18/05	232280	JMF	40	40.8	102	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/10/05	106109	JMF	<10
05/18/05	106437	JMF	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/05	106109	JMF	100	100.5	101	86-119
05/18/05	106437	JMF	100	100.6	101	86-119

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QUALITY CONTROL REPORT

Parameter: **Beryllium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/10/05	231836	JMF	<1.0
05/11/05	231875	JMF	<1.0
05/14/05	232339	JMF	<1.0
05/18/05	232337	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/05	231836	JMF	40	43.1	108	90-110
05/14/05	232339	JMF	40	41.3	103	90-110
05/18/05	232337	JMF	40	42.4	106	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/10/05	106109	JMF	<1.0
05/18/05	106437	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/05	106109	JMF	100	93.1	93	81-116
05/18/05	106437	JMF	100	100.3	100	81-116

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QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/09/05	231799	JLTR	<10
05/10/05	231807	DWJ	<10

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QUALITY CONTROL REPORT

Parameter: **Cadmium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/11/05	231875	JMF	<0.2
05/14/05	232339	JMF	<0.2
05/17/05	232118	JMF	<0.2
05/18/05	232280	JMF	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/11/05	231875	JMF	40	40.3	101	90-110
05/14/05	232339	JMF	40	40.1	100	90-110
05/18/05	232280	JMF	40	41.7	104	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/11/05	106109	JMF	<0.2
05/18/05	106437	JMF	<0.2

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/11/05	106109	JMF	100	88.7	89	83-112
05/18/05	106437	JMF	100	96.5	97	83-112

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QUALITY CONTROL REPORT

Parameter: **Chloride**
Method: Colorimetric, Automated Ferricyanide 325.2/4500-CL E WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/02/05	231516	JLB	<1.0
05/10/05	231924	JLB	<1.0
05/16/05	232198	JLB	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/02/05	231516	JLB	78.1	76.1	97	92-109
05/10/05	231924	JLB	78.1	78.5	101	92-109
05/16/05	232198	JLB	78.1	77.4	99	92-109

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QUALITY CONTROL REPORT

Parameter: **Chromium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/09/05	231799	JLTR	<50
05/10/05	231807	DWJ	<50

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QUALITY CONTROL REPORT

Parameter: **Chromium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/10/05	231836	JMF	<1.0
05/14/05	232339	JMF	<1.0
05/17/05	232118	JMF	<1.0
05/18/05	232280	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/05	231836	JMF	40	38.3	96	90-110
05/14/05	232339	JMF	40	40.5	101	90-110
05/18/05	232280	JMF	40	42.2	106	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/10/05	106109	JMF	<1.0
05/18/05	106437	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/05	106109	JMF	100	98.5	99	84-122
05/18/05	106437	JMF	100	107.1	107	84-122

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QUALITY CONTROL REPORT

Parameter: **Cobalt, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/09/05	231799	JLTR	<10
05/13/05	232264	DSC	<10
05/18/05	232281	JLTR	<10
05/20/05	232336	JLTR	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/09/05	231799	JLTR	500	485	97	90-110
05/13/05	232264	DSC	500	492	98	90-110
05/18/05	232281	JLTR	500	499	100	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/09/05	106092	JLTR	<10
05/13/05	106315	DSC	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/09/05	106092	JLTR	250	261	104	84-117
05/13/05	106315	DSC	250	252	101	84-117

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QUALITY CONTROL REPORT

Parameter: **Cobalt, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/10/05	231836	JMF	<1.0

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/09/05	231799	JLTR	<10
05/13/05	232264	DSC	<20

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QUALITY CONTROL REPORT

Parameter: **Copper, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/10/05	231836	JMF	<1.0
05/14/05	232339	JMF	<1.0
05/17/05	232118	JMF	<1.0
05/18/05	232280	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/05	231836	JMF	40	38.9	97	90-110
05/14/05	232339	JMF	40	40.6	102	90-110
05/18/05	232280	JMF	40	41.3	103	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/10/05	106109	JMF	<1.0
05/18/05	106437	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/05	106109	JMF	100	101.6	102	86-123
05/18/05	106437	JMF	100	103.1	103	86-123

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QUALITY CONTROL REPORT

Parameter: **Fluoride**
Method: Potentiometric, Ion Selective Electrode SM 4500 F-C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/09/05	231723	SAJ	<0.10
05/17/05	232322	SAJ	<0.10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/09/05	231723	SAJ	0.288	0.297	103	88-116
05/17/05	232322	SAJ	0.288	0.326	113	88-116

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QUALITY CONTROL REPORT

Parameter: **Iron, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/09/05	231799	JLTR	<20
05/13/05	232133	DSC	<20
05/18/05	232281	JLTR	<10
05/20/05	232336	JLTR	<100

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/09/05	231799	JLTR	500	475	95	90-110
05/13/05	232133	DSC	500	474	95	90-110
05/18/05	232281	JLTR	500	487	97	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/09/05	106092	JLTR	<20
05/13/05	106315	DSC	<20

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/09/05	106092	JLTR	250	264	106	83-118
05/13/05	106315	DSC	250	251	100	83-118

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QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/09/05	231799	JLTR	<50
05/10/05	231807	DWJ	<50

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QUALITY CONTROL REPORT

Parameter: **Lead, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/10/05	231836	JMF	<1.0
05/14/05	232339	JMF	<1.0
05/17/05	232118	JMF	<1.0
05/18/05	232280	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/05	231836	JMF	40	40.7	102	90-110
05/14/05	232339	JMF	40	42.4	106	90-110
05/18/05	232280	JMF	40	42.0	105	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/10/05	106109	JMF	<1.0
05/18/05	106437	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/05	106109	JMF	100	101.1	101	87-118
05/18/05	106437	JMF	100	106.6	107	87-118

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QUALITY CONTROL REPORT

Parameter: **Lithium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/09/05	231799	JLTR	<10
05/13/05	232133	DSC	<10
05/18/05	232281	JLTR	<20

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/09/05	231799	JLTR	500	486	97	90-110
05/13/05	232133	DSC	500	503	101	90-110
05/18/05	232281	JLTR	500	473	95	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/09/05	106092	JLTR	<10
05/13/05	106315	DSC	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/09/05	106092	JLTR	250	250	100	86-115
05/13/05	106315	DSC	250	253	101	86-115

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QUALITY CONTROL REPORT

Parameter: **Magnesium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/09/05	231799	JLTR	<0.50
05/13/05	232133	DSC	<0.50
05/18/05	232281	JLTR	<0.50
05/20/05	232336	JLTR	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/09/05	231799	JLTR	5.0	4.80	96	90-110
05/13/05	232133	DSC	5.0	4.94	99	90-110
05/18/05	232281	JLTR	5.0	4.89	98	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/09/05	106092	JLTR	<0.50
05/13/05	106315	DSC	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/09/05	106092	JLTR	12.5	13.1	105	87-115
05/13/05	106315	DSC	12.5	12.8	102	87-115

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/09/05	231799	JLTR	<10
05/13/05	232133	DSC	<20
05/18/05	232281	JLTR	<10
05/20/05	232336	JLTR	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/09/05	231799	JLTR	500	487	97	90-110
05/13/05	232133	DSC	500	499	100	90-110
05/18/05	232281	JLTR	500	496	99	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/09/05	106092	JLTR	<10
05/13/05	106315	DSC	<20

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/09/05	106092	JLTR	250	264	106	83-118
05/13/05	106315	DSC	250	258	103	83-118

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QUALITY CONTROL REPORT

Parameter: **Manganese, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/10/05	231836	JMF	<5.0
05/11/05	231875	JMF	<5.0
05/18/05	232280	JMF	<5.0

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/09/05	231799	JLTR	<10
05/13/05	232133	DSC	<50
05/18/05	232281	JLTR	<10
05/20/05	232336	JLTR	<10

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QUALITY CONTROL REPORT

Parameter: **Nickel, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/10/05	231836	JMF	<1.0
05/11/05	231875	JMF	<1.0
05/14/05	232339	JMF	<1.0
05/18/05	232280	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/11/05	231875	JMF	40	41.4	104	90-110
05/14/05	232339	JMF	40	39.8	100	90-110
05/18/05	232280	JMF	40	42.3	106	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/11/05	106109	JMF	<1.0
05/18/05	106437	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/11/05	106109	JMF	100	100.6	101	84-117
05/18/05	106437	JMF	100	100.9	101	84-117

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QUALITY CONTROL REPORT

Parameter: **Nitrogen, Nitrate**
Method: Colorimetric, Auto-Cadmium Reduction 353.2/4500 NO3F WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/28/05	231503	HLB	<0.05
04/29/05	231621	HLB	<0.05
05/05/05	231675	HLB	<0.05
05/11/05	231987	HLB	<0.05

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/28/05	231503	HLB	0.624	0.656	105	90-110
04/29/05	231621	HLB	0.624	0.637	102	90-110
05/05/05	231675	HLB	0.624	0.648	104	90-110
05/11/05	231987	HLB	0.624	0.639	102	90-110

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QUALITY CONTROL REPORT

Parameter: **Potassium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/09/05	231799	JLTR	<0.10
05/13/05	232133	DSC	<0.10
05/18/05	232281	JLTR	<0.20
05/20/05	232336	JLTR	<0.20

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/09/05	231799	JLTR	5.0	4.92	98	90-110
05/13/05	232133	DSC	5.0	5.00	100	90-110
05/18/05	232281	JLTR	5.0	4.79	96	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/09/05	106092	JLTR	<0.10
05/13/05	106315	DSC	**0.108**

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/09/05	106092	JLTR	12.5	12.8	102	87-125
05/13/05	106315	DSC	12.5	13.1	105	87-125

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QUALITY CONTROL REPORT

Parameter: **Residue,Dissolved @ 180*C**
Method: Residue-Gravimetric, Dried @ 180*C 160.1/SM 2540 C WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
04/29/05	231393	GEH	<2.5
05/04/05	231670	GEH	<2.5
05/09/05	231829	GEH	<2.5

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
04/29/05	231393	GEH	1000	1000	100	90-108
04/29/05	231393	GEH	1000	1000	100	90-108
05/04/05	231670	GEH	1000	984	98	90-108
05/09/05	231829	GEH	1000	978	98	90-108

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QUALITY CONTROL REPORT

Parameter: **Selenium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/09/05	231799	JLTR	<100
05/10/05	231807	DWJ	<200

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QUALITY CONTROL REPORT

Parameter: **Selenium, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/10/05	231836	JMF	<2.0
05/14/05	232339	JMF	<2.0
05/17/05	232118	JMF	<2.0
05/18/05	232280	JMF	<1.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/05	231836	JMF	40	42.8	107	90-110
05/14/05	232339	JMF	40	39.7	99	90-110
05/18/05	232280	JMF	40	42.2	106	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/10/05	106109	JMF	<2.0
05/18/05	106437	JMF	<1.0

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/05	106109	JMF	100	89.3	89	75-110
05/18/05	106437	JMF	100	95.6	96	75-110

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QUALITY CONTROL REPORT

Parameter: **Silver, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/09/05	231799	JLTR	<10
05/10/05	231807	DWJ	<10

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QUALITY CONTROL REPORT

Parameter: **Silver, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/10/05	231836	JMF	<0.2
05/14/05	232339	JMF	<0.2
05/17/05	232118	JMF	<0.2
05/18/05	232280	JMF	<0.2

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/05	231836	JMF	40	41.7	104	90-110
05/14/05	232339	JMF	40	42.5	106	90-110
05/18/05	232280	JMF	40	43.8	110	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/10/05	106109	JMF	<0.2
05/18/05	106437	JMF	<0.2

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/05	106109	JMF	100	102.7	103	86-114
05/18/05	106437	JMF	100	100.4	100	86-114

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QUALITY CONTROL REPORT

Parameter: **Sodium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/09/05	231799	JLTR	<0.50
05/10/05	231807	DWJ	<0.50
05/13/05	232133	DSC	<0.50
05/18/05	232281	JLTR	<0.50
05/19/05	232300	JLTR	<0.50
05/20/05	232336	JLTR	<0.50

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/09/05	231799	JLTR	5.0	4.70	94	90-110
05/10/05	231807	DWJ	5.0	4.89	98	90-110
05/13/05	232133	DSC	5.0	4.95	99	90-110
05/18/05	232281	JLTR	5.0	4.96	99	90-110
05/19/05	232300	JLTR	5.0	4.76	95	90-110
05/20/05	232336	JLTR	5.0	5.09	102	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/09/05	106092	JLTR	<0.50
05/13/05	106315	DSC	<0.50

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/09/05	106092	JLTR	12.5	12.7	102	86-117

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QUALITY CONTROL REPORT

Parameter: **Sodium, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: mg/L

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/13/05	106315	DSC	12.5	12.9	103	86-117

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QUALITY CONTROL REPORT

Parameter: **Sulfate**
Method: Turbidimetric Method (Manual) EPA-375.4/9038 WATER
Units: mg/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/02/05	231490	JLB	<5.0
05/10/05	231911	JLB	<5.0
05/16/05	232268	JLB	<5.0

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/02/05	231490	JLB	15.8	16.4	104	85-113
05/10/05	231911	JLB	15.9	15.4	97	85-113
05/16/05	232268	JLB	15.8	16.9	107	85-113

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QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: Atomic Emission-ICP EPA-200.7/6010B WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/09/05	231799	JLTR	<20
05/13/05	232133	DSC	<20
05/18/05	232281	JLTR	<20
05/20/05	232336	JLTR	<20

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QUALITY CONTROL REPORT

Parameter: **Zinc, Total**
Method: ICP Mass Spectrometry (ICP-MS) EPA-200.8/6020 WATER
Units: ug/L

Instrument Blank

Test Date	Analytical Batch Number	Analyst	Blank Conc
05/10/05	231836	JMF	<10
05/11/05	231875	JMF	<1.0
05/14/05	232339	JMF	<10
05/17/05	232118	JMF	<10
05/18/05	232280	JMF	<10

Laboratory Control Sample

Test Date	Analytical Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/05	231836	JMF	40	42.2	106	90-110
05/14/05	232339	JMF	40	39.4	99	90-110
05/18/05	232280	JMF	40	42.5	106	90-110

Method Preparation Blank

Test Date	QC Batch #	Analyst	Blank Conc
05/10/05	106109	JMF	<10
05/18/05	106437	JMF	<10

Laboratory Fortified Blank

Test Date	QC Batch #	Analyst	Spike Qty	Spike Result	Recovery	QC Limits
05/10/05	106109	JMF	100	97.1	97	80-137
05/18/05	106437	JMF	100	97.3	97	80-137

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COC No. 103773

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Cart: 3
VOA Rack/Tray:
Receipt Log No.: 13-6
Project Chemist:
Laboratory Project No.:

Client Name: North Jackson
Address: Harbor Hills Dr
Mary M. 49885
Phone:
Fax:

Project Name: Eagle
Client Project No./P.O. No.: Eagle
Invoice To: ☐ Client ☒ Other (comments)
Contact/Report To: D Whitaker

Analyses Requested

Eagle GW List

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List) A	B	Total	Sample Comments
											Number of Containers Submitted			
G4	WG	388431	1	QALM003A		4-26-05	1250		X	W	1	1	2	EAG-100/427
		388432	2	QALM003B			1205							EAG-100/428
		388433	3	QALM005A			1000							EAG-100/431
		388434	4	QALM005D			1115							EAG-100/432
		388435	5	QALM007A			1415							EAG-100/435
		388436	6	QALM007D			1500							EAG-100/436
		388437	7	QALM010A			1600							EAG-100/441
			8											
			9											
			10											

Sampled By (print): Robert R Eagle
Sampler's Signature: Richard R Eagle
Company: NJC

How Shipped? Hand Carrier Fed Exp
Tracking No.

Comments: Bill AHn J. Cherry KMC

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
	4-26-05	1700						
1. Received By	**Date**	**Time**	**2. Received By**	**Date**	**Time**	**3. Received For Lab By**	**Date**	**Time**
						L. Parker	4/28/05	9:00

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COC No. 17421

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Cart: 3
VOA Rack/Tray:
Receipt Log No.: 13-6
Project Chemist: JCR
Laboratory Project No.: 30162-32

Client Name: NJC
Address: Harbor Hills Dr
Manq MI, 49855
Phone: 906 825 6787
Fax:

Project Name: Eagle
Client Project No./ P.O. No.: Eagle
Invoice To: ☐ Client ☒ Other (comments)
Contact/Report To: D Wittala

Analyses Requested

GW LS

Container Type (corresponds to Container Packing List): A B

Number of Containers Submitted

Total

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

	Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix		Total	Sample Comments
1	04	WG	388438	QALM004A	TM087	4.27.05	1125		X	W	1	1	EAG-100 1429
2			388439	QALM004D			1140						EAG-100 1430
3			388440	QALM006A			1245						EAG-100 1433
4			388441	QALM006B			1355						EAG-100 1434
5			388442	QALM008A			1245						EAG-100 1437
6			388443	QALM009A			1530						EAG-100 1439
7			388444	QALM008D			1315						EAG-100 1438
8			388445	DUPM002			—	X					EAG-100 1447
9			388446	DUPM003			—	X		X			EAG-100 1448
10													

Sampled By (print): P. Sabga D Wittala R Eagle
Sampler's Signature:
Company: NJC

How Shipped? Hand Carrier Fed Exp
Tracking No.

Comments: Bill Attn J. Chen KMC

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
	4.27.05	1700						
1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
							4/28/05	9:00

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Cart: 2
VOA Rack/Tray: NA
Receipt Log No.: 15-7
Project Chemist: JM
Laboratory Project No.: 3b0402-32

Client Name: NJC
Address: Harbor Hills Dr
Marquette MI
Phone: 906 225 6787
Fax:

Project Name: Eagle
Client Project No. / P.O. No.: Eagle
Invoice To: ☐ Client ☑ Other (comments)
Contact/Report To: D Winkler

Analyses Requested

Container Type (corresponds to Container Packing List): 4B

Number of Containers Submitted: 3 | 15

PRESERVATIVES
- A NONE pH~7
- B HNO_3 pH<2
- C H_2SO_4 pH<2
- D 1+1 HCl pH<2
- E NaOH pH>12
- F ZnAc/NaOH pH>9
- G MeOH
- H Other (note below)

	Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix			Total	Sample Comments
1	04	WG	388627	QALM001A	TM065	4-28-05	1526		1	W	1	1		EAG-1001423
2	1	1	388628	QALM001A	↓	4-28-05	1609		1	W	1	1		EAG-1001424
3	1	1	388629	QALM009D	↓	4-28-05	1400		1	W	1	1		EAG-1001440
4														
5														
6														
7														
8														
9														
10														

Sampled By (print): Rebecca Reece
Sampler's Signature: Rebecca Reece Richard A Eagle
Company: NJC

How Shipped? Hand Carrier Fed Exp
Tracking No.

Comments: Bill Attn J Chen KMC

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
Rebecca	4-28-05	1700						
1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
						John Fox	04-29-05	8:40

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Cart: 3
VOA Rack/Tray:
Receipt Log No.: 23-8
Project Chemist: JK
Laboratory Project No.: 30102-32

Client Name: NJC
Address: 1004 Harbor Hills Dr
Mary Mi. 49855
Phone: 616 225 6787
Fax:

Project Name: Eagle
Client Project No. / P.O. No.: Eagle
Invoice To: ☐ Client ☒ Other (comments)
Contact/Report To: D Witala

Analyses Requested

VOX
VOA

⇦ PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

	Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List) A	B	Number of Containers Submitted	Total	Sample Comments
1	10	WQ	389082	FBKM001	TMC8225	5-3-05	1000		X	W	1			1	EAG-10014 54
2	↓	↓	389083	FBKM002		5-3-05	1030		X	W	1			1	EAG-10014 55
3	09		389084	EQBM001		5-3-05	1000		X	W		1		1	EAG-10014 50
4	↓		389085	EQBM002		5-3-05	1030		X	W		1		1	EAG-10014 51
5	04	WG	389086	DALP015		5-3-05	1110		X	W	1	1		2	EAG 100 1442
6			389087	DALP016		5-3-05	1210		X	W	1	1		2	EAG 100 1443
7			389088	DALP015		5-3-05	1335		X	W	1	1		2	EAG 100 1444
8			389089	DALP020		5-3-05	1435		X	W	1	1		2	EAG 100 1445
9			389090	DUPP004		5-3-05			X	W	1			2	EAG 100 1449
10															

Sampled By (print): D Witala R Eagle
Sampler's Signature: [signature]
Company: North Jackson Co

How Shipped? Hand Carrier Fed Ex
Tracking No. 7916 1004 2203

Comments: AW J. Cherry KMC

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
Richard Eagle	5-3-05	1700						
1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
						[signature]	5/4/05	8:40

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Cart: 1
VOA Rack/Tray: NA
Receipt Log No.: 25-9
Project Chemist: JMK
Laboratory Project No.: 36162-32

Client Name: NJC
Address: 1000 Harbor View
Muskegon MI 49855
Phone: 986 2256587
Fax:

Project Name: Engler
Client Project No. / P.O. No.: Engler
Invoice To: ☐ Client ☒ Other (comments)
Contact/Report To: D Witala

Analyses Requested

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Container Type (corresponds to Container Packing List): G V
Number of Containers Submitted: 3 6

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	A	B	Total	Sample Comments
04		389186	1	WLDP016	1MDR4	5-4-05	1245		X	W	1	1		SAG 1001421
			2											
			3											
			4											
			5											
			6											
			7											
			8											
			9											
			10											

Sampled By (print): D Witala
Sampler's Signature: D Witala
Company: NJC

How Shipped? Hand Carrier: Fed Exp
Tracking No.

Comments: Bill Attn J Cheney KLMC

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
D Witala	5-4-05	1700						
1. Received By	**Date**	**Time**	**2. Received By**	**Date**	**Time**	**3. Received For Lab By**	**Date**	**Time**
						John Dore	05-05-05	08:45

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Cart: 4
VOA Rack/Tray:
Receipt Log No.: 31-5
Project Chemist: JR
Laboratory Project No.: 36162-32

Client Name: NJC
Address: 1004 Harbor Hts Mgt. MI 49855
Phone:
Fax:

Project Name: EAGLE
Client Project No. / P.O. No.: EAGLE
Invoice To: ☐ Client ☑ Other (comments)
Contact/Report To: D. Wilson

Analyses Requested: GW Parameters

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List) A	B	Total	Sample Comments
										Number of Containers Submitted			
09	WG	389426	1 WLDP001	TM0586	5-5-05	1120		X	W	X	X		EAG-1001419
		389427	2 WLDP005			1090				X	X		EAG-1001420
		389428	3 WLDP021			1330				X	X		EAG-1001422
		389429	4 QALMOOZA			1150				X	X		EAG-1001425
		389430	5 QALMOOZD			1220				X	X		EAG-1001426
		389548	6 FBKM003			0915				X			EAG-1001457
		389549	7 FBKM004			0930				X			EAG-1001458
09	WG	389431	8 EQBM003			0915					X		EAG-1001452
		389432	9 EQBM004			0930					X		EAG-1001453
		WG389433	10 DUPP001				X			X	X		EAG-1001446

Sampled By (print): R Eagle
Sampler's Signature: R Eagle
Company: NJC

How Shipped? Hand Carrier: Fed Ex
Tracking No.: 7929 1511 0571

Comments: Bill Attn. J Chung KMC

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
R Eagle	5-5-05	1600						
1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
						J. Parker	5/9/05	10:22

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BROOKSRAND LLC
ENVIRONMENTAL RESEARCH&DEVELOPMENT

November 21, 2002

North Jackson Company
Attn.: Peter Sabee
420 Rail Street
PO Box 30
Negaunee, MI 49866

RE: Brooks Rand Project: NJC001; Tracking #: 02BR612
Lab Services Agreement 101201nj01; Client Project: Yellow Dog

Dear Mr. Sabee:

This report is for the mercury analysis of five water samples collected 11/05/02. These samples have been assigned the BRL tracking number 02BR612.

All samples were received, stored, prepared and analyzed according to Brooks Rand LLC Standard Operating Procedures and EPA Method 1631. All results were blank corrected, as outlined in the calculations section of EPA Method 1631. All other QA criteria were met and no further qualification of the data is required.

If there are any questions please feel free to contact me

Sincerely,

Terra Johnson
Project Manager

3958 6th Avenue NW • Seattle, WA 98107 • Phone (206) 632-6206 • Fax (206) 632-6017 • www.brooksrand.com • brl@brooksrand.com

Brooks Rand LLC

Summary of Results

North Jackson Company

BRL Project #NJC001
Tracking #: 02BR612

Sample/Sampling/Receiving Info

North Jackson Company		BRL	
Sample Identification	**Sampling Date**	**Sample Number**	**Receiving Date**
STR001	11/5/02	02BR612 - 1	11/6/02
STR002	11/5/02	02BR612 - 2	11/6/02
STR002 (DUP)	11/5/02	02BR612 - 3	11/6/02
YDR001	11/5/02	02BR612 - 4	11/6/02
YDR002	11/5/02	02BR612 - 5	11/6/02

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
STR001	02BR612 - 1	11/15/02	11/19/02	02-339	0.937	ng/L	
STR002	02BR612 - 2	11/15/02	11/19/02	02-339	1.530	ng/L	
STR002 (DUP)	02BR612 - 3	11/15/02	11/19/02	02-339	1.350	ng/L	
YDR001	02BR612 - 4	11/15/02	11/19/02	02-339	4.120	ng/L	
YDR002	02BR612 - 5	11/15/02	11/19/02	02-339	3.650	ng/L	

Batch #: 02-339 ***Method #:*** EPA 1631

Analyte: Hg ***Matrix:*** Water

BIAS *Criteria: Recovery=75-125%*

Laboratory Control Samples

LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
QCS (11.1.1.1)	10	9.57	95.7%

BIAS *Criteria: Recovery=75-125%*

Laboratory Control Samples

LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
QCS (11.1.1.2)	10	10.24	102.4%

BIAS *Criteria: Recovery=71-125%, RPD<24%*

Matrix Spikes

Sample ID	*Spike Conc.*	*Measured Spike+Sample Conc.*	*Unit*	*Rec. %*	*Spike Duplicate Conc.*	*Duplicate Measured Spike+Sample Conc.*	*Unit*	*Dupl. Rec. %*	*Dupl. RPD %*
02BR612 - 1	40.54	40.54	ng/L	97.7%	39.51	39.29	ng/L	97.1%	3.1%
02BR607 - 1	40.27	52.32	ng/L	92.7%	38.7	51.73	ng/L	94.9%	1.1%

BLANKS

Method Blanks

MB #1 ng/L	*MB #2 ng/L*	*MB #3 ng/L*	*MB #4 ng/L*	*Average*	*Std. Dev. ng/L*	*Optimum MDL ng/L*	*PQL ng/L*
0						0.2	0.5

BLANKS

Laboratory Reagent Blanks

LRB #1 ng/blank	*LRB #2 ng/blank*	*LRB #3 ng/blank*	*LRB #4 ng/blank*	*Average ng/blank*	*Std. Dev. ng/blank*
0.014	0.014	0.015	0.013	0.014	0.001

Wednesday, November 20, 2002

Project Manager

Brooks Rand LLC Sample Receiving Log

Tracking # **02BR612**

Customer: North Jackson Company
Contact: Peter Sabee
Project Ref. #: NJC001

Collection Date 11/5/02
QA Level Standard

Sample Condition Intact
Shipping container intact? Yes

Shipping container type: cooler
Shipping container temp: 3.2°C
Shipping container coolant: ice

Sample preservation: 0.5%BrCl
Acid lab # 02-252
Hg Concentration:
Sample storage area: Cabinet #1

Sample Turnaround Time:
Contract Turnaround Time: 30 days

Comments:

Due Date: 12/6/02
Receiving Date: 11/6/02
Receiving Time: 10:00 AM

Logged-in by: Mary Van Ry
Log-in Date: 11/6/02
Log-in Time: 12:15 PM

Airbill present? Yes
Airbill # 826251223553
Carrier: fed ex

Custody seal present? No
Custody seal intact? No
COC Present? Yes
COC Number: N/A

Analysis request form? No
COC/Sample tag agree? Yes

See SOW	No	See Project Manage	No
See Mem	No	See Lab Manage	No
Consult MSDS	No	See Contract Inf	No

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	STR001	BR-232	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
2	STR002	BR-368	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
3	STR002 (DUP)	PTI-066	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
4	YDR001	BR-2046	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
5	YDR002	BR-344	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:

Sample Custodian signature — Date: 11/6/02

Brooks Rand Ltd. Chain of Custody Record Page 1 of 1

Client: NORTH JACKSON	e-mail address: PeterQnorthjackson.com	Ship to: **Brooks Rand Ltd.**
Contact: P. SABEE	PO #: Yellow Dog	3950 6th Avenue NW
Address: PO. Box 30 NEGAUNEE MI 49866	Sampler's signatures: P Sabee	Seattle, WA 98107
		206.632.6206
		206.632.6017 fax
Phone #: 906 475 9882	Client project ID: Yellow Dog	e-mail: brl@brooksrand.com
Fax #: 906 475 0238	BRL project ID: NJC0001	www.brooksrand.com

For BRL use only	Cooler temp (°C):	Custody seals present? (Y/N)	Custody seals intact? (Y/N)	Date:	Initials:

	Sample ID	Collection		Miscellaneous				Field Preservation					Analyses required							Comments
		Date	Time	Sampler (initials)	Matrix type	# of containers	Sample field filtered, Y/N	Unpreserved (ice only)	HNO_3	HCl	BrCl	Other (specify)								
1	STR001	11-05	1210	PJS	Wtr	1	N	X					Trace			Hg				ISR-232
2	STR002	11-05	1030	PJS	Wtr	1	N	X					↓			○				ISR-365, ISR-366
3	YDR001	11-05	1530	PJS	Wtr	1	N	X												ISR-2046
4	YDR002	11-05	1430	PJS	Wtr	1	N	X												ISR-344
5	~~Field Blank~~	11-05	1030	PJS	Wtr	1	N	X												Not present
6	Duplicate PJS																			
7																				
8																				
9																				
10																				

Shipping carrier: FedEx Express				# of coolers:	
Relinquished by: P Sabee	Date: 11-05	Time: 1700	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at BRL:	Date: 11/6/05	Time: 1100

White: LAB COPY Yellow: CUSTOMER COPY

BROOKSRAND LLC
ENVIRONMENTAL RESEARCH&DEVELOPMENT

March 18, 2003

North Jackson Company
Attn.: Peter Sabee
420 Rail Street
PO Box 30
Negaunee, MI 49866

RE: Brooks Rand Project: NJC001; Tracking #: 03BR089
Lab Services Agreement 101201nj01; Client Project: Yellow Dog

Dear Mr. Sabee:

This report is for the mercury analysis of five water samples collected 02/25/03 and 02/26/03. These samples have been assigned the BRL tracking number 03BR089.

All samples were received, stored, prepared and analyzed according to Brooks Rand LLC Standard Operating Procedures and EPA Method 1631E. All results were blank corrected, as outlined in the calculations section of EPA Method 1631E. All QA criteria were met and no qualification of the data is required. Brooks Rand certifies that the reported test results meet all requirements of NELAC.

If there are any questions please feel free to contact me

Sincerely,

Terra Johnson
Project Manager

3958 6th Avenue NW • Seattle, WA 98107 • Phone (206) 632-6206 • Fax (206) 632-6017 • www.brooksrand.com • brl@brooksrand.com

Reported by

Brooks Rand LLC

Contact: Terra Johnson

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Negaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC001
Lab Tracking # 03BR089

Lab Services Agreement 101201nj01

Sample/Sampling/Receiving Info

North Jackson Company — *BRL*

Sample Identification	Sampling Date	Sample Number	Receiving Date
STR001	2/25/03	03BR089 - 1	2/27/03
STR002	2/25/03	03BR089 - 2	2/27/03
YDR001	2/26/03	03BR089 - 3	2/27/03
YDR002	2/26/03	03BR089 - 4	2/27/03
Duplicate	2/26/03	03BR089 - 5	2/27/03

Reported by

Brooks Rand LLC

Contact: Terra Johnson

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Negaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC001
Lab Tracking # 03BR089

Lab Services Agreement 101201nj01

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
STR001	03BR089 - 1	3/10/03	3/11/03	03-050	0.914	ng/L	
STR002	03BR089 - 2	3/10/03	3/11/03	03-050	0.887	ng/L	
YDR001	03BR089 - 3	3/10/03	3/11/03	03-050	1.890	ng/L	
YDR002	03BR089 - 4	3/10/03	3/11/03	03-050	1.690	ng/L	
Duplicate	03BR089 - 5	3/10/03	3/11/03	03-050	1.710	ng/L	

BRL QA Report

Batch #: **03-050** ***Method #:*** **EPA 1631.E**

Analyte: **Hg** ***Matrix:*** **Water**

BIAS *Criteria: Recovery = 79-121%*			
Laboratory Control Samples			
LCS ID	***Certified Value ng/L***	***Measured Value ng/L***	***Recovery %***
QCS	10.00	9.76	97.6%

BIAS *Criteria: Recovery = 77-123%*			
Ongoing Precision and Recovery (OPR)			
LCS ID	***Certified Value ng/L***	***Measured Value ng/L***	***Recovery %***
OPR1	5.00	5.10	101.9%
OPR2	5.00	5.04	100.8%

BIAS *Criteria: Recovery = 71-125%, RPD<24%*								
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)								
		Matrix Spike			***Matrix Spike Dupicate***			
Sample ID	***Sample Value ng/L***	***Spiked Value ng/L***	***Measured Value ng/L***	***MS Recovery %***	***Spiked Value ng/L***	***Measured Value ng/L***	***MSD Recovery %***	***Duplicate RPD***
03BR089-1	0.914	35.82	36.57	99.5%	38.18	41.14	105.4%	11.8%
03BR096-1	22.6	39.75	62.99	101.5%	39.84	61.88	98.5%	1.8%

Method Blanks (MB) *Criteria: MB (0.5% BrCl) < 0.5 ng/L*								**Detection Limits**	
MB1		***MB2***		***MB3***		***MB4***		***MB MDL***	***MB PQL***
ng/L	***BrCl%***	***ng/L***	***BrCl%***	***ng/L***	***BrCl%***	***ng/L***	***BrCl%***	***ng/L***	***ng/L***
0.278	0.5%	0.450	1.0%	0.820	2.0%	N/A	N/A	0.2	0.5

3/12/03

Project Manager

Brooks Rand LLC Sample Receiving Log

Tracking # **03BR089**

Customer:	North Jackson Company
Contact:	Peter Sabee
Project Ref. #:	NJC001
Collection Date	2/25-2/26/03
QA Level	Standard
Sample Condition	Intact
Shipping container intact?	Yes
Shipping container type:	cooler
Shipping container temp:	room
Shipping container coolant:	none
Sample preservation:	0.5% BrCl
Acid lab #	02-357-BrCl
Hg Concentration:	
Sample storage area:	Cabinet #1
Sample Turnaround Time:	
Contract Turnaround Time:	30 days

Due Date:	3/29/03
Receiving Date:	2/27/03
Receiving Time:	9:00 AM
Logged-in by:	Frank McFarland
Log-in Date:	2/27/03
Log-in Time:	12:40 PM
Airbill present?	Yes
Airbill #	826251222580
Carrier:	fedex
Custody seal present?	No
Custody seal intact?	No
COC Present?	Yes
COC Number:	N/A
Analysis request form?	No
COC/Sample tag agree?	Yes

See SOW	No	See Project Manager	No
See Memo	No	See Lab Manager	No
Consult MSDS	No	See Contract Info	No

Comments:

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	STR001	G	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
2	STR002	G	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
3	YDR001	G	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
4	YDR002	G	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
5	Duplicate	G	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:

Sample Custodian signature

2/27/03
Date

Brooks Rand Ltd. Chain of Custody Record

D90089

Page 1 of 1

Client: North Jackson Co.	e-mail address: peter@northjacksonco.com	Ship to: **Brooks Rand Ltd.**
Contact: P Sabee	PO #:	3950 6th Avenue NW
Address: 420 Rail St. PO Box 30 Negaunee MI	Sampler's signatures: Dan Wittala Dan Wittala	Seattle, WA 98107
		206.632.6206
Phone #: 906-475-9882	Client project ID: Yellow Dog	206.632.6017 fax
Fax #: 906-475-0238	BRL project ID: N5C001	e-mail: brl@brooksrand.com
		www.brooksrand.com

For BRL use only	Cooler temp (°C): Room	Custody seals present? (Y)N	Custody seals intact? (Y)N	Date: 2/27/03	Initials: FM

	Sample ID	Collection: Date	Collection: Time	Miscellaneous: Sampler (initials)	Miscellaneous: Matrix type	Miscellaneous: # of containers	Miscellaneous: Sample field filtered, Y/N	Field Preservation: Unpreserved (ice only)	Field Preservation: HNO_3	Field Preservation: HCl	Field Preservation: BrCl	Field Preservation: Other (specify)	Analyses required: Trace Hg	Comments
1	STR001	2-25	14:00	DW	wtr	1	N	X					↓	
2	STR002	2-25	12:00	DW	wtr	1	N	X						
3	YDR001	2-26	14:00	DW	wtr	1	N	X						
4	YDR002	2-26	12:00	DW	wtr	1	N	X						
5	Duplicate	2-26	12:00	DW	wtr	1	N	X						
6														
7														
8														
9														
10														

Shipping carrier: Fed Ex 826251 222 590			# of coolers:		
Relinquished by: Dan Wittala	Date: 2-27-03	Time: 18:30	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at BRL: F. McFarland	Date: 2/27/03	Time: 9:00

White: LAB COPY **Yellow: CUSTOMER COPY**

BROOKSRAND LLC
ENVIRONMENTAL RESEARCH&DEVELOPMENT

May 17, 2003

North Jackson Company
Attn.: Peter Sabee
420 Rail Street
PO Box 30
Negaunee, MI 49866

RE: Brooks Rand Project: NJC001; Tracking #: 03BR236
Lab Services Agreement 101201nj01; Client Project: Eagle

Dear Mr. Sabee:

This report is for the mercury analysis of eight water samples collected 4/23/03 and 5/6/03 and received at Brooks Rand on 5/8/03. These samples have been assigned the BRL tracking number 03BR236.

All samples were received, stored, prepared and analyzed according to Brooks Rand LLC Standard Operating Procedures and EPA Method 1631E. All results were blank corrected, as outlined in the calculations section of EPA Method 1631E. Sample results measured below the detection limit are qualified "U" and are reported at the detection limit. All QA criteria were met and no additional qualification of the data is required. Brooks Rand certifies that the reported test results meet all requirements of NELAC.

If there are any questions please feel free to contact me

Sincerely,

Colin Davies

3958 6th Avenue NW • Seattle, WA 98107 • Phone (206) 632-6206 • Fax (206) 632-6017 • www.brooksrand.com • brl@brooksrand.com

Reported by

Brooks Rand LLC

Contact: Colin Davies

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Negaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC001
Lab Tracking # 03BR236

Lab Services Agreement 101201nj01

Sample/Sampling/Receiving Info

North Jackson Company | *BRL*

Sample Identification	Sampling Date	Sample Number	Receiving Date
YDR001	4/23/03	03BR236 - 1	5/8/03
YDR002	4/23/03	03BR236 - 2	5/8/03
STR001	4/23/03	03BR236 - 3	5/8/03
STR002	4/23/03	03BR236 - 4	5/8/03
Field Blank	4/23/03	03BR236 - 5	5/8/03
M-1	5/6/03	03BR236 - 6	5/8/03
CR001	5/6/03	03BR236 - 7	5/8/03
CR002	5/6/03	03BR236 - 8	5/8/03

Reported by

Brooks Rand LLC

Contact: Colin Davies

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Negaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC001
Lab Tracking # 03BR236

Lab Services Agreement 101201nj01

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
YDR001	03BR236 - 1	5/12/03	5/14/03	03-111	5.300	ng/L	
YDR002	03BR236 - 2	5/12/03	5/14/03	03-111	5.530	ng/L	
STR001	03BR236 - 3	5/12/03	5/14/03	03-111	1.730	ng/L	
STR002	03BR236 - 4	5/12/03	5/14/03	03-111	3.130	ng/L	
Field Blank	03BR236 - 5	5/12/03	5/14/03	03-111	0.200	ng/L	U
M-1	03BR236 - 6	5/12/03	5/14/03	03-111	0.438	ng/L	
CR001	03BR236 - 7	5/12/03	5/14/03	03-111	0.294	ng/L	
CR002	03BR236 - 8	5/12/03	5/14/03	03-111	0.394	ng/L	

BRL QA Report

Batch #: **03-111** ***Method #:*** **EPA 1631.E**

Analyte: **Hg** ***Matrix:*** **Water**

BIAS *Criteria: Recovery = 79-121%*
Laboratory Control Samples

LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
QCS	10.00	10.99	109.9%

BIAS *Criteria: Recovery = 77-123%*
Ongoing Precision and Recovery (OPR)

LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
OPR1	5.00	4.93	98.6%
OPR2	5.00	5.44	108.8%
OPR3	5.00	5.43	108.6%
OPR4	5.00	5.40	108.0%
OPR5	5.00	5.19	103.9%
OPR6	5.00	5.08	101.5%
OPR7	5.00	5.09	101.9%

BIAS *Criteria: Recovery = 71-125%, RPD<24%*
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)

		Matrix Spike			*Matrix Spike Dupicate*			
Sample ID	*Sample Value ng/L*	*Spiked Value ng/L*	*Measured Value ng/L*	*MS Recovery %*	*Spiked Value ng/L*	*Measured Value ng/L*	*MSD Recovery %*	*Duplicate RPD*
03BR223-6	4.84	40.00	45.05	100.5%	39.76	44.74	100.4%	0.7%
03BR236-4	3.13	40.36	46.26	106.8%	40.49	45.68	105.1%	1.3%

Method Blanks (MB) *Criteria: MB (0.5% BrCl) < 0.5 ng/L*

MB1		*MB2*		*MB3*		*MB4*		**Detection Limits**	
ng/L	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*MB MDL ng/L*	*MB PQL ng/L*
0.206	0.5%	0.218	50.0%	0.400	1.0%	NA	NA	0.2	0.25

5/15/03

Project Manager

Brooks Rand LLC Sample Receiving Log

Tracking # **03BR236**

Customer: North Jackson Company
Contact: Peter Sabee
Project Ref. #: NJC001

Collection Date 4/23 & 5/6/03
QA Level Standard

Sample Condition Intact
Shipping container intact? Yes

Shipping container type: box
Shipping container temp: room
Shipping container coolant: none

Sample preservation: 0.5% BrCl
Acid lab # 02-357-BrCl
Hg Concentration:
Sample storage area: Cabinet #2

Sample Turnaround Time:
Contract Turnaround Time: 30 days

Comments:

Due Date: 6/7/03
Receiving Date: 5/8/03
Receiving Time: 9:00 AM

Logged-in by: Frank McFarland
Log-in Date: 5/8/03
Log-in Time: 12:30 PM

Airbill present? Yes
Airbill # 790282072013
Carrier: fedex

Custody seal present? Yes
Custody seal intact? Yes
COC Present? Yes
COC Number: N/A

Analysis request form? No
COC/Sample tag agree? Yes

See SOW	No	See Project Manager	No
See Memo	No	See Lab Manager	No
Consult MSDS	No	See Contract Info	No

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	YDR001	g	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
2	YDR002	g	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
3	STR001	g	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
4	STR002	g	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
5	Field Blank	g	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			do not spike
6	M-1	g	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
7	CR001	g	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
8	CR002	g	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			

Sample Custodian signature 5/8/03 Date

Brooks Rand Ltd. Chain of Custody Record

Page 1 of 1

Client: NORTH JACKSON	e-mail address: peter@northjacksonco.com	Ship to: **Brooks Rand Ltd.**
Contact: P. SABEE	PO #: EAGLE	3950 6th Avenue NW
Address:	Sampler's signatures:	Seattle, WA 98107
		206.632.6206
		206.632.6017 fax
Phone #: 906 475-9882	Client project ID: EAGLE	e-mail: brl@brooksrand.com
Fax #: 906 475-0237	BRL project ID: NJC001	www.brooksrand.com

For BRL use only	Cooler temp (°C): Room	Custody seals present? (Y/N)	Custody seals intact? (Y/N)	Date: 5/8/03	Initials: FM

	Sample ID	Collection		Miscellaneous				Field Preservation					Analyses required							Comments
		Date	Time	Sampler (initials)	Matrix type	# of containers	Sample field filtered, Y/N	Unpreserved (ice only)	HNO_3	HCl	BrCl	Other (specify)	Trace Hg							
1																				
2																				
3	GDR001	4-23		PJS	Wat	1	N	X					X							
4	GDR002	4-23		PJS	"	1	N	X					X							
5	STR001	4-23		PJS	"	1	N	X					X							
6	STR002	4-23		PJS	"	1	N	X					X							
7	FIELD BLANK	4-23		PJS	"	1	N	X					X							
8	M-1	5-6		"	"	1	N	X					X							
9	CR001	5-6		"	"	1	N	X					X							
10	CR002	5-6		"	"	1	N	X					X							

Shipping carrier: Federal Express # of coolers:

Relinquished by:	Date: 5-7-03	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at BRL:	Date: 5/8/03	Time: 9:00

White: LAB COPY Yellow: CUSTOMER COPY

BROOKSRAND LLC
ENVIRONMENTAL RESEARCH&DEVELOPMENT

July 7, 2003

North Jackson Company
Attn.: Peter Sabee
420 Rail Street
PO Box 30
Negaunee, MI 49866

RE: Brooks Rand Project: NJC001; Tracking #: 03BR333
Lab Services Agreement 101201nj01; Client Project: Eagle-Kennecott

Dear Mr. Sabee:

This report is for the mercury analysis of six water samples and one field blank collected 06/19/03 and 06/25/03 and received at Brooks Rand on 06/27/03. These samples have been assigned the BRL tracking number 03BR333.

All samples were received, stored, prepared and analyzed according to Brooks Rand LLC Standard Operating Procedures and EPA Method 1631E. All results were blank corrected, as outlined in the calculations section of EPA Method 1631E. One Matrix Spike (MS) recovery was biased high at 125.2%, slightly above the criteria of 71-125%, however the spike level was less than the measured native concentration and therefore this is not a good measurement of accuracy. Another MS and MSD pair, which were spiked at an acceptable level relative to the native concentration, gave acceptable recoveries of 106.1% and 105.5%. All other QA criteria were met. Sample results above the detection limit of 0.1 ng/L and below the quantitation limit of 0.25 ng/L have been qualified "B" for estimate. No additional qualification of the data was required. Brooks Rand certifies that the reported test results meet all requirements of NELAC.

If there are any questions please feel free to contact me

Sincerely,

Colin Davies

3958 6th Avenue NW • Seattle, WA 98107 • Phone (206) 632-6206 • Fax (206) 632-6017 • www.brooksrand.com • brl@brooksrand.com

Reported by

Brooks Rand LLC

Contact: Colin Davies

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Negaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC001
Lab Tracking # 03BR333

Lab Services Agreement 101201nj01

Sample/Sampling/Receiving Info

North Jackson Company — *BRL*

Sample Identification	Sampling Date	Sample Number	Receiving Date
STR001	6/19/03	03BR333 - 1	6/27/03
STR002	6/19/03	03BR333 - 2	6/27/03
YDR001	6/19/03	03BR333 - 3	6/27/03
YDR002	6/19/03	03BR333 - 4	6/27/03
CR003	6/25/03	03BR333 - 5	6/27/03
CR002	6/25/03	03BR333 - 6	6/27/03
Field blank	6/25/03	03BR333 - 7	6/27/03

Reported by

Brooks Rand LLC

Contact: Colin Davies

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Negaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC001
Lab Tracking # 03BR333

Lab Services Agreement 101201nj01

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
STR001	03BR333 - 1	6/30/03	7/1/03	03-187	3.260	ng/L	
STR002	03BR333 - 2	6/30/03	7/1/03	03-187	2.580	ng/L	
YDR001	03BR333 - 3	6/30/03	7/1/03	03-187	2.810	ng/L	
YDR002	03BR333 - 4	6/30/03	7/1/03	03-187	4.290	ng/L	
CR003	03BR333 - 5	6/30/03	7/1/03	03-187	1.010	ng/L	
CR002	03BR333 - 6	6/30/03	7/1/03	03-187	0.678	ng/L	
Field blank	03BR333 - 7	6/30/03	7/1/03	03-187	0.110	ng/L	B

BRL QA Report

Batch #: **03-187** ***Method #:*** **EPA 1631.E**

Analyte: **Hg** ***Matrix:*** **Water**

BIAS *Criteria: Recovery = 79-121%*
Laboratory Control Samples

LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
QCS (7/1/03)	10.00	10.78	107.8%
QCS (7/2/03)	10.00	10.37	103.7%

BIAS *Criteria: Recovery = 77-123%*
Ongoing Precision and Recovery (OPR)

LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
OPR1(7/1/03)	5.00	5.30	106.0%
OPR2(7/1/03)	5.00	5.76	115.3%
OPR3(7/1/03)	5.00	5.71	114.2%
OPR1(7/2/03)	5.00	4.91	98.1%
OPR2(7/2/03)	5.00	5.19	103.8%
OPR3(7/2/03)	5.00	5.27	105.3%

BIAS *Criteria: Recovery = 71-125%, RPD<24%*
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)

		Matrix Spike			*Matrix Spike Dupicate*			
Sample ID	*Sample Value ng/L*	*Spiked Value ng/L*	*Measured Value ng/L*	*MS Recovery %*	*Spiked Value ng/L*	*Measured Value ng/L*	*MSD Recovery %*	*Duplicate RPD*
03BR329-02	42.6	38.20	90.44	125.2%	38.15	71.51	75.7%	23.4%
03BR329-04	2.07	40.40	44.93	106.1%	40.38	44.68	105.5%	0.6%

Method Blanks (MB) *Criteria: MB (0.5% BrCl) < 0.5 ng/L*

MB1 (7/1/03)		*MB2 (7/1/03)*		*MB3 (7/1/03)*		*MB4 (7/2/03)*		**Detection Limits**	
ng/L	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*MB MDL ng/L*	*MB PQL ng/L*
0.256	0.5%	0.407	1.0%	0.813	2.0%	0.821	2.0%	0.10	0.25

7/3/03

Project Manager

Brooks Rand LLC Sample Receiving Log

Tracking # 03BR333

Customer:	North Jackson Company
Contact:	Peter Sabee
Project Ref. #:	NJC001
Collection Date	6/19/03 6/25/03
QA Level	Standard
Sample Condition	Intact
Shipping container intact?	Yes
Shipping container type:	box
Shipping container temp:	ambient
Shipping container coolant:	none
Sample preservation:	0.5% BrCl
Acid lab #	03-108
Hg Concentration:	
Sample storage area:	Cabinet #2
Sample Turnaround Time:	
Contract Turnaround Time:	30 days

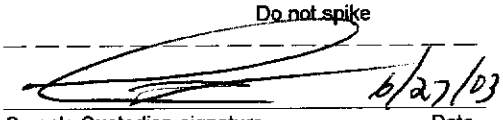
Due Date:	7/27/03
Receiving Date:	6/27/03
Receiving Time:	11:00 AM
Logged-in by:	Matthew Gomes
Log-in Date:	6/27/03
Log-in Time:	2:19 PM
Airbill present?	Yes
Airbill #	834037777383
Carrier:	FedEx
Custody seal present?	Yes
Custody seal intact?	Yes
COC Present?	Yes
COC Number:	N/A
Analysis request form?	No
COC/Sample tag agree?	Yes

See SOW	No	See Project Manager	No
See Memo	No	See Lab Manager	No
Consult MSDS	No	See Contract Info	No

Comments:

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	STR001	G	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
2	STR002	G	250 mL Bottle	<2	Water,	Head Space
Analysis / Method:		Hg	EPA 1631			
3	YDR001	G	250 mL Bottle	<2	Water,	~~Head space~~
Analysis / Method:		Hg	EPA 1631			
4	YDR002	G	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
5	CR003	G	250 mL Bottle	<2	Water,	Head space
Analysis / Method:		Hg	EPA 1631			
6	CR002	G	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
7	Field blank	G	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			Do not spike



Sample Custodian signature

6/27/03

Date

Brooks Rand LLC Chain Of Custody Record

Page 1 of 1

Client: North Jackson Co.	Email address: dan@northjacksonco.com	Ship to: **Brooks Rand LLC**
Contact: D. Wiitala	PO #: EAGLE	3958 6th Avenue NW
Address: P.O. Box 30 420 Rail St. Negaunee, MI 49866	Sampler's signatures:	Seattle, WA 98107
		Phone: 206-632-6206
	Fax COC for receipt confirmation? (Y) / N)	Fax: 206-632-6017
Phone #: 906-475-9865	Client project ID: EAGLE - Kennecott	Email: brl@brooksrand.com
Fax #: 906-475-0237	BRL project ID: NJC001	www.brooksrand.com

For BRL use only	Cooler temp (°C): 4	Custody seals present? (Y / N)	Custody seals intact? (Y / N)	Date 6/27/03	Initials: DG

	Sample ID	Collection: Date	Collection: Time	Miscellaneous: Sampler (initials)	Miscellaneous: Matrix type	Miscellaneous: # of containers	Miscellaneous: Sample field filtered, Y/N	Field Preservation: Unpreserved or ice only	Field Preservation: HNO_3	Field Preservation: HCl	Field Preservation: BrCl	Field Preservation: Other (specify)	Analyses required: Trace Hg	Comments
1	STR001	6-19	1130	DWW	Water	1	N	X					X	
2	STR002	6-19	1015	DWW	"	1	N	X					X	
3	YDR001	6-19	1500	"	"	1	N	X					X	
4	YDR002	6-19	1315	"	"	1	N	X					X	
5	CR003	6-25	1245	"	"	1	N	X					X	
6	CR002	6-25	1350	"	"	1	N	X					X	
7	Field Blank	6-25	1435	"	"	1	N	X					X	
8														
9														
10														

Shipping carrier: Federal Express # of coolers: 1

Relinquished by: Dan Wiitala	Date: 6-25-03	Time: 17:30	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at BRL:	Date: 6/26/03	Time: 11:00

White: LAB COPY **Yellow: CUSTOMER COPY**

006G

BROOKSRAND LLC
ENVIRONMENTAL RESEARCH&DEVELOPMENT

September 3, 2003

North Jackson Company
Attn.: Peter Sabee
420 Rail Street
PO Box 30
Negaunee, MI 49866

RE: Brooks Rand Project: NJC002; Tracking #: 03BR438
Lab Services Agreement 101201nj01; Client Project: Eagle

Dear Mr. Sabee:

This report is for the mercury analysis of seven water samples collected 08/13-08/14/03 and received at Brooks Rand on 08/18/03. These samples have been assigned the BRL tracking number 03BR438.

All samples were received, stored, prepared and analyzed according to Brooks Rand LLC Standard Operating Procedures and EPA Method 1631E. All results were blank corrected, as outlined in the calculations section of EPA Method 1631E. All QA criteria were met. Sample results above the detection limit and below the quantitation limit have been qualified "B" for estimate. No additional qualification of the data was required. Brooks Rand certifies that the reported test results meet all requirements of NELAC.

If there are any questions please feel free to contact me

Sincerely,

Colin Davies

3958 6th Avenue NW • Seattle, WA 98107 • Phone (206) 632-6206 • Fax (206) 632-6017 • www.brooksrand.com • brl@brooksrand.com

Reported by

Brooks Rand LLC

Contact: Colin Davies

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Nagaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 03BR438

Lab Services Agreement 101201NJ01
Client Project Eagle

Sample/Sampling/Receiving Info

North Jackson Company

Sample Identification	Sampling Date
STR001	8/13/03
STR002	8/13/03
YDR001	8/13/03
YDR002	8/13/03
CR002	8/14/03
CR004	8/14/03
Duplicate	8/14/03

BRL

Sample Number	Receiving Date
03BR438 - 1	8/18/03
03BR438 - 2	8/18/03
03BR438 - 3	8/18/03
03BR438 - 4	8/18/03
03BR438 - 5	8/18/03
03BR438 - 6	8/18/03
03BR438 - 7	8/18/03

Reported by

Brooks Rand LLC

Contact: Colin Davies

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Nagaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 03BR438

Lab Services Agreement 101201NJ01
Client Project Eagle

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
STR001	03BR438 - 1	8/26/03	8/28/03	03-311	0.861	ng/L	
STR002	03BR438 - 2	8/26/03	8/28/03	03-311	1.360	ng/L	
YDR001	03BR438 - 3	8/26/03	8/28/03	03-311	1.180	ng/L	
YDR002	03BR438 - 4	8/26/03	8/28/03	03-311	2.010	ng/L	
CR002	03BR438 - 5	8/26/03	8/28/03	03-311	0.123	ng/L	B
CR004	03BR438 - 6	8/26/03	8/28/03	03-311	0.403	ng/L	
Duplicate	03BR438 - 7	8/26/03	8/28/03	03-311	0.213	ng/L	B

BRL QA Report

Batch #: **03-311** ***Method #:*** **EPA 1631.E**

Analyte: **Hg** ***Matrix:*** **Water**

BIAS *Criteria: Recovery = 79-121%*
Laboratory Control Samples

LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
QCS	10.00	10.76	107.6%

BIAS *Criteria: Recovery = 77-123%*
Ongoing Precision and Recovery (OPR)

LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
OPR1	5.00	5.44	108.8%
OPR2	5.00	4.87	97.4%

BIAS *Criteria: Recovery = 71-125%, RPD<24%*
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)

		Matrix Spike			*Matrix Spike Dupicate*			
Sample ID	*Sample Value ng/L*	*Spiked Value ng/L*	*Measured Value ng/L*	*MS Recovery %*	*Spiked Value ng/L*	*Measured Value ng/L*	*MSD Recovery %*	*Duplicate RPD*
03BR416-11	10.5	39.76	51.04	101.8%	39.51	49.66	99.0%	2.7%
03BR438-1	0.861	39.04	34.99	87.4%	39.38	39.58	98.3%	12.3%

Method Blanks (MB) *Criterion: 0.5% BrCl MB < 0.5 ng/L*

MB1		*MB2*		*MB3*		*MB4*		**Detection Limits**	
ng/L	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*MB MDL ng/L*	*MB PQL ng/L*
0.266	0.5%	0.271	0.5%	0.39	1.0%	0.539	2.0%	0.1	0.25

9/2/2003

Project Manager

Brooks Rand LLC Sample Receiving Log

Tracking # **03BR438**

Customer: North Jackson Company
Contact:
Project Ref. #: NJC002

Collection Date 8/13-8/14/03
QA Level Standard

Sample Condition Intact
Shipping container intact? Yes

Shipping container type: box
Shipping container temp: ambient
Shipping container coolant: none

Sample preservation: 0.5% BrCl
Acid lab # 03-178
Hg Concentration:
Sample storage area: cabinet #5

Sample Turnaround Time:
Contract Turnaround Time: 28 days

Comments: See COC. Refers to billing.

Due Date: 9/15/03
Receiving Date: 8/18/03
Receiving Time: 9:00 AM

Logged-in by: Matthew Gomes
Log-in Date: 8/18/03
Log-in Time: 10:08 AM

Airbill present? Yes
Airbill # 841755444534
Carrier: FedEx

Custody seal present? Yes
Custody seal intact? Yes
COC Present? Yes
COC Number: N/A

Case #:
SDG #:

Analysis request form? No

COC/Sample log agree? Yes

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	STR001	G	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
2	STR002	G	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
3	YDR001	G	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
4	YDR002	G	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
5	CR002	G	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
6	CR004	G	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
7	Duplicate	G	250 mL Bottle	<2	Water,	

Analysis / Method: Hg EPA 1631

Sample Custodian signature Date 8/3/03

Brooks Rand LLC Chain Of Custody Record

Page 1 of 1

Client: North Jackson Co.	Email address: dan@northjacksonco.com	Ship to: **Brooks Rand LLC**
Contact: Dan Wiitala	PO #:	3958 6th Avenue NW
Address: 420 Rail Street Negaunee MI, 49866	Sampler's signatures: Dan Wiitala	Seattle, WA 98107
		Phone: 206-632-6206
	Fax COC for receipt confirmation? (Y / N)	Fax: 206-632-6017
Phone #: 906.475.9865	Client project ID: Ft Eagle	Email: brl@brooksrand.com
Fax #: .0238	BRL project ID: ~~N[illegible]~~	www.brooksrand.com

For BRL use only	Cooler temp (°C): Rec	Custody seals present? (Y) / N	Custody seals intact? (Y) / N	Date: 8/8/03	Initials:

	Sample ID	Collection: Date	Collection: Time	Misc: Sampler (initials)	Misc: Matrix type	Misc: # of containers	Misc: Sample field filtered, Y/N	Field Preservation: Unpreserved or ice only	Field Preservation: HNO_3	Field Preservation: HCl	Field Preservation: BrCl	Field Preservation: Other (specify)	Analyses required: Trace Hg	Comments
1	STR001	8-13		DW	wtr	1	N	1						Bill to Kennecott Canada (Ian Graham) w/copy to NJC
2	STR002	8-13		DW	"	1	"	1						
3	YDR001	8-13		DW	"	1	"	1						
4	YDR002	8-13		DW	"	1	"	1						
5	CR002	8-14		DW	"	1	"	1						
6	CR004	8-14		DW	"	1	"	1						
7	Duplicate	8-14		DW	"	1	"	1						
8														
9														
10														

Shipping carrier: FedEx 841755444534 # of coolers: 1

Relinquished by: Dan Wiitala	Date: 8-14-03	Time: 17:00	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at BRL	Date: 8/8/03	Time: 9:00

White: LAB COPY **Yellow: CUSTOMER COPY**

03-006G

BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

November 13, 2003

North Jackson Company
Attn.: Peter Sabee
420 Rail Street
PO Box 30
Negaunee, MI 49866

RE: Brooks Rand Project: NJC002; Tracking #: 03BR680
Lab Services Agreement 101201nj01; Client Project: Eagle

Dear Mr. Sabee:

This report is for the mercury analysis of eight samples collected 10/28 -10/29/03 and received at Brooks Rand on 10/30/03. These samples have been assigned the BRL tracking number 03BR680.

All samples were received, stored, prepared and analyzed according to Brooks Rand LLC Standard Operating Procedures and EPA Method 1631E. All results were blank corrected, as outlined in the calculations section of EPA Method 1631E. All QA criteria were met. Sample results above the detection limit and below the quantitation limit have been qualified "B" for estimate. Results below the detection level are qualified "U" for non-detect and are reported at the MDL. No additional qualification of the data was required. Brooks Rand certifies that the reported test results meet all requirements of NELAC.

If there are any questions please feel free to contact me

Sincerely,

Colin Davies

3958 6th Avenue NW • Seattle, WA 98107 • Phone (206) 632-6206 • Fax (206) 632-6017 • www.brooksrand.com • brl@brooksrand.com

Reported by

Brooks Rand LLC

Contact: Colin Davies

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Negaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 03BR680

Lab Services Agreement 101201NJ01
Client Project Eagle

Sample/Sampling/Receiving Info

North Jackson Company		*BRL*	
Sample Identification	**Sampling Date**	**Sample Number**	**Receiving Date**
STR001	10/28/03	03BR680 - 1	10/30/2003
STR002	10/28/03	03BR680 - 2	10/30/2003
YDR001	10/28/03	03BR680 - 3	10/30/2003
YDR002	10/28/03	03BR680 - 4	10/30/2003
M-1 (Duplicate)	10/28/03	03BR680 - 5	10/30/2003
Field Blank	10/28/03	03BR680 - 6	10/30/2003
CR002	10/29/03	03BR680 - 7	10/30/2003
CR004	10/29/03	03BR680 - 8	10/30/2003

Reported by

Brooks Rand LLC

Contact: Colin Davies

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Nagaunee *MI* *49866*
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 03BR680

Lab Services Agreement 101201NJ01
Client Project Eagle

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
STR001	03BR680 - 1	11/10/2003	11/11/2003	03-609	0.701	ng/L	
STR002	03BR680 - 2	11/10/2003	11/11/2003	03-609	1.230	ng/L	
YDR001	03BR680 - 3	11/10/2003	11/11/2003	03-609	2.260	ng/L	
YDR002	03BR680 - 4	11/10/2003	11/11/2003	03-609	2.530	ng/L	
M-1 (Duplicate)	03BR680 - 5	11/10/2003	11/11/2003	03-609	1.110	ng/L	
Field Blank	03BR680 - 6	11/10/2003	11/11/2003	03-609	0.100	ng/L	U
CR002	03BR680 - 7	11/10/2003	11/11/2003	03-609	0.196	ng/L	B
CR004	03BR680 - 8	11/10/2003	11/11/2003	03-609	0.803	ng/L	

BRL QA Report

Batch #: **03-609** ***Method #:*** **EPA 1631.E**

Analyte: Hg ***Matrix:*** **Water**

BIAS *Criteria: Recovery = 79-121%*			
Laboratory Control Samples			
LCS ID	***Certified Value ng/L***	***Measured Value ng/L***	***Recovery %***
QCS	10.00	9.96	99.6%

BIAS *Criteria: Recovery = 77-123%*			
Ongoing Precision and Recovery (OPR)			
LCS ID	***Certified Value ng/L***	***Measured Value ng/L***	***Recovery %***
OPR1	5.00	5.26	105.3%
OPR2	5.00	4.79	95.8%
OPR3	5.00	4.73	94.7%

BIAS *Criteria: Recovery = 71-125%, RPD<24%*								
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)								
		Matrix Spike			***Matrix Spike Dupicate***			
Sample ID	***Sample Value ng/L***	***Spiked Value ng/L***	***Measured Value ng/L***	***MS Recovery %***	***Spiked Value ng/L***	***Measured Value ng/L***	***MSD Recovery %***	***Duplicate RPD***
03BR680-4	2.53	39.4	43.0	102.8%	39.2	41.9	100.2%	2.7%
03BR694-1	3.12	40.5	44.5	102.2%	39.9	43.9	102.2%	1.2%

Method Blanks (MB) *Criterion: < MB (0.5% BrCl) < 0.5 ng/L*								**Detection Limits**	
MB1		***MB2***		***MB3***		***MB4***		***MB MDL***	***MB PQL***
ng/L	***BrCl%***	***ng/L***	***BrCl%***	***ng/L***	***BrCl%***	***ng/L***	***BrCl%***	***ng/L***	***ng/L***
0.223	0.5%	0.388	1.0%	0.724	2.0%	na	na	0.10	0.25

11/12/2003

Project Manager

Brooks Rand LLC Sample Receiving Log

Tracking # 03BR680

Customer:	North Jackson Company
Contact:	?
Project Ref. #:	NJC002
Collection Date	10/28-10/29/03
QA Level	Standard
Sample Condition	Intact
Shipping container intact?	Yes
Shipping container type:	box
Shipping container temp:	ambient
Shipping container coolant:	none
Sample preservation:	0.5% BrCl
Acid lab #	03-262
Hg Concentration:	
Sample storage area:	Cabinet #1
Sample Turnaround Time:	
Contract Turnaround Time:	28 days

Due Date:	11/27/03
Receiving Date:	10/30/03
Receiving Time:	9:00 AM
Logged-in by:	Matthew Gomes
Log-in Date:	10/30/03
Log-in Time:	10:44 AM
Airbill present?	Yes
Airbill #	791043482306
Carrier:	FedEx
Custody seal present?	Yes
Custody seal intact?	Yes
COC Present?	Yes
COC Number:	N/A
Analysis request form?	No
COC/Sample tag agree?	Yes

See SOW	No	See Project Manager	No
See Memo	No	See Lab Manager	No
Consult MSDS	No	See Contract Info	No

Comments: Invoice to Kennecott (cc:North Jackson)
Lot # 159

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	STR001	G	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631.E			
2	STR002	G	250 mL Bottle	<2	Water,	Small head space
Analysis / Method:		Hg	EPA 1631.E			
3	YDR001	G	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631.E			
4	YDR002	G	250 mL Bottle	<2	Water,	Small head space
Analysis / Method:		Hg	EPA 1631.E			
5	M-1 (Duplicate)	G	250 mL Bottle	<2	Water,	Small head space
Analysis / Method:		Hg	EPA 1631.E			
6	Field Blank	G	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631.E			Do not spike

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
7	CR002	G	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631.E			
8	CR004	G	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631.E			

10/20/03

Sample Custodian signature Date

Brooks Rand LLC Chain Of Custody Record

Page 1 of 1

Client: North Jackson Co.	Email address:	Ship to: **Brooks Rand LLC**
Contact: Dan Wiitala	PO #:	3958 6th Avenue NW
Address: 420 Rail Street Negaunee MI, 49866	Sampler's signatures: Dan Wiitala	Seattle, WA 98107
		Phone: 206-632-6206
	Fax COC for receipt confirmation? (Y) N	Fax: 206-632-6017
Phone #: (906)-475-9739	Client project ID: Eagle	Email: brl@brooksrand.com
Fax #: -0238	BRL project ID: NJL002 ~~Eagle~~	www.brooksrand.com

For BRL use only	Cooler temp (°C):	Custody seals present? (Y / N)	Custody seals intact? (Y / N)	Date: 10/30/03	Initials:

	Sample ID	Collection: Date	Collection: Time	Miscellaneous: Sampler (initials)	Miscellaneous: Matrix type	Miscellaneous: # of containers	Miscellaneous: Sample field filtered, Y/N	Field Preservation: Unpreserved or ice only	Field Preservation: HNO_3	Field Preservation: HCl	Field Preservation: BrCl	Field Preservation: Other (specify)	Analyses required	Comments
1	STR001	10-28	0845	DW	wtr	1	N						Trace Hg	Invoice to Kenneth (cc: North Jackson)
2	STR002	10-28	1030	DW		1								
3	YDR001	10-28	1300	DW		1								
4	YDR002	10-28	1200	DW		1								
5	M-1 (Duplicate)	10-28		DW		1								
6	Field Blank	10-28		DW		1								
7	CR002	10-29	0845	DW		1								
8	CR004	10-29	1000	DW	↓	1	↓						↓	
9														
10														

Shipping carrier: Fed Ex # 2910 4348 2306 # of coolers: 1

Relinquished by: Dan Wiitala	Date: 10-29	Time: 18:00	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at BRL:	Date: 10/30/03	Time: 9:00

White: LAB COPY **Yellow: CUSTOMER COPY**

BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

March 22, 2004

North Jackson Company
Attn.: Peter Sabee
420 Rail Street
PO Box 30
Negaunee, MI 49866

RE: Brooks Rand Project: NJC001; Tracking #: 04BR109
Lab Services Agreement 101201nj01; Client Project ID: Eagle

Dear Mr. Sabee:

This report is for the mercury analysis of twelve water samples collected 2/18/04, 2/19/04 and 2/24/04. They were received at Brooks Rand on 3/1/04 and have been assigned the BRL tracking number 04BR109.

All samples were received, stored, prepared and analyzed according to Brooks Rand LLC Standard Operating Procedures and EPA Method 1631E. All results were blank corrected, as outlined in the calculations section of EPA Method 1631E. Results below the detection level are qualified "U" for non-detect and are reported at the MDL. Results above the detection limit and below the quantitation limit are qualified "B" for estimate. All QA criteria were met and no additional qualification of the data was required. Brooks Rand certifies that the reported test results meet all requirements of NELAC.

If there are any questions please feel free to contact me

Sincerely,

Elizabeth Madonick

3958 6th Avenue NW • Seattle, WA 98107 • Phone (206) 632-6206 • Fax (206) 632-6017 • www.brooksrand.com • brl@brooksrand.com

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Negaunee *MI* *49866*
Tel: 906-475-9882

Lab Project # NJC001
Lab Tracking # 04BR109

Lab Services Agreement 101201nj01

Sample/Sampling/Receiving Info

North Jackson Company — *BRL*

Sample Identification	Sampling Date	Sample Number	Receiving Date
CDRMS004	2/24/04	04BR109 - 1	3/1/2004
CDRAS002	2/24/04	04BR109 - 2	3/1/2004
TBK001	2/24/04	04BR109 - 3	3/1/2004
STRWS001	2/24/04	04BR109 - 4	3/1/2004
DUP001	2/24/04	04BR109 - 5	3/1/2004
STRMS003	2/24/04	04BR109 - 6	3/1/2004
STRES001	2/24/04	04BR109 - 7	3/1/2004
YDRMS001	2/18/04	04BR109 - 8	3/1/2004
YDRMS002	2/18/04	04BR109 - 9	3/1/2004
YDRMS003	2/19/04	04BR109 - 10	3/1/2004
STRMS001	2/18/04	04BR109 - 11	3/1/2004
STRMS002	2/18/04	04BR109 - 12	3/1/2004

Monday, March 22, 2004

Elizabeth Madonick
Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Negaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC001
Lab Tracking # 04BR109

Lab Services Agreement 101201nj01

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
CDRMS004	04BR109 - 1	3/15/2004	3/18/2004	04-166	0.659	ng/L	
CDRAS002	04BR109 - 2	3/15/2004	3/18/2004	04-166	0.248	ng/L	B
TBK001	04BR109 - 3	3/15/2004	3/18/2004	04-166	0.100	ng/L	U
STRWS001	04BR109 - 4	3/15/2004	3/18/2004	04-166	1.990	ng/L	
DUP001	04BR109 - 5	3/15/2004	3/18/2004	04-166	2.190	ng/L	
STRMS003	04BR109 - 6	3/15/2004	3/18/2004	04-166	1.250	ng/L	
STRES001	04BR109 - 7	3/15/2004	3/18/2004	04-166	0.926	ng/L	
YDRMS001	04BR109 - 8	3/15/2004	3/18/2004	04-166	1.820	ng/L	
YDRMS002	04BR109 - 9	3/15/2004	3/18/2004	04-166	1.820	ng/L	
YDRMS003	04BR109 - 10	3/15/2004	3/18/2004	04-166	1.850	ng/L	
STRMS001	04BR109 - 11	3/15/2004	3/18/2004	04-166	0.716	ng/L	
STRMS002	04BR109 - 12	3/15/2004	3/18/2004	04-166	0.887	ng/L	

Monday, March 22, 2004

Elizabeth Madonick
Project Manager

BRL QA Report

Batch #: **04-166** ***Method #:*** **EPA 1631.E**

Analyte: **Hg** ***Matrix:*** **Water**

BIAS *Criteria: Recovery = 79-121%*
Laboratory Control Samples

LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
QCS	10.00	10.31	103.1%

BIAS *Criteria: Recovery = 77-123%*
Ongoing Precision and Recovery (OPR)

LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
OPR1	5.00	4.98	99.6%
OPR2	5.00	5.19	103.9%

BIAS *Criteria: Recovery = 71-125%, RPD<24%*
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)

		Matrix Spike			*Matrix Spike Dupicate*			
Sample ID	*Sample Value ng/L*	*Spiked Value ng/L*	*Measured Value ng/L*	*MS Recovery %*	*Spiked Value ng/L*	*Measured Value ng/L*	*MSD Recovery %*	*Duplicate RPD*
04BR109-8	1.82	39.7	43.8	105.7%	39.8	39.0	93.4%	11.5%
04BR140-2	0.959	40.3	40.9	99.1%	40.7	41.8	100.2%	2.0%

Method Blanks (MB) *Criterion: < MB (0.5% BrCl) < 0.5 ng/L*

MB1		*MB2*		*MB3*		*MB4*		**Detection Limits**	
ng/L	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*MB MDL ng/L*	*MB PQL ng/L*
0.140	0.5%	0.162	0.5%	0.295	1.0%	NA	NA	0.10	0.25

3/19/2004

Elizabeth M. Derrick
Project Manager

Brooks Rand LLC Sample Receiving Log

Tracking # **04BR109**

Customer: North Jackson Company
Contact: Peter Sabee
Project Ref. #: NJC001

Collection Date 2/18/04-2/24/04
QA Level Standard

Sample Condition Intact
Shipping container intact? Yes

Shipping container type: Box
Shipping container temp: Room
Shipping container coolant: None

Sample preservation: 0.5% BrCl
Acid lab # 04-029
Hg Concentration:
Sample storage area: Cabinet #2

Sample Turnaround Time:
Contract Turnaround Time: 30 days

Due Date: 3/31/04
Receiving Date: 3/1/04
Receiving Time: 8:30 AM

Logged-in by: Biniam Zelelow
Log-in Date: 3/1/04
Log-in Time: 10:11 AM

Airbill present? Yes
Airbill # 7917 8299 3119
Carrier: FedEx

Custody seal present? Yes
Custody seal intact? Yes
COC Present? Yes
COC Number: N/A

Analysis request form? No
COC/Sample tag agree? Yes

See SOW	No	See Project Manage	No
See Mem	No	See Lab Manage	No
Consult MSDS	No	See Contract Inf	No

Comments: Cleaning batches 04-023, 04-034. Two empty bottle returned.

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	CDRMS004	PTI-703	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
2	CDRAS002	Br-2025	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
3	TBK001	PTI-682	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
4	STRWS001	BR-2016	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
5	DUP001	BR-344	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
6	STRMS003	BR-2051	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
7	STRES001	PTI-047	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
8	YDRMS001	PTI-072	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
9	YDRMS002	MDNR-217	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
10	YDRMS003	PTI-660	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
11	STRMS001	BR-341	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
12	STRMS002	PTI-685	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			

B. Fehlow 3/1/04

Sample Custodian signature Date

Brooks Rand LLC Chain Of Custody Record

Page 1 of 2

Client: North Dickson Company	Email address: peter@nd .com	Ship to: **Brooks Rand LLC**
Contact: Peter Sabee	PO #: 03-006	3958 6th Avenue NW
Address: P.O. Box 30 420 Rail Rd Negaunee MI.	Sampler's signatures: D Wittet	Seattle, WA 98107
	Fax COC for receipt confirmation? (Y / N)	Phone: 206-632-6206
Phone #: 906 475 9882	Client project ID: SALE	Fax: 206-632-6017
Fax #:	BRL project ID: NJC001	Email: brl@brooksrand.com
		www.brooksrand.com

For BRL use only	Cooler temp (°C): 4.0 on	Custody seals present? (Y / N)	Custody seals intact? (Y / N)	Date: 3.1.04	Initials: RO

	Sample ID	Collection: Date	Collection: Time	Misc: Sampler (initials)	Misc: Matrix type	Misc: # of containers	Misc: Sample field filtered, Y/N	Field Preservation: Unpreserved or ice only	Field Preservation: HNO_3	Field Preservation: HCl	Field Preservation: BrCl	Field Preservation: Other (specify)	Analyses required: Trace Hg	Comments
1	CDRMS004	2-24-04		RJS	Water	1	N	X						SAG-100104 8
2	CDRAS002													SAG-100
3	TBK001													SAG
4	STRW5001													SA-100 51
5	DUP001													SAG-100105 4
6	STRMS003													SAG-100105 2
7	STRES001	↓												SAG-100105 3
8	YDRMS001	2-18-04												
9	YDRMS002	2-18-04												
10	YDRMS003	2-19-04		↓	↓	↓	↓	↓						

Shipping carrier: Federal Express # of coolers: 1

Relinquished by:	Date: 2-26-04	Time: 0900	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at BRL: Yellow	Date: 3.1.04	Time: 8:30

White: LAB COPY **Yellow: CUSTOMER COPY**

Yellow Dog

03-006

Brooks Rand LLC Chain Of Custody Record

Client: North Jackson Company	Email address:	Ship to: **Brooks Rand LLC**
Contact: Pete Sabo	PO #:	3958 6th Avenue NW
Address:	Sampler's signatures:	Seattle, WA 98107
		Phone: 206-632-6206
	Fax COC for receipt confirmation? (Y / N)	Fax: 206-632-6017
Phone #: 906 475-9882	Client project ID:	Email: brl@brooksrand.com
Fax #:	BRL project ID: NJC001	www.brooksrand.com

For BRL use only	Cooler temp (°C): room	Custody seals present? (Y / N)	Custody seals intact? (Y / N)	Date: 3/04	Initials: BT

	Sample ID	Collection		Miscellaneous				Field Preservation					Analyses required							Comments
		Date	Time	Sampler (initials)	Matrix type	# of containers	Sample field filtered, Y/N	Unpreserved or ice only	HNO_3	HCl	BrCl	Other (specify)	Trace Metals Hg							
1	STRMS001	2-18-04		RJS	Water	1	N	X					X							
2	STRMS002	2-18-04		↓	↓	↓	↓	↓					↓							
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Shipping carrier:			# of coolers: 1	
Relinquished by:	Date: 2-26-04	Time: 0900	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at BRL:	Date: 3/04	Time: 8:30

White: LAB COPY **Yellow: CUSTOMER COPY**

BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

May 3, 2004

North Jackson Company
Attn.: Peter Sabee
420 Rail Street
PO Box 30
Negaunee, MI 49866

RE: Brooks Rand Project: NJC002; Tracking #: 04BR184
Lab Services Agreement 101201nj01; Client Project: Eagle

Dear Mr. Sabee:

This report is for the mercury analysis of four water samples collected 3/31/04. These samples were received at Brooks Rand on 4/5/04 and assigned the BRL tracking number 04BR184.

All samples were received, stored, prepared and analyzed according to Brooks Rand LLC Standard Operating Procedures and EPA Method 1631E. All results were blank corrected, as outlined in the calculations section of EPA Method 1631E. Results above the detection limit and below the quantitation limit are qualified "B" for estimate. All QA criteria were met and no additional qualification of the data was required. Brooks Rand certifies that the reported test results meet all requirements of NELAC.

If there are any questions please feel free to contact me.

Sincerely,

Elizabeth Madonick

Elizabeth Madonick

3958 6th Avenue NW • Seattle, WA 98107 • Phone (206) 632-6206 • Fax (206) 632-6017 • www.brooksrand.com • brl@brooksrand.com

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Negaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR184

Lab Services Agreement 101201NJ01
Client Project Eagle

Sample/Sampling/Receiving Info

North Jackson Company		*BRL*	
Sample Identification	**Sampling Date**	**Sample Number**	**Receiving Date**
WLDP001 (EAG-1001058)	3/31/04	043R184 - 1	4/5/2004
WLDP006 (EAG-1001056)	3/31/04	043R184 - 2	4/5/2004
WLDP021 (EAG-1001055)	3/31/04	043R184 - 3	4/5/2004
WLDP016 (EAG-1001057)	3/31/04	043R184 - 4	4/5/2004

Monday, May 03, 2004

Elizabeth M. Madonick
Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Negaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR184

Lab Services Agreement 101201NJ01
Client Project Eagle

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
WLDP001 (EAG-1001058)	04BR184 - 1	4/19/2004	4/20/2004	04-260	0.468	ng/L	
WLDP006 (EAG-1001056)	04BR184 - 2	4/19/2004	4/20/2004	04-260	0.598	ng/L	
WLDP021 (EAG-1001055)	04BR184 - 3	4/19/2004	4/20/2004	04-260	0.921	ng/L	
WLDP016 (EAG-1001057)	04BR184 - 4	4/19/2004	4/20/2004	04-260	0.244	ng/L	B

Monday, May 03, 2004

Elizabeth M. Madonick
Project Manager

BRL QA Summary

Batch #: **04-260** ***Method #:*** **EPA 1631.E**

Analyte: **Hg** ***Matrix:*** **Water**

BIAS *Criteria: Recovery = 79-121%*			
Laboratory Control Samples			
LCS ID	***Certified Value ng/L***	***Measured Value ng/L***	***Recovery %***
QCS	10.00	9.80	98.0%

BIAS *Criteria: Recovery = 77-123%*			
Ongoing Precision and Recovery (OPR)			
LCS ID	***Certified Value ng/L***	***Measured Value ng/L***	***Recovery %***
OPR1	5.00	5.06	101.2%
OPR2	5.00	5.09	101.8%

BIAS *Criteria: Recovery = 71-125%, RPD<24%*								
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)								
		Matrix Spike			***Matrix Spike Dupicate***			
Sample ID	***Sample Value ng/L***	***Spiked Value ng/L***	***Measured Value ng/L***	***MS Recovery %***	***Spiked Value ng/L***	***Measured Value ng/L***	***MSD Recovery %***	***Duplicate RPD***
04BR184-1	0.468	40.1	42.2	104.0%	40.0	33.3	82.2%	23.4%
04BR185-1	3.45	39.8	35.4	80.3%	39.9	40.1	92.0%	12.5%

Method Blanks (MB) *Criterion: < MB (0.5% BrCl) < 0.5 ng/L*								**Detection Limits**	
MB1		***MB2***		***MB3***		***MB4***		***MB MDL***	***MB PQL***
ng/L	***BrCl%***	***ng/L***	***BrCl%***	***ng/L***	***BrCl%***	***ng/L***	***BrCl%***	***ng/L***	***ng/L***
0.160	0.5%	0.168	0.5%	0.169	0.5%	NA	NA	0.10	0.25

4/21/2004

Project Manager

Brooks Rand LLC Sample Receiving Log

Tracking # **04BR184**

Customer:	North Jackson Company
Contact:	Peter Sabee
Project Ref. #:	NJC002
Collection Date	3/31/04
QA Level	Standard
Sample Condition	Intact
Shipping container intact?	Yes
Shipping container type:	Box
Shipping container temp:	Ambient
Shipping container coolant:	None
Sample preservation:	0.5% BrCl
Acid lab #	04-068
Hg Concentration:	
Sample storage area:	Cabinet #1
Sample Turnaround Time:	
Contract Turnaround Time:	28 days

Due Date:	5/3/04
Receiving Date:	4/5/04
Receiving Time:	8:30 AM
Logged-in by:	Mel Kreachbaum
Log-in Date:	4/5/04
Log-in Time:	9:00 AM
Airbill present?	Yes
Airbill #	7924 6622 4383
Carrier:	FedEx
Custody seal present?	Yes
Custody seal intact?	Yes
COC Present?	Yes
COC Number:	N/A
Analysis request form?	No
COC/Sample tag agree?	Yes

See SOW	No	See Project Manage	No
See Mem	No	See Lab Manage	No
Consult MSDS	No	See Contract Inf	No

Comments: Lot # 04-070.

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	WLDP001 (EAG-1001058)	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
2	WLDP006 (EAG-1001056)	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
3	WLDP021 (EAG-1001055)	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
4	WLDP016 (EAG-1001057)	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			

Sample Custodian signature 4/5/04 Date

Brooks Rand LLC Chain Of Custody Record

Page 1 of 1

Client: North Jackson Co	Email address: peter@northjacksonco.com	Ship to: **Brooks Rand LLC**
Contact: Peter Sabee	PO #:	3958 6th Avenue NW
Address: P.O. Box 30 Negaunee Mi. 49866	Sampler's signatures: P Sabee	Seattle, WA 98107
		Phone: 206-632-6206
	Fax COC for receipt confirmation? (Y / N)	Fax: 206-632-6017
Phone #: (906) 475-9739	Client project ID: EAGLE	Email: brl@brooksrand.com
Fax #: 475-0238	BRL project ID: NJC002	www.brooksrand.com

For BRL use only	Cooler temp (°C): room	Custody seals present? (Y / N)	Custody seals intact? (Y / N)	Date: 4/5/04	Initials: C

	Sample ID	Collection: Date	Collection: Time	Miscellaneous: Sampler (initials)	Miscellaneous: Matrix type	Miscellaneous: # of containers	Miscellaneous: Sample field filtered, Y/N	Field Preservation: Unpreserved or ice only	Field Preservation: HNO_3	Field Preservation: HCl	Field Preservation: BrCl	Field Preservation: Other (specify)	Analyses required: Trace Hg	Comments
1	WLDP001	3/31/04	1440	PJS	W	1	Y	X					X	EAG-1001058
2	WLDP006	3/31/04	1330	PJS	W	1	Y	X					X	EAG-1001056
3	WLDP021	3/31/04	1200	PJS	W	1	Y	X					X	EAG-1001055
4	WLDP016	3/31/04	1410	PJS	W	1	Y	X					X	EAG-1001057
5														
6														
7														
8														
9														
10														

Shipping carrier: Fed Ex — # of coolers: 1 Box

Relinquished by: P Sabee	Date: 4/1/04	Time: 1400	Received by:	Date: / Time:
Relinquished by:	Date:	Time:	Received at BRL:	Date: 4/5/04 Time: 8:30

White: LAB COPY **Yellow: CUSTOMER COPY**

BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

5

May 5, 2004

North Jackson Company
Attn.: Peter Sabee
420 Rail Street
PO Box 30
Negaunee, MI 49866

RE: Brooks Rand Project: NJC002; Tracking #: 04BR206
Lab Services Agreement 101201nj01; Client Project: Eagle

Dear Mr. Sabee:

This report is for the mercury analysis of twelve water samples collected 4/6/04 through 4/8/04. These samples were received at Brooks Rand on 4/14/04 and assigned the BRL tracking number 04BR206.

All samples were received, stored, prepared and analyzed according to Brooks Rand LLC Standard Operating Procedures and EPA Method 1631E. All results were blank corrected, as outlined in the calculations section of EPA Method 1631E. Results above the detection limit and below the quantitation limit are qualified "B" for estimate. All QA criteria were met and no additional qualification of the data was required. Brooks Rand certifies that the reported test results meet all requirements of NELAC.

If there are any questions please feel free to contact me.

Sincerely,

Elizabeth Madonick

Elizabeth Madonick

3958 6th Avenue NW • Seattle, WA 98107 • Phone (206) 632-6206 • Fax (206) 632-6017 • www.brooksrand.com • brl@brooksrand.com

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Negaunee *MI* *49866*
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR206

Lab Services Agreement 101201NJ01
Client Project Eagle

Sample/Sampling/Receiving Info

North Jackson Company		*BRL*	
Sample Identification	**Sampling Date**	**Sample Number**	**Receiving Date**
YDRMS002 (EAG-1001060)	4/6/04	04BR206 - 1	4/14/2004
YDRMS003 (EAG-1001061)	4/6/04	04BR206 - 2	4/14/2004
YDRMS001 (EAG-1001059)	4/7/04	04BR206 - 3	4/14/2004
STRMS003 (EAG-1001064)	4/7/04	04BR206 - 4	4/14/2004
STRMS002 (EAG-1001062)	4/7/04	04BR206 - 5	4/14/2004
STRMS001 (EAG-1001063)	4/7/04	04BR206 - 6	4/14/2004
STRWS001 (EAG-1001065)	4/7/04	04BR206 - 7	4/14/2004
STRES001 (EAG-1001066)	4/7/04	04BR206 - 8	4/14/2004
DUPS001 (EAG-1001067)	4/7/04	04BR206 - 9	4/14/2004
EQBS001 (EAG-1001070)	4/8/04	04BR206 - 10	4/14/2004
CDRAS002 (EAG-1001069)	4/8/04	04BR206 - 11	4/14/2004
CDRMS004 (EAG-1001068)	4/8/04	04BR206 - 12	4/14/2004

Wednesday, May 05, 2004

Clifford Madonick
Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Negaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR206

Lab Services Agreement 101201NJ01
Client Project Eagle

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
YDRMS002 (EAG-1001060)	04BR206 - 1	4/29/2004	4/30/2004	04-261	6.280	ng/L	
YDRMS003 (EAG-1001061)	04BR206 - 2	4/29/2004	4/30/2004	04-261	5.710	ng/L	
YDRMS001 (EAG-1001059)	04BR206 - 3	4/29/2004	4/30/2004	04-261	6.310	ng/L	
STRMS003 (EAG-1001064)	04BR206 - 4	4/29/2004	4/30/2004	04-261	4.130	ng/L	
STRMS002 (EAG-1001062)	04BR206 - 5	4/29/2004	4/30/2004	04-261	3.150	ng/L	
STRMS001 (EAG-1001063)	04BR206 - 6	4/29/2004	4/30/2004	04-261	1.960	ng/L	
STRWS001 (EAG-1001065)	04BR206 - 7	4/29/2004	4/30/2004	04-261	5.030	ng/L	
STRES001 (EAG-1001066)	04BR206 - 8	4/29/2004	4/30/2004	04-261	3.920	ng/L	
DUPS001 (EAG-1001067)	04BR206 - 9	4/29/2004	4/30/2004	04-261	4.900	ng/L	
EQBS001 (EAG-1001070)	04BR206 - 10	4/29/2004	4/30/2004	04-261	0.102	ng/L	B
CDRAS002 (EAG-1001069)	04BR206 - 11	4/29/2004	4/30/2004	04-261	0.815	ng/L	
CDRMS004 (EAG-1001068)	04BR206 - 12	4/29/2004	4/30/2004	04-261	3.670	ng/L	

Wednesday, May 05, 2004

Elizabeth Madonick
Project Manager

BRL QA Summary

Batch #: **04-261** ***Method #:*** **EPA 1631.E**

Analyte: **Hg** ***Matrix:*** **Water**

BIAS *Criteria: Recovery = 79-121%*			
Laboratory Control Samples			
LCS ID	***Certified Value ng/L***	***Measured Value ng/L***	***Recovery %***
QCS	10.00	10.59	105.9%

BIAS *Criteria: Recovery = 77-123%*			
Ongoing Precision and Recovery (OPR)			
LCS ID	***Certified Value ng/L***	***Measured Value ng/L***	***Recovery %***
OPR1	5.00	5.53	110.6%
OPR2	5.00	5.53	110.6%

BIAS *Criteria: Recovery = 71-125%, RPD<24%*								
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)								
		Matrix Spike			***Matrix Spike Dupicate***			
Sample ID	***Sample Value ng/L***	***Spiked Value ng/L***	***Measured Value ng/L***	***MS Recovery %***	***Spiked Value ng/L***	***Measured Value ng/L***	***MSD Recovery %***	***Duplicate RPD***
04BR199-2	2.64	40.0	46.2	108.9%	40.0	44.6	105.0%	3.5%
04BR206-10	0.102	39.9	41.5	103.8%	40.0	42.5	106.0%	2.4%

Method Blanks (MB) *Criterion: < MB (0.5% BrCl) < 0.5 ng/L*								**Detection Limits**	
MB1		***MB2***		***MB3***		***MB4***		***MB MDL***	***MB PQL***
ng/L	***BrCl%***	***ng/L***	***BrCl%***	***ng/L***	***BrCl%***	***ng/L***	***BrCl%***	***ng/L***	***ng/L***
0.150	0.5%	0.150	0.5%	0.305	1.0%	NA	NA	0.10	0.25

5/5/2004

Elizabeth Mcdonnell

Project Manager

Brooks Rand LLC Sample Receiving Log

Tracking # 04BR206

Customer:	North Jackson Company
Contact:	Dan Wirtala
Project Ref. #:	NJC002
Collection Date	4/6/04-4/8/04
QA Level	Standard
Sample Condition	Intact
Shipping container intact?	Yes
Shipping container type:	Box
Shipping container temp:	Ambient
Shipping container coolant:	None
Sample preservation:	0.5% BrCl
Acid lab #	04-068
Hg Concentration:	
Sample storage area:	Cabinet #2
Sample Turnaround Time:	
Contract Turnaround Time:	28 days

Due Date:	5/12/04
Receiving Date:	4/14/04
Receiving Time:	9:00 AM
Logged-in by:	Mel Kreachbaum
Log-in Date:	4/14/04
Log-in Time:	3:09 PM
Airbill present?	Yes
Airbill #	7918 1722 8330
Carrier:	FedEx
Custody seal present?	Yes
Custody seal intact?	Yes
COC Present?	Yes
COC Number:	N/A
Analysis request form?	No
COC/Sample tag agree?	No

See SOW	No	See Project Manage	No
See Mem	No	See Lab Manage	No
Consult MSDS	No	See Contract Inf	No

Comments: Lot # 04-070 and 04-048.

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	YDRMS002 (EAG-1001060)	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
2	YDRMS003 (EAG-1001061)	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
3	YDRMS001 (EAG-1001059)	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
4	STRMS003 (EAG-1001064)	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
5	STRMS002 (EAG-1001062)	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
6	STRMS001 (EAG-1001063)	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
7	STRWS001 (EAG-1001065)	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
8	STRES001 (EAG-1001066)	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
9	DUPS001 (EAG-1001067)	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
10	EQBS001 (EAG-1001070)	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
11	CDRAS002 (EAG-1001069)	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
12	CDRMS004 (EAG-1001068)	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			

Sample Custodian signature

4/14/04
Date

Brooks Rand LLC Chain Of Custody Record

Page 1 of 2

Client: North Jackson Co	Email address:	Ship to: **Brooks Rand LLC**
Contact:	PO #:	3958 6th Avenue NW
Address: See P2	Sampler's signatures:	Seattle, WA 98107
		Phone: 206-632-6206
	Fax COC for receipt confirmation? (Y / N)	Fax: 206-632-6017
Phone #:	Client project ID:	Email: brl@brooksrand.com
Fax #:	BRL project ID: NJC 002	www.brooksrand.com

For BRL use only	Cooler temp (°C): room	Custody seals present? (Y / N)	Custody seals intact? (Y / N)	Date: 4/14/04	Initials:

	Sample ID	Collection		Miscellaneous				Field Preservation					Analyses required							Comments
		Date	Time	Sampler (initials)	Matrix type	# of containers	Sample field filtered, Y/N	Unpreserved or ice only	HNO_3	HCl	BrCl	Other (specify)	Trace Hg							
1	GDRMS002	4-06-04	1500	PJS	W	1	N	X				X	X							EAG-1001060
2	GDRMS003	4-06-04		PJS	W	1	N	X					X							EAG-1001061
3	GDRMS002	4-07-04	1000	PJS	W	1	N	X					X							EAG-1001059
4	STRMS003	4-07-04	1145	PJS	W	1	N	X					X							EAG-1001064
5	STRMS002	4-07-04	1100	PJS	W	1	N	X					X							EAG-1001062
6	STRMS001	4-07-04	1030	PJS	W	1	N	X					X							EAG-1001063
7	STRWS001	4-07-04	1330	PJS	W	1	N	X					X							EAG-1001065
8	STRES001	4-07-04	1915	PJS	W	1	N	X					X							EAG-1001066
9	DUPS001	4-07-04		PJS	W	1	N	X					X							EAG-1001067
10	EQBS001	4-08-04	1535	PJS	W	1	N	X					X							EAG-1001070

Shipping carrier: # of coolers:

Relinquished by:	Date: 4-12-04 Time: 1400	Received by:	Date: Time:
Relinquished by:	Date: Time:	Received at BRL	Date: 4/14/04 Time: 9 a.m.

White: LAB COPY **Yellow: CUSTOMER COPY**

Brooks Rand LLC Chain Of Custody Record

Page 2 of 2

Client: North Jackson Co	Email address: Dan@northjacksonco.com	Ship to: **Brooks Rand LLC**
Contact: Dan Whitaker	PO #: EAGLE	3958 6th Avenue NW
Address: P.O. Box 30 420 Rail St Negaunee Mi 49866	Sampler's signatures:	Seattle, WA 98107
		Phone: 206-632-6206
	Fax COC for receipt confirmation? (Y / N)	Fax: 206-632-6017
Phone #: 906 475 7865	Client project ID: EAGLE	Email: brl@brooksrand.com
Fax #: 906 475 0238	BRL project ID: NJSC002	www.brooksrand.com

For BRL use only	Cooler temp (°C): room	Custody seals present? (Y / N)	Custody seals intact? (Y / N)	Date: 4/14/04	Initials:

	Sample ID	Collection: Date	Collection: Time	Miscellaneous: Sampler (initials)	Miscellaneous: Matrix type	Miscellaneous: # of containers	Miscellaneous: Sample field filtered, Y/N	Field Preservation: Unpreserved or ice only	Field Preservation: HNO_3	Field Preservation: HCl	Field Preservation: BrCl	Field Preservation: Other (specify)	Analyses required: Total Mercury	Analyses required	Analyses required	Analyses required	Analyses required	Analyses required	Comments
1	CDRAS002	4/9/04	1400	PMK	W	1	N	X					X						EAG-1001069
2	CDRMS004	4/9/04	1230	PMK	W	1	N	X					X						EAG-1001068
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Bill KEK quantity COPY NJSS to Bill

Shipping carrier: # of coolers: 1

Relinquished by:	Date: 4/12/04	Time: 1400	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at BRL	Date: 4/14/04	Time: 9:00

White: LAB COPY **Yellow: CUSTOMER COPY**

BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

May 19, 2004

North Jackson Company
Attn.: Peter Sabee
420 Rail Street
PO Box 30
Negaunee, MI 49866

RE: Brooks Rand Project: NJC002; Tracking #: 04BR238
Lab Services Agreement 101201nj01; Client Project: Eagle

Dear Mr. Sabee:

This report is for the mercury analysis of nine water samples collected 4/13/04 through 4/15/04. These samples were received at Brooks Rand on 4/22/04 and assigned the BRL tracking number 04BR238.

All samples were received, stored, prepared and analyzed according to Brooks Rand LLC Standard Operating Procedures and EPA Method 1631E. All results were blank corrected, as outlined in the calculations section of EPA Method 1631E. All QA criteria were met and no additional qualification of the data was required. Brooks Rand certifies that the reported test results meet all requirements of NELAC.

If there are any questions please feel free to contact me.

Sincerely,

Elizabeth Madonick

Elizabeth Madonick

3958 6th Avenue NW • Seattle, WA 98107 • Phone (206) 632-6206 • Fax (206) 632-6017 • www.brooksrand.com • brl@brooksrand.com

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Nagaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR238

Lab Services Agreement 101201NJ01
Client Project Eagle

Sample/Sampling/Receiving Info

North Jackson Company — ***BRL***

Sample Identification	Sampling Date	Sample Number	Receiving Date
DUP001 (EAG-1001089)	4/13/04	04BR238 - 1	4/22/2004
QALM005D (EAG-1001095)	4/15/04	04BR238 - 2	4/22/2004
QALM005A (EAG-1001094)	4/15/04	04BR238 - 3	4/22/2004
QALM001A (EAG-1001092)	4/14/04	04BR238 - 4	4/22/2004
QALM001D (EAG-1001093)	4/15/04	04BR238 - 5	4/22/2004
QALM003B (EAG-1001088)	4/13/04	04BR238 - 6	4/22/2004
QALM003A (EAG-1001087)	4/13/04	04BR238 - 7	4/22/2004
QALM004A (EAG-1001090)	4/14/04	04BR238 - 8	4/22/2004
QALM004D (EAG-1001091)	4/14/04	04BR238 - 9	4/22/2004

Wednesday, May 19, 2004

Elizabeth Madonick
Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Negaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR238

Lab Services Agreement 101201NJ01
Client Project Eagle

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
DUP001 (EAG-1001089)	04BR238 - 1	5/11/2004	5/17/2004	04-317	0.305	ng/L	
QALM005D (EAG-1001095)	04BR238 - 2	5/11/2004	5/17/2004	04-317	0.340	ng/L	
QALM005A (EAG-1001094)	04BR238 - 3	5/11/2004	5/17/2004	04-317	0.274	ng/L	
QALM001A (EAG-1001092)	04BR238 - 4	5/11/2004	5/17/2004	04-317	0.302	ng/L	
QALM001D (EAG-1001093)	04BR238 - 5	5/11/2004	5/17/2004	04-317	0.717	ng/L	
QALM003B (EAG-1001088)	04BR238 - 6	5/11/2004	5/17/2004	04-317	0.390	ng/L	
QALM003A (EAG-1001087)	04BR238 - 7	5/11/2004	5/17/2004	04-317	0.618	ng/L	
QALM004A (EAG-1001090)	04BR238 - 8	5/11/2004	5/17/2004	04-317	0.267	ng/L	
QALM004D (EAG-1001091)	04BR238 - 9	5/11/2004	5/17/2004	04-317	0.322	ng/L	

Wednesday, May 19, 2004

Elizabeth Madonick
Project Manager

BRL QA Summary

Batch #: **04-317** ***Method #:*** **EPA 1631.E**

Analyte: **Hg** ***Matrix:*** **Water**

BIAS *Criteria: Recovery = 79-121%* **Laboratory Control Samples**			
LCS ID	***Certified Value ng/L***	***Measured Value ng/L***	***Recovery %***
QCS	10.00	10.60	106%

BIAS *Criteria: Recovery = 77-123%* **Ongoing Precision and Recovery (OPR)**			
LCS ID	***Certified Value ng/L***	***Measured Value ng/L***	***Recovery %***
OPR1	5.00	5.09	102%
OPR2	5.00	4.99	99.8%

BIAS *Criteria: Recovery = 71-125%, RPD<24%* **Matrix Spikes/Matrix Spike Duplicates (MS/MSD)**								
		Matrix Spike			***Matrix Spike Dupicate***			
Sample ID	***Sample Value ng/L***	***Spiked Value ng/L***	***Measured Value ng/L***	***MS Recovery %***	***Spiked Value ng/L***	***Measured Value ng/L***	***MSD Recovery %***	***Duplicate RPD***
04BR238-1	0.305	39.9	38.2	95.0%	39.9	40.0	99.4%	4.5%
04BR254-2	4.69	39.7	45.9	104%	39.7	45.4	102%	1.2%

Method Blanks (MB) *Criterion: < MB (0.5% BrCl) < 0.5 ng/L*								**Detection Limits**	
MB1		***MB2***		***MB3***		***MB4***		***MB MDL***	***MB PQL***
ng/L	***BrCl%***	***ng/L***	***BrCl%***	***ng/L***	***BrCl%***	***ng/L***	***BrCl%***	***ng/L***	***ng/L***
0.136	0.5%	0.163	0.5%	0.221	1.0%	NA	NA	0.10	0.25

5/19/2004

Project Manager

Brooks Rand LLC Sample Receiving Log

Tracking # 04BR238

Customer:	North Jackson Company
Contact:	Dan Witaker
Project Ref. #:	NJC002
Collection Date	4/13/04-4/15/04
QA Level	Standard
Sample Condition	Intact
Shipping container intact?	Yes
Shipping container type:	Box
Shipping container temp:	Ambient
Shipping container coolant:	None
Sample preservation:	0.5% BrCl
Acid lab #	04-068
Hg Concentration:	
Sample storage area:	Cabinet #5
Sample Turnaround Time:	
Contract Turnaround Time:	28 days

Due Date:	5/20/04
Receiving Date:	4/22/04
Receiving Time:	8:45 AM
Logged-in by:	Mel Kreachbaum
Log-in Date:	4/22/04
Log-in Time:	2:45 PM
Airbill present?	Yes
Airbill #	7901 2344 4620
Carrier:	FedEx
Custody seal present?	Yes
Custody seal intact?	Yes
COC Present?	Yes
COC Number:	N/A
Analysis request form?	No
COC/Sample tag agree?	Yes

See SOW	No	See Project Manage	No
See Mem	No	See Lab Manage	No
Consult MSDS	No	See Contract Inf	No

Comments: Lot # 04-070.

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	DUP001 (EAG-1001089)	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
2	QALM005D (EAG-1001095)	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
3	QALM005A (EAG-1001094)	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
4	QALM001A (EAG-1001092)	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
5	QALM001D (EAG-1001093)	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
6	QALM003B (EAG-1001088)	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
7	QALM003A (EAG-1001087)	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
8	QALM004A (EAG-1001090)	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
9	QALM004D (EAG-1001091)	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			

Sample Custodian signature

4/22/04
Date

Brooks Rand LLC Chain Of Custody Record

Page 1 of 1

Client: North Jackson Company / Golden Eagle	Email address: peter@northjacksonco.com	Ship to: **Brooks Rand LLC**
Contact: Dan Whitaker	PO #: EAGLE	3958 6th Avenue NW
Address: P.O. Box 30 420 Rail St. Negaunee Mi. 49866	Sampler's signatures:	Seattle, WA 98107
		Phone: 206-632-6206
Phone #: (906) 475-9739	Fax COC for receipt confirmation? (Y / N)	Fax: 206-632-6017
Fax #:	Client project ID: EAGLE	Email: brl@brooksrand.com
	BRL project ID: NJC002	www.brooksrand.com

For BRL use only	Cooler temp (°C): 6.0 M	Custody seals present? (Y / N)	Custody seals intact? (Y / N)	Date: 4/22/04	Initials: E

	Sample ID	Collection: Date	Collection: Time	Miscellaneous: Sampler (initials)	Miscellaneous: Matrix type	Miscellaneous: # of containers	Miscellaneous: Sample field filtered, Y/N	Field Preservation: Unpreserved or ice only	Field Preservation: HNO_3	Field Preservation: HCl	Field Preservation: BrCl	Field Preservation: Other (specify)	Analyses required: Trace Hg	Comments
1	DUP001	4-13	—	PJS	Wtr	1	Y	X					X	EAG-1001089
2	QALM005D	4-15	1350	PJS	WTR	1	Y	X					X	EAG-1001095
3	QALM005A	4-15	1200	↓	↓	↓	↓	↓					↓	EAG-1001094
4	QALM001A	4-14	1500											EAG-1001092
5	QALM001D	4-15	1030											EAG-1001093
6	QALM003B	4-13	1485											EAG-1001088
7	QALM003A	4-13	1415											EAG-1001087
8	QALM004A	4-14	1220											EAG-1001090
9	QALM004D	4-14	1245	↓	↓	↓	↓	↓					↓	EAG-1001091
10														

Shipping carrier: Fed Exp

of coolers:

Relinquished by:	Date: 4/21/04	Time: 1400	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at BRL:	Date: 4/22/04	Time: 845

White: LAB COPY **Yellow: CUSTOMER COPY**

BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

May 17, 2004

North Jackson Company
Attn.: Peter Sabee
420 Rail Street
PO Box 30
Negaunee, MI 49866

RE: Brooks Rand Project: NJC002; Tracking #: 04BR263
Lab Services Agreement 101201nj01; Client Project: Eagle

Dear Mr. Sabee:

This report is for the mercury analysis of twelve water samples collected 4/28/04 through 4/29/04. These samples were received at Brooks Rand on 5/5/04 and assigned the BRL tracking number 04BR263.

All samples were received, stored, prepared and analyzed according to Brooks Rand LLC Standard Operating Procedures and EPA Method 1631E. All results were blank corrected, as outlined in the calculations section of EPA Method 1631E. Results above the detection limit and below the quantitation limit are qualified "B" for estimate. Results below the detection level are qualified "U" for non-detect and are reported at the MDL. All QA criteria were met and no additional qualification of the data was required. Brooks Rand certifies that the reported test results meet all requirements of NELAC.

If there are any questions please feel free to contact me.

Sincerely,

Elizabeth Madonick

Elizabeth Madonick

3958 6th Avenue NW • Seattle, WA 98107 • Phone (206) 632-6206 • Fax (206) 632-6017 • www.brooksrand.com • brl@brooksrand.com

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Nagaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR263

Lab Services Agreement 101201NJ01
Client Project Eagle

Sample/Sampling/Receiving Info

North Jackson Company		*BRL*	
Sample Identification	**Sampling Date**	**Sample Number**	**Receiving Date**
QALM002D	4/29/04	04BR263 - 1	5/5/2004
EQB001	4/29/04	04BR263 - 2	5/5/2004
FBK002	4/29/04	04BR263 - 3	5/5/2004
FBK001	4/29/04	04BR263 - 4	5/5/2004
EQB002	4/29/04	04BR263 - 5	5/5/2004
QALM002A	4/28/04	04BR263 - 6	5/5/2004
QALM006B	4/28/04	04BR263 - 7	5/5/2004
DUP002	4/28/04	04BR263 - 8	5/5/2004
DUP003	4/28/04	04BR263 - 9	5/5/2004
QALM006A	4/28/04	04BR263 - 10	5/5/2004
DUP001	4/28/04	04BR263 - 11	5/5/2004
SNW001	4/29/04	04BR263 - 12	5/5/2004

Tuesday, October 12, 2004

Updated eam 10/12/04
Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Nagaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR263

Lab Services Agreement 101201NJ01
Client Project Eagle

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
QALM002D	04BR263 - 1	5/12/2004	5/13/2004	04-326	0.515	ng/L	
EQB001	04BR263 - 2	5/12/2004	5/13/2004	04-326	0.134	ng/L	B
FBK002	04BR263 - 3	5/12/2004	5/13/2004	04-326	0.100	ng/L	U
FBK001	04BR263 - 4	5/12/2004	5/13/2004	04-326	0.258	ng/L	
EQB002	04BR263 - 5	5/12/2004	5/13/2004	04-326	0.227	ng/L	B
QALM002A	04BR263 - 6	5/12/2004	5/13/2004	04-326	0.229	ng/L	B
QALM006B	04BR263 - 7	5/12/2004	5/13/2004	04-326	0.443	ng/L	
DUP002	04BR263 - 8	5/12/2004	5/13/2004	04-326	0.622	ng/L	
DUP003	04BR263 - 9	5/12/2004	5/13/2004	04-326	0.434	ng/L	
QALM006A	04BR263 - 10	5/12/2004	5/13/2004	04-326	0.628	ng/L	
DUP001	04BR263 - 11	5/12/2004	5/13/2004	04-326	0.307	ng/L	
SNW001	04BR263 - 12	5/12/2004	5/13/2004	04-326	3.940	ng/L	

Tuesday, October 12, 2004

Updated eam 10/12/04
Project Manager

BRL QA Summary

Batch #: **04-326** ***Method #:*** **EPA 1631.E**

Analyte: **Hg** ***Matrix:*** **Water**

BIAS *Criteria: Recovery = 79-121%*
Laboratory Control Samples

LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
QCS	10.00	11.09	110.9%

BIAS *Criteria: Recovery = 77-123%*
Ongoing Precision and Recovery (OPR)

LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
OPR1	5.00	5.01	100.2%
OPR2	5.00	5.68	113.6%

BIAS *Criteria: Recovery = 71-125%, RPD<24%*
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)

		Matrix Spike			*Matrix Spike Dupicate*			
Sample ID	*Sample Value ng/L*	*Spiked Value ng/L*	*Measured Value ng/L*	*MS Recovery %*	*Spiked Value ng/L*	*Measured Value ng/L*	*MSD Recovery %*	*Duplicate RPD*
04BR247-1	89.1	40.0	126	91.2%	40.0	128	97.8%	2.1%
04BR263-1	0.515	40.0	41.5	102.6%	40.0	41.8	103.4%	0.8%

Method Blanks (MB) *Criterion: < MB (0.5% BrCl) < 0.5 ng/L*

MB1		*MB2*		*MB3*		*MB4*		**Detection Limits**	
ng/L	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*MB MDL ng/L*	*MB PQL ng/L*
0.141	0.5%	0.140	0.5%	0.248	1.0%	NA	NA	0.10	0.25

5/14/2004

Elizabeth Mudrock
Project Manager

Brooks Rand LLC Sample Receiving Log

Tracking # **04BR263**

Customer: North Jackson Company
Contact: Dan Witaker
Project Ref. #: NJC002

Collection Date 4/29/04
QA Level Standard

Sample Condition Intact
Shipping container intact? Yes

Shipping container type: Box
Shipping container temp: Ambient
Shipping container coolant: None

Sample preservation: 0.5% BrCl
Acid lab # 04-068
Hg Concentration:
Sample storage area: Cabinet #1

Sample Turnaround Time:
Contract Turnaround Time: 28 days

Due Date: 6/2/2004
Receiving Date: 5/5/2004
Receiving Time: 9:00 AM

Logged-in by: Mel Kreachbaum
Log-in Date: 5/5/2004
Log-in Time: 10:05 AM

Airbill present? Yes
Airbill # 7901 3612 4402
Carrier: FedEx

Custody seal present? Yes
Custody seal intact? Yes
COC Present? Yes
COC Number: N/A

Analysis request form? No
COC/Sample tag agree? Yes

See SOW	No	See Project Manage	No
See Mem	No	See Lab Manage	No
Consult MSDS	No	See Contract Inf	No

Comments: Lot # 04-070, except #10 (04-048) and # 12 (04-051).

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	QALM002D	FPE	250 mL Bottle	<2	Water,	EAG-1001100
Analysis / Method:		Hg	EPA 1631			
2	EQB001	FPE	250 mL Bottle	<2	Water,	EAG-1001105
Analysis / Method:		Hg	EPA 1631			
3	FBK002	FPE	250 mL Bottle	<2	Water,	EAG-1001104
Analysis / Method:		Hg	EPA 1631			
4	FBK001	FPE	250 mL Bottle	<2	Water,	EAG-1001103
Analysis / Method:		Hg	EPA 1631			
5	EQB002	FPE	250 mL Bottle	<2	Water,	EAG-1001106
Analysis / Method:		Hg	EPA 1631			
6	QALM002A	FPE	250 mL Bottle	<2	Water,	EAG-1001101
Analysis / Method:		Hg	EPA 1631			

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
7	QALM006B	FPE	250 mL Bottle	<2	Water,	EAG-1001098
Analysis / Method:		Hg	EPA 1631			
8	DUP002	FPE	250 mL Bottle	<2	Water,	EAG-1001097
Analysis / Method:		Hg	EPA 1631			
9	DUP003	FPE	250 mL Bottle	<2	Water,	EAG-1001099
Analysis / Method:		Hg	EPA 1631			
10	QALM006A	FPE	250 mL Bottle	<2	Water,	EAG-1001096
Analysis / Method:		Hg	EPA 1631			
11	DUP001	FPE	250 mL Bottle	<2	Water,	EAG-1001102
Analysis / Method:		Hg	EPA 1631			
12	SNW001	FPE	250 mL Bottle	<2	Water,	EAG-1001107
Analysis / Method:		Hg	EPA 1631			

updated MTL 10/12/04

Sample Custodian signature Date

Brooks Rand LLC Chain Of Custody Record

Page 1 of 2

Client: NJS	Email address: dan@northjackson.com	Ship to: **Brooks Rand LLC**
Contact: Dan Whitaker	PO #: EAGLE	3958 6th Avenue NW
Address: P.O Box 30 420 Rail St Negaunee Mi. 49866	Sampler's signatures:	Seattle, WA 98107
	Fax COC for receipt confirmation? (Y / N)	Phone: 206-632-6206
Phone #: 906 475 7739	Client project ID: EAGLE	Fax: 206-632-6017
Fax #:	BRL project ID: NJC002	Email: brl@brooksrand.com
		www.brooksrand.com

For BRL use only	Cooler temp (°C): 10/11	Custody seals present? (Y / N)	Custody seals intact? (Y / N)	Date: 5/5/04	Initials:

	Sample ID	Collection: Date	Collection: Time	Miscellaneous: Sampler (initials)	Miscellaneous: Matrix type	Miscellaneous: # of containers	Miscellaneous: Sample field filtered, Y/N	Field Preservation: Unpreserved or ice only	Field Preservation: HNO_3	Field Preservation: HCl	Field Preservation: BrCl	Field Preservation: Other (specify)	Analyses required: T. #0	Comments
1	QALM002D	4-28	1400	DuW	W	1	Y	X					X	EAG-100110
2	EQB001	4-29	1210	PJS			Y							EAG-100105
3	FBK002	4-29	1100	PJS			N							EAG-100104
4	FBK001	4-29	1145	PJS			N							EAG-100103
5	EQB002	4-29	1220	PJS			Y							EAG-100106
6	QALM002A	4-28	1120	DuW										EAG-100101
7	QALM006B	4-28	1410	DuW										EAG-100108
8	DUP002	4-28		DuW										EAG-100107
9	DUP003	4-28		DuW										EAG-100102
10	QALM006A	4-28	1330	DuW	↓	↓	↓	↓					↓	EAG-100109

Shipping carrier: Federal Express # of coolers: 1

Relinquished by:	Date: 5-3-04 Time:	Received by:	Date: Time:
Relinquished by:	Date: Time:	Received at BRL by:	Date: 5/5/04 Time: 9am

W = Water

White: LAB COPY **Yellow: CUSTOMER COPY**

Brooks Rand LLC Chain Of Custody Record

Page 2 of 2

Client: NA	Email address:	Ship to: **Brooks Rand LLC**
Contact:	PO #:	3958 6th Avenue NW
Address: See Reverse	Sampler's signatures:	Seattle, WA 98107
		Phone: 206-632-6206
	Fax COC for receipt confirmation? (Y / N)	Fax: 206-632-6017
Phone #:	Client project ID: EAG-EF	Email: brl@brooksrand.com
Fax #:	BRL project ID: NJCCC2	www.brooksrand.com

For BRL use only	Cooler temp (°C): Room	Custody seals present? (Y / N)	Custody seals intact? (Y / N)	Date: 5/5/04	Initials:

	Sample ID	Collection		Miscellaneous				Field Preservation						Analyses required							Comments
		Date	Time	Sampler (initials)	Matrix type	# of containers	Sample field filtered, Y/N	Unpreserved or ice only	HNO_3	HCl	BrCl	Other (specify)	Total Hg								
1	DUP002	4-28		DW	W	1	N	X					X								EAG-1001102
2	SNWW001	4-29		V	W	1	N	X					X								EAG-1001107
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Shipping carrier:				# of coolers:	
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at BRL:	Date: 5/5/04	Time: 9am

White: LAB COPY **Yellow: CUSTOMER COPY**

BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

July 29, 2004

North Jackson Company
Attn.: Peter Sabee
420 Rail Street
PO Box 30
Negaunee, MI 49866

RE: Brooks Rand Project: NJC002; Tracking #: 04BR460
Lab Services Agreement 101201nj01; Client Project: Eagle

Dear Mr. Sabee:

This report is for the mercury analysis of fourteen water samples collected 6/29/04 through 6/30/04. These samples were received at Brooks Rand on 7/8/04 and assigned the BRL tracking number 04BR460.

All samples were received, stored, prepared and analyzed according to Brooks Rand LLC Standard Operating Procedures and EPA Method 1631E. All results were blank corrected, as outlined in the calculations section of EPA Method 1631E. Results below the detection level are qualified "U" for non-detect and are reported at the MDL. All QA criteria were met and no additional qualification of the data was required. Brooks Rand certifies that the reported test results meet all requirements of NELAC.

If there are any questions please feel free to contact me.

Sincerely,

Elizabeth Madonick

Elizabeth Madonick

3958 6th Avenue NW • Seattle, WA 98107 • Phone (206) 632-6206 • Fax (206) 632-6017 • www.brooksrand.com • brl@brooksrand.com

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

P.O.Box 218 *1004 Har*
Marquette MI 49855
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR460

Lab Services Agreement 101201NJ01
Client Project Eagle

Sample/Sampling/Receiving Info

North Jackson Company | *BRL*

Sample Identification	Sampling Date	Sample Number	Receiving Date
STRMS001	6/30/2004	04BR460 - 1	7/8/2004
STRMS002	6/29/2004	04BR460 - 2	7/8/2004
STRMS003	6/29/2004	04BR460 - 3	7/8/2004
STRES001	6/29/2004	04BR460 - 4	7/8/2004
STRES002	6/30/2004	04BR460 - 5	7/8/2004
CDRAS002	6/29/2004	04BR460 - 6	7/8/2004
CDRMS004	6/29/2004	04BR460 - 7	7/8/2004
YDRMS002	6/30/2004	04BR460 - 8	7/8/2004
YDRMS003	6/30/2004	04BR460 - 9	7/8/2004
STRWS001	6/29/2004	04BR460 - 10	7/8/2004
EQBS001	6/30/2004	04BR460 - 11	7/8/2004
EQBS002	6/30/2004	04BR460 - 12	7/8/2004
DUPS001	6/29/2004	04BR460 - 13	7/8/2004
DUPS002	6/29/2004	04BR460 - 14	7/8/2004

Thursday, January 20, 2005

Elizabeth Madonick
Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

P.O.Box 218 *1004 Har*
Marquette MI 49855
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR460

Lab Services Agreement 101201NJ01
Client Project Eagle

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
STRMS001	04BR460 - 1	7/20/2004	7/21/2004	04-532	2.120	ng/L	
STRMS002	04BR460 - 2	7/20/2004	7/21/2004	04-532	2.030	ng/L	
STRMS003	04BR460 - 3	7/20/2004	7/21/2004	04-532	3.670	ng/L	
STRES001	04BR460 - 4	7/20/2004	7/21/2004	04-532	1.100	ng/L	
STRES002	04BR460 - 5	7/20/2004	7/21/2004	04-532	0.885	ng/L	
CDRAS002	04BR460 - 6	7/20/2004	7/21/2004	04-532	0.418	ng/L	
CDRMS004	04BR460 - 7	7/20/2004	7/21/2004	04-532	1.040	ng/L	
YDRMS002	04BR460 - 8	7/20/2004	7/21/2004	04-532	3.290	ng/L	
YDRMS003	04BR460 - 9	7/20/2004	7/21/2004	04-532	3.040	ng/L	
STRWS001	04BR460 - 10	7/20/2004	7/21/2004	04-532	2.180	ng/L	
EQBS001	04BR460 - 11	7/20/2004	7/21/2004	04-532	0.100	ng/L	U
EQBS002	04BR460 - 12	7/20/2004	7/21/2004	04-532	0.100	ng/L	U
DUPS001	04BR460 - 13	7/20/2004	7/21/2004	04-532	0.933	ng/L	
DUPS002	04BR460 - 14	7/20/2004	7/21/2004	04-532	3.590	ng/L	

Thursday, January 20, 2005

Elizabeth Madonick
Project Manager

BRL QA Summary

Batch #: **04-532** ***Method #:*** **EPA 1631.E**

Analyte: **Hg** ***Matrix:*** **Water**

BIAS *Criteria: Recovery = 79-121%*			
Laboratory Control Samples			
LCS ID	***Certified Value ng/L***	***Measured Value ng/L***	***Recovery %***
QCS	10.00	9.94	99.4%

BIAS *Criteria: Recovery = 77-123%*			
Ongoing Precision and Recovery (OPR)			
LCS ID	***Certified Value ng/L***	***Measured Value ng/L***	***Recovery %***
OPR1	5.00	4.87	97.4%
OPR2	5.00	4.99	99.8%
OPR3	5.00	4.68	93.6%

BIAS *Criteria: Recovery = 71-125%, RPD<24%*								
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)								
		Matrix Spike			***Matrix Spike Dupicate***			
Sample ID	***Sample Value ng/L***	***Spiked Value ng/L***	***Measured Value ng/L***	***MS Recovery %***	***Spiked Value ng/L***	***Measured Value ng/L***	***MSD Recovery %***	***Duplicate RPD***
04BR460-8	3.29	39.8	42	96.6%	39.8	39	88.9%	7.6%
04BR466-2	0.591	39.9	38	94.1%	39.8	38	92.9%	1.4%

Method Blanks (MB) *Criterion: < MB (0.5% BrCl) < 0.5 ng/L*								**Detection Limits**	
MB1		***MB2***		***MB3***		***MB4***		***MB MDL***	***MB PQL***
ng/L	***BrCl%***	***ng/L***	***BrCl%***	***ng/L***	***BrCl%***	***ng/L***	***BrCl%***	***ng/L***	***ng/L***
0.186	0.5%	0.181	0.5%	0.301	1.0%	NA	NA	0.10	0.25

7/22/2004

Elizabeth Madonia
Project Manager

Brooks Rand LLC Sample Receiving Log

Tracking # **04BR460**

Customer: North Jackson Company
Contact: Peter Sabee
Project Ref. #: NJC002

Collection Date 6/29/2004-6/30/2004
QA Level Standard

Sample Condition Intact
Shipping container intact? Yes

Shipping container type: box
Shipping container temp: ambient
Shipping container coolant: none

Sample preservation: 0.5% BrCl
Acid lab # 04-161
Hg Concentration:
Sample storage area: Cabinet #2

Sample Turnaround Time:
Contract Turnaround Time: 28 days

Due Date: 8/5/2004
Receiving Date: 7/8/2004
Receiving Time: 12:15 PM

Logged-in by: James D. Newman
Log-in Date: 7/9/2004
Log-in Time: 9:37 AM

Airbill present? Yes
Airbill # 7926 7713 3399
Carrier: FedEx

Custody seal present? Yes
Custody seal intact? Yes
COC Present? Yes
COC Number: N/A

Analysis request form? No
COC/Sample tag agree? Yes

See SOW	No	See Project Manage	No
See Mem	No	See Lab Manage	No
Consult MSDS	No	See Contract Inf	No

Comments: Lot# 04-057

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	STRMS001	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
2	STRMS002	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
3	STRMS003	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
4	STRES001	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
5	STRES002	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
6	CDRAS002	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
7	CDRMS004	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
8	YDRMS002	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
9	YDRMS003	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
10	STRWS001	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
11	EQBS001	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
12	EQBS002	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
13	DUPS001	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
14	DUPS002	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			

Sample Custodian signature 7/9/2009 Date

Brooks Rand LLC Chain Of Custody Record

Page 1 of 2

Client: North Jackson	Email address: peter@northjacksonco.com	Ship to: **Brooks Rand LLC**
Contact: P Saber	PO #: EAGLE	3958 6th Avenue NW
Address: P.O. Box 30 Negaunee MI 49866	Sampler's signatures:	Seattle, WA 98107
		Phone: 206-632-6206
	Fax COC for receipt confirmation? (Y / N)	Fax: 206-632-6017
Phone #:	Client project ID: EAGLE	Email: brl@brooksrand.com
Fax #:	BRL project ID: NJC002	www.brooksrand.com

For BRL use only	Cooler temp (°C):	Custody seals present? (Y / N)	Custody seals intact? (Y / N)	Date:	Initials:

	Sample ID	Collection		Miscellaneous				Field Preservation					Analyses required							Comments
		Date	Time	Sampler (initials)	Matrix type	# of containers	Sample field filtered, Y/N	Unpreserved or ice only	HNO_3	HCl	BrCl	Other (specify)	Mercury							
1	STRMS001	6/30		PJS	Water	1	N	X												EAG-100112.1
2	STRMS002	6/29		↓	↓	↓	↓	↓					↓							EAG-100118
3	STRMS003	6/29																		EAG-100113
4	STRES001	6/29																		EAG-100111
5	STRES002	6/30																		EAG-100102
6	CDRAS002	6/29																		EAG-100109
7	CDRMS004	6/29																		EAG-100108
8	YDRMS002	6/30																		EAG-100120
9	YDRMS003	6/30																		EAG-100119
10	STRWS001	6/29		↓	↓	↓	↓	↓					↓							EAG-100117

Bill KEK Directly

Shipping carrier: Fed Exp # of coolers:

Relinquished by:	Date: 7/2/09 Time:	Received by:	Date: Time:
Relinquished by:	Date: Time:	Received at BRL:	Date: 7/6/09 Time: 12:15

White: LAB COPY **Yellow: CUSTOMER COPY**

Brooks Rand LLC Chain Of Custody Record

Page 2 of 2

Client: North Fork Environmental	Email address:	Ship to: **Brooks Rand LLC**
Contact:	PO #: EAGLE	3958 6th Avenue NW
Address:	Sampler's signatures:	Seattle, WA 98107
		Phone: 206-632-6206
	Fax COC for receipt confirmation? (Y / N)	Fax: 206-632-6017
Phone #:	Client project ID: EAGLE	Email: brl@brooksrand.com
Fax #:	BRL project ID: NJC002	www.brooksrand.com

For BRL use only	*Cooler temp (°C):*	*Custody seals present? (Y / N)*	*Custody seals intact? (Y / N)*	*Date:*	*Initials:*

	Sample ID	*Collection*		*Miscellaneous*				*Field Preservation*					*Analyses required*							*Comments*
		Date	Time	Sampler (initials)	Matrix type	# of containers	Sample field filtered, Y/N	Unpreserved or ice only	HNO_3	HCl	BrCl	Other (specify)	Mercury							
1	EQBS001	6/30		BS	Water	1	N	X												EAG-100115
2	EQBS002	6/30		BS																EAG-100116
3	DUPS001	6/29		BS																EAG-100110
4	DUPS002	6/29		BS																EAG-100114
5																				
6																				
7																				
8																				
9																				
10																				

Shipping carrier:	# of coolers:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at BRL:	Date: 7/9/07	Time: 1215

White: LAB COPY **Yellow: CUSTOMER COPY**

BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

August 6, 2004

North Jackson Company
Attn.: Peter Sabee
420 Rail Street
PO Box 30
Negaunee, MI 49866

RE: Brooks Rand Project: NJC002; Tracking #: 04BR494
Lab Services Agreement 101201nj01; Client Project ID: Eagle

Dear Mr. Sabee:

This report is for the mercury analysis of one water sample collected 7/6/04. It was received at Brooks Rand on 7/23/04 and has been assigned the BRL tracking number 04BR494.

All samples were received, stored, prepared and analyzed according to Brooks Rand LLC Standard Operating Procedures and EPA Method 1631E. All results were blank corrected, as outlined in the calculations section of EPA Method 1631E. All QA criteria were met and no qualification of the data was required. Brooks Rand certifies that the reported test results meet all requirements of NELAC.

If there are any questions please feel free to contact me

Sincerely,

Elizabeth Madonick

Elizabeth Madonick

3958 6th Avenue NW • Seattle, WA 98107 • Phone (206) 632-6206 • Fax (206) 632-6017 • www.brooksrand.com • brl@brooksrand.com

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Nagaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR494

Lab Services Agreement 101201NJ01
Client Project Eagle

Sample/Sampling/Receiving Info

North Jackson Company | *BRL*

Sample Identification	Sampling Date	Sample Number	Receiving Date
STRMS004	7/6/2004	04BR494 - 1	7/23/2004

Friday, August 06, 2004

Elizabeth Madonick
Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Negaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR494

Lab Services Agreement 101201NJ01
Client Project Eagle

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
STRMS004	04BR494 - 1	7/29/2004	7/30/2004	04-549	2.140	ng/L	

Friday, August 06, 2004

Elizabeth Madonick
Project Manager

BRL QA Summary

Batch #: **04-549** ***Method #:*** **EPA 1631.E**

Analyte: **Hg** ***Matrix:*** **Water**

BIAS *Criteria: Recovery = 79-121%*
Laboratory Control Samples

LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
QCS	10.00	10.06	100.6%

BIAS *Criteria: Recovery = 77-123%*
Ongoing Precision and Recovery (OPR)

LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
OPR1	5.00	4.85	97.0%
OPR2	5.00	4.72	94.5%

BIAS *Criteria: Recovery = 71-125%, RPD<24%*
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)

		Matrix Spike			*Matrix Spike Dupicate*			
Sample ID	*Sample Value ng/L*	*Spiked Value ng/L*	*Measured Value ng/L*	*MS Recovery %*	*Spiked Value ng/L*	*Measured Value ng/L*	*MSD Recovery %*	*Duplicate RPD*
04BR489-1	32.9	40.7	73.3	99.4%	39.3	69.8	93.8%	4.9%
04BR491-3	46.6	39.9	86.4	99.7%	38.0	86.8	105.7%	0.4%

Method Blanks (MB) *Criterion: < MB (0.5% BrCl) < 0.5 ng/L*

MB1		*MB2*		*MB3*		*MB4*		**Detection Limits**	
ng/L	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*MB MDL ng/L*	*MB PQL ng/L*
0.178	0.5%	0.273	1.0%	1.28	5.0%	NA	NA	0.10	0.25

8/5/2004

Elizabeth Mebane
Project Manager

Brooks Rand LLC Sample Receiving Log

Tracking # **04BR494**

Customer:	North Jackson Company
Contact:	Peter Sabee
Project Ref. #:	NJC002
Collection Date	7/6/2004
QA Level	Standard
Sample Condition	Intact
Shipping container intact?	Yes
Shipping container type:	box
Shipping container temp:	ambient
Shipping container coolant:	none
Sample preservation:	0.5% BrCl
Acid lab #	04-161
Hg Concentration:	
Sample storage area:	Cabinet #1
Sample Turnaround Time:	
Contract Turnaround Time:	28 days

Due Date:	8/20/2004
Receiving Date:	7/23/2004
Receiving Time:	9:30 AM
Logged-in by:	James D. Newman
Log-in Date:	7/23/2004
Log-in Time:	12:10 PM
Airbill present?	Yes
Airbill #	790215892877
Carrier:	FedEx
Custody seal present?	Yes
Custody seal intact?	Yes
COC Present?	Yes
COC Number:	N/A
Analysis request form?	No
COC/Sample tag agree?	Yes

See SOW	No	See Project Manage	No
See Mem	No	See Lab Manage	No
Consult MSDS	No	See Contract Inf	No

Comments: Lot# 04-057

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	STRMS004	FPE	250 mL Bottle	<2	Water,	

Analysis / Method: Hg EPA 1631

Sample Custodian signature 7/23/2004 Date

Brooks Road

TriMatrix Laboratories, Inc.

5560 Corporate Exchange Court SE Grand Rapids, MI 49512
Phone (616) 975-4500 Fax (616) 942-7463
www.trimatrixlabs.com

Chain of Custody Record

COC No.

Page 1 of 1

For Lab Use Only

Cart

VOA Rack/Tray

Receipt Log No.

Project Chemist

Laboratory Project No.

Client Name: North Jackson
Address: P.O. Box 30
Nogeanee MI
Phone: 906 475-9882
Fax: 0238

Project Name: EAGLE
Client Project No. / P.O. No.
Invoice To: Client ✓ Other (comments)
Contact/Report To: P SABEE

Analyses Requested

Trace Fe D

A PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List) / Number of Containers Submitted	Total	Sample Comments
			1 STRM5004		7-6-04			X	W	X		EAG-100122
			2									
			3									
			4									
			5									
			6									
			7									
			8									
			9									
			10									

Sampled By (print): P. Sabee
Sampler's Signature: P Sabee
Company: NJC

How Shipped? Hand Carrier Fed Ex
Tracking No.

Comments: Bill KEK Direct

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
P Sabee	7-22-04							
1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
1								

BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

September 2, 2004

North Jackson Company
Attn.: Peter Sabee
420 Rail Street
PO Box 30
Negaunee, MI 49866

RE: Brooks Rand Project: NJC002; Tracking #: 04BR528
Lab Services Agreement 101201nj01; Client Project: Eagle

Dear Mr. Sabee:

This report is for the mercury analysis of sixteen water samples collected 8/3/04 through 8/5/04. These samples were received at Brooks Rand on 8/9/04 and assigned the BRL tracking number 04BR528.

All samples were received, stored, prepared and analyzed according to Brooks Rand LLC Standard Operating Procedures and EPA Method 1631E. All results were blank corrected, as outlined in the calculations section of EPA Method 1631E. Results below the detection level are qualified "U" for non-detect and are reported at the MDL. All QA criteria were met and no additional qualification of the data was required. Brooks Rand certifies that the reported test results meet all requirements of NELAC.

If there are any questions please feel free to contact me.

Sincerely,

Elizabeth Madonick
Project Manager
elizabeth@brooksrand.com

Jim Schulz
Project Coordinator
jim@brooksrand.com

3958 6th Avenue NW • Seattle, WA 98107 • Phone (206) 632-6206 • Fax (206) 632-6017 • www.brooksrand.com • brl@brooksrand.com

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Negaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR528

Lab Services Agreement 101201NJ01
Client Project Eagle

Sample/Sampling/Receiving Info

North Jackson Company | *BRL*

Sample Identification	Sampling Date	Sample Number	Receiving Date
STRMS 002	8/3/2004	04BR528 - 1	8/9/2004
STRMS 003	8/4/2004	04BR528 - 2	8/9/2004
STRMS 004	8/5/2004	04BR528 - 3	8/9/2004
STRMS 001	8/4/2004	04BR528 - 4	8/9/2004
STRWS 001	8/5/2004	04BR528 - 5	8/9/2004
STRES 001	8/5/2004	04BR528 - 6	8/9/2004
STRES 002	8/5/2004	04BR528 - 7	8/9/2004
YDRMS 002	8/3/2004	04BR528 - 8	8/9/2004
YDRMS 003	8/4/2004	04BR528 - 9	8/9/2004
CDRAS 002	8/3/2004	04BR528 - 10	8/9/2004
CDRMS 004	8/3/2004	04BR528 - 11	8/9/2004
DUPS 001	8/3/2004	04BR528 - 12	8/9/2004
DUPS 002	8/4/2004	04BR528 - 13	8/9/2004
EQBS 001	8/4/2004	04BR528 - 14	8/9/2004
EQBS 002	8/4/2004	04BR528 - 15	8/9/2004
DUPS 003	8/3/2004	04BR528 - 16	8/9/2004

Thursday, September 02, 2004

Elizabeth Madonick
Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Negaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR528

Lab Services Agreement 101201NJ01
Client Project Eagle

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
STRMS 002	04BR528 - 1	8/13/2004	8/16/2004	04-595	2.210	ng/L	
STRMS 003	04BR528 - 2	8/13/2004	8/16/2004	04-595	1.410	ng/L	
STRMS 004	04BR528 - 3	8/13/2004	8/16/2004	04-595	1.420	ng/L	
STRMS 001	04BR528 - 4	8/13/2004	8/16/2004	04-595	2.870	ng/L	
STRWS 001	04BR528 - 5	8/13/2004	8/16/2004	04-595	1.600	ng/L	
STRES 001	04BR528 - 6	8/13/2004	8/16/2004	04-595	1.030	ng/L	
STRES 002	04BR528 - 7	8/13/2004	8/16/2004	04-595	0.921	ng/L	
YDRMS 002	04BR528 - 8	8/13/2004	8/16/2004	04-595	2.850	ng/L	
YDRMS 003	04BR528 - 9	8/13/2004	8/16/2004	04-595	2.720	ng/L	
CDRAS 002	04BR528 - 10	8/13/2004	8/16/2004	04-595	0.465	ng/L	
CDRMS 004	04BR528 - 11	8/13/2004	8/16/2004	04-595	0.981	ng/L	
DUPS 001	04BR528 - 12	8/13/2004	8/16/2004	04-595	2.170	ng/L	
DUPS 002	04BR528 - 13	8/13/2004	8/16/2004	04-595	1.440	ng/L	
EQBS 001	04BR528 - 14	8/13/2004	8/16/2004	04-595	0.100	ng/L	U
EQBS 002	04BR528 - 15	8/13/2004	8/16/2004	04-595	0.100	ng/L	U
DUPS 003	04BR528 - 16	8/13/2004	8/16/2004	04-595	3.290	ng/L	

Thursday, September 02, 2004

Elizabeth M. Madonick
Project Manager

BRL QA Summary

Batch #: **04-595** ***Method #:*** **EPA 1631.E**

Analyte: **Hg** ***Matrix:*** **Water**

BIAS *Criteria: Recovery = 79-121%*
Laboratory Control Samples

LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
QCS	10.00	10.61	106.1%

BIAS *Criteria: Recovery = 77-123%*
Ongoing Precision and Recovery (OPR)

LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
OPR1	5.00	5.02	100.5%
OPR2	5.00	5.23	104.6%

BIAS *Criteria: Recovery = 71-125%, RPD<24%*
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)

		Matrix Spike			*Matrix Spike Dupicate*			
Sample ID	*Sample Value ng/L*	*Spiked Value ng/L*	*Measured Value ng/L*	*MS Recovery %*	*Spiked Value ng/L*	*Measured Value ng/L*	*MSD Recovery %*	*Duplicate RPD*
04BR528-8	2.85	40.5	44.7	103.4%	39.5	42.8	101.2%	4.3%
04BR539-1	5.87	40.2	45.7	99.3%	39.9	46.5	101.9%	1.6%

Method Blanks (MB) *Criterion: < MB (0.5% BrCl) < 0.5 ng/L*

MB1		*MB2*		*MB3*		*MB4*		**Detection Limits**	
ng/L	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*MB MDL ng/L*	*MB PQL ng/L*
0.178	0.5%	0.197	0.5%	0.378	1.0%	NA	NA	0.10	0.25

8/17/2004

Project Manager

Brooks Rand LLC Sample Receiving Log

Tracking # 04BR528

Customer:	North Jackson Company
Contact:	Peter Sabee
Project Ref. #:	NJC002
Collection Date	8/3/2004 - 8/5/2004
QA Level	Standard
Sample Condition	Intact
Shipping container intact?	Yes
Shipping container type:	box
Shipping container temp:	ambient
Shipping container coolant:	none
Sample preservation:	0.5% BrCl
Acid lab #	04-161
Hg Concentration:	
Sample storage area:	Cabinet #2
Sample Turnaround Time:	
Contract Turnaround Time:	28 days

Due Date:	9/6/2004
Receiving Date:	8/9/2004
Receiving Time:	8:45 AM
Logged-in by:	James D. Newman
Log-in Date:	8/10/2004
Log-in Time:	9:54 AM
Airbill present?	Yes
Airbill #	7919 0131 0699
Carrier:	Fed Ex
Custody seal present?	Yes
Custody seal intact?	Yes
COC Present?	Yes
COC Number:	N/A
Analysis request form?	No
COC/Sample tag agree?	Yes

See SOW	No	See Project Manage	No
See Mem	No	See Lab Manage	No
Consult MSDS	No	See Contract Inf	No

Comments: Lot# 04-177

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	STRMS 002	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
2	STRMS 003	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
3	STRMS 004	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
4	STRMS 001	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
5	STRWS 001	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
6	STRES 001	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
7	STRES 002	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
8	YDRMS 002	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
9	YDRMS 003	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
10	CDRAS 002	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
11	CDRMS 004	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
12	DUPS 001	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
13	DUPS 002	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
14	EQBS 001	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
15	EQBS 002	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
16	DUPS 003	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			

Sample Custodian signature

8/10/2009
Date

Brooks Rand LLC Chain Of Custody Record

Page 1 of 2

Client: NJC	Email address:	Ship to: **Brooks Rand LLC**
Contact: P. SABEE	PO #:	3958 6th Avenue NW
Address:	Sampler's signatures:	Seattle, WA 98107
		Phone: 206-632-6206
	Fax COC for receipt confirmation? (Y / N)	Fax: 206-632-6017
Phone #: 908 4759882	Client project ID: EAGLE	Email: brl@brooksrand.com
Fax #:	BRL project ID: NJC002	www.brooksrand.com

For BRL use only	Cooler temp (°C):	Custody seals present? (Y / N)	Custody seals intact? (Y / N)	Date:	Initials:

	Sample ID	Collection: Date	Collection: Time	Miscellaneous: Sampler (initials)	Miscellaneous: Matrix type	Miscellaneous: # of containers	Miscellaneous: Sample field filtered, Y/N	Field Preservation: Unpreserved or ice only	Field Preservation: HNO_3	Field Preservation: HCl	Field Preservation: BrCl	Field Preservation: Other (specify)	Analyses required: Trace Hg	Comments
1	STRMS002	8/3		PS	W	1	N	X					X	EAG-1001124
2	STRMS003	8/4												EAG-1001125
3	STRMS004	8/5												EAG-1001126
4	STRMS001	8/4												EAG-1001127
5	STRWS001	8/5												-1001128
6	STRES001	8/5												-1001129
7	STRES002	8/5												-1001130
8	SDRMS002	8/3												-1001131
9	SDRMS003	8/4												-1001132
10	CDRAS002	8/3												-1001133

Shipping carrier: FED EX # of coolers:

Relinquished by: P Sabee	Date: 8/5	Time: 1500	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at BRL:	Date: 8/9/04	Time: 845

White: LAB COPY **Yellow: CUSTOMER COPY**

Brooks Rand LLC Chain Of Custody Record

Page 2 of 2

Client: NDC	Email address:	Ship to: **Brooks Rand LLC**
Contact:	PO #:	3958 6th Avenue NW
Address:	Sampler's signatures:	Seattle, WA 98107
	Pax COC for receipt confirmation? (Y / N)	Phone: 206-632-6206
Phone #: 906 425-9882	Client project ID: EAGLE	Fax: 206-632-6017
Fax #:	BRL project ID: NTC002	Email: brl@brooksrand.com
		www.brooksrand.com

For BRL use only	Cooler temp (°C):	Custody seals present? (Y / N)	Custody seals intact? (Y / N)	Date:	Initials:

	Sample ID	Collection		Miscellaneous				Field Preservation					Analyses required							Comments
		Date	Time	Sampler (initials)	Matrix type	# of containers	Sample field filtered, Y/N	Unpreserved or ice only	HNO_3	HCl	BrCl	Other (specify)	Trace Hg							
1	CDRMS004	8/3		PJS	W	1	N	X					X							100134
2	DUPS001	8/3		↓	↓	↓	↓	↓					↓							
3	DUPS002	8/4																		
4	EQBS001	8/4																		
5	EQBS002	8/4																		
6	DUPS003	8/3		↓	↓	↓	↓	↓					↓							
7																				
8																				
9																				
10																				

Shipping carrier: Fed Exp				# of coolers:	
Relinquished by: P Salve	Date: 8/5	Time: 1500	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at BRL	Date: 8/9/24	Time: 8:45

White: LAB COPY **Yellow: CUSTOMER COPY**

BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

September 7, 2004

North Jackson Company
Attn.: Peter Sabee
420 Rail Street
PO Box 30
Negaunee, MI 49866

RE: Brooks Rand Project: NJC002; Tracking #: 04BR573
Lab Services Agreement 101201nj01; Client Project: Eagle

Dear Mr. Sabee:

This report is for the mercury analysis of four water samples collected 8/2/04 through 8/4/04. These samples were received at Brooks Rand on 8/25/04 and assigned the BRL tracking number 04BR573.

All samples were received, stored, prepared and analyzed according to Brooks Rand LLC Standard Operating Procedures and EPA Method 1631E. All results were blank corrected, as outlined in the calculations section of EPA Method 1631E. All QA criteria were met and no qualification of the data was required. Brooks Rand certifies that the reported test results meet all requirements of NELAC.

If there are any questions please feel free to contact me.

Sincerely,
Elizabeth Madonick

Elizabeth Madonick
Project Manager
elizabeth@brooksrand.com

Jim Schulz
Project Coordinator
jim@brooksrand.com

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Nagaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR573

Lab Services Agreement 101201NJ01
Client Project Eagle

Sample/Sampling/Receiving Info

North Jackson Company — *BRL*

Sample Identification	Sampling Date	Sample Number	Receiving Date
04EA054A	8/2/2004	04BR573 - 1	8/25/2004
04EA054B	8/2/2004	04BR573 - 2	8/25/2004
04EA054D	8/3/2004	04BR573 - 3	8/25/2004
04EA054E	8/4/2004	04BR573 - 4	8/25/2004

Thursday, September 02, 2004

Elizabeth Madonick
Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Negaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR573

Lab Services Agreement 101201NJ01
Client Project Eagle

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
04EA054A	04BR573 - 1	8/31/2004	9/1/2004	04-648	0.653	ng/L	
04EA054B	04BR573 - 2	8/31/2004	9/1/2004	04-648	0.428	ng/L	
04EA054D	04BR573 - 3	8/31/2004	9/1/2004	04-648	0.651	ng/L	
04EA054E	04BR573 - 4	8/31/2004	9/1/2004	04-648	4.950	ng/L	

Thursday, September 02, 2004

Elizabeth Madonick
Project Manager

BRL QA Summary

Batch #: **04-648** ***Method #:*** **EPA 1631.E**

Analyte: **Hg** ***Matrix:*** **Water**

BIAS *Criteria: Recovery = 79-121%*
Laboratory Control Samples

LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
QCS	10.00	9.61	96.1%

BIAS *Criteria: Recovery = 77-123%*
Ongoing Precision and Recovery (OPR)

LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
OPR1	5.00	4.55	91.0%
OPR2	5.00	4.22	84.4%
OPR3	5.00	4.62	92.5%

BIAS *Criteria: Recovery = 71-125%, RPD<24%*
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)

		Matrix Spike			*Matrix Spike Dupicate*			
Sample ID	*Sample Value ng/L*	*Spiked Value ng/L*	*Measured Value ng/L*	*MS Recovery %*	*Spiked Value ng/L*	*Measured Value ng/L*	*MSD Recovery %*	*Duplicate RPD*
04BR571-1	10.9	40.6	41.6	75.7%	39.9	46.8	89.9%	11.6%
04BR573-3	0.651	40.0	38.7	95.2%	40.4	37.0	90.1%	4.4%

Method Blanks (MB) *Criterion: < MB (0.5% BrCl) < 0.5 ng/L*								**Detection Limits**	
MB1		*MB2*		*MB3*		*MB4*		*MB MDL*	*MB PQL*
ng/L	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*ng/L*
0.189	0.5%	0.370	1.0%	0.652	2.0%	NA	NA	0.10	0.25

9/2/2004

Project Manager

Brooks Rand LLC Sample Receiving Log

Tracking # **04BR573**

Customer: North Jackson Company
Contact: Peter Sabee
Project Ref. #: NJC002

Collection Date 8/2/2004 - 8/4/2004
QA Level Standard

Sample Condition Intact
Shipping container intact? Yes

Shipping container type: Box
Shipping container temp: Ambient
Shipping container coolant: None

Sample preservation: 0.5% BrCl
Acid lab # 04-208
Hg Concentration:
Sample storage area: Cabinet #1

Sample Turnaround Time:
Contract Turnaround Time: 28 days

Due Date: 9/22/2004
Receiving Date: 8/25/2004
Receiving Time: 9:15 AM

Logged-in by: James D. Newman
Log-in Date: 8/25/2004
Log-in Time: 1:08 PM

Airbill present? Yes
Airbill # 7907 4153 7913
Carrier: Fed Ex

Custody seal present? Yes
Custody seal intact? Yes
COC Present? Yes
COC Number: N/A

Analysis request form? No
COC/Sample tag agree? Yes

See SOW	No	See Project Manage	No
See Mem	No	See Lab Manage	No
Consult MSDS	No	See Contract Inf	No

Comments: Lot# 04-173

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	04EA054A	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
2	04EA054B	FPE	250 mL Bottle	<2	Water,	50% Head Space
Analysis / Method:		Hg	EPA 1631			
3	04EA054D	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
4	04EA054E	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			

Sample Custodian signature 8/25/2004 Date

TriMatrix Laboratories, Inc.

5560 Corporate Exchange Court SE Grand Rapids, MI 49512
Phone (616) 975-4500 Fax (616) 942-7463
www.trimatrixlabs.com

Chain of Custody Record

COC No. 101967

Samples sent to Brooks Rand, LLC Seattle, WA

Page 1 of 1

For Lab Use Only
Cart
VOA Rack/Tray
Receipt Log No.
Project Chemist
Laboratory Project No.

Client Name: North Jackson Co
Address: 420 Rail St
Negaunee MI
Phone: 906.475.9739
Fax: 906.475.0238

Project Name: EAGLE
Client Project No. / P.O. No.
Invoice To: ☐ Client ☑ Other (comments)
Contact/Report To: Peter LaSoe

Analyses Requested

Trace Hg

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List)	Number of Containers Submitted	Total	Sample Comments
			1 04EA054A		8-2-04	1710		X	Ground Wtr	1		1	
			2 04EA054B		8-2-04	2050		X	Ground Wtr	1		1	
			3 04EA054D		8-3-04	~~1734~~ 1539		X	Ground Wtr	1		1	
			4 04EA054E		~~8-4-04~~ 8-3-04	1930		X	Ground Wtr	1		1	
			5										
			6										
			7										
			8										
			9										
			10										

Sampled By (print): Dan Witala/Peterson
Sampler's Signature: Dan Witala (Peterson)
Company: North Jackson Co.

How Shipped? Hand Carrier FedEx
Tracking No. 7907 4153 7913

Comments: Invoice to Kennecott Minerals Co
Attn: Jon Cherry

1. Relinquished By	Date	Time
Dan Witala	8-23-04	18:00

2. Relinquished By	Date	Time

3. Relinquished By	Date	Time

1. Received By	Date	Time

2. Received By	Date	Time

3. Received For Lab By	Date	Time
	8/25/04	9:15

TriMatrixCOC -- COC

WHITE COPY - REPORT YELLOW COPY - LABORATORY PINK COPY - FIELD

BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

September 30, 2004

North Jackson Company
Attn.: Peter Sabee
420 Rail Street
PO Box 30
Negaunee, MI 49866

RE: Brooks Rand Project: NJC002; Tracking #: 04BR613
Lab Services Agreement 101201nj01; Client Project: Eagle

Dear Mr. Sabee:

This report is for the mercury analysis of nineteen water samples collected 8/17/04 through 8/19/04. These samples were received at Brooks Rand on 9/3/04 and assigned the BRL tracking number 04BR613. No analysis was specified on the chain of custody form and sample QALP018 was not listed with the other samples. Upon notification, the client instructed Brooks Rand to proceed with total mercury analysis by EPA Method 1631 on all nineteen samples.

All samples were received, stored, prepared and analyzed according to Brooks Rand LLC Standard Operating Procedures and EPA Method 1631E. All results were blank corrected, as outlined in the calculations section of EPA Method 1631E. All QA criteria were met. Sample results below the method detection limit (MDL) are qualified "U" and reported at the MDL. Sample results above the MDL and below the practical quantitation limit (PQL) are qualified "B" for estimate. No additional qualification of the data was required. Brooks Rand certifies that the reported test results meet all requirements of NELAC.

If there are any questions please feel free to contact me.

Sincerely,

Elizabeth Madonick
Project Manager
elizabeth@brooksrand.com

Jim Schulz
Project Coordinator
jim@brooksrand.com

3958 6th Avenue NW • Seattle, WA 98107 • Phone (206) 632-6206 • Fax (206) 632-6017 • www.brooksrand.com • brl@brooksrand.com

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Negaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR613

Lab Services Agreement 101201NJ01
Client Project Eagle

Sample/Sampling/Receiving Info

North Jackson Company | *BRL*

Sample Identification	Sampling Date	Sample Number	Receiving Date
WLDP001	8/19/2004	04BR613 - 1	9/3/2004
WLDP021	8/19/2004	04BR613 - 2	9/3/2004
QALP020	8/18/2004	04BR613 - 3	9/3/2004
WLDP006	8/18/2004	04BR613 - 4	9/3/2004
QALM001A	8/19/2004	04BR613 - 5	9/3/2004
QALM003A	8/18/2004	04BR613 - 6	9/3/2004
DUPM004	8/19/2004	04BR613 - 7	9/3/2004
QALM002A	8/19/2004	04BR613 - 8	9/3/2004
QALP018	8/19/2004	04BR613 - 9	9/3/2004
QALM005D	8/17/2004	04BR613 - 10	9/3/2004
QALM006A	8/17/2004	04BR613 - 11	9/3/2004
DUPM002	8/17/2004	04BR613 - 12	9/3/2004
QALM005A	8/17/2004	04BR613 - 13	9/3/2004
QALM003B	8/18/2004	04BR613 - 14	9/3/2004
QALM006B	8/17/2004	04BR613 - 15	9/3/2004
DUPM001	8/17/2004	04BR613 - 16	9/3/2004
QALM004D	8/17/2004	04BR613 - 17	9/3/2004
QALM004A	8/17/2004	04BR613 - 18	9/3/2004
WLDP016	8/19/2004	04BR613 - 19	9/3/2004

Friday, October 15, 2004

Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Negaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR613

Lab Services Agreement 101201NJ01
Client Project Eagle

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
WLDP001	04BR613 - 1	9/21/2004	9/22/2004	04-694	1.600	ng/L	
WLDP021	04BR613 - 2	9/21/2004	9/22/2004	04-694	1.000	ng/L	
QALP020	04BR613 - 3	9/21/2004	9/22/2004	04-694	0.723	ng/L	
WLDP006	04BR613 - 4	9/21/2004	9/22/2004	04-694	1.950	ng/L	
QALM001A	04BR613 - 5	9/21/2004	9/22/2004	04-694	0.203	ng/L	B
QALM003A	04BR613 - 6	9/21/2004	9/22/2004	04-694	0.479	ng/L	
DUPM004	04BR613 - 7	9/21/2004	9/22/2004	04-694	1.480	ng/L	
QALM002A	04BR613 - 8	9/21/2004	9/22/2004	04-694	0.210	ng/L	B
QALP018	04BR613 - 9	9/21/2004	9/22/2004	04-694	0.707	ng/L	
QALM005D	04BR613 - 10	9/21/2004	9/22/2004	04-694	0.100	ng/L	U
QALM006A	04BR613 - 11	9/21/2004	9/22/2004	04-694	0.494	ng/L	
DUPM002	04BR613 - 12	9/21/2004	9/22/2004	04-694	0.100	ng/L	U
QALM005A	04BR613 - 13	9/21/2004	9/22/2004	04-694	0.100	ng/L	U
QALM003B	04BR613 - 14	9/21/2004	9/22/2004	04-694	0.391	ng/L	
QALM006B	04BR613 - 15	9/21/2004	9/22/2004	04-694	0.454	ng/L	
DUPM001	04BR613 - 16	9/21/2004	9/22/2004	04-694	0.388	ng/L	
QALM004D	04BR613 - 17	9/21/2004	9/22/2004	04-694	0.100	ng/L	U
QALM004A	04BR613 - 18	9/21/2004	9/22/2004	04-694	0.100	ng/L	U
WLDP016	04BR613 - 19	9/21/2004	9/22/2004	04-694	0.376	ng/L	

Friday, October 15, 2004

Project Manager

BRL QA Summary

Batch #: **04-694** ***Method #:*** **EPA 1631.E**

Analyte: **Hg** ***Matrix:*** **Water**

BIAS *Criteria: Recovery = 79-121%*
Laboratory Control Samples

LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
QCS	10.00	10.84	108.4%

BIAS *Criteria: Recovery = 77-123%*
Ongoing Precision and Recovery (OPR)

LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
OPR1	5.00	5.18	103.6%
OPR2	5.00	5.19	103.7%
OPR3	5.00	5.10	102.0%
OPR4	5.00	4.94	98.9%
OPR5	5.00	5.00	100.1%
OPR6	5.00	5.24	104.7%

BIAS *Criteria: Recovery = 71-125%, RPD<24%*
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)

		Matrix Spike			*Matrix Spike Dupicate*			
Sample ID	*Sample Value ng/L*	*Spiked Value ng/L*	*Measured Value ng/L*	*MS Recovery %*	*Spiked Value ng/L*	*Measured Value ng/L*	*MSD Recovery %*	*Duplicate RPD*
04BR605-1	3.00	39.6	46.8	110.7%	39.5	47.3	112.2%	1.0%
04BR613-6	0.479	40.0	45.4	112.2%	40.5	46.4	113.3%	2.1%

Method Blanks (MB) *Criterion: < MB (0.5% BrCl) < 0.5 ng/L*

MB1		*MB2*		*MB3*		*MB4*		**Detection Limits**	
								MB MDL	*MB PQL*
ng/L	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*ng/L*
0.316	0.5%	0.321	0.5%	0.265	0.5%	NA	NA	0.10	0.25

9/23/2004

Project Manager

Brooks Rand LLC Sample Receiving Log

Tracking # **04BR613**

Customer: North Jackson Company
Contact: Peter Sabee
Project Ref. #: NJC002

Collection Date 8/17/2004
QA Level Standard

Sample Condition Intact
Shipping container intact? Yes

Shipping container type: cardboard box
Shipping container temp: ambient
Shipping container coolant: none

Sample preservation: 0.5% BrCl
Acid lab # 04/208
Hg Concentration:
Sample storage area: Cabinet #1

Sample Turnaround Time:
Contract Turnaround Time: 28 days

Due Date: 10/1/2004
Receiving Date: 9/3/2004
Receiving Time: 9:30 AM

Logged-in by: Margaret Langley
Log-in Date: 9/3/2004
Log-in Time: 1:00 PM

Airbill present? Yes
Airbill # 79192280404526
Carrier: FedEX

Custody seal present? Yes
Custody seal intact? Yes
COC Present? Yes
COC Number: N/A

Analysis request form? No
COC/Sample tag agree? No

See SOW	No	See Project Manage	No
See Mem	No	See Lab Manage	No
Consult MSDS	No	See Contract Inf	No

Comments: see non-conformance: extra sample, incorrectly filled out COC. Is to be fixed by customer.

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	WLDP001	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
2	WLDP021	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
3	QALP020	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
4	WLDP006	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
5	QALM001A	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
6	QALM003A	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
7	DUPM004	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
8	QALM002A	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
9	QALP018	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
10	QALM005D	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
11	QALM006A	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
12	DUPM002	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
13	QALM005A	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
14	QALM003B	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
15	QALM006B	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
16	DUPM001	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
17	QALM004D	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
18	QALM004A	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
19	WLDP016	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			

Updated

Sample Custodian signature

10/15/04
Date

Brooks Rand LLC Chain Of Custody Record

Page 1 of 2

Client: North Jackson Co	Email address: peter@northjackson-co.com	Ship to: **Brooks Rand LLC**
Contact: P Salzer	PO #: EAGLE	3958 6th Avenue NW
Address: P.O. Box 30 420 Rail St Negaunee, MI 49866	Sampler's signatures: P Salzer	Seattle, WA 98107
		Phone: 206-632-6206
	Fax COC for receipt confirmation? (Y / N)	Fax: 206-632-6017
Phone #: 906 475-9882	Client project ID: EAGLE	Email: brl@brooksrand.com
Fax #:	BRL project ID: NJC002	www.brooksrand.com

For BRL use only	Cooler temp (°C): NA	Custody seals present? (Y) N	Custody seals Intact? (Y) N	Date: 9/3/04	Initials: MTZ

	Sample ID	Collection: Date	Collection: Time	Miscellaneous: Sampler (initials)	Miscellaneous: Matrix type	Miscellaneous: # of containers	Miscellaneous: Sample field filtered, Y/N	Field Preservation: Unpreserved or ice only	Field Preservation: HNO_3	Field Preservation: HCl	Field Preservation: BrCl	Field Preservation: Other (specify)	Analyses required: Tritium	Analyses required: Hg	Comments
1	QALM005D	8-17-04	1145	PJS	W	1		X					X		EAG-1001171
2	QALM006A	8-17-04	1430	PJS											EAG-1001172
3	DUPM002	8-17-04		PJS											EAG-1001179
4	QALM005A	8-17-04	1130	PJS											EAG-1001170
5	QALM003B	8-18-04	1215	PJS											EAG-1001167
6	QALM006B	8-17-04	1420	PJS											EAG-1001173
7	DUPM001	8-17-04		PJS											EAG-1001178
8	QALM004D	8-17-04	1340	PJS											EAG-1001169
9	QALM004A	8-17-04	1335	PJS											EAG-1001168
10	WLDP016	8-19-04		MH	↓	↓		↓							EAG-1001145

Shipping carrier: # of coolers: 1 Box

Relinquished by: P Salzer	Date: 9-1-04	Time: 1200	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at BRL: MTZ	Date: 9/3/04	Time: 9:30A

White: LAB COPY **Yellow: CUSTOMER COPY**

Brooks Rand LLC Chain Of Custody Record

Page 2 of 2

Client: North Jackson	Email address: peter@northjackson.com	Ship to: **Brooks Rand LLC**
Contact: Peter Saberi	PO #: EAGLE	3958 6th Avenue NW
Address:	Sampler's signatures:	Seattle, WA 98107
		Phone: 206-632-6206
	Fax COC for receipt confirmation? (Y / N)	Fax: 206-632-6017
Phone #:	Client project ID: EAGLE	Email: brl@brooksrand.com
Fax #:	BRL project ID: N)C002	www.brooksrand.com

For BRL use only	Cooler temp (°C): NA	Custody seals present? (Y / N)	Custody seals intact? (Y) N)	Date: 9/3/04	Initials: MR

	Sample ID	Collection: Date	Collection: Time	Miscellaneous: Sampler (initials)	Miscellaneous: Matrix type	Miscellaneous: # of containers	Miscellaneous: Sample field filtered, Y/N	Field Preservation: Unpreserved or ice only	Field Preservation: HNO_3	Field Preservation: HCl	Field Preservation: BrCl	Field Preservation: Other (specify)	Analyses required: Trace Al	Comments
1	WLAP001	8-19-04		BS	W	1		X					X	EAG-1001143
2	WLDP021	8-19-04		DW										EAG-1001146
3	DALP020	8-18-04		DW										EAG-1001147
4	WLDP006	8-18-04		DW										EAG-1001144
5	DALM001A	8-19-04		BS										EAG-1001145
6	DALM003A	8-18-04		BS										EAG-1001146
7	DUPM004	←		DW										EAG-1001181
8	DALM002A	8-19-04		BS	↓	V		↓					V	EAG-1001149
9														
10														

Shipping carrier: Fed Ex				# of coolers: 1 Box	
Relinquished by:	Date: 9-1-04	Time: 1200	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at BRL:	Date: 9/3/04	Time: 9:30A

White: LAB COPY **Yellow: CUSTOMER COPY**

BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

October 6, 2004

North Jackson Company
Attn.: Peter Sabee
420 Rail Street
PO Box 30
Negaunee, MI 49866

RE: Brooks Rand Project: NJC002; Tracking #: 04BR624
Lab Services Agreement 101201nj01; Client Project: Eagle

Dear Mr. Sabee:

This report is for the mercury analysis of three water samples collected 8/25/04 and received at Brooks Rand on 9/9/04. They have been assigned the BRL tracking number 04BR624.

All samples were received, stored, prepared and analyzed according to Brooks Rand LLC Standard Operating Procedures and EPA Method 1631E. All results were blank corrected, as outlined in the calculations section of EPA Method 1631E. All QA criteria were met and no qualification of the data was required. Brooks Rand certifies that the reported test results meet all requirements of NELAC.

If there are any questions please feel free to contact me.

Sincerely,
Elizabeth Madonick

Elizabeth Madonick
Project Manager
elizabeth@brooksrand.com

3958 6th Avenue NW • Seattle, WA 98107 • Phone (206) 632-6206 • Fax (206) 632-6017 • www.brooksrand.com • brl@brooksrand.com

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Nagaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR624

Lab Services Agreement 101201NJ01
Client Project Eagle

Sample/Sampling/Receiving Info

North Jackson Company

Sample Identification	Sampling Date
STRMS005 (EAG-1001127)	8/25/04
EQB001 (EAG-1001184)	8/25/04
EQB002 (EAG-1001185)	8/25/04

BRL

Sample Number	Receiving Date
04BR624 - 1	9/9/2004
04BR624 - 2	9/9/2004
04BR624 - 3	9/9/2004

Wednesday, October 06, 2004

Elizabeth Madonick
Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Nagaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR624

Lab Services Agreement 101201NJ01
Client Project Eagle

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
STRMS005 (EAG-1001127)	04BR624 - 1	9/29/2004	9/30/2004	04-729	1.240	ng/L	
EQB001 (EAG-1001184)	04BR624 - 2	9/29/2004	9/30/2004	04-729	1.850	ng/L	
EQB002 (EAG-1001185)	04BR624 - 3	9/29/2004	9/30/2004	04-729	0.979	ng/L	

Wednesday, October 06, 2004

Elizabeth M Madonick
Project Manager

BRL QA Summary

Batch #: **04-729** ***Method #:*** **EPA 1631.E**

Analyte: **Hg** ***Matrix:*** **Water**

BIAS *Criteria: Recovery = 79-121%*
Laboratory Control Samples

LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
QCS	10.00	10.65	106.5%

BIAS *Criteria: Recovery = 77-123%*
Ongoing Precision and Recovery (OPR)

LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
OPR1	5.00	5.02	100.3%
OPR2	5.00	5.25	105.1%

BIAS *Criteria: Recovery = 71-125%, RPD<24%*
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)

		Matrix Spike			*Matrix Spike Dupicate*			
Sample ID	*Sample Value ng/L*	*Spiked Value ng/L*	*Measured Value ng/L*	*MS Recovery %*	*Spiked Value ng/L*	*Measured Value ng/L*	*MSD Recovery %*	*Duplicate RPD*
04BR617-02	1.00	39.1	43.3	108.1%	39.3	43.8	109.1%	1.2%
04BR620-15	1.94	38.2	45.0	112.7%	39.7	43.3	104.3%	3.8%

Method Blanks (MB) *Criterion: < MB (0.5% BrCl) < 0.5 ng/L*								**Detection Limits**	
MB1		*MB2*		*MB3*		*MB4*		*MB MDL*	*MB PQL*
ng/L	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*ng/L*
0.260	0.5%	0.614	2.0%	2.15	6.5%	NA	NA	0.10	0.25

10/5/2004

Project Manager

Brooks Rand LLC Sample Receiving Log

Tracking # **04BR624**

Customer: North Jackson Company
Contact: Peter Sabee
Project Ref. #: NJC002

Collection Date 8/25/04
QA Level Standard

Sample Condition Intact
Shipping container intact? Yes

Shipping container type: Box
Shipping container temp: Ambient
Shipping container coolant: None

Sample preservation: 0.5% BrCl
Acid lab # 04-208
Hg Concentration:
Sample storage area: Cabinet #5

Sample Turnaround Time:
Contract Turnaround Time: 28 days

Due Date: 10/7/2004
Receiving Date: 9/9/2004
Receiving Time:

Logged-in by: Mel Kreachbaum
Log-in Date: 9/10/2004
Log-in Time: 5:23 PM

Airbill present? Yes
Airbill # 7920 8348 7319
Carrier: FedEx

Custody seal present? No
Custody seal intact? No
COC Present? Yes
COC Number: N/A

Analysis request form? No
COC/Sample tag agree? Yes

See SOW	No	See Project Manage	No
See Mem	No	See Lab Manage	No
Consult MSDS	No	See Contract Inf	No

Comments: Lot # 04-188. Bill KEK directly.

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	STRMS005 (EAG-1001127)	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
2	EQB001 (EAG-1001184)	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
3	EQB002 (EAG-1001185)	FPE	250 mL Bottle	<2	Water,	small headspace
Analysis / Method:		Hg	EPA 1631			

Sample Custodian signature 9/10/04 Date

Brooks Rand LLC Chain Of Custody Record

Page 1 of 1

Client: North Jackson Co	Email address: peter@northjacksonco.com	Ship to: **Brooks Rand LLC**
Contact: P. Saber	PO #: EAGLE	3958 6th Avenue NW
Address: PO Box 30 Negaunee, MI 49866	Sampler's signatures: KMR P. Kero	Seattle, WA 98107
	Fax COC for receipt confirmation? (Y / N)	Phone: 206-632-6206
Phone #: 906-475-9882	Client project ID: Eagle	Fax: 206-632-6017
Fax #:	BRL project ID: NJC002	Email: brl@brooksrand.com
		www.brooksrand.com

For BRL use only	Cooler temp (°C): room	Custody seals present? (Y / N)	Custody seals intact? (Y / N)	Date: 9/9/04	Initials:

	Sample ID	Collection: Date	Collection: Time	Misc: Sampler (initials)	Misc: Matrix type	Misc: # of containers	Misc: Sample field filtered, Y/N	Field Preservation: Unpreserved or ice only	Field Preservation: HNO_3	Field Preservation: HCl	Field Preservation: BrCl	Field Preservation: Other (specify)	Analyses required: Mercury	Comments
1	STRMS005	8/25/04	830	PMK	Wtr	1	N	X						EAG-1001127
2	EQB001	8/25	1500	PMK	↓	↓	↓	↓					↓	EAG-1001184
3	EQB002	8/25	1510	PMK	↓	↓	↓	↓					↓	EAG-1001185
4														
5														
6														
7														
8														
9														
10														

Bill KEK Directly

Shipping carrier: # of coolers:

Relinquished by: KMR	Date: 9/7/04	Time: 1230	Received by:	Date: Time:
Relinquished by:	Date:	Time:	Received at BRL: James N	Date: 9/9/04 Time:

White: LAB COPY **Yellow: CUSTOMER COPY**

MK 9/10/04

BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

September 30, 2004

North Jackson Company
Attn.: Peter Sabee
420 Rail Street
PO Box 30
Negaunee, MI 49866

RE: Brooks Rand Project: NJC002; Tracking #: 04BR650
Lab Services Agreement 101201nj01; Client Project: Eagle

Dear Mr. Sabee:

This report is for the mercury analysis of four water samples collected 9/9/04. These samples were received at Brooks Rand on 9/16/04 and assigned the BRL tracking number 04BR650.

All samples were received, stored, prepared and analyzed according to Brooks Rand LLC Standard Operating Procedures and EPA Method 1631E. All results were blank corrected, as outlined in the calculations section of EPA Method 1631E. Results above the detection limit and below the quantitation limit are qualified "B" for estimate. All QA criteria were met and no additional qualification of the data was required. Brooks Rand certifies that the reported test results meet all requirements of NELAC.

If there are any questions please feel free to contact me.

Sincerely,

Elizabeth Madonick
Project Manager
elizabeth@brooksrand.com

Jim Schulz
Project Coordinator
jim@brooksrand.com

3958 6th Avenue NW • Seattle, WA 98107 • Phone (206) 632-6206 • Fax (206) 632-6017 • www.brooksrand.com • brl@brooksrand.com

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Negaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR650

Lab Services Agreement 101201NJ01
Client Project Eagle

Sample/Sampling/Receiving Info

North Jackson Company | *BRL*

Sample Identification	Sampling Date	Sample Number	Receiving Date
QALP016	9/9/2004	04BR650 - 1	9/16/2004
DUPP003	9/9/2004	04BR650 - 2	9/16/2004
QALP015	9/9/2004	04BR650 - 3	9/16/2004
QALM001D	9/9/2004	04BR650 - 4	9/16/2004

Thursday, September 30, 2004

Elizabeth Madonick
Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Nagaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR650

Lab Services Agreement 101201NJ01
Client Project Eagle

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
QALP016	04BR650 - 1	9/27/2004	9/28/2004	04-757	0.108	ng/L	B
DUPP003	04BR650 - 2	9/27/2004	9/28/2004	04-757	0.148	ng/L	B
QALP015	04BR650 - 3	9/27/2004	9/28/2004	04-757	0.365	ng/L	
QALM001D	04BR650 - 4	9/27/2004	9/28/2004	04-757	0.765	ng/L	

Thursday, September 30, 2004

Elizabeth Madonick
Project Manager

BRL QA Summary

Batch #: **04-757** ***Method #:*** **EPA 1631.E**

Analyte: **Hg** ***Matrix:*** **Water**

BIAS *Criteria: Recovery = 79-121%*
Laboratory Control Samples

LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
QCS	10.00	10.99	109.9%

BIAS *Criteria: Recovery = 77-123%*
Ongoing Precision and Recovery (OPR)

LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
OPR1	5.00	5.21	104.2%
OPR2	5.00	5.63	112.6%

BIAS *Criteria: Recovery = 71-125%, RPD<24%*
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)

		Matrix Spike			*Matrix Spike Dupicate*			
Sample ID	*Sample Value ng/L*	*Spiked Value ng/L*	*Measured Value ng/L*	*MS Recovery %*	*Spiked Value ng/L*	*Measured Value ng/L*	*MSD Recovery %*	*Duplicate RPD*
04BR650-02	0.148	40.7	41.4	101.3%	40.1	41.5	102.9%	0.22%
04BR684-03	0.00	37.9	40.1	106.0%	40.1	41.5	103.6%	3.4%

Method Blanks (MB) *Criterion: < MB (0.5% BrCl) < 0.5 ng/L*

MB1		*MB2*		*MB3*		*MB4*		**Detection Limits**	
								MB MDL	*MB PQL*
ng/L	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*ng/L*
0.208	0.5%	0.336	1.0%	1.09	2.0%	1.672	5.0%	0.10	0.25

9/29/2004

Project Manager

Brooks Rand LLC Sample Receiving Log

Tracking # **04BR650**

Customer:	North Jackson Company
Contact:	Peter Sabee
Project Ref. #:	NJC002
Collection Date	9/9/2004
QA Level	Standard
Sample Condition	Intact
Shipping container intact?	Yes
Shipping container type:	cardboard box
Shipping container temp:	ambient
Shipping container coolant:	none
Sample preservation:	0.5%BrCl
Acid lab #	04-208
Hg Concentration:	
Sample storage area:	Cabinet #4
Sample Turnaround Time:	
Contract Turnaround Time:	28 days

Due Date:	10/14/2004
Receiving Date:	9/16/2004
Receiving Time:	9:10 AM
Logged-in by:	Margaret Langley
Log-in Date:	9/16/2004
Log-in Time:	4:47 PM
Airbill present?	Yes
Airbill #	791337444249
Carrier:	FedEX
Custody seal present?	No
Custody seal intact?	No
COC Present?	Yes
COC Number:	N/A
Analysis request form?	No
COC/Sample tag agree?	Yes

See SOW	No	See Project Manage	No
See Mem	No	See Lab Manage	No
Consult MSDS	No	See Contract Inf	No

Comments:

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	QALP016	FPE 04-188	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
2	DUPP003	FPE 04-188	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
3	QALP015	FPE 04-246	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
4	QALM001D	FPE 04-188	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			

Sample Custodian signature 9/16/04 Date

Brooks Rand LLC Chain Of Custody Record

Page 1 of 1

Client: North Jackson Co	Email address: peter@northjacksonco.com	Ship to: **Brooks Rand LLC**
Contact: P Sabee	PO #: EAGLE	3958 6th Avenue NW
Address: PO Box 30 420 Rail St Negaunee MI 49866	Sampler's signatures:	Seattle, WA 98107
		Phone: 206-632-6206
	Fax COC for receipt confirmation? (Y / N)	Fax: 206-632-6017
Phone #: 906-475 9882	Client project ID: EAGLE	Email: brl@brooksrand.com
Fax #:	BRL project ID: NJC 007	www.brooksrand.com

For BRL use only	Cooler temp (°C): Ambient	Custody seals present? (Y / N)	Custody seals Intact? (Y / N) N/A	Date: 9/16/04	Initials: MRZ

	Sample ID	Collection: Date	Collection: Time	Miscellaneous: Sampler (initials)	Miscellaneous: Matrix type	Miscellaneous: # of containers	Miscellaneous: Sample field filtered, Y/N	Field Preservation: Unpreserved or ice only	Field Preservation: HNO_3	Field Preservation: HCl	Field Preservation: BrCl	Field Preservation: Other (specify)	Analyses required: Mercury	Comments
1	QALP016	9/9/04	1415	PJS	water	1	N	X					X	EAG-1001175
2	DUPP003	9/9/04		PJS	"	1	"	"					"	EAG-1001180
3	QALP015	9/9/04	1320	PJS	"	1	"	"					"	EAG-1001174
4	QALM001D	8/19/04	1520	PJS	"	1	"	"					"	EAG-1001148
5		9/8/04	PJS											
6														
7														
8														
9														
10														

Shipping carrier: FedEx # of coolers:

Relinquished by:	Date: 9/15/04	Time: 0900	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at BRL:	Date: 9/16/04	Time: 9:10 A

White: LAB COPY **Yellow: CUSTOMER COPY**

BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

October 13, 2004

North Jackson Company
Attn.: Peter Sabee
420 Rail Street
PO Box 30
Negaunee, MI 49866

RE: Brooks Rand Project: NJC002; Tracking #: 04BR693
Lab Services Agreement 101201nj01; Client Project: Eagle

Dear Mr. Sabee:

This report is for the mercury analysis of six water samples collected 9/14/04 and 9/15/04. These samples were received at Brooks Rand on 9/28/04 and assigned the BRL tracking number 04BR693.

All samples were received, stored, prepared and analyzed according to Brooks Rand LLC Standard Operating Procedures and EPA Method 1631E. All results were blank corrected, as outlined in the calculations section of EPA Method 1631E. All QA criteria were met and no qualification of the data was required. Brooks Rand certifies that the reported test results meet all requirements of NELAC.

If there are any questions please feel free to contact me.

Sincerely,
Elizabeth Madonick
Elizabeth Madonick
Project Manager
elizabeth@brooksrand.com

3958 6th Avenue NW • Seattle, WA 98107 • Phone (206) 632-6206 • Fax (206) 632-6017 • www.brooksrand.com • brl@brooksrand.com

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Negaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR693

Lab Services Agreement 101201NJ01
Client Project Eagle

Sample/Sampling/Receiving Info

North Jackson Company | *BRL*

Sample Identification	Sampling Date	Sample Number	Receiving Date
STRMS002	9/14/2004	04BR693 - 1	9/28/2004
STRMS004	9/15/2004	04BR693 - 2	9/28/2004
CDRMS004	9/15/2004	04BR693 - 3	9/28/2004
DUPS001	9/14/2004	04BR693 - 4	9/28/2004
YDRMS002	9/14/2004	04BR693 - 5	9/28/2004
STRES002	9/15/2004	04BR693 - 6	9/28/2004

Wednesday, October 13, 2004

Elizabeth M. Madonick
Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Nagaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR693

Lab Services Agreement 101201NJ01
Client Project Eagle

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
STRMS002	04BR693 - 1	10/4/2004	10/7/2004	04-775	1.270	ng/L	
STRMS004	04BR693 - 2	10/4/2004	10/7/2004	04-775	2.720	ng/L	
CDRMS004	04BR693 - 3	10/4/2004	10/7/2004	04-775	0.890	ng/L	
DUPS001	04BR693 - 4	10/4/2004	10/7/2004	04-775	1.260	ng/L	
YDRMS002	04BR693 - 5	10/4/2004	10/7/2004	04-775	1.860	ng/L	
STRES002	04BR693 - 6	10/4/2004	10/7/2004	04-775	1.440	ng/L	

Wednesday, October 13, 2004

Elizabeth Madonick
Project Manager

BRL QA Summary

Batch #: **04-775** *Method #:* **EPA 1631.E**

Analyte: **Hg** *Matrix:* **Water**

BIAS *Criteria: Recovery = 79-121%*			
Laboratory Control Samples			
LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
QCS	10.00	9.60	96.0%

BIAS *Criteria: Recovery = 77-123%*			
Ongoing Precision and Recovery (OPR)			
LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
OPR1	5.00	4.50	90.1%
OPR2	5.00	4.95	98.9%
OPR3	5.00	4.72	94.4%

BIAS *Criteria: Recovery = 71-125%, RPD<24%*								
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)								
		Matrix Spike			*Matrix Spike Dupicate*			
Sample ID	*Sample Value ng/L*	*Spiked Value ng/L*	*Measured Value ng/L*	*MS Recovery %*	*Spiked Value ng/L*	*Measured Value ng/L*	*MSD Recovery %*	*Duplicate RPD*
04BR689-01	4.68	38.6	41.8	96.1%	40.1	42.4	94.2%	1.5%
04BR693-02	2.72	40.3	42.1	97.8%	38.8	41.5	99.9%	1.5%

Method Blanks (MB) *Criterion: < MB (0.5% BrCl) < 0.5 ng/L*								**Detection Limits**	
MB1		*MB2*		*MB3*		*MB4*		*MB MDL*	*MB PQL*
ng/L	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*ng/L*
0.236	0.5%	0.208	0.5%	0.300	1.0%	NA	NA	0.10	0.25

10/13/2004

Project Manager

Brooks Rand LLC Sample Receiving Log

Tracking #	**04BR693**	Due Date:	10/26/2004
		Receiving Date:	9/28/2004
Customer:	North Jackson Company	Receiving Time:	8:45 AM
Contact:	Peter Sabee	Logged-in by:	Margaret Langley
Project Ref. #:	NJC002	Log-in Date:	9/28/2004
Collection Date	9/14-15/2004	Log-in Time:	12:00 PM
QA Level	Standard	Airbill present?	Yes
		Airbill #	791940762411
Sample Condition	Intact	Carrier:	FedEx
Shipping container intact?	Yes		
		Custody seal present?	Yes
Shipping container type:	Cardboard Box	Custody seal intact?	Yes
Shipping container temp:	ambient	COC Present?	Yes
Shipping container coolant:	none	COC Number:	N/A
Sample preservation:	0.5%BrCl		
		Analysis request form?	No
Acid lab #	04-208	COC/Sample tag agree?	Yes
Hg Concentration:			
Sample storage area:	Cabinet #4		

See SOW	No	See Project Manage	No
See Mem	No	See Lab Manage	No
Consult MSDS	No	See Contract Inf	No

Sample Turnaround Time:

Contract Turnaround Time: 28 days

Comments:

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	STRMS002	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
2	STRMS004	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
3	CDRMS004	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
4	DUPS001	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
5	YDRMS002	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
6	STRES002	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:

Sample Custodian signature

9/28/04
Date

BROOKS RAND

TriMatrix Laboratories, Inc.

5560 Corporate Exchange Court SE Grand Rapids, MI 49512
Phone (616) 975-4500 Fax (616) 942-7463
www.trimatrixlabs.com

Chain of Custody Record

COC No.

Page 1 of 1

For Lab Use Only
Cart
VOA Rack/Tray
Receipt Log No.
Project Chemist
Laboratory Project No.

Client Name: North Jackson Co
Address: PO Box 30
410 Rail St
Negaunee, MI 49866
Phone: 906-475-9882
Fax:

Project Name: Eagle
Client Project No. / P.O. No.
Invoice To: Client / X Other (comments)
Contact/Report To: BCE

Analyses Requested

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List)	Number of Containers Submitted	Total	Sample Comments
			1 STRMS002		9/14/04	1120		X	WW	X			EAG - 1001186
			2 STRMS004		9/15/04	1245							EAG - 1001187
			3 CDRMS004		9/15/04	1330							EAG - 1001190
			4 DUPS001		9/14/04								EAG - 1001191
			5 YDRMS002		9/14/04	1030							EAG - 1001189
			6 STRES002		9/15/04	1130		✓	✓	✓			EAG - 1001188
			7										
			8										
			9										
			10										

Sampled By (print): Peter Salee
Sampler's Signature:
Company: NJC

How Shipped? Hand Carrier: Fed Exp
Tracking No.

Comments: B.U Jon Cherry KEK

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
	9-24-04	1400						
1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
	9/28/04	845						

BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

October 19, 2004

North Jackson Company
Attn.: Peter Sabee
420 Rail Street
PO Box 30
Negaunee, MI 49866

RE: Brooks Rand Project: NJC002; Tracking #: 04BR695
Lab Services Agreement 101201nj01; Client Project: Eagle

Dear Mr. Sabee:

This report is for the mercury analysis of six water samples collected 9/16/04 and 9/21/04. These samples were received at Brooks Rand on 9/28/04 and assigned the BRL tracking number 04BR695.

All samples were received, stored, prepared and analyzed according to Brooks Rand LLC Standard Operating Procedures and EPA Method 1631E. All results were blank corrected, as outlined in the calculations section of EPA Method 1631E. Results above the detection limit and below the quantitation limit are qualified "B" for estimate. All QA criteria were met and no additional qualification of the data was required. Brooks Rand certifies that the reported test results meet all requirements of NELAC.

If there are any questions please feel free to contact me.

Sincerely,

Elizabeth Madonick

Elizabeth Madonick
Project Manager
elizabeth@brooksrand.com

3958 6th Avenue NW • Seattle, WA 98107 • Phone (206) 632-6206 • Fax (206) 632-6017 • www.brooksrand.com • brl@brooksrand.com

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Nagaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR695

Lab Services Agreement 101201NJ01
Client Project Eagle

Sample/Sampling/Receiving Info

North Jackson Company

Sample Identification	Sampling Date
QALM005D	9/16/2004
DUPM002	9/21/2004
QALM004A	9/21/2004
QALM004D	9/21/2004
DUPM001	9/21/2004
QALM006A	9/16/2004

BRL

Sample Number	Receiving Date
04BR695 - 1	9/28/2004
04BR695 - 2	9/28/2004
04BR695 - 3	9/28/2004
04BR695 - 4	9/28/2004
04BR695 - 5	9/28/2004
04BR695 - 6	9/28/2004

Monday, November 29, 2004

Elizabeth Madonick
Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Nagaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR695

Lab Services Agreement 101201NJ01
Client Project Eagle

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
QALM005D	04BR695 - 1	10/14/2004	10/15/2004	04-797	0.252	ng/L	
DUPM002	04BR695 - 2	10/14/2004	10/15/2004	04-797	0.152	ng/L	B
QALM004A	04BR695 - 3	10/14/2004	10/15/2004	04-797	0.209	ng/L	B
QALM004D	04BR695 - 4	10/14/2004	10/15/2004	04-797	0.293	ng/L	
DUPM001	04BR695 - 5	10/14/2004	10/15/2004	04-797	0.157	ng/L	B
QALM006A	04BR695 - 6	10/14/2004	10/15/2004	04-797	0.551	ng/L	

Tuesday, October 19, 2004

Elizabeth Madonick
Project Manager

BRL QA Summary

Batch #: **04-797** ***Method #:*** **EPA 1631.E**

Analyte: **Hg** ***Matrix:*** **Water**

BIAS *Criteria: Recovery = 79-121%*			
Laboratory Control Samples			
LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
QCS	10.00	10.04	100.4%

BIAS *Criteria: Recovery = 77-123%*			
Ongoing Precision and Recovery (OPR)			
LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
OPR1	5.00	5.08	101.6%
OPR2	5.00	4.51	90.2%
OPR3	5.00	4.37	87.3%

BIAS *Criteria: Recovery = 71-125%, RPD<24%*								
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)								
		Matrix Spike			*Matrix Spike Dupicate*			
Sample ID	*Sample Value ng/L*	*Spiked Value ng/L*	*Measured Value ng/L*	*MS Recovery %*	*Spiked Value ng/L*	*Measured Value ng/L*	*MSD Recovery %*	*Duplicate RPD*
04BR695-04	0.293	39.3	33.4	84.3%	40.0	40.0	99.3%	17.9%
04BR696-07	1.26	39.5	34.9	85.1%	40.5	39.8	95.0%	13.2%

Method Blanks (MB) *Criterion: < MB (0.5% BrCl) < 0.5 ng/L*								**Detection Limits**	
MB1		*MB2*		*MB3*		*MB4*		*MB MDL*	*MB PQL*
ng/L	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*ng/L*
0.143	0.5%	0.232	0.5%	0.522	2.0%	NA	NA	0.10	0.25

10/18/04

Elizabeth Madonick

Project Manager

Brooks Rand LLC Sample Receiving Log

Tracking # **04BR695**

Customer: North Jackson Company
Contact: Peter Sabee
Project Ref. #: NJC002

Collection Date 9/16-21/2004
QA Level Standard

Sample Condition Intact
Shipping container intact? Yes

Shipping container type: cardboard box
Shipping container temp: ambient
Shipping container coolant: none

Sample preservation: 0.5%BrCl
Acid lab # 04-208
Hg Concentration:
Sample storage area: Cabinet #4

Sample Turnaround Time:
Contract Turnaround Time: 28 days

Comments:

Due Date: 10/26/2004
Receiving Date: 9/28/2004
Receiving Time: 8:45 AM

Logged-in by: Margaret Langley
Log-in Date: 9/28/2004
Log-in Time: 12:00 PM

Airbill present? Yes
Airbill # 791940762411
Carrier: FedEx

Custody seal present? Yes
Custody seal intact? Yes
COC Present? Yes
COC Number: N/A

Analysis request form? No
COC/Sample tag agree? Yes

See SOW	No	See Project Manage	No
See Mem	No	See Lab Manage	No
Consult MSDS	No	See Contract Inf	No

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	QALM005D	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
2	DUPM002	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
3	QALM004A	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
4	QALM004D	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
5	DUPM001	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
6	QALM006A	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:

Sample Custodian signature

9/28/09
Date

Brooks Road

TriMatrix Laboratories, Inc.

5560 Corporate Exchange Court SE Grand Rapids, MI 49512
Phone (616) 975-4500 Fax (616) 942-7463
www.trimatrixlabs.com

Chain of Custody Record

COC No.

For Lab Use Only

Cart

VOA Rack/Tray

Receipt Log No.

Project Chemist

Laboratory Project No.

Client Name: North Jackson Co.
Address: PO Box 30
420 Rail St
Negaunee, MI 49866
Phone: 906-475-9882
Fax:

Project Name: Eagle
Client Project No. / P.O. No.
Invoice To: Client X Other (comments)
Contact/Report To

Analyses Requested

Total Hg

Container Type (corresponds to Container Packing List)

Number of Containers Submitted

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

	Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Total	Sample Comments
1				QALM005D		9/16/04	1630		X	WT	X	EAG-1001197
2				DUPM002		9/20/04	1305		↓	↓	↓	EAG-1001201
3				QALM004A		9/21/04	1305					EAG-1001194
4				QALM004D		9/21/04	1540					EAG-1001195
5				DUPM001		9/21/04	1540					EAG-1001200
6				QALM006A		9/16/04	1440					EAG-1001198
7												
8												
9												
10												

Sampled By (print): Peter Kero
Sampler's Signature: Peter Kero
Company:

How Shipped? Hand Carrier Fed Exp
Tracking No.

Comments: B.4 Jan Chem KEK

1. Relinquished By	Date	Time
Peter Kero	9-24-04	1400

2. Relinquished By	Date	Time

3. Relinquished By	Date	Time

1. Received By	Date	Time
	9/28/04	845

2. Received By	Date	Time

3. Received For Lab By	Date	Time

BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

November 5, 2004

North Jackson Company
Attn.: Peter Sabee
420 Rail Street
PO Box 30
Negaunee, MI 49866

RE: Brooks Rand Project: NJC002; Tracking #: 04BR754
Lab Services Agreement 101201nj01; Client Project: Eagle

Dear Mr. Sabee:

This report is for the mercury analysis of fifteen water samples collected on 10/4/04 and 10/6/04. These samples were received at Brooks Rand on 10/13/04 and assigned the BRL tracking number 04BR754.

All samples were received, stored, prepared and analyzed according to Brooks Rand LLC Standard Operating Procedures and EPA Method 1631E. All results were blank corrected, as outlined in the calculations section of EPA Method 1631E. All QA criteria were met and no qualification of the data was required. Brooks Rand certifies that the reported test results meet all requirements of NELAC.

If there are any questions please feel free to contact me.

Sincerely,

Elizabeth Madonick
Project Manager
elizabeth@brooksrand.com

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Nagaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR754

Lab Services Agreement 101201NJ01
Client Project Eagle

Sample/Sampling/Receiving Info

North Jackson Company — *BRL*

Sample Identification	Sampling Date	Sample Number	Receiving Date
CDRMS004	10/04/2004	04BR754 - 1	10/13/2004
STRMS003	10/04/2004	04BR754 - 2	10/13/2004
STRES002	10/06/2004	04BR754 - 3	10/13/2004
DUPS002	10/06/2004	04BR754 - 4	10/13/2004
CDRAS002	10/06/2004	04BR754 - 5	10/13/2004
STRMS005	10/06/2004	04BR754 - 6	10/13/2004
STRES001	10/06/2004	04BR754 - 7	10/13/2004
STRWS001	10/06/2004	04BR754 - 8	10/13/2004
STRMS001	10/04/2004	04BR754 - 9	10/13/2004
STRMS002	10/04/2004	04BR754 - 10	10/13/2004
QALM005A	10/06/2004	04BR754 - 11	10/13/2004
STRMS004	10/06/2004	04BR754 - 12	10/13/2004
DUPS001	10/06/2004	04BR754 - 13	10/13/2004
QALM006B	10/06/2004	04BR754 - 14	10/13/2004
YDRMS002	10/04/2004	04BR754 - 15	10/13/2004

Friday, November 05, 2004

Elizabeth Madonick
Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Nagaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR754

Lab Services Agreement 101201NJ01
Client Project Eagle

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
CDRMS004	04BR754 - 1	10/26/2004	10/28/2004	04-810	0.856	ng/L	
STRMS003	04BR754 - 2	10/26/2004	10/28/2004	04-810	1.620	ng/L	
STRES002	04BR754 - 3	10/26/2004	10/28/2004	04-810	0.779	ng/L	
DUPS002	04BR754 - 4	10/26/2004	10/28/2004	04-810	0.781	ng/L	
CDRAS002	04BR754 - 5	10/26/2004	10/28/2004	04-810	0.273	ng/L	
STRMS005	04BR754 - 6	10/26/2004	10/28/2004	04-810	0.826	ng/L	
STRES001	04BR754 - 7	10/26/2004	10/28/2004	04-810	1.270	ng/L	
STRWS001	04BR754 - 8	10/26/2004	10/28/2004	04-810	1.120	ng/L	
STRMS001	04BR754 - 9	10/26/2004	10/28/2004	04-810	0.940	ng/L	
STRMS002	04BR754 - 10	10/26/2004	10/28/2004	04-810	1.990	ng/L	
QALM005A	04BR754 - 11	10/26/2004	10/28/2004	04-810	0.277	ng/L	
STRMS004	04BR754 - 12	10/26/2004	10/28/2004	04-810	1.260	ng/L	
DUPS001	04BR754 - 13	10/26/2004	10/28/2004	04-810	0.286	ng/L	
QALM006B	04BR754 - 14	10/26/2004	10/28/2004	04-810	0.250	ng/L	
YDRMS002	04BR754 - 15	10/26/2004	10/28/2004	04-810	4.460	ng/L	

Friday, November 05, 2004

Elizabeth Madonick
Project Manager

BRL QA Summary

Batch #: **04-810** ***Method #:*** **EPA 1631.E**

Analyte: **Hg** ***Matrix:*** **Water**

BIAS *Criteria: Recovery = 79-121%*
Laboratory Control Samples

LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
QCS	10.00	10.90	109.0%

BIAS *Criteria: Recovery = 77-123%*
Ongoing Precision and Recovery (OPR)

LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
OPR1	5.00	5.36	107.2%
OPR2	5.00	5.11	102.2%
OPR3	5.00	5.39	107.9%

BIAS *Criteria: Recovery = 71-125%, RPD<24%*
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)

		Matrix Spike			*Matrix Spike Duplicate*				
Sample ID	*Sample Value ng/L*	*Spiked Value ng/L*	*Measured Value ng/L*	*MS Recovery %*	*Spiked Value ng/L*	*Measured Value ng/L*	*MSD Recovery %*	*Duplicate RPD*	
04BR754-04	0.8	39.6	39.5	97.8%	39.8	42.1	103.8%	6.3%	
04BR748-01	190	39.7	205	38.3%	39.5	209	46.9%	1.6%	*

* Sample 04BR748-01 under-spiked. Results reported for RPD purposes only. Post digestion spike performed.

BIAS *Criteria: Recovery = 81-135%*
Post Digestion Spike (PDS)

		Matrix Spike		
Sample ID	*Sample Value ng/L*	*Spiked Value ng/L*	*Measured Value ng/L*	*MS Recovery %*
04BR748-01	190	402	521	82.5%

Method Blanks (MB)	*Criterion: < MB (0.5% BrCl) < 0.5 ng/L*							**Detection Limits**	
MB1		*MB2*		*MB3*		*MB4*		*MB MDL*	*MB PQL*
ng/L	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*ng/L*
0.264	0.5%	0.185	0.5%	0.407	1.0%	NA	NA	0.10	0.25

11/5/2004

Project Manager

BROOKS RAND, LLC
3958 6th Avenue, NW Seattle, WA 98107 U.S.A. 206.632.6206

QUALITY ASSURANCE REPORT

Batch:	04-810
Analysis:	Mercury by EPA 1631.E (CVAFS)
Tracking:	04BR748, 04BR754, & 04BR755
Project:	CIT002 & NJC002
Matrix:	Water
Batch Size:	20 Samples
Analysis Date:	October 28, 2004
Calibration Date:	October 26, 2004

1 **SAMPLE PREPARATION** – Acceptable

2 **CALIBRATION** – Acceptable

3 **CALIBRATION VERIFICATION** – Acceptable

4 **QUALITY CONTROL SAMPLES (QCS)** – Acceptable

5 **BLANKS** – Acceptable

6 **METHOD DUPLICATE ANALYSIS** – Not Applicable

7 **SPIKE / SPIKE DUPLICATE ANALYSIS** – Acceptable; sample 04BR748-1 under-spiked, post digestion spike performed.

8 **LIMITS OF DETECTION** – Acceptable

9 **OVERALL DATA QUALITY** – Acceptable

No qualification of the data was required based on this review.

I certify that, to the best of my knowledge and belief, the data are reported as true and accurate. The Laboratory Director, or his designee, has authorized release of data contained in this Quality Assurance Report as verified by the following signature(s).

11/5/04
Tressa K. Pearson-Franks
Quality Assurance Associate

Brooks Rand LLC Sample Receiving Log

Tracking # **04BR754**

Customer: North Jackson Company
Contact: Peter Sabee
Project Ref. #: NJC002

Collection Date 10/04-06/2004
QA Level Standard

Sample Condition Intact
Shipping container intact? Yes

Shipping container type: Cardboard Box
Shipping container temp: Ambient
Shipping container coolant: None

Sample preservation: 0.5%BrCl
Acid lab # 04-279
Hg Concentration:
Sample storage area: Hg Lab Bin#1

Sample Turnaround Time:
Contract Turnaround Time: 28 days

Comments:

Due Date: 11/10/2004
Receiving Date: 10/13/2004
Receiving Time: 8:45 AM

Logged-in by: Margaret Langley
Log-in Date: 10/13/2004
Log-in Time: 4:50 PM

Airbill present? Yes
Airbill # 790300595915
Carrier: FedEx

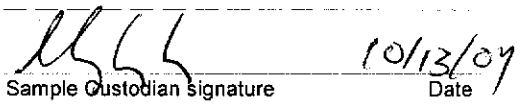
Custody seal present? Yes
Custody seal intact? Yes
COC Present? Yes
COC Number: N/A

Analysis request form? No
COC/Sample tag agree? Yes

See SOW	No	See Project Manage	No
See Mem	No	See Lab Manage	No
Consult MSDS	No	See Contract Inf	No

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	CDRMS004	FPE 04-057	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
2	STRMS003	FPE 04-188	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
3	STRES002	FPE 04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
4	DUPS002	FPE 04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
5	CDRAS002	FPE 04-208	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
6	STRMS005	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
7	STRES001	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
8	STRWS001	FPE 04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
9	STRMS001	FPE 04-246	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
10	STRMS002	FPE 04-188	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
11	QALM005A	FPE 04-188	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
12	STRMS004	FPE 04-246	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
13	DUPS001	FPE	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
14	QALM006B	FPE 04-246	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
15	YDRMS002	FPE 04-208	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			



Sample Custodian signature 10/13/09 Date

Brooks Rand LLC Chain Of Custody Record

Page 1 of 2

Client: North Jackson	Email address: peter@northjackson	Ship to: **Brooks Rand LLC**
Contact: P. SABBE	PO #:	3958 6th Avenue NW
Address: P.O. Box 30 Negaunee MI 49866	Sampler's signatures: RR Eagle PSabbe	Seattle, WA 98107
	Fax COC for receipt confirmation? (Y / N)	Phone: 206-632-6206
Phone #: (906) 475-9739	Client project ID: EAGLE	Fax: 206-632-6017
Fax #:	BRL project ID: N15002	Email: brl@brooksrand.com
		www.brooksrand.com

For BRL use only	Cooler temp (°C): NA	Custody seals present? (Y) / N	Custody seals intact? (Y) / N	Date: 10/13/04	Initials: MR

	Sample ID	Collection: Date	Collection: Time	Misc: Sampler (initials)	Misc: Matrix type	Misc: # of containers	Misc: Sample field filtered, Y/N	Field Preservation: Unpreserved or ice only	Field Preservation: HNO_3	Field Preservation: HCl	Field Preservation: BrCl	Field Preservation: Other (specify)	Analyses required: Trace Hg	Comments
1	CORMS004	10-4-04	1340	RRE	W	1	N	X					X	EAG-1001217
2	STRMS003	10-4-04	1500	RRE										EAG-1001208
3	STRES002	10-6-04	1130	RRE										EAG-1001213
4	DUPS002	10-6-04	1130	RRE										EAG-1001219
5	CORAS002	10-6-04	1530	RRE										EAG-1001216
6	STRMS005	10-6-04	845	RRE										EAG-1001210
7	STRES001	10-6-04	1015	RRE										EAG-1001212
8	STRWS001	10-6-04	815	RRE										EAG-1001211
9	STRMS001	10-4-04	1100	RRE										EAG-1001206
10	STRMS002	10-4-04	1215	RRE										EAG-1001207

Shipping carrier: Fed Exp # of coolers: 1 15A

Relinquished by: RR Eagle	Date: 10-11-04 Time: 1402	Received by:	Date: Time:
Relinquished by:	Date: Time:	Received at BRL:	Date: 10/13/04 Time: 0845

White: LAB COPY **Yellow: CUSTOMER COPY**

Brooks Rand LLC Chain Of Custody Record

Page 2 of 2

Client: NorthJackson	Email address:	Ship to: **Brooks Rand LLC**
Contact: P Sabee	PO #:	3958 6th Avenue NW
Address: P.O. Box 30 Wauconda WA 98866	Sampler's signatures: RR Engel T Kero	Seattle, WA 98107
	Fax COC for receipt confirmation? (Y / N)	Phone: 206-632-6206
Phone #:	Client project ID:	Fax: 206-632-6017
Fax #:	BRL project ID: NJC002	Email: brl@brooksrand.com
		www.brooksrand.com

For BRL use only	Cooler temp (°C): NA	Custody seals present? (Y) N	Custody seals intact? NA Y N	Date: 10/13/04	Initials: MDL

	Sample ID	Collection: Date	Collection: Time	Miscellaneous: Sampler (initials)	Miscellaneous: Matrix type	Miscellaneous: # of containers	Miscellaneous: Sample field filtered, Y/N	Field Preservation: Unpreserved or ice only	Field Preservation: HNO_3	Field Preservation: HCl	Field Preservation: BrCl	Field Preservation: Other (specify)	Analyses required: Trace Hg	Comments
1	QALM005A	10.6.04	1227	PMK	WAT	1	N	X					X	EAG-1001196
2	STRMS004	10.6.04	1345	RRE	↓	↓	↓	↓					↓	EAG-1001209
3	DUPS001	10.6.04	1530	RRE										EAG-1001218
4	QALM006B	10.6.04	1055	PMK										EAG-1001194
5	YORMS002	10.4.04	0900	RRE										EAG-1001214
6														
7														
8														
9														
10														

Shipping carrier: Fed Exp # of coolers: 1 Box

Relinquished by: RR Engel	Date: 10-11-04	Time: 1400	Received by:
Relinquished by:	Date:	Time:	Received at BRL:

Date: | Time:
Date: 10/13/04 | Time: 845

White: LAB COPY **Yellow: CUSTOMER COPY**

BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

November 5, 2004

North Jackson Company
Attn.: Peter Sabee
420 Rail Street
PO Box 30
Negaunee, MI 49866

RE: Brooks Rand Project: NJC002; Tracking #: 04BR755
Lab Services Agreement 101201nj01; Client Project: Eagle

Dear Mr. Sabee:

This report is for the mercury analysis of two water samples collected on 10/11/04. These samples were received at Brooks Rand on 10/13/04 and assigned the BRL tracking number 04BR755.

All samples were received, stored, prepared and analyzed according to Brooks Rand LLC Standard Operating Procedures and EPA Method 1631E. All results were blank corrected, as outlined in the calculations section of EPA Method 1631E. Results below the detection level are qualified "U" for non-detect and are reported at the MDL. All QA criteria were met and no additional qualification of the data was required. Brooks Rand certifies that the reported test results meet all requirements of NELAC.

If there are any questions please feel free to contact me.

Sincerely,
Elizabeth Madonick
Elizabeth Madonick
Project Manager
elizabeth@brooksrand.com

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Nagaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR755

Lab Services Agreement 101201NJ01
Client Project Eagle

Sample/Sampling/Receiving Info

North Jackson Company | *BRL*

Sample Identification	Sampling Date	Sample Number	Receiving Date
FBKS001	10/11/2004	04BR755 - 1	10/13/2004
FBKS002	10/11/2004	04BR755 - 2	10/13/2004

Friday, November 05, 2004

Elizabeth Madonick
Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Nagaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR755

Lab Services Agreement 101201NJ01
Client Project Eagle

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
FBKS001	04BR755 - 1	10/26/2004	10/28/2004	04-810	0.100	ng/L	U
FBKS002	04BR755 - 2	10/26/2004	10/28/2004	04-810	0.100	ng/L	U

Friday, November 05, 2004

Elizabeth Madonick
Project Manager

BRL QA Summary

Batch #: **04-810** ***Method #:*** **EPA 1631.E**

Analyte: **Hg** ***Matrix:*** **Water**

BIAS *Criteria: Recovery = 79-121%*			
Laboratory Control Samples			
LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
QCS	10.00	10.90	109.0%

BIAS *Criteria: Recovery = 77-123%*			
Ongoing Precision and Recovery (OPR)			
LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
OPR1	5.00	5.36	107.2%
OPR2	5.00	5.11	102.2%
OPR3	5.00	5.39	107.9%

BIAS *Criteria: Recovery = 71-125%, RPD<24%*									
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)									
		Matrix Spike			*Matrix Spike Duplicate*				
Sample ID	*Sample Value ng/L*	*Spiked Value ng/L*	*Measured Value ng/L*	*MS Recovery %*	*Spiked Value ng/L*	*Measured Value ng/L*	*MSD Recovery %*	*Duplicate RPD*	
04BR754-04	0.8	39.6	39.5	97.8%	39.8	42.1	103.8%	6.3%	
04BR748-01	190	39.7	205	38.3%	39.5	209	46.9%	1.6%	*

* Sample 04BR748-01 under-spiked. Results reported for RPD purposes only. Post digestion spike performed.

BIAS *Criteria: Recovery = 81-135%*				
Post Digestion Spike (PDS)				
		Matrix Spike		
Sample ID	*Sample Value ng/L*	*Spiked Value ng/L*	*Measured Value ng/L*	*MS Recovery %*
04BR748-01	190	402	521	82.5%

Method Blanks (MB) *Criterion: < MB (0.5% BrCl) < 0.5 ng/L*								**Detection Limits**	
MB1		*MB2*		*MB3*		*MB4*		*MB MDL*	*MB PQL*
ng/L	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*ng/L*
0.264	0.5%	0.185	0.5%	0.407	1.0%	NA	NA	0.10	0.25

11/5/2004

Elizabeth M. Lamick

Project Manager

BROOKS RAND, LLC
3958 6th Avenue, NW Seattle, WA 98107 U.S.A. 206.632.6206

QUALITY ASSURANCE REPORT

Batch:	04-810
Analysis:	Mercury by EPA 1631.E (CVAFS)
Tracking:	04BR748, 04BR754, & 04BR755
Project:	CIT002 & NJC002
Matrix:	Water
Batch Size:	20 Samples
Analysis Date:	October 28, 2004
Calibration Date:	October 26, 2004

1 **SAMPLE PREPARATION** – Acceptable

2 **CALIBRATION** – Acceptable

3 **CALIBRATION VERIFICATION** – Acceptable

4 **QUALITY CONTROL SAMPLES (QCS)** – Acceptable

5 **BLANKS** – Acceptable

6 **METHOD DUPLICATE ANALYSIS** – Not Applicable

7 **SPIKE / SPIKE DUPLICATE ANALYSIS** – Acceptable; sample 04BR748-1 under-spiked, post digestion spike performed.

8 **LIMITS OF DETECTION** – Acceptable

9 **OVERALL DATA QUALITY** – Acceptable

No qualification of the data was required based on this review.

I certify that, to the best of my knowledge and belief, the data are reported as true and accurate. The Laboratory Director, or his designee, has authorized release of data contained in this Quality Assurance Report as verified by the following signature(s).

11/5/04
Tressa K. Pearson-Franks
Quality Assurance Associate

Brooks Rand LLC Sample Receiving Log

Tracking # **04BR755**

Customer:	North Jackson Company
Contact:	Peter Sabee
Project Ref. #:	NJC002
Collection Date	10/11/2004
QA Level	Standard
Sample Condition	Intact
Shipping container intact?	Yes
Shipping container type:	Cardboard Box
Shipping container temp:	Ambient
Shipping container coolant:	None
Sample preservation:	0.5%BrCl
Acid lab #	04-279
Hg Concentration:	
Sample storage area:	Hg Lab Bin#1
Sample Turnaround Time:	
Contract Turnaround Time:	28 days

Due Date:	11/10/2004
Receiving Date:	10/13/2004
Receiving Time:	8:45 AM
Logged-in by:	Margaret Langley
Log-in Date:	10/13/2004
Log-in Time:	3:45 PM
Airbill present?	Yes
Airbill #	790300595915
Carrier:	FedEx
Custody seal present?	Yes
Custody seal intact?	Yes
COC Present?	Yes
COC Number:	N/A
Analysis request form?	No
COC/Sample tag agree?	Yes

See SOW	No	See Project Manage	No
See Mem	No	See Lab Manage	No
Consult MSDS	No	See Contract Inf	No

Comments:

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	FBKS001	FPE 04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
2	FBKS002	FPE 04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			

Sample Custodian signature — Date: 10/13/04

Brooks Rand LLC Chain Of Custody Record

Page 1 of 1

Client: North Jackson Company	Email address: peter@northjacksoncompany.com	Ship to: **Brooks Rand LLC**
Contact: P. Sabee	PO #:	3958 6th Avenue NW
Address: PO Box 30 Negaunee, MI 49866	Sampler's signatures:	Seattle, WA 98107
	Fax COC for receipt confirmation? (Y / N)	Phone: 206-632-6206
Phone #: 906 475 9739	Client project ID: Eagle	Fax: 206-632-6017
Fax #:	BRL project ID: NJC002	Email: brl@brooksrand.com
		www.brooksrand.com

For BRL use only | Cooler temp (°C): NA | Custody seals present? (Y / N) | Custody seals intact? (Y / N / NA) | Date: 10/13/04 | Initials: MDL

	Sample ID	Collection: Date	Collection: Time	Misc: Sampler (initials)	Misc: Matrix type	Misc: # of containers	Misc: Sample field filtered, Y/N	Field Preservation: Unpreserved or ice only	Field Preservation: HNO_3	Field Preservation: HCl	Field Preservation: BrCl	Field Preservation: Other (specify)	Analyses required: Trace Hg	Comments
1	FBKS001	10-11-04	1015	PJS	W	1	N	X					X	EAG-1001223
2	FBKS002	10-11-04	1100	PJS	W	1	N	X					X	EAG-1001224
3														
4														
5														
6														
7														
8														
9														
10														

Bill KMAC
Jan Chun

Shipping carrier: Fed Ex | # of coolers: 1 Bag

Relinquished by:	Date: 10-14-04 Time: 1400	Received by:	Date: Time:
Relinquished by:	Date: Time:	Received at BRL:	Date: 10/13/04 Time: 0845

White: LAB COPY **Yellow: CUSTOMER COPY**

BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

October 21, 2004

North Jackson Company
Attn.: Peter Sabee
420 Rail Street
PO Box 30
Negaunee, MI 49866

RE: Brooks Rand Project: NJC002; Tracking #: 04BR763
Lab Services Agreement 101201nj01; Client Project: Eagle

Dear Mr. Sabee:

This report is for the mercury analysis of three water samples collected on 10/12/04 and received at Brooks Rand on 10/14/04. These samples were have been assigned the BRL tracking number 04BR763.

All samples were received, stored, prepared and analyzed according to Brooks Rand LLC Standard Operating Procedures and EPA Method 1631E. All results were blank corrected, as outlined in the calculations section of EPA Method 1631E. Results below the detection level are qualified "U" for non-detect and are reported at the MDL. All QA criteria were met and no additional qualification of the data was required. Brooks Rand certifies that the reported test results meet all requirements of NELAC.

If there are any questions please feel free to contact me.

Sincerely,

Elizabeth Madonick
Project Manager
elizabeth@brooksrand.com

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Nagaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR763

Lab Services Agreement 101201NJ01
Client Project Eagle

Sample/Sampling/Receiving Info

North Jackson Company

Sample Identification	Sampling Date
EQBM001	10/12/04
FBKS001	10/12/04
EQBM002	10/12/04

BRL

Sample Number	Receiving Date
04BR763 - 1	10/14/2004
04BR763 - 2	10/14/2004
04BR763 - 3	10/14/2004

Monday, November 29, 2004

Elizabeth Madonick
Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Nagaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR763

Lab Services Agreement 101201NJ01
Client Project Eagle

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
EQBM001	04BR763 - 1	10/19/2004	10/20/2004	04-837	0.480	ng/L	
FBKS001	04BR763 - 2	10/19/2004	10/20/2004	04-837	0.100	ng/L	U
EQBM002	04BR763 - 3	10/19/2004	10/20/2004	04-837	0.317	ng/L	

Monday, November 29, 2004

Elizabeth Madonick
Project Manager

BRL QA Summary

Batch #: **04-837** ***Method #:*** **EPA 1631.E**

Analyte: **Hg** ***Matrix:*** **Water**

BIAS *Criteria: Recovery = 79-121%*			
Laboratory Control Samples			
LCS ID	***Certified Value ng/L***	***Measured Value ng/L***	***Recovery %***
QCS	10.00	9.86	98.6%

BIAS *Criteria: Recovery = 77-123%*			
Ongoing Precision and Recovery (OPR)			
LCS ID	***Certified Value ng/L***	***Measured Value ng/L***	***Recovery %***
OPR1	5.00	5.15	103.1%
OPR2	5.00	5.06	101.2%
OPR3	5.00	4.63	92.6%

BIAS *Criteria: Recovery = 71-125%, RPD<24%*								
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)								
		Matrix Spike			***Matrix Spike Dupicate***			
Sample ID	***Sample Value ng/L***	***Spiked Value ng/L***	***Measured Value ng/L***	***MS Recovery %***	***Spiked Value ng/L***	***Measured Value ng/L***	***MSD Recovery %***	***Duplicate RPD***
04BR731-05	11.5	39.5	48.1	92.7%	40.7	49.4	93.1%	2.7%
04BR763-01	0.480	40.0	40.3	99.5%	40.1	44.1	108.9%	8.9%

Method Blanks (MB) *Criterion: < MB (0.5% BrCl) < 0.5 ng/L*								**Detection Limits**	
MB1		***MB2***		***MB3***		***MB4***		***MB MDL***	***MB PQL***
ng/L	***BrCl%***	***ng/L***	***BrCl%***	***ng/L***	***BrCl%***	***ng/L***	***BrCl%***	***ng/L***	***ng/L***
0.190	0.5%	0.316	1.0%	1.41	5.0%	NA	NA	0.10	0.25

10/21/2004

Elizabeth Mohnicke

Project Manager

BROOKS RAND, LLC
3958 6th Avenue, NW Seattle, WA 98107 U.S.A. 206.632.6206

QUALITY ASSURANCE REPORT

Batch:	04-837
Analysis:	Mercury by EPA 1631.E (CVAFS)
Tracking:	04BR731, 04BR747, 04BR657, 04BR761, 04BR763, & 04BR772
Project:	EPA005, ERA001, UMD010, CRG002, NJC002, NJC001
Matrix:	Water
Batch Size:	18 Samples
Analysis Date:	October 20, 2004
Calibration Date:	October 20, 2004

1 **SAMPLE PREPARATION** – Acceptable

2 **CALIBRATION** – Acceptable

3 **CALIBRATION VERIFICATION** – Acceptable

4 **QUALITY CONTROL SAMPLES (QCS)** – Acceptable

5 **BLANKS** – Acceptable

6 **METHOD DUPLICATE ANALYSIS** – Not Applicable

7 **SPIKE / SPIKE DUPLICATE ANALYSIS** – Acceptable

8 **LIMITS OF DETECTION** – Acceptable

9 **OVERALL DATA QUALITY** – Acceptable

No qualification of the data was required based on this review.

I certify that, to the best of my knowledge and belief, the data are reported as true and accurate. The Laboratory Director, or his designee, has authorized release of data contained in this Quality Assurance Report as verified by the following signature(s).

10/21/04

Tressa K. Pearson-Franks
Quality Assurance Associate

Brooks Rand LLC Sample Receiving Log

Tracking # **04BR763**

Customer: North Jackson Company
Contact: Peter Sabee
Project Ref. #: NJC002

Collection Date 10/12/04
QA Level Standard

Sample Condition Intact
Shipping container intact? Yes

Shipping container type: cardboard box
Shipping container temp: ambient
Shipping container coolant: none

Sample preservation: 0.5%BrCl
Acid lab # 04-279
Hg Concentration:
Sample storage area: Cabinet #4

Sample Turnaround Time:
Contract Turnaround Time: 28 days

Due Date: 11/11/2004
Receiving Date: 10/14/2004
Receiving Time: 10:00 AM

Logged-in by: Christabel Fowler
Log-in Date: 10/14/2004
Log-in Time: 4:15 PM

Airbill present? Yes
Airbill # 790794697135
Carrier: Fed Ex

Custody seal present? No
Custody seal intact? No
COC Present? Yes
COC Number: N/A

Analysis request form? No
COC/Sample tag agree? Yes

See SOW	No	See Project Manage	No
See Mem	No	See Lab Manage	No
Consult MSDS	No	See Contract Inf	No

Comments:

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	EQBM001	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
2	FBKS001	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
3	EQBM002	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			

Updated 12/21/04 ca
Sample Custodian signature Date

Brooks Rand LLC Chain Of Custody Record

Page 1 of 1

Client: North Jackson Co	Email address: peter@northjacksonco.co -	Ship to: **Brooks Rand LLC**
Contact: P Sabee	PO #:	3958 6th Avenue NW
Address: PO Box 30 Negaunee, MI 49866	Sampler's signatures:	Seattle, WA 98107
	Fax COC for receipt confirmation? (Y / N)	Phone: 206-632-6206
Phone #: 9064759739	Client project ID: Eagle	Fax: 206-632-6017
Fax #:	BRL project ID: NJSC002	Email: brl@brooksrand.com
		www.brooksrand.com

For BRL use only	Cooler temp (°C): Amb.	Custody seals present? (Y (N))	Custody seals intact? (Y / N N/A)	Date: 10/14/04	Initials: CAF

	Sample ID	Collection		Miscellaneous				Field Preservation					Analyses required							Comments
		Date	Time	Sampler (initials)	Matrix type	# of containers	Sample field filtered, Y/N	Unpreserved or ice only	HNO_3	HCl	BrCl	Other (specify)	Trace Hg							
1	EQBM001	10/12/04	1025	PJS	wtr	1	Yes	X					X							EAG-001202
2	EBK5001	10/12/04	1010	PJS	wtr	1	No	X					X							EAG-001193
3	EQBM002	10/12/04	1100	PJS	wtr	1	Yes	Y					Y							EAG-001203
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Bill KMC
Jon Averty

Shipping carrier: Fed Ex			# of coolers: 1 Box
Relinquished by: P Sabee	Date: 10-12-04	Time: 1200	Received by: Christabel Fowler
Relinquished by:	Date:	Time:	Received at BRL:

Date:	Time:	
Date: 10/14/04	Time: 1600	

White: LAB COPY **Yellow: CUSTOMER COPY**

BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

October 29, 2004

North Jackson Company
Attn.: Peter Sabee
420 Rail Street
PO Box 30
Negaunee, MI 49866

RE: Brooks Rand Project: NJC002; Tracking #: 04BR773
Lab Services Agreement 101201NJ01; Client Project: Eagle

Dear Mr. Sabee:

This report is for the mercury analysis of one water sample collected on 10/13/04 and received at Brooks Rand on 10/18/04. This sample has have been assigned the BRL tracking number 04BR773.

All samples were received, stored, prepared and analyzed according to Brooks Rand LLC Standard Operating Procedures and EPA Method 1631E. All results were blank corrected, as outlined in the calculations section of EPA Method 1631E. All QA criteria were met and no qualification of the data was required. Brooks Rand certifies that the reported test results meet all requirements of NELAC.

If there are any questions please feel free to contact me.

Sincerely,

M. D. Mayer

Misty D. Mayer
Project Manager
misty@brooksrand

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Nagaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR773

Lab Services Agreement 101201NJ01
Client Project Eagle

Sample/Sampling/Receiving Info

North Jackson Company | *BRL*

Sample Identification	Sampling Date	Sample Number	Receiving Date
YDRMS003	10/13/2004	04BR773 - 1	10/18/2004

Friday, October 29, 2004

Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Nagaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR773

Lab Services Agreement 101201NJ01
Client Project Eagle

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
YDRMS003	04BR773 - 1	10/25/2004	10/26/2004	04-855	2.010	ng/L	

Friday, October 29, 2004

Project Manager

BRL QA Summary

Batch #: **04-855** ***Method #:*** **EPA 1631.E**

Analyte: **Hg** ***Matrix:*** **Water**

BIAS *Criteria: Recovery = 79-121%*			
Laboratory Control Samples			
LCS ID	***Certified Value ng/L***	***Measured Value ng/L***	***Recovery %***
QCS	10.00	9.32	93.2%

BIAS *Criteria: Recovery = 77-123%*			
Ongoing Precision and Recovery (OPR)			
LCS ID	***Certified Value ng/L***	***Measured Value ng/L***	***Recovery %***
OPR1	5.00	5.31	106.2%
OPR2	5.00	5.31	106.2%

BIAS *Criteria: Recovery = 71-125%, RPD<24%*								
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)								
		Matrix Spike			***Matrix Spike Dupicate***			
Sample ID	***Sample Value ng/L***	***Spiked Value ng/L***	***Measured Value ng/L***	***MS Recovery %***	***Spiked Value ng/L***	***Measured Value ng/L***	***MSD Recovery %***	***Duplicate RPD***
04BR764-1	54.1	40.1	94.0	99.5%	39.4	94.4	102.5%	0.4%
04BR773-1	2.01	36.9	41.2	106.2%	40.1	43.3	103.0%	5.1%

Method Blanks (MB) *Criterion: < MB (0.5% BrCl) < 0.5 ng/L*								**Detection Limits**	
MB1		***MB2***		***MB3***		***MB4***		***MB MDL***	***MB PQL***
ng/L	***BrCl%***	***ng/L***	***BrCl%***	***ng/L***	***BrCl%***	***ng/L***	***BrCl%***	***ng/L***	***ng/L***
0.213	0.5%	0.249	0.5%	0.405	1.0%	NA	NA	0.10	0.25

10/29/2004

Project Manager

BROOKS RAND, LLC
3958 6th Avenue, NW Seattle, WA 98107 U.S.A. 206.632.6206

QUALITY ASSURANCE REPORT

Batch:	04-855
Analysis:	Mercury by EPA 1631.E (CVAFS)
Tracking:	04BR760, 04BR762, 04BR764, 04BR773, 04BR782, 04BR816, 04BR817, & 04BR818
Project:	USG003, NJC002, H2M002, LOV001, MEL002, ADS001, & BCT001
Matrix:	Water
Batch Size:	17 Samples
Analysis Date:	October 26, 2004
Calibration Date:	October 26, 2004

1 **SAMPLE PREPARATION** – Acceptable

2 **CALIBRATION** – Acceptable

3 **CALIBRATION VERIFICATION** – Acceptable

4 **QUALITY CONTROL SAMPLES (QCS)** – Acceptable

5 **BLANKS** – Acceptable

6 **METHOD DUPLICATE ANALYSIS** – Not Applicable

7 **SPIKE / SPIKE DUPLICATE ANALYSIS** – Acceptable

8 **LIMITS OF DETECTION** – Acceptable

9 **OVERALL DATA QUALITY** – Acceptable

No qualification of the data was required based on this review.

I certify that, to the best of my knowledge and belief, the data are reported as true and accurate. The Laboratory Director, or his designee, has authorized release of data contained in this Quality Assurance Report as verified by the following signature(s).

10/29/04

Frank McFarland
Quality Assurance Manager

Brooks Rand LLC Sample Receiving Log

Tracking #	**04BR773**
Customer:	North Jackson Company
Contact:	Peter Sabee
Project Ref. #:	NJC002
Collection Date	10/13/2004
QA Level	Standard
Sample Condition	Intact
Shipping container intact?	Yes
Shipping container type:	Cardboard Box
Shipping container temp:	Ambient
Shipping container coolant:	None
Sample preservation:	0.5% BrCl
Acid lab #	04-279
Hg Concentration:	
Sample storage area:	Cabinet #4
Sample Turnaround Time:	
Contract Turnaround Time:	28 days

Due Date:	11/15/2004
Receiving Date:	10/18/2004
Receiving Time:	9:00 AM
Logged-in by:	Margaret Langley
Log-in Date:	10/18/2004
Log-in Time:	11:53 AM
Airbill present?	Yes
Airbill #	790306836202
Carrier:	FedEx
Custody seal present?	No
Custody seal intact?	No
COC Present?	Yes
COC Number:	N/A
Analysis request form?	No
COC/Sample tag agree?	Yes

See SOW	No	See Project Manage	No
See Mem	No	See Lab Manage	No
Consult MSDS	No	See Contract Inf	No

Comments:

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	YDRMS003	FPE 04-259	250 mL Bottle	<2	Water,	EAG-1001215

Analysis / Method: Hg EPA 1631

Sample Custodian signature 10/18/04 Date

Brooks Rand LLC Chain Of Custody Record

Page 1 of 1

Client: NJC	Email address: peter@northjacksonco.com	Ship to: **Brooks Rand LLC**
Contact: P Saber	PO #:	3958 6th Avenue NW
Address: P.O. Box 30 Negaunee MI 49866	Sampler's signatures:	Seattle, WA 98107
		Phone: 206-632-6206
Phone #: 906 475 9739	Fax COC for receipt confirmation? (Y / N)	Fax: 206-632-6017
Fax #:	Client project ID: EAGLE	Email: brl@brooksrand.com
	BRL project ID: ~~NSC00E~~ NJC001-10	www.brooksrand.com

For BRL use only	Cooler temp (°C): Ambient	Custody seals present? (Y / N)	Custody seals intact? (Y / N)	Date: 10/18/04	Initials: MJL

	Sample ID	Collection		Miscellaneous				Field Preservation					Analyses required							Comments
		Date	Time	Sampler (initials)	Matrix type	# of containers	Sample field filtered, Y/N	Unpreserved or ice only	HNO_3	HCl	BrCl	Other (specify)	Bare Hg							
1	9DRMS003	10-13-04	1345	PJS	W	1	N	A					1							EAG-100121S
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Shipping carrier: Fed Exp # of coolers: 1 Box

Relinquished by: P Saber	Date: 10-14-04	Time: 1200	Received by:	Date: Time:
Relinquished by:	Date:	Time:	Received at BRL:	Date: 10/18/04 Time: 0900

White: LAB COPY **Yellow: CUSTOMER COPY**

BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

November 22, 2004

North Jackson Company
Attn.: Peter Sabee
420 Rail Street
PO Box 30
Negaunee, MI 49866

RE: Brooks Rand Project: NJC002; Tracking #: 04BR833
Lab Services Agreement 101201nj01; Client Project: Eagle

Dear Mr. Sabee:

This report is for the mercury analysis of twenty-one water samples collected on 10/18/04 through 10/20/04. These samples were received at Brooks Rand on 10/25/04 and assigned the BRL tracking number 04BR833.

All samples were received, stored, prepared and analyzed according to Brooks Rand LLC Standard Operating Procedures and EPA Method 1631E. All results were blank corrected, as outlined in the calculations section of EPA Method 1631E. The 1.0% BrCl method blank was not prepared correctly on 10/27/04. A new method blank was prepared with 1.0% BrCl on 11/2/04 and has been used to blank correct all samples preserved with 1.0% BrCl.

Results below the detection level are qualified "U" for non-detect and are reported at the MDL. Results above the detection limit and below the quantitation limit are qualified "B" for estimate. All QA criteria were met and no additional qualification of the data was required. Brooks Rand certifies that the reported test results meet all requirements of NELAC.

If there are any questions please feel free to contact me.

Sincerely,

Elizabeth Madonick

Elizabeth Madonick
Project Manager
elizabeth@brooksrand.com

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Nagaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR833

Lab Services Agreement 101201NJ01
Client Project Eagle

Sample/Sampling/Receiving Info

North Jackson Company | *BRL*

Sample Identification	Sampling Date	Sample Number	Receiving Date
QALM003A	10/18/2004	04BR833 - 1	10/25/2004
QALP018	10/20/2004	04BR833 - 2	10/25/2004
QALM009A	10/20/2004	04BR833 - 3	10/25/2004
QALM002A	10/20/2004	04BR833 - 4	10/25/2004
QALM010A	10/20/2004	04BR833 - 5	10/25/2004
QALP016	10/20/2004	04BR833 - 6	10/25/2004
DUPP004	10/20/2004	04BR833 - 7	10/25/2004
QALM005A	10/20/2004	04BR833 - 8	10/25/2004
DUPM003	10/20/2004	04BR833 - 9	10/25/2004
QALM005D	10/20/2004	04BR833 - 10	10/25/2004
QALM006A	10/18/04	04BR833 - 11	10/25/2004
QALM004D	10/19/2004	04BR833 - 12	10/25/2004
WLDP001	10/18/2004	04BR833 - 13	10/25/2004
WLDP006	10/19/2004	04BR833 - 14	10/25/2004
WLDP021	10/19/2004	04BR833 - 15	10/25/2004
QALP015	10/18/2004	04BR833 - 16	10/25/2004
QALM006B	10/18/2004	04BR833 - 17	10/25/2004
WLDP016	10/19/2004	04BR833 - 18	10/25/2004
DUPP001	10/19/2004	04BR833 - 19	10/25/2004
QALM003B	10/18/2004	04BR833 - 20	10/25/2004
QALM002D	10/20/2004	04BR833 - 21	10/25/2004

Monday, November 22, 2004

Elizabeth Madonick
Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

420 Rail Street
Nagaunee MI 49866
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR833

Lab Services Agreement 101201NJ01
Client Project Eagle

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
QALM003A	04BR833 - 1	11/17/2004	11/18/2004	04-870	0.617	ng/L	
QALP018	04BR833 - 2	11/17/2004	11/18/2004	04-870	1.740	ng/L	
QALM009A	04BR833 - 3	11/17/2004	11/18/2004	04-870	1.140	ng/L	
QALM002A	04BR833 - 4	11/17/2004	11/18/2004	04-870	7.090	ng/L	
QALM010A	04BR833 - 5	11/17/2004	11/18/2004	04-870	0.291	ng/L	
QALP016	04BR833 - 6	11/17/2004	11/18/2004	04-870	0.228	ng/L	B
DUPP004	04BR833 - 7	11/17/2004	11/18/2004	04-870	0.566	ng/L	
QALM005A	04BR833 - 8	10/28/2004	11/1/2004	04-871	0.103	ng/L	B
DUPM003	04BR833 - 9	10/28/2004	11/1/2004	04-871	0.223	ng/L	B
QALM005D	04BR833 - 10	10/28/2004	11/1/2004	04-871	0.126	ng/L	B
QALM006A	04BR833 - 11	10/28/2004	11/1/2004	04-871	0.546	ng/L	
QALM004D	04BR833 - 12	10/28/2004	11/1/2004	04-871	0.179	ng/L	B
WLDP001	04BR833 - 13	10/28/2004	11/1/2004	04-871	1.630	ng/L	
WLDP006	04BR833 - 14	10/28/2004	11/1/2004	04-871	3.800	ng/L	
WLDP021	04BR833 - 15	10/28/2004	11/1/2004	04-871	0.918	ng/L	
QALP015	04BR833 - 16	10/27/2004	11/1/2004	04-872	0.237	ng/L	B
QALM006B	04BR833 - 17	10/27/2004	11/1/2004	04-872	0.147	ng/L	B
WLDP016	04BR833 - 18	10/27/2004	11/1/2004	04-872	0.184	ng/L	B
DUPP001	04BR833 - 19	10/27/2004	11/1/2004	04-872	3.397	ng/L	
QALM003B	04BR833 - 20	10/27/2004	11/1/2004	04-872	0.100	ng/L	U
QALM002D	04BR833 - 21	10/27/2004	11/1/2004	04-872	0.511	ng/L	

Monday, November 22, 2004

Elizabeth Madonick
Project Manager

BRL QA Summary

Batch #: **04-870** ***Method #:*** **EPA 1631.E**

Analyte: **Hg** ***Matrix:*** **Water**

BIAS *Criteria: Recovery = 79-121%*			
Laboratory Control Samples			
LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
QCS	10.00	10.20	102.0%

BIAS *Criteria: Recovery = 77-123%*			
Ongoing Precision and Recovery (OPR)			
LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
OPR1	5.00	4.80	96.0%
OPR2	5.00	4.78	95.7%
OPR3	5.00	4.88	97.6%
OPR4	5.00	4.90	98.0%

BIAS *Criteria: Recovery = 71-125%, RPD<24%*								
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)								
		Matrix Spike			*Matrix Spike Duplicate*			
Sample ID	*Sample Value ng/L*	*Spiked Value ng/L*	*Measured Value ng/L*	*MS Recovery %*	*Spiked Value ng/L*	*Measured Value ng/L*	*MSD Recovery %*	*Duplicate RPD*
04BR833-06	0.228	39.4	41.3	104.2%	39.5	40.2	101.3%	2.62%
04BR832-01	57.8	40.1	88.6	76.7%	40.0	98.7	102.2%	10.7%

Method Blanks (MB) *Criterion: < MB (0.5% BrCl) < 0.5 ng/L*								**Detection Limits**	
MB1		*MB2*		*MB3*		*MB4*		*MB MDL*	*MB PQL*
ng/L	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*ng/L*
0.136	0.5%	0.272	1.0%	1.52	5.0%	NA	NA	0.10	0.25

11/19/2004

Clinton W. Lowe
Project Manager

BROOKS RAND, LLC
3958 6th Avenue, NW Seattle, WA 98107 U.S.A. 206.632.6206

QUALITY ASSURANCE REPORT

Batch:	04-870
Analysis:	Mercury by EPA 1631.E (CVAFS)
Tracking:	04BR832 & 04BR833
Project:	ADQ001 & NJC002
Matrix:	Water
Batch Size:	20 Samples
Analysis Date:	November 18, 2004
Calibration Date:	November 15, 2004

1 **SAMPLE PREPARATION** – Acceptable

2 **CALIBRATION** – Acceptable

3 **CALIBRATION VERIFICATION** – Acceptable

4 **QUALITY CONTROL SAMPLES (QCS)** – Acceptable

5 **BLANKS** – Acceptable

6 **METHOD DUPLICATE ANALYSIS** – Not Applicable

7 **SPIKE / SPIKE DUPLICATE ANALYSIS** – Acceptable

8 **LIMITS OF DETECTION** – Acceptable

9 **OVERALL DATA QUALITY** – Acceptable

No qualification of the data was required based on this review.

I certify that, to the best of my knowledge and belief, the data are reported as true and accurate. The Laboratory Director, or his designee, has authorized release of data contained in this Quality Assurance Report as verified by the following signature(s).

11.19.04

Tressa K. Pearson-Franks
Quality Assurance Associate

BRL QA Summary

Batch #: **04-872** ***Method #:*** **EPA 1631.E**

Analyte: **Hg** ***Matrix:*** **Water**

BIAS *Criteria: Recovery = 79-121%*			
Laboratory Control Samples			
LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
QCS	10.00	10.23	102.3%

BIAS *Criteria: Recovery = 77-123%*			
Ongoing Precision and Recovery (OPR)			
LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
OPR1	5.00	5.10	101.9%
OPR2	5.00	5.06	101.3%
OPR3	5.00	5.10	102.1%

BIAS *Criteria: Recovery = 71-125%, RPD<24%*								
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)								
		Matrix Spike			*Matrix Spike Duplicate*			
Sample ID	*Sample Value ng/L*	*Spiked Value ng/L*	*Measured Value ng/L*	*MS Recovery %*	*Spiked Value ng/L*	*Measured Value ng/L*	*MSD Recovery %*	*Duplicate RPD*
04BR769-03	0.38	39.8	35.7	88.6%	39.6	39.3	98.1%	9.6%
04BR833-17	0.147	39.3	40.5	102.7%	39.9	40.1	100.1%	1.1%

Method Blanks (MB) *Criterion: < MB (0.5% BrCl) < 0.5 ng/L*								**Detection Limits**	
MB1		*MB2*		*MB3**		*MB4**		*MB MDL*	*MB PQL*
ng/L	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*ng/L*
0.344	0.5%	0.221	0.5%	0.329	1.0%	0.397	1.0%	0.10	0.25

* 1.0% BrCl Method Blank misprepared. MB reprepared and reanalyzed 11/2/04 and these values used for MB correction.

11/8/2004

Clifford Mednick
Project Manager

BROOKS RAND, LLC
3958 6th Avenue, NW Seattle, WA 98107 U.S.A. 206.632.6206

QUALITY ASSURANCE REPORT

Batch:	04-872
Analysis:	Mercury by EPA 1631.E (CVAFS)
Tracking:	04BR769, 04BR829 & 04BR833
Project:	EPA005, HCL002 & NJC002
Matrix:	Water
Batch Size:	17 Samples
Analysis Date:	November 1, 2004
Calibration Date:	November 1, 2004

1 **SAMPLE PREPARATION** – Acceptable

2 **CALIBRATION** – Acceptable

3 **CALIBRATION VERIFICATION** – Acceptable

4 **QUALITY CONTROL SAMPLES (QCS)** – Acceptable

5 **BLANKS** – Acceptable; one Method Blank prepared incorrectly. MB used for correction prepared and analyzed 11/2/04.

6 **METHOD DUPLICATE ANALYSIS** – Acceptable

7 **SPIKE / SPIKE DUPLICATE ANALYSIS** – Acceptable

8 **LIMITS OF DETECTION** – Acceptable

9 **OVERALL DATA QUALITY** – Acceptable

No qualification of the data was required based on this review.

I certify that, to the best of my knowledge and belief, the data are reported as true and accurate. The Laboratory Director, or his designee, has authorized release of data contained in this Quality Assurance Report as verified by the following signature(s).

11.8.04

Tressa K. Pearson-Franks
Quality Assurance Associate

BRL QA Summary

Batch #: **04-871** ***Method #:*** **EPA 1631.E**

Analyte: **Hg** ***Matrix:*** **Water**

BIAS *Criteria: Recovery = 79-121%*			
Laboratory Control Samples			
LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
QCS	10.00	10.23	102.3%

BIAS *Criteria: Recovery = 77-123%*			
Ongoing Precision and Recovery (OPR)			
LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
OPR1	5.00	5.10	101.9%
OPR2	5.00	5.06	101.3%
OPR3	5.00	5.10	102.1%

BIAS *Criteria: Recovery = 71-125%, RPD<24%*								
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)								
		Matrix Spike			*Matrix Spike Dupicate*			
Sample ID	*Sample Value ng/L*	*Spiked Value ng/L*	*Measured Value ng/L*	*MS Recovery %*	*Spiked Value ng/L*	*Measured Value ng/L*	*MSD Recovery %*	*Duplicate RPD*
04BR774-02	2.64	39.1	44.1	106.1%	40.2	45.4	106.5%	3.0%
04BR833-11	0.546	39.2	43.1	108.7%	38.7	41.1	104.7%	4.9%

Method Blanks (MB) *Criterion: < MB (0.5% BrCl) < 0.5 ng/L*								**Detection Limits**	
MB1		*MB2*		*MB3*		*MB4*		*MB MDL*	*MB PQL*
ng/L	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*ng/L*
0.190	0.5%	0.289	0.5%	0.381	1.0%	NA	NA	0.10	0.25

11/8/2004

Project Manager

BROOKS RAND, LLC
3958 6th Avenue, NW Seattle, WA 98107 U.S.A. 206.632.6206

QUALITY ASSURANCE REPORT

Batch:	04-871
Analysis:	Mercury by EPA 1631.E (CVAFS)
Tracking:	04BR774 & 04BR833
Project:	HCL002 & NJC002
Matrix:	Water
Batch Size:	20 Samples
Analysis Date:	November 1, 2004
Calibration Date:	November 1, 2004

1 **SAMPLE PREPARATION** – Acceptable
2 **CALIBRATION** – Acceptable
3 **CALIBRATION VERIFICATION** – Acceptable
4 **QUALITY CONTROL SAMPLES (QCS)** – Acceptable
5 **BLANKS** – Acceptable
6 **METHOD DUPLICATE ANALYSIS** – Acceptable
7 **SPIKE / SPIKE DUPLICATE ANALYSIS** – Acceptable
8 **LIMITS OF DETECTION** – Acceptable
9 **OVERALL DATA QUALITY** – Acceptable

No qualification of the data was required based on this review.

I certify that, to the best of my knowledge and belief, the data are reported as true and accurate. The Laboratory Director, or his designee, has authorized release of data contained in this Quality Assurance Report as verified by the following signature(s).

11.3.04
Tressa K. Pearson-Franks
Quality Assurance Associate

Brooks Rand LLC Sample Receiving Log

Tracking # **04BR833**

Customer: North Jackson Company
Contact: Peter Sabee
Project Ref. #: NJC002

Collection Date 10/18-20/2004
QA Level Standard

Sample Condition Intact
Shipping container intact? Yes

Shipping container type: cardboard box
Shipping container temp: ambient
Shipping container coolant: N/A

Sample preservation: 0.5% BrCl
Acid lab # 04-279
Hg Concentration:
Sample storage area: Cabinet #4

Sample Turnaround Time:
Contract Turnaround Time: 28 days

Comments:

Due Date: 11/22/2004
Receiving Date: 10/25/2004
Receiving Time: 9:00 AM

Logged-in by: Annie Carter
Log-in Date: 10/25/2004
Log-in Time: 10:00 AM

Airbill present? Yes
Airbill # 790805329010
Carrier: FedEx

Custody seal present? No
Custody seal intact? No
COC Present? Yes
COC Number: N/A

Analysis request form? No
COC/Sample tag agree? Yes

See SOW	No	See Project Manage	No
See Mem	No	See Lab Manage	No
Consult MSDS	No	See Contract Inf	No

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	QALM003A	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
2	QALP018	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
3	QALM009A	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
4	QALM002A	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
5	QALM010A	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
6	QALP016	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
7	DUPP004	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
8	QALM005A	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
9	DUPM003	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
10	QALM005D	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
11	QALM006A	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
12	QALM004D	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
13	WLDP001	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
14	WLDP006	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
15	WLDP021	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
16	QALP015	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
17	QALM006B	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
18	WLDP016	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
19	DUPP001	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
20	QALM003B	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
21	QALM002D	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			

10-25-04

Sample Custodian signature Date

1 of 3

Brooks Rd

TriMatrix Laboratories, Inc.

5560 Corporate Exchange Court SE Grand Rapids, MI 49512
Phone (616) 975-4500 Fax (616) 942-7463
www.trimatrixlabs.com

Chain of Custody Record

COC No:

Page 1 of 3

For Lab Use Only
Cart:
VOA Rack/Tray:
Receipt Log No.:
Project Chemist:
Laboratory Project No.:

Client Name: NJC — NorthJackson Co
Address: PO Box 30
Negaunee MI 49866
Phone:
Fax:

Project Name: Eagle
Client Project No. / P.O. No.: NJC002
Invoice To: Client / Other (comments)
Contact/Report To:

Analyses Requested

Preservatives: A NONE pH>7; B HNO_3 pH<2; C H_2SO_4 pH<2; D 1+1 HCl pH<2; E NaOH pH>12; F ZnAc/NaOH pH>9; G MeOH; H Other (note below)

Container Type (corresponds to Container Packing List)

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Number of Containers Submitted	Total	Sample Comments
			X1	QALM003A		10/18/04	1130		X	WW	1		EAG-1001232
			X2	QALP018		10/20/04	1010						EAG-1001249
			X3	QALM009A		10/20/04	1500						EAG-1001244
			X4	QALM002A		10/21/04	1230						EAG-1001230
			X5	QALM010A		10/21/04	1200						EAG-1001246
			X6	QALP016		10/21/04	1530						EAG-1001248
			X7	DUPP004		10/21/04							EAG-1001259
			X8	QALM005A		10/20/04	915						EAG-1001236
			X9	DUPM003		10/20/04	~~12:00~~						EAG-1001258
			X10	QALM006D		10/20/04	0945						EAG-1001237

Sampled By (print): P Sabee
Sampler's Signature: P Sabee
Company:

How Shipped? Hand Carrier: FedEx
Tracking No.:

Comments:

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
P Sabee	10/21/04	2pm						
1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
[illegible]	10-25-04	10am						

2 of 3

Brooks Rand

TriMatrix Laboratories, Inc.

5560 Corporate Exchange Court SE Grand Rapids, MI 49512
Phone (616) 975-4500 Fax (616) 942-7403
www.trimatrixlabs.com

Chain of Custody Record

COC No.

Page 2 of 3

For Lab Use Only

Cari

VOA Rack/Tray

Receipt Log No.

Project Chemist

Laboratory Project No.

Client Name

Address

Phone

Fax

Project Name

Client Project No. / P.O. No.

Invoice To: Client / Other (comments)

Contact/Report To

Analyses Requested

Eag Mg

A PRESERVATIVES
A NONE pH<7
B HNO_3 pH<2
C H_2SO_4 pH<2
D (1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Container Type (corresponds to Container Packing List)

Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Number of Containers Submitted	Total	Sample Comments
			X1 QALM006A		10/18/04	1130		X	WT	1		EAG-100 1236
			X2 QALM004D		10/19/04	1630						EAG-100 1235
			X3 WLDP001		10/18/04	1530						100 1220 EAG-100 1224
			X4 WLDP006		10/19/04	1215						EAG-100 1225
			X5 WLDP021		10/19/04	1130						EAG-100 1227
			X6 QALP015		10/18/04	1350						EAG-100 1241
			X7 QALM006B		10/18/04	1000						EAG-100 1239
			X8 WLDP016		10/19/04	1015						EAG-100 1226
			X9 DUPP001		10/19/04							EAG-100 1256
			X10 QALM003B		10/18/04	1150						EAG-100 1233

Sampled By (print): P Sabee

Sampler's Signature: P Sabee

Company:

How Shipped? Hand Carrier FedEx

Tracking No.

Comments

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
P Sabee	10/21/04	7p						
1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
[illegible]	10-25-04	10a						

Brooks Rand

3013

TriMatrix Laboratories, Inc.

5560 Corporate Exchange Court SE Grand Rapids, MI 49512
Phone (616) 975-4500 Fax (616) 942-7463
www.trimatrixlabs.com

Chain of Custody Record

COC No.

For Lab Use Only

Cart:

VOA Rack/Tray:

Receipt Log No.:

Project Chemist:

Laboratory Project No.:

Client Name:

Address: Se P1

Phone:

Fax:

Project Name:

Client Project No. / P.O. No.:

Invoice To: Client / Other (comments)

Contact/Report To:

Analyses Requested

Turn Time

Container Type (corresponds to Container Packing List)

Number of Containers Submitted

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Total	Sample Comments
			1	QALM0020	1st Cooler	10/21/04	1435		x	WW	1	EAG-100123.1
			2									
			3									
			4									
			5									
			6									
			7									
			8									
			9									
			10									

A PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Sampled By (print): P. Salee

Sampler's Signature: P Salee

Company:

How Shipped? Hand Carrier

Tracking No.:

Comments:

1. Relinquished By	Date	Time
P Salee	10/21/04	2p

1. Received By	Date	Time
[signature] Carter	10-25-04	10am

2. Relinquished By	Date	Time

2. Received By	Date	Time

3. Relinquished By	Date	Time

3. Received For Lab By	Date	Time

BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

December 20, 2004

North Jackson Company
Attn.: Peter Sabee
420 Rail Street
PO Box 30
Negaunee, MI 49866

RE: Brooks Rand Project: NJC002; Tracking #: 04BR845
Lab Services Agreement 101201nj01; Client Project: Eagle

Dear Mr. Sabee:

This report is for the mercury analysis of six water samples collected on 10/21/04. These samples were received at Brooks Rand on 10/29/04 and have been assigned the BRL tracking number 04BR845.

All samples were received, stored, prepared and analyzed according to Brooks Rand LLC Standard Operating Procedures and EPA Method 1631E. All results were blank corrected, as outlined in the calculations section of EPA Method 1631E. Results below the detection level are qualified "U" for non-detect and are reported at the MDL. Results above the detection limit and below the quantitation limit are qualified "B" for estimate. All QA criteria were met and no additional qualification of the data was required. Brooks Rand certifies that the reported test results meet all requirements of NELAC.

If there are any questions please feel free to contact me.

Sincerely,
Elizabeth Madonick
Elizabeth Madonick
Project Manager
elizabeth@brooksrand.com

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

P.O.Box 218 *1004 Har*
Marquette MI 49855
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR845

Lab Services Agreement 101201NJ01
Client Project Eagle

Sample/Sampling/Receiving Info

North Jackson Company | *BRL*

Sample Identification	Sampling Date	Sample Number	Receiving Date
QALM001A	10/21/2004	04BR845 - 1	10/29/2004
QALM100D	10/21/2004	04BR845 - 2	10/29/2004
QALM007D	10/21/2004	04BR845 - 3	10/29/2004
QALM007A	10/21/2004	04BR845 - 4	10/29/2004
QALP020	10/21/2004	04BR845 - 5	10/29/2004
DUPM002	10/21/2004	04BR845 - 6	10/29/2004

Wednesday, January 19, 2005

Elizabeth Madonick
Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

P.O.Box 218 *1004 Har*
Marquette MI 49855
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR845

Lab Services Agreement 101201NJ01
Client Project Eagle

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
QALM001A	04BR845 - 1	11/22/2004	11/23/2004	04-914	0.130	ng/L	B
QALM100D	04BR845 - 2	11/22/2004	11/23/2004	04-914	0.925	ng/L	
QALM007D	04BR845 - 3	11/22/2004	11/23/2004	04-914	0.285	ng/L	
QALM007A	04BR845 - 4	11/22/2004	11/23/2004	04-914	0.100	ng/L	U
QALP020	04BR845 - 5	11/22/2004	11/23/2004	04-914	0.887	ng/L	
DUPM002	04BR845 - 6	11/22/2004	11/23/2004	04-914	0.100	ng/L	U

Wednesday, January 19, 2005

Elizabeth Madonick
Project Manager

BRL QA Summary

Batch #: 04-914 *Method #:* EPA 1631.E

Analyte: Hg *Matrix:* Water

BIAS *Criteria: Recovery = 79-121%*
Laboratory Control Samples

LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
QCS	10.00	9.78	97.8%

BIAS *Criteria: Recovery = 77-123%*
Ongoing Precision and Recovery (OPR)

LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
OPR1	5.00	5.18	103.6%
OPR2	5.00	5.18	103.6%
OPR3	5.00	4.90	98.0%

BIAS *Criteria: Recovery = 71-125%, RPD<24%*
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)

		Matrix Spike			*Matrix Spike Dupicate*			
Sample ID	*Sample Value ng/L*	*Spiked Value ng/L*	*Measured Value ng/L*	*MS Recovery %*	*Spiked Value ng/L*	*Measured Value ng/L*	*MSD Recovery %*	*Duplicate RPD*
04BR845-7	51.8	39.8	92.4	102.1%	40.2	95.2	108.0%	3.0%
04BR871-6	16.2	40.0	59.9	109.3%	40.4	57.3	101.5%	4.5%

Method Blanks (MB) *Criterion: < MB (0.5% BrCl) < 0.5 ng/L*

MB1		*MB2*		*MB3*		*MB4*		**Detection Limits**	
ng/L	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*MB MDL ng/L*	*MB PQL ng/L*
0.164	0.5%	0.143	0.5%	0.268	1.0%	NA	NA	0.10	0.25

Elizabeth M Lowell
Project Manager

11/29/2004

BROOKS RAND, LLC
3958 6th Avenue, NW Seattle, WA 98107 U.S.A. 206.632.6206

QUALITY ASSURANCE REPORT

Batch:	04-914
Analysis:	Mercury by EPA 1631.E (CVAFS)
Tracking:	04BR845, 04BR848, & 04BR871
Project:	NJC002, ADQ002, & CMX001
Matrix:	Water
Batch Size:	20 Samples
Analysis Date:	November 23, 2004
Calibration Date:	November 22, 2004

1 **SAMPLE PREPARATION** – Acceptable

2 **CALIBRATION** – Acceptable

3 **CALIBRATION VERIFICATION** – Acceptable

4 **QUALITY CONTROL SAMPLES (QCS)** – Acceptable

5 **BLANKS** – Acceptable

6 **METHOD DUPLICATE ANALYSIS** – Not Applicable

7 **SPIKE / SPIKE DUPLICATE ANALYSIS** – Acceptable

8 **LIMITS OF DETECTION** – Acceptable

9 **OVERALL DATA QUALITY** – Acceptable

No qualification of the data was required based on this review.

I certify that, to the best of my knowledge and belief, the data are reported as true and accurate. The Laboratory Director, or his designee, has authorized release of data contained in this Quality Assurance Report as verified by the following signature(s).

F M Farland 11/29/04

Frank McFarland
Quality Assurance Manager

Brooks Rand LLC Sample Receiving Log

Tracking # **04BR845**

Customer:	North Jackson Company
Contact:	Peter Sabee
Project Ref. #:	NJC002
Collection Date	10/21/2004
QA Level	Standard
Sample Condition	Intact
Shipping container intact?	Yes
Shipping container type:	CARDBOARD BOX
Shipping container temp:	AMBIENT
Shipping container coolant:	N/A
Sample preservation:	0.5% BrCl
Acid lab #	04-279
Hg Concentration:	
Sample storage area:	Cabinet #1
Sample Turnaround Time:	
Contract Turnaround Time:	28 days

Due Date:	11/26/2004
Receiving Date:	10/29/2004
Receiving Time:	9:00 AM
Logged-in by:	Annie Carter
Log-in Date:	10/29/2004
Log-in Time:	10:30 AM
Airbill present?	Yes
Airbill #	826251224067
Carrier:	FEDEX
Custody seal present?	No
Custody seal intact?	No
COC Present?	Yes
COC Number:	N/A
Analysis request form?	No
COC/Sample tag agree?	Yes

See SOW	No	See Project Manage	No
See Mem	No	See Lab Manage	No
Consult MSDS	No	See Contract Inf	No

Comments:

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	QALM001A	FLPE 04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
2	QALM100D	FLPE 04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
3	QALM007D	FLPE 04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
4	QALM007A	FLPE 04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
5	QALP020	FLPE 04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
6	DUPM002	FLPE 04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:

Sample Custodian signature Date

BROOKS RAND

TriMatrix Laboratories, Inc.

5560 Corporate Exchange Court SE Grand Rapids, MI 49512
Phone (616) 975-4500 Fax (616) 942-7463
www.trimatrixlabs.com

Chain of Custody Record

COC No.

Page 1 of 1

For Lab Use Only
Cart
VOA Rack/Tray
Receipt Log No.
Project Chemist
Laboratory Project No.

Client Name: North Jackson
Address: P.O. Box 30
Negaunee MI
Phone: 906 475-9882
Fax:

Project Name: EAGLE
Client Project No. / P.O. No.
Invoice To: Client [X] Other (comments)
Contact/Report To

Analyses Requested: Nitrate TKN

Container Type (corresponds to Container Packing List)

A PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Number of Containers Submitted	Total	Sample Comments
			1 QALM001A		10-21	1430		X	W	X		EAG-1001228
			2 QALM001D		10-21	1515		X	W	X		EAG-1001229
			3 QALM007D		10-21	1145		X	W	X		EAG-1001241
			4 QALM007A		10-21	1025		X	W	X		EAG-1001240
			5 QALP020		10-21	1545		X	W	X		EAG-1001250
			6 DUPM002		10-21	—		X	W	X		EAG-1001257
			7									
			8									
			9									
			10									

Sampled By (print): T Sabre
Sampler's Signature:
Company: North Jackson

How Shipped? Hand Carrier Fed Exp
Tracking No.

Comments: Bill Attn Jan Chevy KMAC

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
T Sabre	10-25-04							
1. Received By	**Date**	**Time**	**2. Received By**	**Date**	**Time**	**3. Received For Lab By**	**Date**	**Time**
Jenny Crawford	10/26/04	0900						

BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

December 16, 2004

North Jackson Company
Attn.: Peter Sabee
420 Rail Street
PO Box 30
Negaunee, MI 49866

RE: Brooks Rand Project: NJC002; Tracking #: 04BR940
Lab Services Agreement 101201nj01; Client Project: Eagle

Dear Mr. Sabee:

This report is for the mercury analysis of eight water samples collected 11/3/04. These samples were received at Brooks Rand on 11/15/04 and assigned the BRL tracking number 04BR940.

All samples were received, stored, prepared and analyzed according to Brooks Rand LLC Standard Operating Procedures and EPA Method 1631E. All results were blank corrected, as outlined in the calculations section of EPA Method 1631E. Results below the detection level are qualified "U" for non-detect and are reported at the MDL. All QA criteria were met and no additional qualification of the data was required. Brooks Rand certifies that the reported test results meet all requirements of NELAC.

If there are any questions please feel free to contact me.

Sincerely,

Misty Mayer
Project Manager
misty@brooksrand.com

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

P.O.Box 218 *1004 Har*
Marquette MI 49855
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR940

Lab Services Agreement 101201NJ01
Client Project Eagle

Sample/Sampling/Receiving Info

North Jackson Company — *BRL*

Sample Identification	Sampling Date	Sample Number	Receiving Date
EQBM001	11/3/2004	04BR940 - 1	11/15/2004
EQBM002	11/3/2004	04BR940 - 2	11/15/2004
EQBM003	11/3/2004	04BR940 - 3	11/15/2004
EQBM004	11/3/2004	04BR940 - 4	11/15/2004
QALM004A	11/3/2004	04BR940 - 5	11/15/2004
QALM008A	11/3/2004	04BR940 - 6	11/15/2004
QALM008D	11/3/2004	04BR940 - 7	11/15/2004
QALM009D	11/3/2004	04BR940 - 8	11/15/2004

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

P.O.Box 218 *1004 Har*
Marquette MI 49855
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR940

Lab Services Agreement 101201NJ01
Client Project Eagle

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
EQBM001	04BR940 - 1	12/10/2004	12/15/2004	04-964	0.604	ng/L	
EQBM002	04BR940 - 2	12/10/2004	12/15/2004	04-964	0.343	ng/L	
EQBM003	04BR940 - 3	12/10/2004	12/15/2004	04-964	0.925	ng/L	
EQBM004	04BR940 - 4	12/10/2004	12/15/2004	04-964	0.539	ng/L	
QALM004A	04BR940 - 5	12/10/2004	12/15/2004	04-964	0.344	ng/L	
QALM008A	04BR940 - 6	12/10/2004	12/15/2004	04-964	0.808	ng/L	
QALM008D	04BR940 - 7	12/10/2004	12/15/2004	04-964	1.340	ng/L	
QALM009D	04BR940 - 8	12/10/2004	12/15/2004	04-964	0.100	ng/L	U

Thursday, December 16, 2004

Project Manager

BRL QA Summary

Batch #: **04-964** ***Method #:*** **EPA 1631.E**

Analyte: **Hg** ***Matrix:*** **Water**

BIAS *Criteria: Recovery = 79-121%*
Laboratory Control Samples

LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
QCS	10.00	10.85	108.5%

BIAS *Criteria: Recovery = 77-123%*
Ongoing Precision and Recovery (OPR)

LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
OPR1	5.00	4.94	98.9%
OPR2	5.00	4.75	95.0%

BIAS *Criteria: Recovery = 71-125%, RPD<24%*
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)

		Matrix Spike			*Matrix Spike Duplicate*			
Sample ID	*Sample Value ng/L*	*Spiked Value ng/L*	*Measured Value ng/L*	*MS Recovery %*	*Spiked Value ng/L*	*Measured Value ng/L*	*MSD Recovery %*	*Duplicate RPD*
04BR940-3	0.925	40.0	40.9	100.0%	39.9	43.8	107.5%	6.8%
04BR941-4	1.10	39.9	41.7	101.7%	39.8	38.3	93.4%	8.6%

Method Blanks (MB) *Criterion: MB (0.5% BrCl) < 0.5 ng/L*

MB1		*MB2*		*MB3*		*MB4*		**Detection Limits**	
								MB MDL	*MB PQL*
ng/L	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*ng/L*
0.156	0.5%	0.147	0.5%	0.155	0.5%	0.257	1.0%	0.10	0.25

12/15/2004 *Project Manager*

BROOKS RAND, LLC
3958 6th Avenue, NW Seattle, WA 98107 U.S.A. 206.632.6206

QUALITY ASSURANCE REPORT

Batch:	04-964
Analysis:	Mercury by EPA 1631.E (CVAFS)
Tracking:	04BR940, 04BR941, 04BR944, & 04BR958
Project:	NJC001, NJC002 & BNL001
Matrix:	Water
Batch Size:	20 Samples
Analysis Date:	December 15, 2004
Calibration Date:	December 15, 2004

1 **SAMPLE PREPARATION** – Acceptable

2 **CALIBRATION** – Acceptable

3 **CALIBRATION VERIFICATION** – Acceptable

4 **QUALITY CONTROL SAMPLES (QCS)** – Acceptable

5 **BLANKS** – Acceptable

6 **METHOD DUPLICATE ANALYSIS** – Not Applicable

7 **SPIKE / SPIKE DUPLICATE ANALYSIS** – Acceptable

8 **LIMITS OF DETECTION** – Acceptable

9 **OVERALL DATA QUALITY** – Acceptable

No qualification of the data was required based on this review.

I certify that, to the best of my knowledge and belief, the data are reported as true and accurate. The Laboratory Director, or his designee, has authorized release of data contained in this Quality Assurance Report as verified by the following signature(s).

12/15/04

Frank McFarland
Quality Assurance Manager

Brooks Rand LLC Sample Receiving Log

Tracking # **04BR940**

Customer: North Jackson Company
Contact: Peter Sabee
Project Ref. #: NJC002

Collection Date 11/3/2004
QA Level Standard

Sample Condition Intact
Shipping container intact? Yes

Shipping container type: cardboard box
Shipping container temp: ambient
Shipping container coolant: N/A

Sample preservation: 0.5% BrCl
Acid lab # 04-303
Hg Concentration:
Sample storage area: Cabinet #1

Sample Turnaround Time:
Contract Turnaround Time: 28 days

Due Date: 12/13/2004
Receiving Date: 11/15/2004
Receiving Time: 9:00 AM

Logged-in by: Annie Carter
Log-in Date: 11/15/2004
Log-in Time: 9:40 AM

Airbill present? Yes
Airbill # 790827867534
Carrier: FEDEX

Custody seal present? No
Custody seal intact? No
COC Present? Yes
COC Number: N/A

Analysis request form? No
COC/Sample tag agree? Yes

See SOW	No	See Project Manage	No
See Mem	No	See Lab Manage	No
Consult MSDS	No	See Contract Inf	No

Comments: preserved at BRL

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	EQBM001	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
2	EQBM002	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
3	EQBM003	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
4	EQBM004	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
5	QALM004A	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
6	QALM008A	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
7	QALM008D	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
8	QALM009D	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			

Sample Custodian signature

11-15-09
Date

Brooks Rand LLC Chain Of Custody Record

Page 1 of 1

Client: North Jackson Co	Email address: pete@northjacksonco.com	Ship to: **Brooks Rand LLC**
Contact: P Sabee	PO #:	3958 6th Avenue NW
Address: PO Box 30 420 Rail St Negaunee, MI 49866	Sampler's signatures: PSabee KMR	Seattle, WA 98107
	Fax COC for receipt confirmation? (Y / N)	Phone: 206-632-6206
Phone #: 906 475 9882	Client project ID: EAGLE	Fax: 206-632-6017
Fax #:	BRL project ID: NJSC002	Email: brl@brooksrand.com
		www.brooksrand.com

For BRL use only	Cooler temp (°C): ambient	Custody seals present? (Y / N)	Custody seals intact? (Y / N)	Date: 11-15-04	Initials: KC

	Sample ID	Collection: Date	Collection: Time	Miscellaneous: Sampler (initials)	Miscellaneous: Matrix type	Miscellaneous: # of containers	Miscellaneous: Sample field filtered, Y/N	Field Preservation: Unpreserved or ice only	Field Preservation: HNO_3	Field Preservation: HCl	Field Preservation: BrCl	Field Preservation: Other (specify)	Analyses required: Trace Hg	Comments
1	EQBM001	11/3	1430	PJS	WTR	1	Y	Ice					X	EAG-001260
2	EQBM002		1435											EAG-001261
3	EQBM003		1440											EAG-001262
4	EQBM004		1445											EAG-001263
5	QALM004A		1530											EAG-001234
6	QALM008A		1225											EAG-001242
7	QALM008D		1300											EAG-001243
8	QALM009D		1450											EAG-001244
9														
10														

Shipping carrier: FedEx # of coolers: 1 Box

Relinquished by: KMR	Date: 11/4/04	Time: 1230	Received by:	Date: Time:
Relinquished by: P Sabee	Date: 11/4/04	Time: 1230	Received at BRL:	Date: 11-15-04 Time: 9:00

White: LAB COPY **Yellow: CUSTOMER COPY**

BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

December 16, 2004

North Jackson Company
Attn.: Peter Sabee
420 Rail Street
PO Box 30
Negaunee, MI 49866

RE: Brooks Rand Project: NJC002; Tracking #: 04BR941
Lab Services Agreement 101201nj01; Client Project: Eagle

Dear Mr. Sabee:

This report is for the mercury analysis of eight water samples collected 11/9/04 and 11/10/04. These samples were received at Brooks Rand on 11/15/04 and assigned the BRL tracking number 04BR941.

All samples were received, stored, prepared and analyzed according to Brooks Rand LLC Standard Operating Procedures and EPA Method 1631E. All results were blank corrected, as outlined in the calculations section of EPA Method 1631E. Results below the detection level are qualified "U" for non-detect and are reported at the MDL. All QA criteria were met and no additional qualification of the data was required. Brooks Rand certifies that the reported test results meet all requirements of NELAC.

If there are any questions please feel free to contact me.

Sincerely,

Misty Mayer
Project Manager
misty@brooksrand.com

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

P.O.Box 218 *1004 Har*
Marquette MI 49855
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR941

Lab Services Agreement 101201NJ01
Client Project Eagle

Sample/Sampling/Receiving Info

North Jackson Company | *BRL*

Sample Identification	Sampling Date	Sample Number	Receiving Date
STRMS002	11/9/2004	04BR941 - 1	11/15/2004
YDRMS002	11/9/2004	04BR941 - 2	11/15/2004
DUPS001	11/9/2004	04BR941 - 3	11/15/2004
STRMS003	11/9/2004	04BR941 - 4	11/15/2004
CDRMS004	11/9/2004	04BR941 - 5	11/15/2004
FBKS001	11/9/2004	04BR941 - 6	11/15/2004
STRESXX	11/10/2004	04BR941 - 7	11/15/2004
STRMS001	11/9/2004	04BR941 - 8	11/15/2004

Thursday, December 16, 2004

Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

P.O.Box 218 *1004 Har*
Marquette MI 49855
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 04BR941

Lab Services Agreement 101201NJ01
Client Project Eagle

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
STRMS002	04BR941 - 1	12/10/2004	12/15/2004	04-964	1.660	ng/L	
YDRMS002	04BR941 - 2	12/10/2004	12/15/2004	04-964	3.050	ng/L	
DUPS001	04BR941 - 3	12/10/2004	12/15/2004	04-964	0.672	ng/L	
STRMS003	04BR941 - 4	12/10/2004	12/15/2004	04-964	1.100	ng/L	
CDRMS004	04BR941 - 5	12/10/2004	12/15/2004	04-964	0.691	ng/L	
FBKS001	04BR941 - 6	12/10/2004	12/15/2004	04-964	0.100	ng/L	U
STRESXX	04BR941 - 7	12/10/2004	12/15/2004	04-964	0.574	ng/L	
STRMS001	04BR941 - 8	12/10/2004	12/15/2004	04-964	0.810	ng/L	

Thursday, December 16, 2004

Project Manager

BRL QA Summary

Batch #: **04-964** ***Method #:*** **EPA 1631.E**

Analyte: **Hg** ***Matrix:*** **Water**

BIAS *Criteria: Recovery = 79-121%*			
Laboratory Control Samples			
LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
QCS	10.00	10.85	108.5%

BIAS *Criteria: Recovery = 77-123%*			
Ongoing Precision and Recovery (OPR)			
LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
OPR1	5.00	4.94	98.9%
OPR2	5.00	4.75	95.0%

BIAS *Criteria: Recovery = 71-125%, RPD<24%*								
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)								
		Matrix Spike			*Matrix Spike Duplicate*			
Sample ID	*Sample Value ng/L*	*Spiked Value ng/L*	*Measured Value ng/L*	*MS Recovery %*	*Spiked Value ng/L*	*Measured Value ng/L*	*MSD Recovery %*	*Duplicate RPD*
04BR940-3	0.925	40.0	40.9	100.0%	39.9	43.8	107.5%	6.8%
04BR941-4	1.10	39.9	41.7	101.7%	39.8	38.3	93.4%	8.6%

Method Blanks (MB) *Criterion: MB (0.5% BrCl) < 0.5 ng/L*								**Detection Limits**	
MB1		*MB2*		*MB3*		*MB4*		*MB MDL*	*MB PQL*
ng/L	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*ng/L*
0.156	0.5%	0.147	0.5%	0.155	0.5%	0.257	1.0%	0.10	0.25

12/15/2004 *Project Manager*

BROOKS RAND, LLC
3958 6th Avenue, NW Seattle, WA 98107 U.S.A. 206.632.6206

QUALITY ASSURANCE REPORT

Batch:	04-964
Analysis:	Mercury by EPA 1631.E (CVAFS)
Tracking:	04BR940, 04BR941, 04BR944, & 04BR958
Project:	NJC001, NJC002 & BNL001
Matrix:	Water
Batch Size:	20 Samples
Analysis Date:	December 15, 2004
Calibration Date:	December 15, 2004

1 **SAMPLE PREPARATION** – Acceptable

2 **CALIBRATION** – Acceptable

3 **CALIBRATION VERIFICATION** – Acceptable

4 **QUALITY CONTROL SAMPLES (QCS)** – Acceptable

5 **BLANKS** – Acceptable

6 **METHOD DUPLICATE ANALYSIS** – Not Applicable

7 **SPIKE / SPIKE DUPLICATE ANALYSIS** – Acceptable

8 **LIMITS OF DETECTION** – Acceptable

9 **OVERALL DATA QUALITY** – Acceptable

No qualification of the data was required based on this review.

I certify that, to the best of my knowledge and belief, the data are reported as true and accurate. The Laboratory Director, or his designee, has authorized release of data contained in this Quality Assurance Report as verified by the following signature(s).

12/15/04

Frank McFarland
Quality Assurance Manager

Brooks Rand LLC Sample Receiving Log

Tracking # **04BR941**

Customer: North Jackson Company
Contact: Peter Sabee
Project Ref. #: NJC002

Collection Date 11/9-11/10/2004
QA Level Standard

Sample Condition Intact
Shipping container intact? Yes

Shipping container type: cardboard box
Shipping container temp: ambient
Shipping container coolant: N/A

Sample preservation: 0.5% BrCl
Acid lab # 04-303
Hg Concentration:
Sample storage area: Cabinet #1

Sample Turnaround Time:
Contract Turnaround Time: 28 days

Comments: preserved at BRL

Due Date: 12/13/2004
Receiving Date: 11/15/2004
Receiving Time: 9:00 AM

Logged-in by: Annie Carter
Log-in Date: 11/15/2004
Log-in Time: 9:40 AM

Airbill present? Yes
Airbill # 792134936132
Carrier: FEDEX

Custody seal present? No
Custody seal intact? No
COC Present? Yes
COC Number: N/A

Analysis request form? No
COC/Sample tag agree? Yes

See SOW	No	See Project Manage	No
See Mem	No	See Lab Manage	No
Consult MSDS	No	See Contract Inf	No

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	STRMS002	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
2	YDRMS002	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
3	DUPS001	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
4	STRMS003	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
5	CDRMS004	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
6	FBKS001	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
7	STRESXX	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
8	STRMS001	04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			

11-15-04

Sample Custodian signature Date

Brooks Rand LLC Chain Of Custody Record

Page 1 of 1

Client: North Jackson	Email address: pete@northjacksonco.com	Ship to: **Brooks Rand LLC**
Contact: P. Schee	PO #:	3958 6th Avenue NW
Address: PO Box 30 420 Rail St Negaunee, MI 49866	Sampler's signatures: KMR P Schee	Seattle, WA 98107
	Fax COC for receipt confirmation? (Y / N)	Phone: 206-632-6206
Phone #: 906 475 9882	Client project ID: Eagle	Fax: 206-632-6017
Fax #:	BRL project ID: NJC002	Email: brl@brooksrand.com
		www.brooksrand.com

For BRL use only	Cooler temp (°C): wet ice	Custody seals present? (Y / N)	Custody seals intact? (Y / N)	Date: 11-15-01	Initials: KC

	Sample ID	Collection: Date	Collection: Time	Miscellaneous: Sampler (initials)	Miscellaneous: Matrix type	Miscellaneous: # of containers	Miscellaneous: Sample field filtered, Y/N	Field Preservation: Unpreserved or ice only	Field Preservation: HNO_3	Field Preservation: HCl	Field Preservation: BrCl	Field Preservation: Other (specify)	Analyses required: Trace Hg	Comments
1	STRMS002	11/9	1230	PJS	WW	1	N	Ice					4	EAG-1001268
2	YDRMS002	11/9	1300	PJS										EAG-1001271
3	DUPS001	11/9		PJS										EAG-1001273
4	STRMS003	11/9	1030	PJS										EAG-1001269
5	CDRMS004	11/9	1115	PJS										EAG-1001272
6	PBKS 001	11/9	0800	PJS										EAG-1001275
7	STRESXX	11/10	1215	DWW										EAG-1001150
8	STRMS001	11/9	1400	PJS	↓	↓	↓						↓	EAG-1001270
9														
10														

Shipping carrier: # of coolers: 1 cool

Relinquished by: KMR	Date: 11/11/01 Time: 1230	Received by:	Date: Time:
Relinquished by: P. Schee	Date: 11/10/01 Time: 1230	Received at BRL:	Date: 11/15/01 Time: 9am

White: LAB COPY **Yellow: CUSTOMER COPY**

BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

January 10, 2005

North Jackson Company
Attn.: Peter Sabee
PO Box 218
1004 Harbor Hills, Suite 102
Marquette, MI 49855

RE: Brooks Rand Project: NJC002; Tracking #: 05BR0091
Lab Services Agreement 101201nj01; Client Project: Eagle

Dear Mr. Sabee:

This report is for the mercury analysis of eight water samples collected 12/15/04. These samples were received at Brooks Rand on 12/21/04 and assigned the BRL tracking number 05BR0091.

All samples were received, stored, prepared and analyzed according to Brooks Rand LLC Standard Operating Procedures and EPA Method 1631E. All results were blank corrected, as outlined in the calculations section of EPA Method 1631E. Results above the detection limit and below the quantitation limit are qualified "B" for estimate. All QA criteria were met and no additional qualification of the data was required. Brooks Rand certifies that the reported test results meet all requirements of NELAC.

If there are any questions please feel free to contact me.

Sincerely,

Elizabeth Madonick
Project Manager
elizabeth@brooksrand.com

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

P.O.Box 218 *1004 Har*
Marquette MI 49855
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 05BR0091

Lab Services Agreement 101201NJ01
Client Project Eagle

Sample/Sampling/Receiving Info

North Jackson Company — *BRL*

Sample Identification	Sampling Date	Sample Number	Receiving Date
QALM005A	12/15/2004	05BR0091 - 1	12/21/2004
QALM005D	12/15/2004	05BR0091 - 2	12/21/2004
DUPM001	12/15/2004	05BR0091 - 3	12/21/2004
DUPM002	12/15/2004	05BR0091 - 4	12/21/2004
QALM004A	12/15/2004	05BR0091 - 5	12/21/2004
QALM004D	12/15/2004	05BR0091 - 6	12/21/2004
EQBM001	12/15/2004	05BR0091 - 7	12/21/2004
EQBM002	12/15/2004	05BR0091 - 8	12/21/2004

Friday, January 07, 2005

Elizabeth Madonick
Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

P.O.Box 218 *1004 Har*
Marquette MI 49855
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 05BR0091

Lab Services Agreement 101201NJ01
Client Project Eagle

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
QALM005A	05BR0091 - 1	12/30/2004	1/5/2005	04-1040	0.253	ng/L	
QALM005D	05BR0091 - 2	12/30/2004	1/5/2005	04-1040	0.114	ng/L	B
DUPM001	05BR0091 - 3	12/30/2004	1/5/2005	04-1040	0.231	ng/L	B
DUPM002	05BR0091 - 4	12/30/2004	1/5/2005	04-1040	0.173	ng/L	B
QALM004A	05BR0091 - 5	12/30/2004	1/5/2005	04-1040	0.194	ng/L	B
QALM004D	05BR0091 - 6	12/30/2004	1/5/2005	04-1040	0.190	ng/L	B
EQBM001	05BR0091 - 7	12/30/2004	1/5/2005	04-1040	0.382	ng/L	
EQBM002	05BR0091 - 8	12/30/2004	1/5/2005	04-1040	0.360	ng/L	

Friday, January 07, 2005

Elizabeth Madonick
Project Manager

BRL QA Summary

Batch #: **04-1040** ***Method #:*** **EPA 1631.E**

Analyte: **Hg** ***Matrix:*** **Water**

BIAS *Criteria: Recovery = 79-121%*			
Laboratory Control Samples			
LCS ID	***Certified Value ng/L***	***Measured Value ng/L***	***Recovery %***
QCS	10.00	9.75	97.5%

BIAS *Criteria: Recovery = 77-123%*			
Ongoing Precision and Recovery (OPR)			
LCS ID	***Certified Value ng/L***	***Measured Value ng/L***	***Recovery %***
OPR1	5.00	5.06	101.3%
OPR2	5.00	4.91	98.2%

BIAS *Criteria: Recovery = 71-125%, RPD<24%*								
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)								
		Matrix Spike			***Matrix Spike Duplicate***			
Sample ID	***Sample Value ng/L***	***Spiked Value ng/L***	***Measured Value ng/L***	***MS Recovery %***	***Spiked Value ng/L***	***Measured Value ng/L***	***MSD Recovery %***	***Duplicate RPD***
05BR0080-1	50.0	40.1	91.6	103.9%	39.9	89.6	99.2%	2.3%
05BR0091-2	0.114	40.0	40.8	101.6%	39.9	40.3	100.5%	1.2%

Method Blanks (MB) *Criterion: MB (0.5% BrCl) < 0.5 ng/L*								**Detection Limits**	
MB1		***MB2***		***MB3***		***MB4***		***MB MDL***	***MB PQL***
ng/L	***BrCl%***	***ng/L***	***BrCl%***	***ng/L***	***BrCl%***	***ng/L***	***BrCl%***	***ng/L***	***ng/L***
0.169	0.5%	0.159	0.5%	0.300	1.0%	NA	NA	0.10	0.25

1/10/2005

Elizabeth M. Lovett
Project Manager

BROOKS RAND, LLC
3958 6th Avenue, NW Seattle, WA 98107 U.S.A. 206.632.6206

QUALITY ASSURANCE REPORT

Batch:	04-1040
Analysis:	Mercury by EPA 1631.E (CVAFS)
Tracking:	05BR0027, 05BR0080, 05BR0087, 05BR0091 & 05BR0092
Project:	FAL002, H2M002, COB004 & NJC002
Matrix:	Water
Batch Size:	18 samples
Analysis Date:	January 5, 2005
Calibration Date:	January 5, 2005

1 **SAMPLE PREPARATION** – Acceptable

2 **CALIBRATION** – Acceptable

3 **CALIBRATION VERIFICATION** – Acceptable

4 **QUALITY CONTROL SAMPLES (QCS)** – Acceptable

5 **BLANKS** – Acceptable

6 **METHOD DUPLICATE ANALYSIS** – Not Applicable

7 **SPIKE / SPIKE DUPLICATE ANALYSIS** – Acceptable

8 **LIMITS OF DETECTION** – Acceptable

9 **OVERALL DATA QUALITY** – Acceptable

No qualification of the data was required based on this review.

I certify that, to the best of my knowledge and belief, the data are reported as true and accurate. The Laboratory Director, or his designee, has authorized release of data contained in this Quality Assurance Report as verified by the following signature(s).

F. McFarland 1/7/05
Frank McFarland
Quality Assurance Manager

Hg Analysis Results
Batch #04-1040(1631E), Tracking #05BR0027, 0080, 0087, 0091, 0092

	Analyst:	ETS		*Date:*	1/5/05		*Matrix:*	Water	*Analysis:*	Hg
	Projects:	FAL002, H2M002, COB004, NJC002								
SAMPLE CALCULATIONS 0.5% BrCl										
			Sample	Dilution	Analyzed			Uncorrected	MB corrected	
			Volume	Volume	Vol.			Result	Result	
Run	Tracking #	ID #	(mL)	(mL)	(mL)	PA	pg	ng/L	ng/L	
15	05BR0091	2	150	150.3	92.57	459	25.7	0.278	0.114	
16	05BR0091	2MS	49.97	50.27	39.61	26804	1611	40.9	40.8	
17	05BR0091	2MSD	50.07	50.37	38.60	25803	1551	40.4	40.3	
18	05BR0080	1	150	150.3	83.03	69032	4153	50.1	50.0	
19	05BR0080	1MS	49.88	50.18	37.72	57214	3442	91.8	91.6	
20	05BR0080	1MSD	50.11	50.41	33.92	50296	3025	89.7	89.6	
21	05BR0087	1	250	250.5	81.92	27199	1635	20.0	19.8	
22	05BR0091	1	250	250.5	78.48	576	32.7	0.418	0.253	
23	05BR0091	3	250	250.5	85.91	595	33.9	0.395	0.231	
24	05BR0091	4	250	250.5	82.99	496	27.9	0.337	0.173	
25	05BR0091	5	250	250.5	82.45	522	29.5	0.358	0.194	
26	05BR0091	6	250	250.5	87.17	544	30.8	0.354	0.190	
27	05BR0091	7	250	250.5	85.24	804	46.4	0.546	0.382	
28	05BR0091	8	250	250.5	82.14	746	43.0	0.524	0.360	
29	05BR0092	1	250	250.5	83.59	309	16.7	0.200	0.035	
30	05BR0092	2	250	250.5	82.93	2440	145	1.75	1.59	
31	05BR0092	4	250	250.5	81.50	2313	137	1.69	1.52	
32	05BR0092	5	150	150.3	81.99	3806	227	2.78	2.61	
33	05BR0092	6	250	250.5	83.48	1563	92.1	1.11	0.941	
34	05BR0092	7	250	250.5	86.44	3930	235	2.72	2.56	
Method Blank 0.5% BrCl										
	Sample	Dilution	Analyzed							
	Volume	Volume	Volume		Measured	Total	Result			
Run	(mL)	(mL)	(mL)	PA	pg	pg	ng/L			
12	200.38	201.78	82.18	262	13.83	34.0	0.169			
13	200.00	201.40	86.25	259	13.65	31.9	0.159			
					Average:	32.9	0.164			
					StDev:	1.5	0.007			
SAMPLE CALCULATIONS 1.0% BrCl										
			Sample	Dilution	Analyzed			Uncorrected	MB corrected	
			Volume	Volume	Vol.			Result	Result	
Run	Tracking #	ID #	(mL)	(mL)	(mL)	PA	pg	ng/L	ng/L	
35	05BR0027	1	250	252.25	57.21	9397	564	9.94	9.64	
36	05BR0092	3	250	252.25	81.68	3233	193	2.38	2.08	
Method Blank 1.0% BrCl										
	Sample	Dilution	Analyzed							
	Volume	Volume	Volume		Measured	Total	Result			
Run	(mL)	(mL)	(mL)	PA	pg	pg	ng/L			
14	199.69	202.49	83.11	441	24.6	59.9	0.300			

Hg Analysis Results
Batch #04-1040(1631E), Tracking #05BR0027, 0080, 0087, 0091, 0092

QC CALCULATIONS

Calibration Results

Instrument Calibration (1/5/05)

Run	pg	PA	Calibration Coefficient
5	25	444	0.06072
6	100	1784	0.05709
7	500	8472	0.05924
8	2500	41257	0.06064
9	10000	158135	0.06325
R:	0.9999	**Average:**	0.06019
		RSD:	3.8%

Average: 99.1% recovery (32.25 PA)

Calibration Blanks

Run	PA	pg
1	25	1.50
2	37	2.23
3	29	1.75
4	38	2.29
Average:	32.25	1.94
StDev:	6.29	0.379

Calibration Checks

Quality Control Standard

Run	pg	PA	pg measured	% recovery
11	1000	16231	975.0	97.5%

Ongoing Precision Recovery

Run	pg	PA	pg measured	% recovery
10	500	8445	506.3	101.3%
38	500	8187	490.8	98.2%

Bias

Summary of Matrix Spike Recoveries

Run	Tracking #	ID #	Spike Conc. ng/L	spike + sample measured ng/L	sample measured ng/L	spike measured ng/L	% Rec.	RPD%
16	05BR0091	2MS	40.02	40.76	0.114	40.65	101.6%	
17	05BR0091	2MSD	39.94	40.26	0.114	40.15	100.5%	1.2
19	05BR0080	1MS	40.10	91.63	49.95	41.67	103.9%	
20	05BR0080	1MSD	39.91	89.56	49.95	39.60	99.2%	2.3

Brooks Rand LLC Sample Receiving Log

Tracking # **05BR0091**

Customer:	North Jackson Company
Contact:	Peter Sabee
Project Ref. #:	NJC002
Project Mgr:	Elizabeth Madonick
Collection Date	12/15/2004
QA Level	Standard
Sample Condition	Intact
Shipping container intact?	Yes
Shipping container type:	Cardboard Box
Shipping container temp:	Ambient
Shipping container coolant:	None
Sample preservation:	0.5% BrCl
Acid lab #	04-321
Hg Concentration:	
Sample storage area:	Cabinet #1
Sample Turnaround Time:	
Contract Turnaround Time:	28 days

Due Date:	1/18/2005
Receiving Date:	12/21/2004
Receiving Time:	9:00 AM
Logged-in by:	Margaret Langley
Log-in Date:	12/21/2004
Log-in Time:	10:18 AM
Airbill present?	Yes
Airbill #	791422958157
Carrier:	FedEx
Custody seal present?	Yes
Custody seal intact?	Yes
COC Present?	Yes
COC Number:	N/A
Analysis request form?	No
COC/Sample tag agree?	Yes

See SOW	No	See Project Manage	No
See Mem	No	See Lab Manage	No
Consult MSDS	No	See Contract Inf	No

Comments:

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	QALM005A	FPE 04-301	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
2	QALM005D	FPE 04-301	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
3	DUPM001	FPE 04-301	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
4	DUPM002	FPE 04-301	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
5	QALM004A	FPE 04-301	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
6	QALM004D	FPE 04-301	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
7	EQBM001	FPE 04-259	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
8	EQBM002	FPE 04-301	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			

Sample Custodian signature 12/21/07 Date

Brooks Rand LLC Chain Of Custody Record

Page 1 of 1

Client: North Jackson	Email address: DW.Mackenzie@gmail.com	Ship to: **Brooks Rand LLC**
Contact: D. Wittala	PO #: Eagle	3958 6th Avenue NW
Address: PO Box 218 Marquette, MI 49855	Sampler's signatures:	Seattle, WA 98107
		Phone: 206-632-6206
	Fax COC for receipt confirmation? (Y / N)	Fax: 206-632-6017
Phone #: 906 225 6787	Client project ID: Eagle	Email: brl@brooksrand.com
Fax #:	BRL project ID: NJC002	www.brooksrand.com

For BRL use only	Cooler temp (°C) Ambient	Custody seals present? (Y / N)	Custody seals intact? (Y / N)	Date: 12/21/04	Initials: MR

	Sample ID	Collection: Date	Collection: Time	Misc: Sampler (initials)	Misc: Matrix type	Misc: # of containers	Misc: Sample field filtered, Y/N	Field Preservation: Unpreserved or ice only	Field Preservation: HNO_3	Field Preservation: HCl	Field Preservation: BrCl	Field Preservation: Other (specify)	Analyses required: Trace Hg	Comments
1	QALM005A	12-15	1300	PJS	WT	1	N						+	EAG-1001329
2	QALM005D		1330											EAG-1001330
3	DUPM001		—											EAG-1001337
4	DUPM002		—											EAG-1001338
5	FBKM001		1312											EAG-1001341
6	FBKM002		1325											EAG-1001342
7	QALM004A		1505											EAG-1001327
8	QALM004D		1510											EAG-1001328
9	EQBM001		1420											EAG-1001339
10	EQBM002		1425											EAG-1001340

Shipping carrier: FedEx # of coolers:

Relinquished by:	Date: 12/19/04	Time: 1000	Received by:
Relinquished by:	Date:	Time:	Received at BRL:

Date: | Time:

Date: 12/21/04 Time: 9004

White: LAB COPY **Yellow: CUSTOMER COPY**

BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

January 10, 2005

North Jackson Company
Attn.: Peter Sabee
PO Box 218
1004 Harbor Hills, Suite 102
Marquette, MI 49855

RE: Brooks Rand Project: NJC002; Tracking #: 05BR0092
Lab Services Agreement 101201nj01; Client Project: Eagle

Dear Mr. Sabee:

This report is for the mercury analysis of seven water samples collected 12/14/04. These samples were received at Brooks Rand on 12/21/04 and assigned the BRL tracking number 05BR0092.

All samples were received, stored, prepared and analyzed according to Brooks Rand LLC Standard Operating Procedures and EPA Method 1631E. All results were blank corrected, as outlined in the calculations section of EPA Method 1631E. Results below the detection level are qualified "U" for non-detect and are reported at the MDL. All QA criteria were met and no additional qualification of the data was required. Brooks Rand certifies that the reported test results meet all requirements of NELAC.

If there are any questions please feel free to contact me.

Sincerely,
Elizabeth Madonick
Project Manager
elizabeth@brooksrand.com

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

P.O.Box 218 *1004 Har*
Marquette MI 49855
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 05BR0092

Lab Services Agreement 101201NJ01
Client Project Eagle

Sample/Sampling/Receiving Info

North Jackson Company — *BRL*

Sample Identification	Sampling Date	Sample Number	Receiving Date
FBKS001	12/14/2004	05BR0092 - 1	12/21/2004
STRMS002	12/14/2004	05BR0092 - 2	12/21/2004
STRMS004	12/14/2004	05BR0092 - 3	12/21/2004
STRES002	12/14/2004	05BR0092 - 4	12/21/2004
YDRMS002	12/14/2004	05BR0092 - 5	12/21/2004
CDRMS004	12/14/2004	05BR0092 - 6	12/21/2004
DUPS001	12/14/2004	05BR0092 - 7	12/21/2004

Friday, January 07, 2005

Elizabeth Madonick
Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

P.O.Box 218 *1004 Har*
Marquette MI 49855
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 05BR0092

Lab Services Agreement 101201NJ01
Client Project Eagle

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
FBKS001	05BR0092 - 1	12/30/2004	1/5/2005	04-1040	0.100	ng/L	U
STRMS002	05BR0092 - 2	12/30/2004	1/5/2005	04-1040	1.590	ng/L	
STRMS004	05BR0092 - 3	12/30/2004	1/5/2005	04-1040	2.080	ng/L	
STRES002	05BR0092 - 4	12/30/2004	1/5/2005	04-1040	1.520	ng/L	
YDRMS002	05BR0092 - 5	12/30/2004	1/5/2005	04-1040	2.610	ng/L	
CDRMS004	05BR0092 - 6	12/30/2004	1/5/2005	04-1040	0.941	ng/L	
DUPS001	05BR0092 - 7	12/30/2004	1/5/2005	04-1040	2.560	ng/L	

Friday, January 07, 2005

Elizabeth Madonick
Project Manager

BRL QA Summary

Batch #: **04-1040** ***Method #:*** **EPA 1631.E**

Analyte: **Hg** ***Matrix:*** **Water**

BIAS *Criteria: Recovery = 79-121%*			
Laboratory Control Samples			
LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
QCS	10.00	9.75	97.5%

BIAS *Criteria: Recovery = 77-123%*			
Ongoing Precision and Recovery (OPR)			
LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
OPR1	5.00	5.06	101.3%
OPR2	5.00	4.91	98.2%

BIAS *Criteria: Recovery = 71-125%, RPD<24%*								
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)								
		Matrix Spike			*Matrix Spike Duplicate*			
Sample ID	*Sample Value ng/L*	*Spiked Value ng/L*	*Measured Value ng/L*	*MS Recovery %*	*Spiked Value ng/L*	*Measured Value ng/L*	*MSD Recovery %*	*Duplicate RPD*
05BR0080-1	50.0	40.1	91.6	103.9%	39.9	89.6	99.2%	2.3%
05BR0091-2	0.114	40.0	40.8	101.6%	39.9	40.3	100.5%	1.2%

Method Blanks (MB) *Criterion: MB (0.5% BrCl) < 0.5 ng/L*								**Detection Limits**	
MB1		*MB2*		*MB3*		*MB4*		*MB MDL*	*MB PQL*
ng/L	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*BrCl%*	*ng/L*	*ng/L*
0.169	0.5%	0.159	0.5%	0.300	1.0%	NA	NA	0.10	0.25

1/10/2005

Elizabeth Mdaniel

Project Manager

BROOKS RAND, LLC
3958 6th Avenue, NW Seattle, WA 98107 U.S.A. 206.632.6206

QUALITY ASSURANCE REPORT

Batch:	04-1040
Analysis:	Mercury by EPA 1631.E (CVAFS)
Tracking:	05BR0027, 05BR0080, 05BR0087, 05BR0091 & 05BR0092
Project:	FAL002, H2M002, COB004 & NJC002
Matrix:	Water
Batch Size:	18 samples
Analysis Date:	January 5, 2005
Calibration Date:	January 5, 2005

1 **SAMPLE PREPARATION** – Acceptable

2 **CALIBRATION** – Acceptable

3 **CALIBRATION VERIFICATION** – Acceptable

4 **QUALITY CONTROL SAMPLES (QCS)** – Acceptable

5 **BLANKS** – Acceptable

6 **METHOD DUPLICATE ANALYSIS** – Not Applicable

7 **SPIKE / SPIKE DUPLICATE ANALYSIS** – Acceptable

8 **LIMITS OF DETECTION** – Acceptable

9 **OVERALL DATA QUALITY** – Acceptable

No qualification of the data was required based on this review.

I certify that, to the best of my knowledge and belief, the data are reported as true and accurate. The Laboratory Director, or his designee, has authorized release of data contained in this Quality Assurance Report as verified by the following signature(s).

F. McFarland 1/7/05
Frank McFarland
Quality Assurance Manager

Hg Analysis Results
Batch #04-1040(1631E), Tracking #05BR0027, 0080, 0087, 0091, 0092

	Analyst:	ETS		*Date:*	1/5/05		*Matrix:*	Water	*Analysis:*	Hg
	Projects:	FAL002, H2M002, COB004, NJC002								
SAMPLE CALCULATIONS 0.5% BrCl										
			Sample	Dilution	Analyzed			Uncorrected	MB corrected	
			Volume	Volume	Vol.			Result	Result	
Run	Tracking #	ID #	(mL)	(mL)	(mL)	PA	pg	ng/L	ng/L	
15	05BR0091	2	150	150.3	92.57	459	25.7	0.278	0.114	
16	05BR0091	2MS	49.97	50.27	39.61	26804	1611	40.9	40.8	
17	05BR0091	2MSD	50.07	50.37	38.60	25803	1551	40.4	40.3	
18	05BR0080	1	150	150.3	83.03	69032	4153	50.1	50.0	
19	05BR0080	1MS	49.88	50.18	37.72	57214	3442	91.8	91.6	
20	05BR0080	1MSD	50.11	50.41	33.92	50296	3025	89.7	89.6	
21	05BR0087	1	250	250.5	81.92	27199	1635	20.0	19.8	
22	05BR0091	1	250	250.5	78.48	576	32.7	0.418	0.253	
23	05BR0091	3	250	250.5	85.91	595	33.9	0.395	0.231	
24	05BR0091	4	250	250.5	82.99	496	27.9	0.337	0.173	
25	05BR0091	5	250	250.5	82.45	522	29.5	0.358	0.194	
26	05BR0091	6	250	250.5	87.17	544	30.8	0.354	0.190	
27	05BR0091	7	250	250.5	85.24	804	46.4	0.546	0.382	
28	05BR0091	8	250	250.5	82.14	746	43.0	0.524	0.360	
29	05BR0092	1	250	250.5	83.59	309	16.7	0.200	0.035	
30	05BR0092	2	250	250.5	82.93	2440	145	1.75	1.59	
31	05BR0092	4	250	250.5	81.50	2313	137	1.69	1.52	
32	05BR0092	5	150	150.3	81.99	3806	227	2.78	2.61	
33	05BR0092	6	250	250.5	83.48	1563	92.1	1.11	0.941	
34	05BR0092	7	250	250.5	86.44	3930	235	2.72	2.56	
Method Blank 0.5% BrCl										
	Sample	Dilution	Analyzed							
	Volume	Volume	Volume		Measured	Total	Result			
Run	(mL)	(mL)	(mL)	PA	pg	pg	ng/L			
12	200.38	201.78	82.18	262	13.83	34.0	0.169			
13	200.00	201.40	86.25	259	13.65	31.9	0.159			
					Average:	32.9	0.164			
					StDev:	1.5	0.007			
SAMPLE CALCULATIONS 1.0% BrCl										
			Sample	Dilution	Analyzed			Uncorrected	MB corrected	
			Volume	Volume	Vol.			Result	Result	
Run	Tracking #	ID #	(mL)	(mL)	(mL)	PA	pg	ng/L	ng/L	
35	05BR0027	1	250	252.25	57.21	9397	564	9.94	9.64	
36	05BR0092	3	250	252.25	81.68	3233	193	2.38	2.08	
Method Blank 1.0% BrCl										
	Sample	Dilution	Analyzed							
	Volume	Volume	Volume		Measured	Total	Result			
Run	(mL)	(mL)	(mL)	PA	pg	pg	ng/L			
14	199.69	202.49	83.11	441	24.6	59.9	0.300			

Hg Analysis Results
Batch #04-1040(1631E), Tracking #05BR0027, 0080, 0087, 0091, 0092

QC CALCULATIONS

Calibration Results

Instrument Calibration (1/5/05)

Run	pg	PA	Calibration Coefficient					Calibration Blanks Run	PA	pg
5	25	444	0.06072	**Average:**	99.1%	recovery		1	25	1.50
6	100	1784	0.05709					2	37	2.23
7	500	8472	0.05924					3	29	1.75
8	2500	41257	0.06064					4	38	2.29
9	10000	158135	0.06325					**Average:**	32.25	1.94
R:	0.9999	**Average:**	0.06019					**StDev:**	6.29	0.379
		RSD:	3.8%							

Calibration Checks

Quality Control Standard

Run	pg	PA	pg measured	% recovery
11	1000	16231	975.0	97.5%

Ongoing Precision Recovery

Run	pg	PA	pg measured	% recovery
10	500	8445	506.3	101.3%
38	500	8187	490.8	98.2%

Bias

Summary of Matrix Spike Recoveries

Run	Tracking #	ID #	Spike Conc. ng/L	spike + sample measured ng/L	sample measured ng/L	spike measured ng/L	% Rec.	RPD%
16	05BR0091	2MS	40.02	40.76	0.114	40.65	101.6%	
17	05BR0091	2MSD	39.94	40.26	0.114	40.15	100.5%	1.2
19	05BR0080	1MS	40.10	91.63	49.95	41.67	103.9%	
20	05BR0080	1MSD	39.91	89.56	49.95	39.60	99.2%	2.3

Brooks Rand LLC Sample Receiving Log

Tracking # **05BR0092**

Customer:	North Jackson Company
Contact:	Peter Sabee
Project Ref. #:	NJC002
Project Mgr:	Elizabeth Madonick
Collection Date	12/14/2004
QA Level	Standard
Sample Condition	Intact
Shipping container intact?	Yes
Shipping container type:	Cardboard Box
Shipping container temp:	Ambient
Shipping container coolant:	None
Sample preservation:	0.5% BrCl
Acid lab #	04-321
Hg Concentration:	
Sample storage area:	Cabinet #1
Sample Turnaround Time:	
Contract Turnaround Time:	28 days

Due Date:	1/18/2005
Receiving Date:	12/21/2004
Receiving Time:	9:00 AM
Logged-in by:	Margaret Langley
Log-in Date:	12/21/2004
Log-in Time:	10:38 AM
Airbill present?	Yes
Airbill #	791422958157
Carrier:	FedEx
Custody seal present?	Yes
Custody seal intact?	Yes
COC Present?	Yes
COC Number:	N/A
Analysis request form?	No
COC/Sample tag agree?	Yes

See SOW	No	See Project Manage	No
See Mem	No	See Lab Manage	No
Consult MSDS	No	See Contract Inf	No

Comments:

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	FBKS001	FPE 04-301	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
2	STRMS002	FPE	250 mL Bottle	<2	Water,	Sample bottle arrived in two bags provided by the customer, not the original two clean bags that it was sent in.
Analysis / Method:		Hg	EPA 1631			
3	STRMS004	FPE 04-301	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
4	STRES002	FPE 04-301	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
5	YDRMS002	FPE 04-301	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
6	CDRMS004	FPE 04-301	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
7	DUPS001	FPE 04-301	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			

Sample Custodian signature

12/21/09
Date

Brooks Rand LLC Chain Of Custody Record

Page 1 of 1

Client: North Jackson Co	Email address: dwitala@northjacksonco.com	Ship to: **Brooks Rand LLC**
Contact: D. Witala	PO #: Eagle	3958 6th Avenue NW
Address: PO Box 218 Marquette, MI 49855	Sampler's signatures:	Seattle, WA 98107
	Fax COC for receipt confirmation? (Y / N)	Phone: 206-632-6206
Phone #: 906 225 6787	Client project ID: EAGLE	Fax: 206-632-6017
Fax #:	BRL project ID:	Email: brl@brooksrand.com
		www.brooksrand.com

For BRL use only	Cooler temp (°C): Ambient	Custody seals present? (Y / N)	Custody seals intact? (Y / N)	Date: 12/21/04	Initials: MQ

	Sample ID	Collection: Date	Collection: Time	Misc: Sampler (initials)	Misc: Matrix type	Misc: # of containers	Misc: Sample field filtered Y/N	Field Preservation: Unpreserved or ice only	Field Preservation: HNO_3	Field Preservation: HCl	Field Preservation: BrCl	Field Preservation: Other (specify)	Analyses required: Trace Hg	Comments
1	FBKS001	12-4-04	0830	PJS	WTR	1	N						x	EAG-1001325
2	STRMS002	"	1500	"	"	"	"						"	EAG-1001319
3	STRMS004	"	1245	"	"	"	"						"	EAG-1001320
4	STRES002	"	1230	"	"	"	"						"	EAG-1001321
5	YDRMS002	"	1545	"	"	"	"						"	EAG-1001322
6	CDRMS004	"	1340	"	"	"	"						"	EAG-1001323
7	DUPS001	↓	—	↓	↓	↓	↓						↓	EAG-1001324
8														
9														
10														

Shipping carrier: Fed Ex # of coolers:

Relinquished by: P Smith	Date: 12/18/04	Time: 1000	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at BRL: MQ	Date: 12/21/04	Time: 900 A

White: LAB COPY **Yellow: CUSTOMER COPY**

BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

January 25, 2005

North Jackson Company
Attn.: Peter Sabee
PO Box 218
1004 Harbor Hills, Suite 102
Marquette, MI 49855

RE: Brooks Rand Project: NJC002; Tracking #: 05BR0115
Lab Services Agreement 101201nj01; Client Project: Eagle

Dear Mr. Sabee:

This report is for the mercury analysis of six water samples collected 12/28/04. These samples were received at Brooks Rand on 12/31/04 and assigned the BRL tracking number 05BR0115.

All samples were received, stored, prepared and analyzed according to Brooks Rand LLC Standard Operating Procedures and EPA Method 1631E. All results were blank corrected, as outlined in the calculations section of EPA Method 1631E. All QA criteria were met and no qualification of the data was required. Brooks Rand certifies that the reported test results meet all requirements of NELAC. Brooks Rand is a NELAC Accredited laboratory (NYS ELAP ID 11688).

If there are any questions please feel free to contact me.

Sincerely,
Elizabeth Madonick

Elizabeth Madonick
Project Manager
elizabeth@brooksrand.com

3958 6th Avenue NW • Seattle, WA 98107 • Phone (206) 632-6206 • Fax (206) 632-6017 • www.brooksrand.com • brl@brooksrand.com

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

P.O.Box 218 *1004 Har*
Marquette MI 49855
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 05BR0115

Lab Services Agreement 101201NJ01
Client Project Eagle

Sample/Sampling/Receiving Info

North Jackson Company — *BRL*

Sample Identification	Sampling Date	Sample Number	Receiving Date
QALM006B	12/28/2004	05BR0115 - 1	12/31/2004
QALM006A	12/28/2004	05BR0115 - 2	12/31/2004
QALM008A	12/28/2004	05BR0115 - 3	12/31/2004
QALM008D	12/28/2004	05BR0115 - 4	12/31/2004
QALM009A	12/28/2004	05BR0115 - 5	12/31/2004
QALM009D	12/28/2004	05BR0115 - 6	12/31/2004

Tuesday, January 25, 2005

Elizabeth Madonick
Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Peter Sabee

P.O.Box 218 *1004 Har*
Marquette MI 49855
Tel: 906-475-9882

Lab Project # NJC002
Lab Tracking # 05BR0115

Lab Services Agreement 101201NJ01
Client Project Eagle

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
QALM006B	05BR0115 - 1	1/13/2005	1/14/2005	05-0013	0.290	ng/L	
QALM006A	05BR0115 - 2	1/13/2005	1/14/2005	05-0013	0.511	ng/L	
QALM008A	05BR0115 - 3	1/13/2005	1/14/2005	05-0013	0.346	ng/L	
QALM008D	05BR0115 - 4	1/13/2005	1/14/2005	05-0013	0.643	ng/L	
QALM009A	05BR0115 - 5	1/13/2005	1/14/2005	05-0013	1.370	ng/L	
QALM009D	05BR0115 - 6	1/13/2005	1/14/2005	05-0013	0.545	ng/L	

Tuesday, January 25, 2005

Elizabeth M. Madonick
Project Manager

Batch Number: 05-0013
Method Number: 1631

Project Number(s): CMX001,NJC001,ADQ001
Instrument ID: BR-06

Date Analyzed: 1/14/05
Analyst Name: JPM

Bias and Precision

Run Type	Name/ID	Final Result	Units	Spike Level	Source Result	% REC	% REC Limit	RPD	RPD Limit	Notes
MS	05BR0125-8	38.8	ng/L	40.10	0.755	94.8	71-125			accept
	05BR0114-1	47.8	ng/L	40.06	6.21	104	71-125			accept
MSD	05BR0125-8	43.3	ng/L	40.22	0.755	106	71-125	10.9	< 24	accept
	05BR0114-1	49.3	ng/L	40.18	6.21	107	71-125	3.18	< 24	accept
OPR	OPR 500 pg	526	pg	500		105	77-123			accept
	OPR 500 pg	516	pg	500		103	77-123			accept
	Trap F Test	425	pg	500		84.9	77-123			accept
	Trap F Test	480	pg	500		95.9	77-123			accept
	OPR 500 pg	548	pg	500		110	77-123			accept
	New A Test	527	pg	500		105	77-123			accept
	New B Test	522	pg	500		104	77-123			accept
	New C Test	532	pg	500		106	77-123			accept
	New D Test	558	pg	500		112	77-123			accept
	New E Test	537	pg	500		107	77-123			accept
	New F Test	523	pg	500		105	77-123			accept
QCS	QCS 1000 pg	993	pg	1000		99.3	77-123			accept

HgGuru ver 3.0 (c) 2003 Brooks Rand LLC

Batch Number: 05-0013
Method Number: 1631

Project Number(s): CMX001,NJC001,ADQ001
Instrument ID: BR-06

Date Analyzed: 1/14/05
Analyst Name: JPM

Calibration

QA Sample Type	Name/ID	Analyzed Result	Units	Spike Level	% REC	% REC Limit	RSD	RSD Limit	Notes
Calibration	25 pg Cal std	24.1	pg	25	96.4	75-125			accept
	100 pg Cal std	101	pg	100	101	75-125			accept
	500 pg Cal std	501	pg	500	100	75-125			accept
	2500 pg Cal std	1,800	pg	2500	72.0	75-125			reject
	10000 pg Cal std	9,780	pg	10000	97.8	75-125			accept
	2500 pg Cal std	2,620	pg	2500	105	75-125			accept
Calibration Factor		0.0000624	pg/PA				3.17	< 15	accept
Calibration Date		1/10/05							

Blank Summary

QA Sample Type	Name/ID	Analyzed Result	Units	Criteria	StDev	StDev Limit	Notes
CB	BB-1	0.994	pg	< 50			accept
	BB-2	2.04	pg	< 50			accept
	BB-3	1.52	pg	< 50			accept
	BB-4	0.956	pg	< 50			accept
	Trap F Test	67.4	pg	< 50			reject
	BB-5	5.28	pg	< 50			reject
Average		1.38	pg	< 25	0.511	< 10	accept
MBA	MB-1 0.5% BrCl	0.167	ng/L	< 0.5			accept
MBB	MB-2 1.0% BrCl	0.304	ng/L	< 0.7			accept
MBC	MB-3 2.0%BrCl	0.574	ng/L	< 1.1			accept

HgGuru ver 3.0 (c) 2003 Brooks Rand LLC

Batch Number: 05-0013
Method Number: 1631

Project Number(s): CMX001,NJC001,ADQ001
Instrument ID: BR-06

Date Analyzed: 1/14/05
Analyst Name: JPM

Comments

MDL=0.1ng/L
PQL=0.25ng/L

Analyst comments:
The analyst noted at the beginning of analysis that gold sand trap F showed an unusual peak shape. After being burned off, the trap was tested with a 500 pg OPR which met applicable criteria. All samples analyzed with trap F were reanalyzed. Results of reanalysis showed no significant difference between samples analyzed with different traps. Original results have been reported.

HgGuru ver 3.0 (c) 2003 Brooks Rand LLC

BROOKS RAND, LLC
3958 6th Avenue, NW Seattle, WA 98107 U.S.A. 206.632.6206

QUALITY ASSURANCE REPORT

Batch:	05-0013
Analysis:	Mercury by EPA 1631.E (CVAFS)
Tracking:	05BR0114, 05BR0115, 05BR0125 & 05BR0128
Project:	CMX001, NJC001 & ADQ001
Matrix:	Water
Batch Size:	19 samples
Analysis Date:	January 14, 2005
Calibration Date:	January 10, 2005

1 **SAMPLE PREPARATION** – Acceptable

2 **CALIBRATION** – Acceptable

3 **CALIBRATION VERIFICATION** – Acceptable

4 **QUALITY CONTROL SAMPLES (QCS)** – Acceptable

5 **BLANKS** – Acceptable

6 **METHOD DUPLICATE ANALYSIS** – Not Applicable

7 **SPIKE / SPIKE DUPLICATE ANALYSIS** – Acceptable

8 **LIMITS OF DETECTION** – Acceptable

9 **OVERALL DATA QUALITY** – Acceptable

No qualification of the data was required based on this review.

I certify that, to the best of my knowledge and belief, the data are reported as true and accurate. The Laboratory Director, or his designee, has authorized release of data contained in this Quality Assurance Report as verified by the following signature(s).

1.25.05

Tressa K. Pearson-Franks
Quality Assurance Associate

Brooks Rand LLC Sample Receiving Log

Tracking # **05BR0115**

Customer:	North Jackson Company
Contact:	Peter Sabee
Project Ref. #:	NJC002
Project Mgr:	Elizabeth Madonick
Collection Date	12/28/2004
QA Level	Standard
Sample Condition	Intact
Shipping container intact?	Yes
Shipping container type:	CARDBOARD BOX
Shipping container temp:	AMBIENT
Shipping container coolant:	N/A
Sample preservation:	0.5% BrCl
Acid lab #	04-321
Hg Concentration:	
Sample storage area:	Cabinet #1
Sample Turnaround Time:	
Contract Turnaround Time:	28 days

Due Date:	1/28/2005
Receiving Date:	12/31/2004
Receiving Time:	9:00 AM
Logged-in by:	Annie Carter
Log-in Date:	12/31/2004
Log-in Time:	10:00 AM
Airbill present?	Yes
Airbill #	792811782329
Carrier:	FED EX
Custody seal present?	Yes
Custody seal intact?	Yes
COC Present?	Yes
COC Number:	N/A
Analysis request form?	No
COC/Sample tag agree?	Yes

See SOW	No	See Project Manage	No
See Mem	No	See Lab Manage	No
Consult MSDS	No	See Contract Inf	No

Comments:

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	QALM006B	04-301	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
2	QALM006A	04-301	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
3	QALM008A	04-301	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
4	QALM008D	04-301	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
5	QALM009A	04-301	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			
6	QALM009D	04-301	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg	EPA 1631			

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:

Sample Custodian signature 12-31-09 Date

BROOKS RAND

TriMatrix Laboratories, Inc.

5560 Corporate Exchange Court SE Grand Rapids, MI 49512
Phone (616) 975-4500 Fax (616) 942-7463
www.trimatrixlabs.com

Chain of Custody Record

COC No. 104843

Page 1 of 1

For Lab Use Only
Cart
VOA Rack/Tray
Receipt Log No.
Project Chemist
Laboratory Project No.

Client Name: North Jackson
Address: P.O. Box 128
Marquette MI 49855
Phone (906) 225-6787
Fax

Project Name: Eagle
Client Project No. / P.O. No.
Invoice To ☐ Client ☒ Other (comments)
Contact/Report To: P. Sabee

Analyses Requested

Turn Hy

Container Type (corresponds to Container Packing List)

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

	Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Number of Containers Submitted	Total	Sample Comments
1				QALM006B		12/28	1530		X	Water	X	1	EAG-1001332
2				QALM006A		12/28	1440						EAG-1001331
3				QALM008A		12/28	1145						EAG-1001333
4				QALM008D		12/28	1155						EAG-1001334
5				QALM009A		12/28	~~1335~~ 1345						EAG-1001335
6				QALM009D		12/28	1555						EAG-1001336
7													
8													
9													
10													

Sampled By (print): PJSabee DWW
Sampler's Signature:

How Shipped? Hand Carrier Fed Exp
Tracking No.

Comments: Bill to Attn Jon Cherry KMC

Company: NJC

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
P Sabee	12/29/04	1000						
1. Received By	**Date**	**Time**	**2. Received By**	**Date**	**Time**	**3. Received For Lab By**	**Date**	**Time**
	12-31-04	0700						

TriMatrixCOC -- COC WHITE COPY - REPORT YELLOW COPY - LABORATORY PINK COPY - FIELD

BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

March 10, 2005

North Jackson Company
Attn.: Peter Sabee
PO Box 218
1004 Harbor Hills, Suite 102
Marquette, MI 49855

RE: Brooks Rand Project: NJC002; Tracking #: 05BR0309
Lab Services Agreement 101201nj01; Client Project: Eagle

Dear Mr. Sabee:

This report is for the mercury analysis of eleven water samples collected 2/15/05 and 2/16/05. These samples were received at Brooks Rand on 2/21/05 and assigned the BRL tracking number 05BR0309.

All samples were received, stored, prepared and analyzed according to Brooks Rand LLC Standard Operating Procedures and EPA Method 1631E. All results were blank corrected, as outlined in the calculations section of EPA Method 1631E. Results above the detection limit and below the quantitation limit are qualified "B" for estimate. All QA criteria were met and no additional qualification of the data was required. Brooks Rand certifies that the reported test results meet all requirements of NELAC. Brooks Rand is a NELAC Accredited laboratory (NYS ELAP ID 11688).

If there are any questions please feel free to contact me.

Sincerely,
Elizabeth Madonick

Elizabeth Madonick
Project Manager
elizabeth@brooksrand.com

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Dan Wiitala

PO Box 218
Marquette MI 49855
Tel: 906.225.6787

Lab Project # NJC002
Lab Tracking # 05BR0309

Lab Services Agreement 101201NJ01
Client Project Eagle

Sample/Sampling/Receiving Info

North Jackson Company

Sample Identification	Sampling Date
CDRAS002	2/15/2005
CDRMS004	2/15/2005
STRWS001	2/15/2005
STRMS004	2/15/2005
STRMS003	2/15/2005
STRES001	2/15/2005
DUPS001	2/15/2005
YDRMS003	2/16/2005
YDRMS002	2/16/2005
STRMS002	2/16/2005
DUPS002	2/16/2005

BRL

Sample Number	Receiving Date
05BR0309 - 1	2/21/2005
05BR0309 - 2	2/21/2005
05BR0309 - 3	2/21/2005
05BR0309 - 4	2/21/2005
05BR0309 - 5	2/21/2005
05BR0309 - 6	2/21/2005
05BR0309 - 7	2/21/2005
05BR0309 - 8	2/21/2005
05BR0309 - 9	2/21/2005
05BR0309 - 10	2/21/2005
05BR0309 - 11	2/21/2005

Monday, March 07, 2005

Elizabeth Madonick
Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Dan Wiitala

PO Box 218
Marquette MI 49855
Tel: 906.225.6787

Lab Project # NJC002
Lab Tracking # 05BR0309

Lab Services Agreement 101201NJ01
Client Project Eagle

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
CDRAS002	05BR0309 - 1	3/3/2005	3/4/2005	05-0118	0.173	ng/L	B
CDRMS004	05BR0309 - 2	3/3/2005	3/4/2005	05-0118	0.776	ng/L	
STRWS001	05BR0309 - 3	3/3/2005	3/4/2005	05-0118	1.330	ng/L	
STRMS004	05BR0309 - 4	3/3/2005	3/4/2005	05-0118	1.160	ng/L	
STRMS003	05BR0309 - 5	3/3/2005	3/4/2005	05-0118	1.220	ng/L	
STRES001	05BR0309 - 6	3/3/2005	3/4/2005	05-0118	0.928	ng/L	
DUPS001	05BR0309 - 7	3/3/2005	3/4/2005	05-0118	1.260	ng/L	
YDRMS003	05BR0309 - 8	3/3/2005	3/4/2005	05-0118	2.580	ng/L	
YDRMS002	05BR0309 - 9	3/3/2005	3/4/2005	05-0118	2.320	ng/L	
STRMS002	05BR0309 - 10	3/3/2005	3/4/2005	05-0118	1.300	ng/L	
DUPS002	05BR0309 - 11	3/3/2005	3/4/2005	05-0118	2.410	ng/L	

Monday, March 07, 2005

Project Manager

BROOKS RAND, LLC
3958 6th Avenue, NW Seattle, WA 98107 U.S.A. 206.632.6206

QUALITY ASSURANCE REPORT

Batch:	05-0118
Analysis:	Mercury by EPA 1631.E (CVAFS)
Tracking:	05BR0309, 05BR0311, 05BR0314, 05BR0315, 05BR0316 & 05BR0345
Project:	NJC002, DWQ002, LOV001, HCL004 & EAC001
Matrix:	Water
Batch Size:	20 samples
Analysis Date:	March 4, 2005
Calibration Date:	February 28, 2005

1 **SAMPLE PREPARATION** – Acceptable

2 **CALIBRATION** – Acceptable

3 **CALIBRATION VERIFICATION** – Acceptable

4 **QUALITY CONTROL SAMPLES (QCS)** – Acceptable

5 **BLANKS** – Acceptable

6 **METHOD DUPLICATE ANALYSIS** – Not Applicable

7 **SPIKE / SPIKE DUPLICATE ANALYSIS** – Acceptable

8 **LIMITS OF DETECTION** – Acceptable

9 **OVERALL DATA QUALITY** – Acceptable

No qualification of the data is required based on this review.

I certify that, to the best of my knowledge and belief, the data are reported as true and accurate. The Laboratory Director, or his designee, has authorized release of data contained in this Quality Assurance Report as verified by the following signature(s).

3.7.05

Tressa K. Pearson-Franks
Quality Assurance Associate

BRL QA Summary

Batch #: **05-0118** ***Method #:*** **EPA 1631.E**

Analyte: **Hg** ***Matrix:*** **Water**

BIAS *Criteria: Recovery = 85-115%*			
Laboratory Control Samples			
LCS ID	***Certified Value ng/L***	***Measured Value ng/L***	***Recovery %***
QCS	10.00	10.62	106.2%

BIAS *Criteria: Recovery = 77-123%*				
Ongoing Precision and Recovery (OPR)				
LCS ID	***Certified Value ng/L***	***Measured Value ng/L***	***Recovery %***	
OPR1	0.25	0.273	109.0%	*
OPR2	5.00	5.22	104.3%	
OPR3	5.00	5.25	104.9%	

* Check of low standard for calibration verification.

BIAS *Criteria: Recovery = 71-125%, RPD<24%*								
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)								
		Matrix Spike			***Matrix Spike Duplicate***			
Sample ID	***Sample Value ng/L***	***Spiked Value ng/L***	***Measured Value ng/L***	***MS Recovery %***	***Spiked Value ng/L***	***Measured Value ng/L***	***MSD Recovery %***	***Duplicate RPD***
05BR0309-06	0.928	4.99	6.41	109.8%	5.02	6.35	108.0%	0.9%
05BR0315-01	6.34	30.1	38.7	107.5%	30.1	37.5	103.7%	3.0%

0.5% BrCl Method Blanks (MB)*			*Criterion: MB < 0.5 ng/L*		**Detection Limits**	
MB1	***MB2***	***MB3***	***Average***	***StDev***	***MB MDL***	***MB PQL***
ng/L	***ng/L***	***ng/L***	***ng/L***	***ng/L***	***ng/L***	***ng/L***
0.255	0.230	0.197	0.217	0.017	0.10	0.25

* 0.5% BrCl MB analyzed in triplicate.

Average MB result multiplied by appropriate factor to produce correction factor for each sample preservation BrCl level.

Concentration of Hg in BrCl shown to be linear over range of 0.5 to 10% BrCl (analyzed 2/7/05).

Results of Linear Regression: $y = 0.3362x + 0.0048$ $R = 0.9998$

3/9/2005

Elizabeth Mednick

Project Manager

Brooks Rand LLC Sample Receiving Log

Tracking # **05BR0309**

Customer: North Jackson Company
Contact: Dan Wiitala
Project Ref. #: NJC002

Collection Date 2/15-2/16/2005
QA Level Standard

Sample Condition Intact
Shipping container intact? Yes

Shipping container type: Cardboard Box
Shipping container temp: 10.5°C
Shipping container coolant: None

Sample preservation: None
Acid lab #
Hg Concentration:
Sample storage area: Cabinet #7

Sample Turnaround Time:
Contract Turnaround Time: 28 days

Comments:

Due Date: 3/21/2005
Receiving Date: 2/21/2005
Receiving Time: 9:00 AM

Logged-in by: Tressa Pearson-Fr
Log-in Date: 2/21/2005
Log-in Time: 11:00 AM

Airbill present? Yes
Airbill # 792208813877
Carrier: FedEx

Custody seal present? No
Custody seal intact? No
COC Present? Yes
COC Number: N/A

Analysis request form? No
COC/Sample tag agree? Yes

See SOW	No	See Project Manage	No
See Mem	No	See Lab Manage	No
Consult MSDS	No	See Contract Inf	No

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	CDRAS002	05-019	250 mL Bottle		Water,	EAG-1001353
Analysis / Method:		Hg	EPA 1631			
2	CDRMS004	04-301	250 mL Bottle		Water,	EAG-1001354
Analysis / Method:		Hg	EPA 1631			
3	STRWS001	05-019	250 mL Bottle		Water,	EAG-1001348
Analysis / Method:		Hg	EPA 1631			
4	STRMS004	05-019	250 mL Bottle		Water,	EAG-1001346
Analysis / Method:		Hg	EPA 1631			
5	STRMS003	05-019	250 mL Bottle		Water,	EAG-1001345
Analysis / Method:		Hg	EPA 1631			
6	STRES001	04-194	500 mL Bottle		Water,	EAG-1001349
Analysis / Method:		Hg	EPA 1631			

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
7	DUPS001	05-019	250 mL Bottle		Water,	EAG-1001355
Analysis / Method:		Hg	EPA 1631			
8	YDRMS003	05-019	250 mL Bottle		Water,	EAG-1001352
Analysis / Method:		Hg	EPA 1631			
9	YDRMS002	05-019	250 mL Bottle		Water,	EAG-1001351
Analysis / Method:		Hg	EPA 1631			
10	STRMS002	05-019	250 mL Bottle		Water,	EAG-1001344
Analysis / Method:		Hg	EPA 1631			
11	DUPS002	05-019	250 mL Bottle		Water,	EAG-1001356
Analysis / Method:		Hg	EPA 1631			

Sample Custodian signature 2.21.05 Date

Brooks Rand LLC Chain Of Custody Record

Page 1 of 2

Client: North Jackson	Email address: dw.italaco@nothjack.com	Ship to: **Brooks Rand LLC**
Contact: Dan Wittala	PO #:	3958 6th Avenue NW
Address: PO Box 218 Marquette, MI 49855	Sampler's signatures: PSJ / Dan Wit	Seattle, WA 98107
	Fax COC for receipt confirmation? (Y / N)	Phone: 206-632-6206
Phone #: 906 225 6787	Client project ID: Eagle	Fax: 206-632-6017
Fax #: 906 225 6769	BRL project ID: NJC002	Email: brl@brooksrand.com
		www.brooksrand.com

For BRL use only	Cooler temp (°C): 10.5	Custody seals present? (Y / N)	Custody seals intact? (Y / N)	Date: 2 21 05	Initials: TP

	Sample ID	Collection: Date	Collection: Time	Miscellaneous: Sampler (initials)	Miscellaneous: Matrix type	Miscellaneous: # of containers	Miscellaneous: Sample field filtered, Y/N	Field Preservation: Unpreserved or ice only	Field Preservation: HNO_3	Field Preservation: HCl	Field Preservation: BrCl	Field Preservation: Other (specify)	Analyses required: Trace Hg	Comments
1	CDRAS002	2-15-05	930	PJS	Wtr	1	N	X					X	EAG-1001353
2	CDRMS004		1030											EAG-1001354
3	STRWS001		1150											EAG-1001348
4	STRMS004		1340											EAG-1001346
5	STRMS003		1450											EAG-1001345
6	STRES001		1540											EAG-1001349
7	DUPS001		—											EAG-1001355
8	YDRMS003	2-16-05	1100	PJS										EAG-1001352
9	YDRMS002		1400											EAG-1001351
10	STRMS002		1600											EAG-1001344

Shipping carrier: Fed Ex # of coolers: 1 Box

Relinquished by: Dan Wit	Date: 2-17-05	Time: 12:00	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at BRL: [illegible]	Date: 2 21 05	Time: 9:00 AM

White: LAB COPY **Yellow: CUSTOMER COPY**

Brooks Rand LLC Chain Of Custody Record

Page 2 of 2

Client: North Jackson	Email address: dwittala@northjackson.com	Ship to: **Brooks Rand LLC**
Contact: Dan Wittala	PO #:	3958 6th Avenue NW
Address: PO Box 218 Marquette, MI 49855	Sampler's signatures:	Seattle, WA 98107
		Phone: 206-632-6206
	Fax COC for receipt confirmation? (Y / N)	Fax: 206-632-6017
Phone #: 906 225 6787	Client project ID: Eagle	Email: brl@brooksrand.com
Fax #: 906 225 6769	BRL project ID: NJC002	www.brooksrand.com

For BRL use only	Cooler temp (°C): 12.3	Custody seals present? (Y / N)	Custody seals intact? (Y / N)	Date: 2 21 05	Initials: TF

	Sample ID	Collection: Date	Collection: Time	Miscellaneous: Sampler (initials)	Miscellaneous: Matrix type	Miscellaneous: # of containers	Miscellaneous: Sample field filtered, Y/N	Field Preservation: Unpreserved or ice only	Field Preservation: HNO_3	Field Preservation: HCl	Field Preservation: BrCl	Field Preservation: Other (specify)	Analyses required: Trace Hg	Analyses required	Analyses required	Analyses required	Analyses required	Analyses required	Comments
1	DUPS002	2-16-05	—	PJS	WTR	1	N	X					X						EAG-1001356
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Shipping carrier: Fedex				# of coolers: 1 Box	
Relinquished by:	Date: 2-17-05	Time: 12:00	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at BRL:	Date: 2.21.05	Time: 9:00 am

White: LAB COPY **Yellow: CUSTOMER COPY**

BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

March 25, 2005

North Jackson Company
Attn.: Peter Sabee
PO Box 218
1004 Harbor Hills, Suite 102
Marquette, MI 49855

RE: Brooks Rand Project: NJC002; Tracking #: 05BR0331
Lab Services Agreement 101201nj01; Client Project: Eagle

Dear Mr. Sabee:

This report is for the mercury analysis of eighteen water samples collected 2/21/05 through 2/23/05. Sample "STRMS001" (05BR0331-1) was listed as "STRMS003" on the chain of custody. Upon notification, the client requested that the sample be identified as "STRMS001". Samples for the dissolved mercury were filtered in the field by the client. These samples were received at Brooks Rand on 2/28/05 and assigned the BRL tracking number 05BR0331.

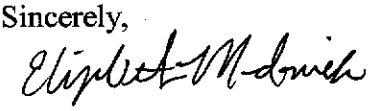
All samples were received, stored, prepared and analyzed according to Brooks Rand LLC Standard Operating Procedures and EPA Method 1631E. All results were blank corrected, as outlined in the calculations section of EPA Method 1631E. The matrix spike duplicate (MSD) recovery for native sample 05BR0334-1 did not meet the acceptance criteria due to a suspect trap. There was insufficient sample volume to reanalyze the MSD on a new trap, however, the matrix spike (MS) yielded an acceptable recovery of 91.2%. All other QA criteria were met, including recoveries within the control limits for two other MS/MSD sets.

Results below the detection level are qualified "U" for non-detect and are reported at the MDL. Results above the detection limit and below the quantitation limit are qualified "B" for estimate. No additional qualification of the data was required. Brooks Rand certifies that the reported test results meet all requirements of NELAC. Brooks Rand is a NELAC Accredited laboratory (NYS ELAP ID 11688).

3958 6th Avenue NW • Seattle, WA 98107 • Phone (206) 632-6206 • Fax (206) 632-6017 • www.brooksrand.com • brl@brooksrand.com

If there are any questions please feel free to contact me.

Sincerely,



Elizabeth Madonick
Project Manager
elizabeth@brooksrand.com

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Dan Wiitala

PO Box 218
Marquette MI 49855
Tel: 906.225.6787

Lab Project # NJC002
Lab Tracking # 05BR0331

Lab Services Agreement 101201NJ01
Client Project Eagle

Sample/Sampling/Receiving Info

North Jackson Company | *BRL*

Sample Identification	Sampling Date	Sample Number	Receiving Date
STRMS001	2/21/05	05BR0331 - 1	2/28/2005
STRES002	2/21/05	05BR0331 - 2	2/28/2005
FBKS001	2/21/05	05BR0331 - 3	2/28/2005
FBKS002	2/21/05	05BR0331 - 4	2/28/2005
STRES006	2/21/05	05BR0331 - 5	2/28/2005
WLDP001	2/22/05	05BR0331 - 6	2/28/2005
WLDP006	2/22/05	05BR0331 - 7	2/28/2005
WLDP016	2/22/05	05BR0331 - 8	2/28/2005
WLDP021	2/22/05	05BR0331 - 9	2/28/2005
QALM005D	2/23/05	05BR0331 - 10	2/28/2005
QALM006A	2/22/05	05BR0331 - 11	2/28/2005
QALM006B	2/22/05	05BR0331 - 12	2/28/2005
QALM010A	2/23/05	05BR0331 - 13	2/28/2005
DUPP001	2/22/05	05BR0331 - 14	2/28/2005
DUPM003	2/23/05	05BR0331 - 15	2/28/2005
QALP016	2/23/05	05BR0331 - 16	2/28/2005
QALP020	2/23/05	05BR0331 - 17	2/28/2005
DUPP004	2/23/05	05BR0331 - 18	2/28/2005

Thursday, August 25, 2005

Elizabeth M Smith
Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Dan Wiitala

PO Box 218
Marquette MI 49855
Tel: 906.225.6787

Lab Project # NJC002
Lab Tracking # 05BR0331

Lab Services Agreement 101201NJ01
Client Project Eagle

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
STRMS001	05BR0331 - 1	3/8/2005	3/10/2005	05-0128	0.831	ng/L	
STRES002	05BR0331 - 2	3/8/2005	3/10/2005	05-0128	1.540	ng/L	
FBKS001	05BR0331 - 3	3/8/2005	3/10/2005	05-0128	0.100	ng/L	U
FBKS002	05BR0331 - 4	3/8/2005	3/10/2005	05-0128	0.100	ng/L	U
STRES006	05BR0331 - 5	3/8/2005	3/10/2005	05-0128	0.576	ng/L	

Friday, March 25, 2005

Elizabeth Madonick
Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Dan Wiitala

PO Box 218
Marquette MI 49855
Tel: 906.225.6787

Lab Project # NJC002
Lab Tracking # 05BR0331

Lab Services Agreement 101201NJ01
Client Project Eagle

Hg, Dissolved

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
WLDP001	05BR0331 - 6	3/8/2005	3/10/2005	05-0128	0.452	ng/L	
WLDP006	05BR0331 - 7	3/8/2005	3/10/2005	05-0128	1.330	ng/L	
WLDP016	05BR0331 - 8	3/8/2005	3/10/2005	05-0128	0.167	ng/L	B
WLDP021	05BR0331 - 9	3/8/2005	3/10/2005	05-0128	0.100	ng/L	U
QALM005D	05BR0331 - 10	3/8/2005	3/10/2005	05-0128	0.208	ng/L	B
QALM006A	05BR0331 - 11	3/8/2005	3/10/2005	05-0128	0.420	ng/L	
QALM006B	05BR0331 - 12	3/8/2005	3/10/2005	05-0128	0.159	ng/L	B
QALM010A	05BR0331 - 13	3/8/2005	3/10/2005	05-0128	0.984	ng/L	
DUPP001	05BR0331 - 14	3/8/2005	3/10/2005	05-0128	0.490	ng/L	
DUPM003	05BR0331 - 15	3/8/2005	3/10/2005	05-0128	0.189	ng/L	B
QALP016	05BR0331 - 16	3/8/2005	3/10/2005	05-0128	0.100	ng/L	U
QALP020	05BR0331 - 17	3/8/2005	3/10/2005	05-0128	0.670	ng/L	
DUPP004	05BR0331 - 18	3/8/2005	3/10/2005	05-0128	0.100	ng/L	U

Monday, July 25, 2005

Elizabeth Madonick
Project Manager

BROOKS RAND, LLC
3958 6th Avenue, NW Seattle, WA 98107 U.S.A. 206.632.6206

QUALITY ASSURANCE REPORT

Batch:	05-0128
Analysis:	Mercury by EPA 1631.E (CVAFS)
Tracking:	05BR0331, 05BR0334 & 05BR0335
Project:	NJC002, H2M002 & LOV001
Matrix:	Water
Batch Size:	20 samples
Analysis Date:	March 10, 2005
Calibration Date:	Match 8, 2005

1 **SAMPLE PREPARATION** – Acceptable

2 **CALIBRATION** – Acceptable

3 **CALIBRATION VERIFICATION** – Acceptable

4 **QUALITY CONTROL SAMPLES (QCS)** – Acceptable

5 **BLANKS** – Acceptable

6 **METHOD DUPLICATE ANALYSIS** – Not Applicable

7 **SPIKE / SPIKE DUPLICATE ANALYSIS** – Acceptable, see Section 9.

8 **LIMITS OF DETECTION** – Acceptable

9 **OVERALL DATA QUALITY** – Acceptable

The MSD analysis for sample **05BR0334-01** did not meet acceptance criteria due to a suspect trap. Further analysis was not possible due to insufficient sample volume. The trap in question was discarded and all samples affected were reanalyzed. An additional spike set was analyzed for data validation purposes, and overall data quality was not impacted.

No qualification of the data is required based on this review.

I certify that, to the best of my knowledge and belief, the data are reported as true and accurate. The Laboratory Director, or his designee, has authorized release of data contained in this Quality Assurance Report as verified by the following signature(s).

3.11.05

Tressa K. Pearson-Franks
Quality Assurance Associate

BRL QA Summary

Batch #: **05-0128** ***Method #:*** **EPA 1631.E**

Analyte: **Hg** ***Matrix:*** **Water**

BIAS *Criteria: Recovery = 85-115%*			
Laboratory Control Samples			
LCS ID	***Certified Value ng/L***	***Measured Value ng/L***	***Recovery %***
QCS	10.00	10.16	101.6%

BIAS *Criteria: Recovery = 77-123%*			
Ongoing Precision and Recovery (OPR)			
LCS ID	***Certified Value ng/L***	***Measured Value ng/L***	***Recovery %***
OPR1	5.00	5.06	101.2%
OPR2	5.00	4.94	98.8%
OPR3	5.00	4.71	94.2%
OPR4	5.00	5.14	102.9%
OPR5	5.00	4.37	87.5%

BIAS *Criteria: Recovery = 71-125%, RPD<24%*								
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)								
		Matrix Spike			***Matrix Spike Duplicate***			
Sample ID	***Sample Value ng/L***	***Spiked Value ng/L***	***Measured Value ng/L***	***MS Recovery %***	***Spiked Value ng/L***	***Measured Value ng/L***	***MSD Recovery %***	***Duplicate RPD***
05BR0331-02	1.54	7.90	9.02	94.7%	7.96	9.47	99.7%	4.9%
05BR0335-01	11.8	37.9	49.6	99.9%	40.5	46.9	86.6%	5.7%
05BR0334-01	21.2	60.8	76.7	91.2%	NA	NA	NA	NA *

* MSD was analyzed using a suspect trap. Further analysis was not possible due to insufficient volume. See QA Report for details.

0.5% BrCl Method Blanks (MB)*			*Criterion: MB < 0.5 ng/L*		**Detection Limits**	
MB1	***MB2***	***MB3***	***Average***	***StDev***	***MB MDL***	***MB PQL***
ng/L	***ng/L***	***ng/L***	***ng/L***	***ng/L***	***ng/L***	***ng/L***
0.317	0.360	0.297	0.325	0.032	0.10	0.25

* 0.5% BrCl MB analyzed in triplicate.

Average MB result multiplied by appropriate factor to produce correction factor for each sample preservation BrCl level.

Concentration of Hg in BrCl shown to be linear over range of 0.5 to 10% BrCl (analyzed 2/7/05).

Results of Linear Regression: $y = 0.3362x + 0.0048$ $R = 0.9998$

3/11/2005

Elizabeth Mdowell

Project Manager

Brooks Rand LLC Sample Receiving Log

Tracking # **05BR0331**

Customer: North Jackson Company
Contact: Peter Sabee
Project Ref. #: NJC002

Collection Date 2/21-2/23/05
QA Level Standard

Sample Condition Intact
Shipping container intact? Yes

Shipping container type: cardboard boxes
Shipping container temp: 11.6°C
Shipping container coolant: none

Sample preservation: none
Acid lab # n/a
Hg Concentration:
Sample storage area: cabinet #7

Sample Turnaround Time:
Contract Turnaround Time: 28 days

Due Date: 3/28/2005
Receiving Date: 2/28/2005
Receiving Time: 8:45 AM

Logged-in by: Christabel Fowler
Log-in Date: 2/28/2005
Log-in Time: 10:00 AM

Airbill present? Yes
Airbill # 791487712639
Carrier: Fed Ex

Custody seal present? No
Custody seal intact? No
COC Present? Yes
COC Number: N/A

Analysis request form? No
COC/Sample tag agree? Yes

See SOW	No	See Project Manage	No
See Mem	No	See Lab Manage	No
Consult MSDS	No	See Contract Inf	No

Comments:

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	STRMS001	05-019	250 mL Bottle		Water,	Label on bottle was STRMS001; label on COC was STRMS003. Contacted the Peter Sabee and Kari Paulson: use bottle label. MJL
Analysis / Method:		Hg	EPA 1631			
2	STRES002	05-019	250 mL Bottle		Water,	
Analysis / Method:		Hg	EPA 1631			
3	FBKS001	05-019	250 mL Bottle		Water,	
Analysis / Method:		Hg	EPA 1631			do not spike
4	FBKS002	05-019	250 mL Bottle		Water,	
Analysis / Method:		Hg	EPA 1631			do not spike
5	STRES006	05-019	250 mL Bottle		Water,	

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
Analysis / Method:		Hg	EPA 1631			
6	WLDP001	05-019	250 mL Bottle		Water,	
Analysis / Method:		Hg, Dissolved	EPA 1631			
7	WLDP006	05-019	250 mL Bottle		Water,	
Analysis / Method:		Hg, Dissolved	EPA 1631			
8	WLDP016	04-301	250 mL Bottle		Water,	
Analysis / Method:		Hg, Dissolved	EPA 1631			
9	WLDP021	04-019	250 mL Bottle		Water,	
Analysis / Method:		Hg, Dissolved	EPA 1631			
10	QALM005D	04-301	250 mL Bottle		Water,	
Analysis / Method:		Hg, Dissolved	EPA 1631			
11	QALM006A	05-019	250 mL Bottle		Water,	
Analysis / Method:		Hg, Dissolved	EPA 1631			
12	QALM006B	05-019	250 mL Bottle		Water,	
Analysis / Method:		Hg, Dissolved	EPA 1631			
13	QALM010A	05-019	250 mL Bottle		Water,	
Analysis / Method:		Hg, Dissolved	EPA 1631			
14	DUPP001	05-019	250 mL Bottle		Water,	
Analysis / Method:		Hg, Dissolved	EPA 1631			
15	DUPM003	05-019	250 mL Bottle		Water,	
Analysis / Method:		Hg, Dissolved	EPA 1631			
16	QALP016	04-301	250 mL Bottle		Water,	
Analysis / Method:		Hg, Dissolved	EPA 1631			
17	QALP020	04-301	250 mL Bottle		Water,	
Analysis / Method:		Hg, Dissolved	EPA 1631			
18	DUPP004	04-301	250 mL Bottle		Water,	
Analysis / Method:		Hg, Dissolved	EPA 1631			

Jennifer Trapnell updated 8/25/05

Sample Custodian signature Date

Brooks Pond

TriMatrix Laboratories, Inc.

5560 Corporate Exchange Court SE Grand Rapids, MI 49512
Phone (616) 975-4500 Fax (616) 942-7463
www.trimatrixlabs.com

Chain of Custody Record

COC No. 2-24-05

Page 1 of 2

For Lab Use Only
Cart:
VOA Rack/Tray:
Receipt Log No.:
Project Chemist:
Laboratory Project No.:

Client Name: North Jackson Company
Address: P.O. Box 218 Marquette MI
Phone: 906 225-6787
Fax:

Project Name: EAGLE
Client Project No. / P.O. No.:
Invoice To: Client ✓ Other (comments)
Contact/Report To: P. Saboe

Analyses Requested

Total Trace Hg
Dissolved Trace Hg

Container Type (corresponds to Container Packing List)
Number of Containers Submitted

Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix										Total	Sample Comments
			1 STRM5003		2-24-05	1450	X		Water	X										EAG-1001343
			2 STRES002		2-21-05	1530	X		W	X										EAG-1001350
			3 FBKS001		2-21-05	1130	X		W	X										EAG-1001359
			4 FBKS002		2-21-05	1150	X		W	X										EAG-1001360
			5 STRES006		2-21-05	1400	X		W	X										EAG-1001361
			6 WLDP001		2-22-05	1530	X		W			X								EAG-1001362
			7 WLDP006		2-22-05	1422	X		W			X								EAG-1001363
			8 WLDP016		2-22-05	1330	X		W			X								EAG-1001364
			9 WLDP021		2-22-05	1150	X		W			X								EAG-1001365
			10 QALM005D		2-23-05	1450	X		W			X								EAG-1001375

Sampled By (print):
Sampler's Signature: P Saboe
Company:

How Shipped? Hand Carrier
Tracking No.:

Comments: Invoice Attn Jon Cherry KMC

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
P Saboe	2-24-05	1500						
1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
						[illegible]	2/28/05	08:45

- A PRESERVATIVES
- A NONE pH~7
- B HNO_3 pH<2
- C H_2SO_4 pH<2
- D 1+1 HCl pH<2
- E NaOH pH>12
- F ZnAc/NaOH pH>9
- G MeOH
- H Other (note below)

Brooks Rand

TriMatrix Laboratories, Inc.

5560 Corporate Exchange Court SE Grand Rapids, MI 49512
Phone (616) 975-4500 Fax (616) 942-7463
www.trimatrixlabs.com

Chain of Custody Record

COC No. 2-24-05

Page 2 of 2

For Lab Use Only
Cart:
VOA Rack/Tray:
Receipt Log No.:
Project Chemist:
Laboratory Project No.:

Client Name: NJC
Address:
Phone:
Fax:

Project Name: Eagle
Client Project No. / P.O. No.:
Invoice To: Client / Other (comments)
Contact/Report To: P. Saber

Analyses Requested: Dissolved Trace Hg

Container Type (corresponds to Container Packing List)

Number of Containers Submitted

Test Group	Matrix Code	Laboratory Sample Number	#	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Total	Sample Comments
			1	QACM006A		2-22-05	1040		X	W	X	EAG-001376
			2	QALM006B		2-22-05	1115		X	W	X	EAG-001377
			3	QACM010A		2-23-05	1200		X	W	X	EAG-001384
			4	DUPP001		2-22-05			X	W	X	EAG-001389
			5	DUPM003		2-23-05			X	W	X	EAG-001391
			6	QALP016		2-23-05	1345		X	W	X	EAG-001386
			7	QACP020		2-23-05	1500		X	W	X	EAG-001388
			8	DUPP004		2-23-05			X	W	X	EAG-001392
			9									
			10									

Sampled By (print): P. Saber
Sampler's Signature: P Saber
Company: NJC

How Shipped? Hand Carrier Fed Ex
Tracking No.:

Comments:

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
P Saber	2-24-05	1500						
1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
						[illegible]	2/28/05	0845

BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

April 11, 2005

North Jackson Company
Attn.: Peter Sabee
PO Box 218
1004 Harbor Hills, Suite 102
Marquette, MI 49855

RE: Brooks Rand Project: NJC002; Tracking #: 05BR0392
Lab Services Agreement 101201nj01; Client Project: Eagle

Dear Mr. Sabee:

This report is for total and dissolved mercury analyses of eight water samples collected 2/24/05 and 3/3/05. These samples were received at Brooks Rand on 3/14/05 and assigned the BRL tracking number 05BR0392.

All samples were received, stored, prepared and analyzed according to Brooks Rand LLC Standard Operating Procedures and EPA Method 1631E. All results were blank corrected, as outlined in the calculations section of EPA Method 1631E. Results above the method detection limit (MDL) and below the practical quantitation limit (PQL) are qualified "B" for estimate. All QA criteria were met and no additional qualification of the data was required. Brooks Rand certifies that the reported test results meet all requirements of NELAC. Brooks Rand is a NELAC Accredited laboratory (NYS ELAP ID 11688).

If there are any questions please feel free to contact me.

Sincerely,

Elizabeth Madonick

Elizabeth Madonick
Project Manager
elizabeth@brooksrand.com

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for

North Jackson Company

Contact: Dan Wiitala

PO Box 218
Marquette MI 49855
Tel: 906.225.6787

Lab Project # NJC002
Lab Tracking # 05BR0392

Lab Services Agreement 101201NJ01
Client Project Eagle

Sample/Sampling/Receiving Info

North Jackson Company | *BRL*

Sample Identification	Sampling Date	Sample Number	Receiving Date
EQBM001	3/3/05	05BR0392 - 1	3/14/2005
EQBM002	3/3/05	05BR0392 - 2	3/14/2005
EQBM003	3/3/05	05BR0392 - 3	3/14/2005
EQBM004	3/3/05	05BR0392 - 4	3/14/2005
DUPM002	2/24/05	05BR0392 - 5	3/14/2005
QALM004A	2/24/05	05BR0392 - 6	3/14/2005
STRMS005	2/24/05	05BR0392 - 7	3/14/2005
QALM005A	2/24/05	05BR0392 - 8	3/14/2005

Monday, April 11, 2005

Elizabeth Madonick
Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Dan Wiitala

PO Box 218
Marquette MI 49855
Tel: 906.225.6787

Lab Project # NJC002
Lab Tracking # 05BR0392

Lab Services Agreement 101201NJ01
Client Project Eagle

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
STRMS005	05BR0392 - 7	3/16/2005	3/17/2005	05-0150	1.110	ng/L	

Monday, April 11, 2005

Elizabeth Madonick
Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Dan Wiitala

PO Box 218
Marquette MI 49855
Tel: 906.225.6787

Lab Project # NJC002
Lab Tracking # 05BR0392

Lab Services Agreement 101201NJ01
Client Project Eagle

Hg, Dissolved

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
EQBM001	05BR0392 - 1	3/16/2005	3/17/2005	05-0150	0.167	ng/L	B
EQBM002	05BR0392 - 2	3/16/2005	3/17/2005	05-0150	0.171	ng/L	B
EQBM003	05BR0392 - 3	3/16/2005	3/17/2005	05-0150	0.164	ng/L	B
EQBM004	05BR0392 - 4	3/16/2005	3/17/2005	05-0150	0.236	ng/L	B
DUPM002	05BR0392 - 5	3/16/2005	3/17/2005	05-0150	0.198	ng/L	B
QALM004A	05BR0392 - 6	3/16/2005	3/17/2005	05-0150	0.191	ng/L	B
QALM005A	05BR0392 - 8	3/16/2005	3/17/2005	05-0150	0.182	ng/L	B

Monday, April 11, 2005

Elizabeth Madonick
Project Manager

BROOKS RAND, LLC
3958 6th Avenue, NW Seattle, WA 98107 U.S.A. 206.632.6206

QUALITY ASSURANCE REPORT

Batch:	05-0150
Analysis:	Mercury by EPA 1631.E (CVAFS)
Tracking:	05BR0392 & 05BR0393
Project:	ARI004 & NJC002
Matrix:	Water
Batch Size:	20 samples
Analysis Date:	March 17, 2005
Calibration Date:	Match 14, 2005

1 **SAMPLE PREPARATION** – Acceptable

2 **CALIBRATION** – Acceptable

3 **CALIBRATION VERIFICATION** – Acceptable

4 **QUALITY CONTROL SAMPLES (QCS)** – Acceptable

5 **BLANKS** – Acceptable

6 **METHOD DUPLICATE ANALYSIS** – Not Applicable

7 **SPIKE / SPIKE DUPLICATE ANALYSIS** – Acceptable

8 **LIMITS OF DETECTION** – Acceptable

9 **OVERALL DATA QUALITY** – Acceptable

No qualification of the data is required based on this review.

I certify that, to the best of my knowledge and belief, the data are reported as true and accurate. The Laboratory Director, or his designee, has authorized release of data contained in this Quality Assurance Report as verified by the following signature(s).

3.18.05

Tressa K. Pearson-Franks
Quality Assurance Associate

BRL QA Summary

Batch #: **05-0150** ***Method #:*** **EPA 1631.E**

Analyte: **Hg** ***Matrix:*** **Water**

BIAS *Criteria: Recovery = 85-115%*			
Laboratory Control Samples			
LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
QCS	10.00	9.55	95.5%

BIAS *Criteria: Recovery = 77-123%*			
Ongoing Precision and Recovery (OPR)			
LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
OPR1	5.00	4.85	97.0%
OPR2	5.00	4.64	92.8%

BIAS *Criteria: Recovery = 71-125%, RPD<24%*								
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)								
		Matrix Spike			*Matrix Spike Duplicate*			
Sample ID	*Sample Value ng/L*	*Spiked Value ng/L*	*Measured Value ng/L*	*MS Recovery %*	*Spiked Value ng/L*	*Measured Value ng/L*	*MSD Recovery %*	*Duplicate RPD*
05BR0393-01	0.992	25.1	23.3	88.8%	25.1	24.5	93.6%	5.0%
05BR0392-01	0.167	2.00	2:17	100.2%	2.01	2.26	103.9%	4.0%

0.5% BrCl Method Blanks (MB)* *Criterion: MB < 0.5 ng/L*					**Detection Limits**	
MB1	*MB2*	*MB3*	*Average*	*StDev*	*MB MDL*	*MB PQL*
ng/L	*ng/L*	*ng/L*	*ng/L*	*ng/L*	*ng/L*	*ng/L*
0.221	0.258	0.251	0.243	0.02	0.10	0.25

0.5% BrCl Method Blanks (MB)* *Criterion: MB < CRRL*					**Detection Limits**	
MB1	*MB2*	*MB3*	*Average*	*StDev*	*CRRL*	
ng/L	*ng/L*	*ng/L*	*ng/L*	*ng/L*	*ng/L*	
8.93	7.02	10.2	8.72	1.61	25.0	**

* 0.5% BrCl MB analyzed in triplicate.
Average MB result multiplied by appropriate factor to produce correction factor for each sample preservation BrCl level.
Concentration of Hg in BrCl shown to be linear over range of 0.5 to 10% BrCl (analyzed 2/7/05).
Results of Linear Regression: y = 0.3362x + 0.0048 R = 0.9998

** Method Blanks analyzed at 1.0 mL due to contract required reporting limit.
These values used to blank correct samples from 05BR0393 only.

3/18/2005

Elizabeth Mcdowell
Project Manager

Brooks Rand LLC Sample Receiving Log

Tracking # **05BR0392**

Customer:	North Jackson Company
Contact:	Peter Sabee
Project Ref. #:	NJC002
Project Mgr:	Elizabeth Madonick
Collection Date	2/24/05 and 3/3/05
QA Level	Standard
Sample Condition	Intact
Shipping container intact?	Yes
Shipping container type:	carboard box
Shipping container temp:	14.8°C
Shipping container coolant:	none
Sample preservation:	none
Acid lab #	n/a
Hg Concentration:	
Sample storage area:	Cabinet #1
Sample Turnaround Time:	
Contract Turnaround Time:	28 days

Due Date:	4/11/2005
Receiving Date:	3/14/2005
Receiving Time:	9:00 AM
Logged-in by:	Christabel Fowler
Log-in Date:	3/14/2005
Log-in Time:	10:00 AM
Airbill present?	Yes
Airbill #	791569859092
Carrier:	Fed Ex
Custody seal present?	Yes
Custody seal intact?	Yes
COC Present?	Yes
COC Number:	N/A
Analysis request form?	No
COC/Sample tag agree?	Yes

See SOW	No	See Project Manage	No
See Mem	No	See Lab Manage	No
Consult MSDS	No	See Contract Inf	No

Comments:

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	EQBM001	05-019	250 mL Bottle		Water,	
Analysis / Method:		Hg, Dissolved	EPA 1631			
2	EQBM002	05-019	250 mL Bottle		Water,	
Analysis / Method:		Hg, Dissolved	EPA 1631			
3	EQBM003	05-019	250 mL Bottle		Water,	
Analysis / Method:		Hg, Dissolved	EPA 1631			
4	EQBM004	05-019	250 mL Bottle		Water,	
Analysis / Method:		Hg, Dissolved	EPA 1631			
5	DUPM002	05-019	250 mL Bottle		Water,	
Analysis / Method:		Hg, Dissolved	EPA 1631			
6	QALM004A	04-103	500 mL Bottle		Water,	
Analysis / Method:		Hg, Dissolved	EPA 1631			

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
7	STRMS005	05-019	250 mL Bottle		Water,	
Analysis / Method:		Hg	EPA 1631			
8	QALM005A	05-019	250 mL Bottle		Water,	
Analysis / Method:		Hg, Dissolved	EPA 1631			

Christabel Fowler 3/14/05

Sample Custodian signature Date

Brooks Rand LLC Chain Of Custody Record

Page 1 of 1

Client: North Jackson	Email address: peter@northjackson.com	Ship to: **Brooks Rand LLC**
Contact: Peter Saber	PO #:	3958 6th Avenue NW
Address: P.O. Box 218 Mang MI 49855	Sampler's signatures:	Seattle, WA 98107
		Phone: 206-632-6206
	Fax COC for receipt confirmation? (Y / N)	Fax: 206-632-6017
Phone #: 906 225 6787	Client project ID: EAGLE	Email: brl@brooksrand.com
Fax #: 6769	BRL project ID: NJC002	www.brooksrand.com

For BRL use only	Cooler temp (°C): 1.8	Custody seals present? (Y / N)	Custody seals intact? (Y / N)	Date: 3/14/05	Initials: CAF

	Sample ID	Collection		Miscellaneous				Field Preservation					Analyses required							Comments
		Date	Time	Sampler (initials)	Matrix type	# of containers	Sample field filtered, Y/N	Unpreserved or ice only	HNO_3	HCl	BrCl	Other (specify)	Trace Hg	Dissolved Trace Hg						
1	EQBM001	3-3-05	0930	PS	W	1	Y	X						X						EAG-1001393
2	EQBM002	"	0940	"	"	1	"	X						X						EAG-1001394
3	EQBM003	"	0950	"	"	1	"	X						X						EAG-1001395
4	EQBM004	↓	1000	↓	↓	1	"	X						X						EAG-1001396
5	DUPM002	2-24-05	—	DWW	W	1	↓	X						X						EAG-1001390
6	QALM004A	2-24-05	1325	"	W	1	Y	X						X						EAG-1001372
7	STRM005	2-24-05	0910	"	W	1	N	X					X							EAG-1001347
8	QALM005A	2-24-05	1230	↓	W	1	Y	X						X						EAG-1001374
9																				
10																				

Shipping carrier: Fed EAP				# of coolers:	
Relinquished by:	Date: 3/10/05	Time: 1400	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at BRL: Christabel Fowler	Date: 3/14/05	Time: 09:00

White: LAB COPY **Yellow: CUSTOMER COPY**

BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

March 22, 2005

North Jackson Company
Attn.: Peter Sabee
PO Box 218
1004 Harbor Hills, Suite 102
Marquette, MI 49855

RE: Brooks Rand Project: NJC002; Tracking #: 05BR0405
Lab Services Agreement 101201nj01; Client Project: Eagle

Dear Mr. Sabee:

This report is for the mercury analysis of fifteen water samples collected 2/25/05, and 3/1/05 through 3/3/05. These samples were received at Brooks Rand on 3/16/05 and assigned the BRL tracking number 05BR0405.

All samples were received, stored, prepared and analyzed according to Brooks Rand LLC Standard Operating Procedures and EPA Method 1631E. All results were blank corrected, as outlined in the calculations section of EPA Method 1631E. Results above the detection limit and below the quantitation limit are qualified "B" for estimate. Results below the detection level are qualified "U" for non-detect and are reported at the MDL. All QA criteria were met and no additional qualification of the data was required. Brooks Rand certifies that the reported test results meet all requirements of NELAC. Brooks Rand is a NELAC Accredited laboratory (NYS ELAP ID 11688).

If there are any questions please feel free to contact me.

Sincerely,

Elizabeth Madonick

Elizabeth Madonick
Project Manager
elizabeth@brooksrand.com

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Dan Wiitala

PO Box 218
Marquette MI 49855
Tel: 906.225.6787

Lab Project # NJC002
Lab Tracking # 05BR0405

Lab Services Agreement 101201NJ01
Client Project Eagle

Sample/Sampling/Receiving Info

North Jackson Company

Sample Identification	Sampling Date
QALP018	3/2/2005
QALP015	3/1/2005
QALM001A	3/1/2005
QALM002A	3/3/2005
QALM002D	3/3/2005
QALM003A	3/1/2005
QALM003B	3/1/2005
QALM004D	2/25/2005
QALM007A	3/1/2005
QALM007D	3/1/2005
QALM008A	2/25/2005
QALM008D	2/25/2005
QALM009A	2/25/2005
QALM009D	2/25/2005
QALM001D	3/2/2005

BRL

Sample Number	Receiving Date
05BR0405 - 1	3/16/2005
05BR0405 - 2	3/16/2005
05BR0405 - 3	3/16/2005
05BR0405 - 4	3/16/2005
05BR0405 - 5	3/16/2005
05BR0405 - 6	3/16/2005
05BR0405 - 7	3/16/2005
05BR0405 - 8	3/16/2005
05BR0405 - 9	3/16/2005
05BR0405 - 10	3/16/2005
05BR0405 - 11	3/16/2005
05BR0405 - 12	3/16/2005
05BR0405 - 13	3/16/2005
05BR0405 - 14	3/16/2005
05BR0405 - 15	3/16/2005

Tuesday, March 22, 2005

Elizabeth Madonick
Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for

North Jackson Company

Contact: Dan Wiitala

PO Box 218
Marquette MI 49855
Tel: 906.225.6787

Lab Project # NJC002
Lab Tracking # 05BR0405

Lab Services Agreement 101201NJ01
Client Project Eagle

Hg, dissolved

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
QALP018	05BR0405 - 1	3/19/2005	3/20/2005	05-0154	0.562	ng/L	
QALP015	05BR0405 - 2	3/19/2005	3/20/2005	05-0154	0.192	ng/L	B
QALM001A	05BR0405 - 3	3/19/2005	3/20/2005	05-0154	0.699	ng/L	
QALM002A	05BR0405 - 4	3/19/2005	3/20/2005	05-0154	0.466	ng/L	
QALM002D	05BR0405 - 5	3/19/2005	3/20/2005	05-0154	0.245	ng/L	B
QALM003A	05BR0405 - 6	3/19/2005	3/20/2005	05-0154	0.473	ng/L	
QALM003B	05BR0405 - 7	3/19/2005	3/20/2005	05-0154	0.223	ng/L	B
QALM004D	05BR0405 - 8	3/19/2005	3/20/2005	05-0154	0.181	ng/L	B
QALM007A	05BR0405 - 9	3/19/2005	3/20/2005	05-0154	0.139	ng/L	B
QALM007D	05BR0405 - 10	3/19/2005	3/20/2005	05-0154	0.100	ng/L	U
QALM008A	05BR0405 - 11	3/19/2005	3/20/2005	05-0154	0.394	ng/L	
QALM008D	05BR0405 - 12	3/19/2005	3/20/2005	05-0154	0.704	ng/L	
QALM009A	05BR0405 - 13	3/19/2005	3/20/2005	05-0154	0.476	ng/L	
QALM009D	05BR0405 - 14	3/19/2005	3/20/2005	05-0154	0.617	ng/L	
QALM001D	05BR0405 - 15	3/19/2005	3/20/2005	05-0154	0.549	ng/L	

Tuesday, March 22, 2005

Elizabeth M-donick
Project Manager

BROOKS RAND, LLC
3958 6th Avenue, NW Seattle, WA 98107 U.S.A. 206.632.6206

QUALITY ASSURANCE REPORT

Batch:	05-0154
Analysis:	Mercury by EPA 1631.E (CVAFS)
Tracking:	05BR0405, 05BR0406 & 05BR0419
Project:	EAC001, NJC001 & NJC002
Matrix:	Water
Batch Size:	20 samples
Analysis Date:	March 20, 2005
Calibration Date:	Match 20, 2005

1 **SAMPLE PREPARATION** – Acceptable

2 **CALIBRATION** – Acceptable

3 **CALIBRATION VERIFICATION** – Acceptable

4 **QUALITY CONTROL SAMPLES (QCS)** – Acceptable

5 **BLANKS** – Acceptable

6 **METHOD DUPLICATE ANALYSIS** – Not Applicable

7 **SPIKE / SPIKE DUPLICATE ANALYSIS** – Acceptable

8 **LIMITS OF DETECTION** – Acceptable

9 **OVERALL DATA QUALITY** – Acceptable

No qualification of the data is required based on this review.

I certify that, to the best of my knowledge and belief, the data are reported as true and accurate. The Laboratory Director, or his designee, has authorized release of data contained in this Quality Assurance Report as verified by the following signature(s).

3.21.05

Tressa K. Pearson-Franks
Quality Assurance Associate

BRL QA Summary

Batch #: **05-0154** ***Method #:*** **EPA 1631.E**

Analyte: **Hg** ***Matrix:*** **Water**

BIAS *Criteria: Recovery = 85-115%*
Laboratory Control Samples

LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
QCS	10.00	10.29	102.9%

BIAS *Criteria: Recovery = 77-123%*
Ongoing Precision and Recovery (OPR)

LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
OPR1	5.00	5.11	102.2%
OPR2	5.00	4.77	95.3%

BIAS *Criteria: Recovery = 71-125%, RPD<24%*
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)

		Matrix Spike			*Matrix Spike Duplicate*			
Sample ID	*Sample Value ng/L*	*Spiked Value ng/L*	*Measured Value ng/L*	*MS Recovery %*	*Spiked Value ng/L*	*Measured Value ng/L*	*MSD Recovery %*	*Duplicate RPD*
05BR0405-01	0.562	2.49	2.99	97.3%	2.50	2.97	96.1%	0.6%
05BR0406-02	6.60	16.0	22.4	98.8%	15.9	21.6	94.4%	3.6%

0.5% BrCl Method Blanks (MB)*			*Criterion: MB < 0.5 ng/L*		**Detection Limits**	
MB1	*MB2*	*MB3*	*Average*	*StDev*	*MB MDL*	*MB PQL*
ng/L	*ng/L*	*ng/L*	*ng/L*	*ng/L*	*ng/L*	*ng/L*
0.305	0.291	0.282	0.293	0.012	0.10	0.25

* 0.5% BrCl MB analyzed in triplicate.

Average MB result multiplied by appropriate factor to produce correction factor for each sample preservation BrCl level.

Concentration of Hg in BrCl shown to be linear over range of 0.5 to 10% BrCl (analyzed 2/7/05).

Results of Linear Regression: $y = 0.3362x + 0.0048$ $R = 0.9998$

3/21/2005

Elizabeth Mudrock

Project Manager

Brooks Rand LLC Sample Receiving Log

Tracking # **05BR0405**

Customer:	North Jackson Company
Contact:	Peter Sabee
Project Ref. #:	NJC002
Project Mgr:	Elizabeth Madonick
Collection Date	2/25-3/3/2005
QA Level	Standard
Sample Condition	Intact
Shipping container intact?	Yes
Shipping container type:	CARDBOARD BOX
Shipping container temp:	14.2°c
Shipping container coolant:	NONE
Sample preservation:	NONE
Acid lab #	
Hg Concentration:	
Sample storage area:	Cabinet #1
Sample Turnaround Time:	
Contract Turnaround Time:	28 days

Due Date:	4/13/2005
Receiving Date:	3/16/2005
Receiving Time:	9:00 AM
Logged-in by:	Annie Carter
Log-in Date:	3/16/2005
Log-in Time:	11:00 AM
Airbill present?	Yes
Airbill #	792228336887
Carrier:	FEDEX
Custody seal present?	Yes
Custody seal intact?	Yes
COC Present?	Yes
COC Number:	N/A
Analysis request form?	No
COC/Sample tag agree?	Yes

See SOW	No	See Project Manage	No
See Mem	No	See Lab Manage	No
Consult MSDS	No	See Contract Inf	No

Comments:

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	QALP018	04-203	500 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			
2	QALP015	05-019	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			
3	QALM001A	05-019	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			
4	QALM002A	05-019	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			
5	QALM002D	04-203	500 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			
6	QALM003A	05-019	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
7	QALM003B	05-019	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			
8	QALM004D	05-019	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			
9	QALM007A	05-019	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			
10	QALM007D	05-019	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			
11	QALM008A	05-019	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			
12	QALM008D	05-019	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			
13	QALM009A	05-019	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			
14	QALM009D	05-019	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			
15	QALM001D	05-019	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			

Sample Custodian signature 5-16 Date

Brooks Rand LLC Chain Of Custody Record

Page 1 of 2

Client: NJC	Email address:	Ship to: **Brooks Rand LLC**
Contact: P Saber	PO #:	3958 6th Avenue NW
Address:	Sampler's signatures: See Next Page	Seattle, WA 98107
		Phone: 206-632-6206
	Fax COC for receipt confirmation? (Y / N)	Fax: 206-632-6017
Phone #: 906 225 6787	Client project ID:	Email: brl@brooksrand.com
Fax #:	BRL project ID: NJC002- EAG-SE Pattridge	www.brooksrand.com

For BRL use only	Cooler temp (°C): 14.2	Custody seals present? (Y) N	Custody seals intact? (Y) N	Date: 3-16-05	Initials:

	Sample ID	Collection: Date	Collection: Time	Misc: Sampler (initials)	Misc: Matrix type	Misc: # of containers	Misc: Sample field filtered, Y/N	Field Preservation: Unpreserved or ice only	Field Preservation: HNO_3	Field Preservation: HCl	Field Preservation: BrCl	Field Preservation: Other (specify)	Analyses required: Trace chlorinated HCs	Comments
1	QALP018	3-2-05	1600	PJS	W	1	Y	X					1	EAG-100138~~7~~
2	QALP015	3-1-05	1545	PJS	W	1	Y	X					1	EAG-100138~~5~~
3	QALM001A	3-1-05	1310	PJS	W	1	Y	X					1	EAG-100136~~6~~
4	QALM002A	3-3-05	1010	PJS	W	1	Y	X					1	EAG-100136~~8~~
5	QALM002D	3-3-05	1300	PJS	W	1	Y	X					1	EAG-100136~~9~~
6	QALM003A	3-1-05	1315	PJS	W	1	Y	X					1	EAG-100137~~0~~
7	QALM003B	3-1-05	1330	PJS	W	1	Y	X					1	EAG-100137~~1~~
8	QALM004D	3-2-05	1054	PJS	W	1	Y	X					1	EAG-100137~~3~~
9	QALM007A	3-1-05	1050	PJS	W	1	Y	X					1	EAG-100137~~8~~
10	QALM007D	3-1-05	1140	PJS	W	1	Y	X						EAG-100137~~9~~

Shipping carrier: Fed Ex

~~# of coolers~~: 1 Box

Relinquished by:	Date: PJS	Time:	Received by:	Date:	Time:
Relinquished by: See Next Page	Date:	Time:	Received at BRL: [signature]	Date: 3-16-05	Time: 0900

White: LAB COPY **Yellow: CUSTOMER COPY**

Brooks Rand LLC Chain Of Custody Record

Client: NJE	Email address:	Ship to: **Brooks Rand LLC**
Contact: P. Saber D. Witale	PO #:	3958 6th Avenue NW
Address: P.O. Box 218 Marquette MI. 49855	Sampler's signatures:	Seattle, WA 98107
	Fax COC for receipt confirmation? (Y / N)	Phone: 206-632-6206
Phone #: 906 225 6782	Client project ID: EAGLE	Fax: 206-632-6017
Fax #:	BRL project ID: NJEOC Eagle	Email: brl@brooksrand.com
		www.brooksrand.com

For BRL use only	Cooler temp (°C): 14 C	Custody seals present? (Y / N)	Custody seals intact? (Y / N)	Date: 3/16/05	Initials: AK

	Sample ID	Collection: Date	Collection: Time	Misc: Sampler (initials)	Misc: Matrix type	Misc: # of containers	Misc: Sample field filtered, Y/N	Field Preservation: Unpreserved or ice only	Field Preservation: HNO_3	Field Preservation: HCl	Field Preservation: BrCl	Field Preservation: Other (specify)	Analyses required: Hg Dissolved	Comments
1	QALM003A	2-28-05	1215	DWW	W	1	Y	X					X	EAG-1001380
2	QALM008D	2-28-05	1230	DWW	W	1	Y	X					X	EAG-1001381
3	QALM009A	2-28-05	1400	DWW	W	1	Y	X					X	EAG-1001382
4	QALM009D	2-28-05	1015	DWW	W	1	Y	X					X	EAG-1001383
5	QALM001D	3-2-05	1512	RJS	W	1	Y	X					X	EAG-1001367
6														
7														
8														
9														
10														

Comments: B.11 to Hg, S. Chem to Hg, Keep cool with Wet Ice, Eagle Comp.

Shipping carrier: Fed Express 7922 2533 6882 — # of coolers: 1 Box

Relinquished by:	Date: 3/16/05	Time: 1107	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at BRL:	Date: 3/16/05	Time: 0900

White: LAB COPY **Yellow: CUSTOMER COPY**

BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

May 3, 2005

North Jackson Company
Attn.: Peter Sabee
PO Box 218
1004 Harbor Hills, Suite 102
Marquette, MI 49855

RE: Brooks Rand Project: NJC002; Tracking #: 05BR0561
Lab Services Agreement 101201nj01; Client Project: Eagle

Dear Mr. Sabee:

This report is for the mercury analysis of twelve water samples collected 4/12/05 through 4/14/05. These samples were received at Brooks Rand on 4/20/05 and assigned the BRL tracking number 05BR0561.

All samples were received, stored, prepared and analyzed according to Brooks Rand LLC Standard Operating Procedures and EPA Method 1631E. All results were blank corrected, as outlined in the calculations section of EPA Method 1631E. Results below the detection level are qualified "U" for non-detect and are reported at the MDL. All QA criteria were met and no additional qualification of the data was required. Brooks Rand certifies that the reported test results meet all requirements of NELAC. Brooks Rand is a NELAC Accredited laboratory (NYS ELAP ID 11688).

If there are any questions please feel free to contact me.

Sincerely,

Elizabeth Madonick

Elizabeth Madonick
Project Manager
elizabeth@brooksrand.com

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Dan Wiitala

PO Box 218
Marquette MI 49855
Tel: 906.225.6787

Lab Project # NJC002
Lab Tracking # 05BR0561

Lab Services Agreement 101201NJ01
Client Project Eagle

Sample/Sampling/Receiving Info

North Jackson Company		*BRL*	
Sample Identification	**Sampling Date**	**Sample Number**	**Receiving Date**
STRMS001	4/13/2005	05BR0561 - 1	4/20/2005
STRMS002	4/13/2005	05BR0561 - 2	4/20/2005
STRMS003	4/14/2005	05BR0561 - 3	4/20/2005
STRMS004	4/14/2005	05BR0561 - 4	4/20/2005
STRMS005	4/13/2005	05BR0561 - 5	4/20/2005
STRWS001	4/14/2005	05BR0561 - 6	4/20/2005
STRES001	4/14/2005	05BR0561 - 7	4/20/2005
YDRMS002	4/12/2005	05BR0561 - 8	4/20/2005
DUPS001	4/12/2005	05BR0561 - 9	4/20/2005
DUPS002	4/13/2005	05BR0561 - 10	4/20/2005
FBKS001	4/13/2005	05BR0561 - 11	4/20/2005
FBKS002	4/14/2005	05BR0561 - 12	4/20/2005

Tuesday, May 03, 2005

Elizabeth M. Madonick
Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for

North Jackson Company

Contact: Dan Wiitala

PO Box 218
Marquette MI 49855
Tel: 906.225.6787

Lab Project # NJC002
Lab Tracking # 05BR0561

Lab Services Agreement 101201NJ01
Client Project Eagle

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
STRMS001	05BR0561 - 1	4/28/2005	4/29/2005	05-0266	1.820	ng/L	
STRMS002	05BR0561 - 2	4/28/2005	4/29/2005	05-0266	3.880	ng/L	
STRMS003	05BR0561 - 3	4/28/2005	4/29/2005	05-0266	3.960	ng/L	
STRMS004	05BR0561 - 4	4/28/2005	4/29/2005	05-0266	3.860	ng/L	
STRMS005	05BR0561 - 5	4/28/2005	4/29/2005	05-0266	5.610	ng/L	
STRWS001	05BR0561 - 6	4/28/2005	4/29/2005	05-0266	4.350	ng/L	
STRES001	05BR0561 - 7	4/28/2005	4/29/2005	05-0266	3.040	ng/L	
YDRMS002	05BR0561 - 8	4/28/2005	4/29/2005	05-0266	6.780	ng/L	
DUPS001	05BR0561 - 9	4/28/2005	4/29/2005	05-0266	7.150	ng/L	
DUPS002	05BR0561 - 10	4/28/2005	4/29/2005	05-0266	4.250	ng/L	
FBKS001	05BR0561 - 11	4/28/2005	4/29/2005	05-0266	0.100	ng/L	U
FBKS002	05BR0561 - 12	4/28/2005	4/29/2005	05-0266	0.100	ng/L	U

Tuesday, May 03, 2005

Elizabeth Madonick
Project Manager

BROOKS RAND, LLC
3958 6th Avenue, NW Seattle, WA 98107 U.S.A. 206.632.6206

QUALITY ASSURANCE REPORT

Batch:	05-0266
Analysis:	Mercury by EPA 1631.E (CVAFS)
Tracking:	05BR0561, 05BR0562 & 05BR0579
Project:	VBC001, NJC002 & MSS001
Matrix:	Water
Batch Size:	20 samples
Analysis Date:	April 29, 2005
Calibration Date:	April 29, 2005

1 **SAMPLE PREPARATION** – Acceptable

2 **CALIBRATION** – Acceptable

3 **CALIBRATION VERIFICATION** – Acceptable

4 **QUALITY CONTROL SAMPLES (QCS)** – Acceptable

5 **BLANKS** – Acceptable

6 **METHOD DUPLICATE ANALYSIS** – Acceptable

7 **SPIKE / SPIKE DUPLICATE ANALYSIS** – Acceptable

8 **LIMITS OF DETECTION** – Acceptable, see section 9

9 **OVERALL DATA QUALITY** – Acceptable

Sample results have been evaluated using sample specific detection limits that have been adjusted to account for sample aliquot size. Refer QA Summary for sample specific detection limits for affected samples.

No qualification of the data is required based on this review.

I certify that, to the best of my knowledge and belief, the data are reported as true and accurate. The Laboratory Director, or his designee, has authorized release of data contained in this Quality Assurance Report as verified by the following signature(s).

5.3.05

Tressa K. Pearson-Franks
Quality Assurance Associate

BRL QA Summary

Batch #: **05-0266** ***Method #:*** **EPA 1631.E**

Analyte: **Hg** ***Matrix:*** **Water**

BIAS *Criteria: Recovery = 75-125%*			
Laboratory Control Samples			
LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
QCS	10.00	10.40	104.0%

BIAS *Criteria: Recovery = 80-120%*			
Ongoing Precision and Recovery (OPR)			
LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
OPR1	5.00	5.23	104.6%
OPR2	5.00	5.43	108.7%
OPR3	5.00	5.22	104.4%
OPR4	5.00	5.55	111.0%

BIAS *Criteria: Recovery = 75-125%, RPD<25%*								
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)								
		Matrix Spike			*Matrix Spike Duplicate*			
Sample ID	*Sample Value ng/L*	*Spiked Value ng/L*	*Measured Value ng/L*	*MS Recovery %*	*Spiked Value ng/L*	*Measured Value ng/L*	*MSD Recovery %*	*Duplicate RPD*
05BR0562-3	5.21	20.6	28.1	110.9%	20.5	28.9	115.2%	2.7%
05BR0579-2	63.2	204	284	108.2%	204	285	108.7%	0.4%
05BR0561-5	5.61	19.8	27.4	110.0%	19.0	26.9	111.9%	1.6%

PRECISION *Criteria: Recovery = RPD≤25% if results >10x MDL*				
Method Duplicate Analysis (MD)				
Sample ID	*Sample Value ng/L*	*Duplicate Value ng/L*	*Average Value ng/L*	*Duplicate RPD*
05BR0562-3	5.21	5.04	5.12	3.3%

0.5% BrCl Method Blanks (MB)* *Criterion: MB < 0.5 ng/L*					**Detection Limits**	
MB1	*MB2*	*MB3*	*Average*	*StDev*	*MB MDL*	*MB PQL*
ng/L	*ng/L*	*ng/L*	*ng/L*	*ng/L*	*ng/L*	*ng/L*
0.180	0.127	0.133	0.147	0.29	0.10	0.25

* 0.5% BrCl MB analyzed in triplicate.
Average MB result multiplied by appropriate factor to produce correction factor for each sample preservation BrCl level.

Sample Specific Detection Limits		
Sample ID	*MDL µg/L*	*PQL µg/L*
05BR0562-3	0.20	0.50
05BR0579-2	1.0	2.5
05BR0579-3	0.21	0.51
05BR0579-4	2.0	5.0

5/3/2005

Elizabeth McDaniel
Project Manager

Brooks Rand LLC Sample Receiving Log

Tracking # 05BR0561

Customer:	North Jackson Company
Contact:	Peter Sabee
Project Ref. #:	NJC002
Project Mgr:	Elizabeth Madonick
Collection Date	4/12-4/14/2005
QA Level	Standard
Sample Condition	Intact
Shipping container intact?	Yes
Shipping container type:	Cardboard Box
Shipping container temp:	Ambient
Shipping container coolant:	None
Sample preservation:	None
Acid lab #	
Hg Concentration:	
Sample storage area:	Cabinet #2
Sample Turnaround Time:	
Contract Turnaround Time:	28 days

Due Date:	5/18/2005
Receiving Date:	4/20/2005
Receiving Time:	8:30 AM
Logged-in by:	Annie Carter
Log-in Date:	4/20/2005
Log-in Time:	12:13 PM
Airbill present?	Yes
Airbill #	791601856480
Carrier:	FedEx
Custody seal present?	Yes
Custody seal intact?	Yes
COC Present?	Yes
COC Number:	N/A
Analysis request form?	No
COC/Sample tag agree?	Yes

See SOW	No	See Project Manage	No
See Mem	No	See Lab Manage	No
Consult MSDS	No	See Contract Inf	No

Comments:

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	STRMS001	05-074	500 mL Bottle		Water,	
Analysis / Method:		Hg	EPA 1631			
2	STRMS002	05-074	250 mL Bottle		Water,	
Analysis / Method:		Hg	EPA 1631			
3	STRMS003	05-074	250 mL Bottle		Water,	
Analysis / Method:		Hg	EPA 1631			
4	STRMS004	05-074	250 mL Bottle		Water,	
Analysis / Method:		Hg	EPA 1631			
5	STRMS005	05-074	250 mL Bottle		Water,	
Analysis / Method:		Hg	EPA 1631			
6	STRWS001	05-074	250 mL Bottle		Water,	
Analysis / Method:		Hg	EPA 1631			

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
7	STRES001	05-074	500 mL Bottle		Water,	
Analysis / Method:		Hg	EPA 1631			
8	YDRMS002	05-074	250 mL Bottle		Water,	
Analysis / Method:		Hg	EPA 1631			
9	DUPS001	05-074	250 mL Bottle		Water,	
Analysis / Method:		Hg	EPA 1631			
10	DUPS002	05-074	250 mL Bottle		Water,	
Analysis / Method:		Hg	EPA 1631			
11	FBKS001	05-074	250 mL Bottle		Water,	
Analysis / Method:		Hg	EPA 1631			Do Not Spike
12	FBKS002	05-074	250 mL Bottle		Water,	
Analysis / Method:		Hg	EPA 1631			Do Not Spike

Sample Custodian signature — Date: 4-20-05

Brooks Rand LLC Chain Of Custody Record

Page 1 of 2

Client: North Jackson	Email address: peter@northjackson.com	Ship to: **Brooks Rand LLC**
Contact: P Saber	PO #: Eagle	3958 6th Avenue NW
Address: Harbor Hills Dr Suite 102 Marquette MI 49855	Sampler's signatures: P Saber / Dan Watts	Seattle, WA 98107
	Fax COC for receipt confirmation? (Y / N)	Phone: 206-632-6206
Phone #: 225-6787	Client project ID: Eagle	Fax: 206-632-6017
Fax #: 225-6769	BRL project ID: NJC002 Eagle	Email: brl@brooksrand.com
		www.brooksrand.com

For BRL use only	Cooler temp (°C): Ambient	Custody seals present? (Y) / N	Custody seals intact? (Y) N	Date: 4-20-05	Initials: AC

	Sample ID	Collection: Date	Collection: Time	Miscellaneous: Sampler (initials)	Miscellaneous: Matrix type	Miscellaneous: # of containers	Miscellaneous: Sample field filtered, Y/N	Field Preservation: Unpreserved or ice only	Field Preservation: HNO_3	Field Preservation: HCl	Field Preservation: BrCl	Field Preservation: Other (specify)	Analyses required: Trace Metals	Comments
1	STRMS001	4-13-05	1300	PJS	RW	1	N	X					X	EAG-100140 1
2	STRMS002	4-13-05	1100	PJS	RW									EAG-100140 2
3	STRMS003	4-14-05	1145	DW	RW									EAG-100140 3
4	STRMS004	4-14-05	0930	DW	RW									EAG-100140 4
5	STRMS005	4-13-05	0920	PJS	RW									EAG-100140 5
6	STRWS001	4-14-05	1045	DW	RW									EAG-100140 6
7	STRES001	4-14-05	1315	DW	RW									EAG-100140 7
8	YORMS002	4-12-05	1315	RTS	RW									EAG-100140 9
9	DUP001	4-12-05	0215	PJS	RW									EAG-100141 3
10	DUPS002	4-13-05	—	PJS	RW	↓	↓	↓					↓	EAG-100141 4

Shipping carrier: Fed Express # of coolers: 1 Box

Relinquished by:	Date: 4-18-05	Time: 1800	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at BRL:	Date: 4-20-05	Time: 0830

White: LAB COPY **Yellow: CUSTOMER COPY**

Brooks Rand LLC Chain Of Custody Record

Client: N. JACKSON	Email address:	Ship to: **Brooks Rand LLC**
Contact:	PO #:	3958 6th Avenue NW
Address: Lyn Prev. p 1-1	Sampler's signatures:	Seattle, WA 98107
		Phone: 206-632-6206
	Fax COC for receipt confirmation? (Y / N)	Fax: 206-632-6017
Phone #:	Client project ID: Eagle	Email: brl@brooksrand.com
Fax #:	BRL project ID: NJC002 Eagle	www.brooksrand.com

For BRL use only	Cooler temp (°C): Ambient	Custody seals present? (Y / N)	Custody seals intact? (Y / N)	Date: 4-20-05	Initials: AC

	Sample ID	Collection: Date	Collection: Time	Misc: Sampler (initials)	Misc: Matrix type	Misc: # of containers	Misc: Sample field filtered, Y/N	Field Preservation: Unpreserved or ice only	Field Preservation: HNO_3	Field Preservation: HCl	Field Preservation: BrCl	Field Preservation: Other (specify)	Analyses required: Trace Total Hg						Comments
1	FBKS001	4-13-05	1045	PJ	W	1	N	X					1							EAG-100 1417
2	FBKS002	4-14-05	1130	PJ	W	1	N	X					1							EAG-100 1418
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Shipping carrier:				# of coolers:	BOX
Relinquished by:	Date: 4-18-05	Time: 1200	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at BRL:	Date: 4/20/05	Time: 0850

White: LAB COPY **Yellow: CUSTOMER COPY**

BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

May 27, 2005

North Jackson Company
Attn.: Peter Sabee
PO Box 218
1004 Harbor Hills, Suite 102
Marquette, MI 49855

RE: Brooks Rand Project: NJC002; Tracking #: 05BR0604
Lab Services Agreement 101201nj01; Client Project: Eagle

Dear Mr. Sabee:

This report is for the mercury analysis of sixteen water samples collected 4/26/05 and 4/27/05. The client filtered the samples in the field. Sample "DUP002" (05BR0604-15) was listed as "DUP001" on the chain-of-custody (COC) form and sample "DUP003" (05BR0604-16) was listed as "DUP002" on the COC. Upon notification, the client requested that the samples be identified as "DUP002" and "DUP003", respectively. These samples were received at Brooks Rand LLC (BRL) on 5/2/05 and assigned the BRL tracking number 05BR0604.

All samples were received, stored, prepared and analyzed according to BRL standard operating procedures (SOPs) and EPA Method 1631E. All results were blank corrected, as outlined in the calculations section of EPA Method 1631E. All QA criteria were met. Sample results below the method detection limit (MDL) were qualified "U" for non-detect and were reported at the MDL. Results above the MDL and below the practical quantitation limit (PQL) were qualified "B" and should be considered an estimate. No additional qualification of the data was required. BRL certifies that the reported test results meet all requirements of NELAC. BRL is a NELAC Accredited laboratory (NYS ELAP ID 11688).

If there are any questions please feel free to contact me.

Sincerely,

Elizabeth Madonick

Elizabeth Madonick
Project Manager
elizabeth@brooksrand.com

3958 6th Avenue NW • Seattle, WA 98107 • Phone (206) 632-6206 • Fax (206) 632-6017 • www.brooksrand.com • brl@brooksrand.com

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Dan Wiitala

PO Box 218
Marquette MI 49855
Tel: 906.225.6787

Lab Project # NJC002
Lab Tracking # 05BR0604

Lab Services Agreement 101201NJ01
Client Project Eagle

Sample/Sampling/Receiving Info

North Jackson Company

Sample Identification	Sampling Date
QALM003A	4/26/2005
QALM003B	4/26/2005
QALM004A	4/27/2005
QALM004D	4/27/2005
QALM005A	4/26/2005
QALM005D	4/26/2005
QALM006A	4/27/2005
QALM006B	4/26/2005
QALM007A	4/26/2005
QALM007D	4/26/2005
QALM008A	4/27/2005
QALM008D	4/27/2005
QALM009A	4/27/2005
QALM010A	4/26/2005
DUPM002	4/27/2005
DUPM003	4/27/2005

BRL

Sample Number	Receiving Date
05BR0604 - 1	5/2/2005
05BR0604 - 2	5/2/2005
05BR0604 - 3	5/2/2005
05BR0604 - 4	5/2/2005
05BR0604 - 5	5/2/2005
05BR0604 - 6	5/2/2005
05BR0604 - 7	5/2/2005
05BR0604 - 8	5/2/2005
05BR0604 - 9	5/2/2005
05BR0604 - 10	5/2/2005
05BR0604 - 11	5/2/2005
05BR0604 - 12	5/2/2005
05BR0604 - 13	5/2/2005
05BR0604 - 14	5/2/2005
05BR0604 - 15	5/2/2005
05BR0604 - 16	5/2/2005

Friday, May 27, 2005

Elizabeth Madonick
Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Dan Wiitala

PO Box 218
Marquette MI 49855
Tel: 906.225.6787

Lab Project # NJC002
Lab Tracking # 05BR0604

Lab Services Agreement 101201NJ01
Client Project Eagle

Hg, dissolved

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
QALM003A	05BR0604 - 1	5/9/2005	5/20/2005	05-0298	0.624	ng/L	
QALM003B	05BR0604 - 2	5/9/2005	5/20/2005	05-0298	0.158	ng/L	B
QALM004A	05BR0604 - 3	5/9/2005	5/20/2005	05-0298	0.100	ng/L	U
QALM004D	05BR0604 - 4	5/9/2005	5/20/2005	05-0298	0.100	ng/L	U
QALM005A	05BR0604 - 5	5/9/2005	5/20/2005	05-0298	0.187	ng/L	B
QALM005D	05BR0604 - 6	5/9/2005	5/20/2005	05-0298	0.100	ng/L	U
QALM006A	05BR0604 - 7	5/9/2005	5/20/2005	05-0298	0.463	ng/L	
QALM006B	05BR0604 - 8	5/9/2005	5/20/2005	05-0298	0.100	ng/L	U
QALM007A	05BR0604 - 9	5/9/2005	5/20/2005	05-0298	0.107	ng/L	B
QALM007D	05BR0604 - 10	5/9/2005	5/20/2005	05-0298	0.236	ng/L	B
QALM008A	05BR0604 - 11	5/9/2005	5/20/2005	05-0298	0.451	ng/L	
QALM008D	05BR0604 - 12	5/9/2005	5/20/2005	05-0298	0.620	ng/L	
QALM009A	05BR0604 - 13	5/9/2005	5/20/2005	05-0298	0.568	ng/L	
QALM010A	05BR0604 - 14	5/9/2005	5/20/2005	05-0298	0.201	ng/L	B
DUPM002	05BR0604 - 15	5/9/2005	5/20/2005	05-0298	0.100	ng/L	U
DUPM003	05BR0604 - 16	5/9/2005	5/20/2005	05-0298	0.100	ng/L	U

Wednesday, June 22, 2005

Elizabeth M Daniels
Project Manager

BROOKS RAND, LLC

3958 6th Avenue, NW Seattle, WA 98107 U.S.A. 206.632.6206

QUALITY ASSURANCE REPORT

Batch:	05-0298
Analysis:	Mercury by EPA 1631 (CVAFS)
Tracking:	05BR0604, 05BR0610 & 05BR0615
Project:	NJC002 & DWQ002
Matrix:	Water
Batch Size:	20 Samples
Analysis Date:	May 20, 2005
Calibration Date:	May 20, 2005

1 **SAMPLE PREPARATION** – Acceptable

2 **CALIBRATION** – Acceptable

3 **CALIBRATION VERIFICATION** – Acceptable

4 **QUALITY CONTROL SAMPLES (QCS)** – Acceptable

5 **BLANKS** – Acceptable

6 **METHOD DUPLICATE ANALYSIS** – Not Applicable

7 **SPIKE / SPIKE DUPLICATE ANALYSIS** – Acceptable

8 **LIMITS OF DETECTION** – Acceptable

9 **OVERALL DATA QUALITY** – Acceptable

No qualification of the data is required based on this review.

I certify that, to the best of my knowledge and belief, the data are reported as true and accurate. The Laboratory Director, or their designee, has authorized release of data contained in this Quality Assurance Report as verified by the following signature(s).

F. McFarland 5/20/05

Frank McFarland
Quality Assurance McFarland

BRL QA Summary

Batch #: **05-0298** ***Method #:*** **EPA 1631.E**

Analyte: **Hg** ***Matrix:*** **Water**

BIAS *Criteria: Recovery = 77-123%*			
Ongoing Precision and Recovery (OPR)			
LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
OPR1	5.00	5.15	103.0%
OPR2	5.00	5.05	101.0%
OPR3	5.00	4.92	98.5%
OPR4	5.00	5.12	102.4%

BIAS *Criteria: Recovery = 85-115%*			
Laboratory Control Samples			
LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
QCS	10.00	9.81	98.1%

BIAS *Criteria: Recovery = 71-125%, RPD<24%*								
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)								
		Matrix Spike			*Matrix Spike Duplicate*			
Sample ID	*Sample Value ng/L*	*Spiked Value ng/L*	*Measured Value ng/L*	*MS Recovery %*	*Spiked Value ng/L*	*Measured Value ng/L*	*MSD Recovery %*	*Duplicate RPD*
05BR0604-1	0.624	2.05	2.58	95.3%	1.97	2.55	97.6%	1.4%
05BR0605-11	0.451	2.13	2.58	99.9%	2.02	2.13	83.0%	19.2%

0.5% BrCl Method Blanks (MB)* *Criterion: 0.5% MB < 0.5 ng/L*					**Detection Limits**	
MB1	*MB2*	*MB3*	*Average*	*StDev*	*MDL*	*PQL*
ng/L	*ng/L*	*ng/L*	*ng/L*	*ng/L*	*ng/L*	*ng/L*
0.187	0.248	0.169	0.201	0.042	0.1	0.25

* 0.5% BrCl MB analyzed in triplicate.
Average MB result multiplied by appropriate factor to produce correction factor for each sample preservation BrCl level.

5/20/2005

Elizabeth M. Donnelly
Project Manager

Brooks Rand LLC Sample Receiving Log

Tracking # **05BR0604**

Customer: North Jackson Company
Contact: Peter Sabee
Project Ref. #: NJC002

Collection Date 4/26 - 4/27/2005
QA Level Standard

Sample Condition Intact
Shipping container intact? Yes

Shipping container type: Cardboard Box
Shipping container temp: Ambient
Shipping container coolant: N/A

Sample preservation:
Acid lab #
Hg Concentration:
Sample storage area: Cabinet #1

Sample Turnaround Time:
Contract Turnaround Time: 28 days

Due Date: 5/30/2005
Receiving Date: 5/2/2005
Receiving Time: 10:30 AM

Logged-in by: Michelle Gauthier
Log-in Date: 5/2/2005
Log-in Time: 12:24 PM

Airbill present? Yes
Airbill # 7910-5457-2312
Carrier: FedEx

Custody seal present? No
Custody seal intact? No
COC Present? Yes
COC Number: N/A

Analysis request form? No
COC/Sample tag agree? No

See SOW	No	See Project Manage	No
See Mem	No	See Lab Manage	No
Consult MSDS	No	See Contract Inf	No

Comments:

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	QALM003A	FPE 05-074	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			
2	QALM003B	FPE 05-035	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			
3	QALM004A	FPE 05-035	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			
4	QALM004D	FPE 05-019	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			
5	QALM005A	FPE 05-074	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			
6	QALM005D	FPE 05-074	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
7	QALM006A	FPE 05-035	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			
8	QALM006B	FPE 05-019	250 mL Bottle		Water,	Sample is orange colored.
Analysis / Method:		Hg, dissolved	EPA 1631			
9	QALM007A	FPE 05-035	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			
10	QALM007D	FPE 05-074	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			
11	QALM008A	FPE 05-035	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			
12	QALM008D	FPE 05-074	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			
13	QALM009A	FPE 05-074	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			
14	QALM010A	FPE 05-074	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			
15	DUPM002	FPE 05-074	250 mL Bottle		Water,	Bottle says DUPM002 (EAG-1001447) COC says DUPM001. Confirmed with client the sample tag is DUPM002.
Analysis / Method:		Hg, dissolved	EPA 1631			
16	DUPM003	FPE 05-035	250 mL Bottle		Water,	Bottle says DUPM003 (EAG-1001448), COC says DUPM002. Confirmed with client the sample tag is DUPM003.
Analysis / Method:		Hg, dissolved	EPA 1631			

5/2/05

Sample Custodian signature Date

Brooks Rand LLC Chain Of Custody Record

Client: North Jackson Co.	Email address: dwittala@northjackson.com	Ship to: **Brooks Rand LLC**
Contact: D. Wittala	PO #: Eagle	3958 6th Avenue NW
Address: PO Box 218 Marquette, MI 49855	Sampler's signatures: P. Sabee K. Mc R	Seattle, WA 98107
	Fax COC for receipt confirmation? (Y / N)	Phone: 206-632-6206
Phone #: 9062256782	Client project ID: Eagle	Fax: 206-632-6017
Fax #: 9062256789	BRL project ID: NJC002	Email: brl@brooksrand.com
		www.brooksrand.com

For BRL use only	Cooler temp (°C): amb	Custody seals present? (Y / N)	Custody seals intact? (Y / N / NA)	Date: 5/2/05	Initials: mlg

	Sample ID	Collection: Date	Collection: Time	Miscellaneous: Sampler (initials)	Miscellaneous: Matrix type	Miscellaneous: # of containers	Miscellaneous: Sample field filtered, Y/N	Field Preservation: Unpreserved or ice only	Field Preservation: HNO_3	Field Preservation: HCl	Field Preservation: BrCl	Field Preservation: Other (specify)	Analyses required: Trace Hg	Comments
1	QALM003A	4-26-05		PJS	WTR	1	Y	X					X	EAG-100 1427
2	QALM003B	4-26	1205	PJS										EAG-100 1428
3	QALM004A	4-27	1125	DWW										EAG-100 1429
4	QALM004D	4-27	1140	DWW										EAG-100 1430
5	QALM005A	4-26	1000	PJS										EAG-100 1431
6	QALM005D	4-26	1115	PJS										EAG-100 1432
7	QALM006A	4-27	1245	DWW										EAG-100 1433
8	QALM006B	4-27	1355	DWW										EAG-100 1434
9	QALM007A	4-26	1415	DWW										EAG-100 1435
10	QALM007D	4-26	1500	DWW	↓	↓	↓	↓					↓	EAG-100 1436

Shipping carrier: Fed Ex				# of coolers: 1 Box	
Relinquished by: P. Sabee	Date: 4-28	Time: 1000	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at BRL: Michelle Hall	Date: 5/2/05	Time: 10:30

White: LAB COPY **Yellow: CUSTOMER COPY**

Brooks Rand LLC Chain Of Custody Record

Page 2 of 2

Client: North Jackson Co.	Email address:	Ship to: **Brooks Rand LLC**
Contact:	PO #:	3958 6th Avenue NW
Address: See p. 1	Sampler's signatures:	Seattle, WA 98107
		Phone: 206-632-6206
	Fax COC for receipt confirmation? (Y / N)	Fax: 206-632-6017
Phone #:	Client project ID:	Email: brl@brooksrand.com
Fax #:	BRL project ID:	www.brooksrand.com

For BRL use only	Cooler temp (°C):	Custody seals present? (Y / N)	Custody seals intact? (Y / N)	Date:	Initials:

	Sample ID	Collection: Date	Collection: Time	Miscellaneous: Sampler (initials)	Miscellaneous: Matrix type	Miscellaneous: # of containers	Miscellaneous: Sample field filtered, Y/N	Field Preservation: Unpreserved or ice only	Field Preservation: HNO_3	Field Preservation: HCl	Field Preservation: BrCl	Field Preservation: Other (specify)	Analyses required: Trace Hg	Analyses required	Analyses required	Analyses required	Analyses required	Analyses required	Comments
1	QALM008A	4-27	1245	PJS	WW	1	Y	X					X						EAG-1001437
2	QALM008D	4-27	1315	PJS															EAG-1001438
3	QALM009A	4-27		PJS															EAG-1001439
4	QALM010A	4-26	1600	PJS															EAG-1001441
5	DUPM~~001~~002	4-27	—	DWW															EAG-1001447
6	DUPM~~002~~003	4-27	—	DWW															EAG-1001448
7	5.3.05 MJL																		
8																			
9																			
10																			

Shipping carrier: # of coolers: 1 Box

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at BRL:	Date: 5/2/05	Time: 10:30

White: LAB COPY **Yellow: CUSTOMER COPY**

BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

May 23, 2005

North Jackson Company
Attn.: Peter Sabee
PO Box 218
1004 Harbor Hills, Suite 102
Marquette, MI 49855

RE: Brooks Rand Project: NJC002; Tracking #: 05BR0605
Lab Services Agreement 101201nj01; Client Project: Eagle

Dear Mr. Sabee:

This report is for the mercury analysis of four water samples collected 4/19/05 and 4/21/05. These samples were received at Brooks Rand on 5/2/05 and assigned the BRL tracking number 05BR0605.

All samples were received, stored, prepared and analyzed according to Brooks Rand LLC standard operating procedures (SOPs) and EPA Method 1631E. All results were blank corrected, as outlined in the calculations section of EPA Method 1631E. All QA criteria were met and no qualification of the data was required. Brooks Rand certifies that the reported test results meet all requirements of NELAC. Brooks Rand is a NELAC Accredited laboratory (NYS ELAP ID 11688).

If there are any questions please feel free to contact me.

Sincerely,

Elizabeth Madonick

Elizabeth Madonick
Project Manager
elizabeth@brooksrand.com

3958 6th Avenue NW • Seattle, WA 98107 • Phone (206) 632-6206 • Fax (206) 632-6017 • www.brooksrand.com • brl@brooksrand.com

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Dan Wiitala

PO Box 218
Marquette MI 49855
Tel: 906.225.6787

Lab Project # NJC002
Lab Tracking # 05BR0605

Lab Services Agreement 101201NJ01
Client Project Eagle

Sample/Sampling/Receiving Info

North Jackson Company		*BRL*	
Sample Identification	**Sampling Date**	**Sample Number**	**Receiving Date**
STRES002	4/19/2005	05BR0605 - 1	5/2/2005
CDRAS002	4/19/2005	05BR0605 - 2	5/2/2005
CDRMS004	4/19/2005	05BR0605 - 3	5/2/2005
YDRMS003	4/21/2005	05BR0605 - 4	5/2/2005

Monday, May 23, 2005

Elizabeth Madonick
Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Dan Wiitala

PO Box 218
Marquette MI 49855
Tel: 906.225.6787

Lab Project # NJC002
Lab Tracking # 05BR0605

Lab Services Agreement 101201NJ01
Client Project Eagle

Hg

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
STRES002	05BR0605 - 1	5/6/2005	5/19/2005	05-0295	1.940	ng/L	
CDRAS002	05BR0605 - 2	5/6/2005	5/19/2005	05-0295	0.476	ng/L	
CDRMS004	05BR0605 - 3	5/6/2005	5/19/2005	05-0295	1.290	ng/L	
YDRMS003	05BR0605 - 4	5/6/2005	5/19/2005	05-0295	2.390	ng/L	

Monday, May 23, 2005

Elizabeth Madonick
Project Manager

BROOKS RAND, LLC
3958 6th Avenue, NW Seattle, WA 98107 U.S.A. 206.632.6206

QUALITY ASSURANCE REPORT

Batch:	05-0343
Analysis:	Mercury by EPA 1631.E (CVAFS)
Tracking:	05BR0647, 05BR0653, 05BR0656, 05BR0657, 05BR0558, 05BR0662, 05BR0663 & 05BR0667
Project:	CMX001, BSK001, LAF001, LOV001, MEL002 & NEL002
Matrix:	Water
Batch Size:	20 samples
Analysis Date:	May 19, 2005
Calibration Date:	May 19, 2005

1 **SAMPLE PREPARATION** – Acceptable

2 **CALIBRATION** – Acceptable

3 **CALIBRATION VERIFICATION** – Acceptable

4 **QUALITY CONTROL SAMPLES (QCS)** – Acceptable

5 **BLANKS** – Acceptable

6 **METHOD DUPLICATE ANALYSIS** – Not Applicable

7 **SPIKE / SPIKE DUPLICATE ANALYSIS** – Acceptable

8 **LIMITS OF DETECTION** – Acceptable, see section 9

9 **OVERALL DATA QUALITY** – Acceptable

Sample results have been evaluated using sample specific or client requested detection limits that have been adjusted to account for sample aliquot size. Refer to the QA Summary for detection limits for affected samples.

No qualification of the data is required based on this review.

I certify that, to the best of my knowledge and belief, the data are reported as true and accurate. The Laboratory Director, or his designee, has authorized release of data contained in this Quality Assurance Report as verified by the following signature(s).

5.20.05

Tressa K. Pearson-Franks
Quality Assurance Associate

BRL QA Summary

Batch #: **05-0295** ***Method #:*** **EPA 1631.E**

Analyte: **Hg** ***Matrix:*** **Water**

BIAS *Criteria: Recovery = 77-123%*			
Ongoing Precision and Recovery (OPR)			
LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
OPR1	5.00	5.27	105.3%
OPR2	5.00	6.06	121.2%
OPR3	5.00	5.32	106.4%

BIAS *Criteria: Recovery = 85-115%*			
Laboratory Control Samples			
LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
QCS	10.00	10.17	101.7%

BIAS *Criteria: Recovery = 71-125%, RPD<24%*								
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)								
		Matrix Spike			*Matrix Spike Duplicate*			
Sample ID	*Sample Value ng/L*	*Spiked Value ng/L*	*Measured Value ng/L*	*MS Recovery %*	*Spiked Value ng/L*	*Measured Value ng/L*	*MSD Recovery %*	*Duplicate RPD*
05BR0601-3	24.5	50.3	84.4	119.1%	50.3	80.7	111.8%	4.5%
05BR0599-1	2.06	4.99	6.92	97.6%	4.99	6.31	85.2%	9.2%

0.5% BrCl Method Blanks (MB)* *Criterion: 0.5% MB < 0.5 ng/L*					**Detection Limits**	
MB1	*MB2*	*MB3*	*Average*	*StDev*	*MDL*	*PQL*
ng/L	*ng/L*	*ng/L*	*ng/L*	*ng/L*	*ng/L*	*ng/L*
0.178	0.234	0.177	0.196	0.033	0.1	0.25

* 0.5% BrCl MB analyzed in triplicate.
Average MB result multiplied by appropriate factor to produce correction factor for each sample preservation BrCl level.

Sample Specific Detection Limits		
Sample ID	*MDL ng/L*	*PQL ng/L*
05BR0601-3	1.0	2.5
05BR0601-5	0.2	0.5
05BR0601-7	0.2	0.5
05BR0601-9	0.2	0.5
05BR0601-11	0.2	0.5

5/20/2005

Project Manager

Brooks Rand LLC Sample Receiving Log

Tracking # **05BR0605**

Customer:	North Jackson Company
Contact:	Peter Sabee
Project Ref. #:	NJC002
Project Mgr:	Elizabeth Madonick
Collection Date	4/19 - 4/21/2005
QA Level	Standard
Sample Condition	Intact
Shipping container intact?	Yes
Shipping container type:	Cardboard Box
Shipping container temp:	Ambient
Shipping container coolant:	N/A
Sample preservation:	N/A
Acid lab #	
Hg Concentration:	
Sample storage area:	Cabinet #1
Sample Turnaround Time:	
Contract Turnaround Time:	28 days

Due Date:	5/30/2005
Receiving Date:	5/2/2005
Receiving Time:	10:30 AM
Logged-in by:	Michelle Gauthier
Log-in Date:	5/2/2005
Log-in Time:	12:45 PM
Airbill present?	Yes
Airbill #	7910-5457-2312
Carrier:	FedEx
Custody seal present?	No
Custody seal intact?	No
COC Present?	Yes
COC Number:	N/A
Analysis request form?	No
COC/Sample tag agree?	Yes

See SOW	No	See Project Manage	No
See Mem	No	See Lab Manage	No
Consult MSDS	No	See Contract Inf	No

Comments:

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	STRES002	Not readable	250 mL Bottle		Water,	
Analysis / Method:		Hg	EPA 1631			
2	CDRAS002	FPE 05-035	250 mL Bottle		Water,	
Analysis / Method:		Hg	EPA 1631			
3	CDRMS004	FPE 05-035	250 mL Bottle		Water,	
Analysis / Method:		Hg	EPA 1631			
4	YDRMS003	FPE 05-019	250 mL Bottle		Water,	
Analysis / Method:		Hg	EPA 1631			

Sample Custodian signature 5/2/05 Date

Brooks Rand LLC Chain Of Custody Record

Page 1 of 1

Client: North Jackson Co	Email address: dwittale@northjacksonco.com	Ship to: **Brooks Rand LLC**
Contact: D. Wittale	PO #:	3958 6th Avenue NW
Address: PO Box 218 Marquette MI 49855	Sampler's signatures: P. Sabee	Seattle, WA 98107
		Phone: 206-632-6206
	Fax COC for receipt confirmation? (Y / N)	Fax: 206-632-6017
Phone #: 906 225 6788	Client project ID: Eagle	Email: brl@brooksrand.com
Fax #: 906 225 6769	BRL project ID: NJC002	www.brooksrand.com

For BRL use only	Cooler temp (°C): amb	Custody seals present? (Y / (N))	Custody seals intact? (Y / N / NA)	Date: 5/2/05	Initials: mls

	Sample ID	Collection: Date	Collection: Time	Misc: Sampler (initials)	Misc: Matrix type	Misc: # of containers	Misc: Sample field filtered, Y/N	Field Preservation: Unpreserved or ice only	Field Preservation: HNO_3	Field Preservation: HCl	Field Preservation: BrCl	Field Preservation: Other (specify)	Analyses required: Trace Hg	Comments
1	STRES002	4-19	1340	PJS	wtr	1	N	X					X	EAG-100408
2	CDRAS002	4-19	1100	PJS	"	"	"	"					"	EAG-100411
3	CDRMS004	4-19	1140	PJS	"	"	"	"					"	EAG-100412
4	YDRMS003	4-21	1100	PJS	"	"	"	"					"	EAG-100 1410
5														
6														
7														
8														
9														
10														

Shipping carrier: Fed Ex				# of coolers: 1 Box	
Relinquished by: P. Sabee	Date: 4-28	Time: 1000	Received by: Michelle Gauthier	Date: 5/2/05	Time: 10:30
Relinquished by:	Date:	Time:	Received at BRL: Michelle Gauthier	Date: 5/2/05	Time: 10:30

White: LAB COPY **Yellow: CUSTOMER COPY**

BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

June 8, 2005

North Jackson Company
Attn.: Peter Sabee
PO Box 218
1004 Harbor Hills, Suite 102
Marquette, MI 49855

RE: Brooks Rand Project: NJC002; Tracking #: 05BR0654
Lab Services Agreement 101201nj01; Client Project: Eagle

Dear Mr. Sabee:

This report is for the mercury analysis of fifteen water samples and four equipment blanks collected 4/28/05 through 5/5/05. These samples were received at Brooks Rand LLC (BRL) on 5/11/05 and assigned the BRL tracking number 05BR0654.

All samples were received, stored, prepared and analyzed according to BRL standard operating procedures (SOPs) and EPA Method 1631E. All results were blank corrected, as outlined in the calculations section of EPA Method 1631E. All QA criteria were met. Sample results below the method detection limit (MDL) were qualified "U" for non-detect and were reported at the MDL. Results above the MDL and below the practical quantitation limit (PQL) were qualified "B" and should be considered an estimate. No additional qualification of the data was required. BRL certifies that the reported test results meet all requirements of NELAC. BRL is a NELAC Accredited laboratory (NYS ELAP ID 11688).

If there are any questions please feel free to contact me.

Sincerely,

Elizabeth Madonick

Elizabeth Madonick
Project Manager
elizabeth@brooksrand.com

3958 6th Avenue NW • Seattle, WA 98107 • Phone (206) 632-6206 • Fax (206) 632-6017 • www.brooksrand.com • brl@brooksrand.com

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Dan Wiitala

PO Box 218
Marquette MI 49855
Tel: 906.225.6787

Lab Project # NJC002
Lab Tracking # 05BR0654

Lab Services Agreement 101201NJ01
Client Project Eagle

Sample/Sampling/Receiving Info

North Jackson Company

Sample Identification	Sampling Date
WLDP001	5/5/2005
WLDP006	5/5/2005
WLDP016	5/4/2005
WLDP021	5/5/2005
QALM001A	4/28/2005
QALM001D	4/28/2005
QALM002A	5/5/2005
QALM002D	5/5/2005
QALM009D	4/28/2005
QALP015	5/3/2005
QALP016	5/3/2005
QALP018	5/3/2005
QALP020	5/3/2005
DUPP001	5/5/2005
DUPP004	5/3/2005
EQBM001	5/3/2005
EQBM002	5/3/2005
EQBM003	5/5/2005
EQBM004	5/5/2005

BRL

Sample Number	Receiving Date
05BR0654 - 1	5/11/2005
05BR0654 - 2	5/11/2005
05BR0654 - 3	5/11/2005
05BR0654 - 4	5/11/2005
05BR0654 - 5	5/11/2005
05BR0654 - 6	5/11/2005
05BR0654 - 7	5/11/2005
05BR0654 - 8	5/11/2005
05BR0654 - 9	5/11/2005
05BR0654 - 10	5/11/2005
05BR0654 - 11	5/11/2005
05BR0654 - 12	5/11/2005
05BR0654 - 13	5/11/2005
05BR0654 - 14	5/11/2005
05BR0654 - 15	5/11/2005
05BR0654 - 16	5/11/2005
05BR0654 - 17	5/11/2005
05BR0654 - 18	5/11/2005
05BR0654 - 19	5/11/2005

Wednesday, June 08, 2005

Elizabeth Madonick
Project Manager

Reported by

Brooks Rand LLC

Contact: Elizabeth Madonick

3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 *Fax: 206-632-6017*

Summary of Results for

North Jackson Company

Contact: Dan Wiitala

PO Box 218
Marquette MI 49855
Tel: 906.225.6787

Lab Project # NJC002
Lab Tracking # 05BR0654

Lab Services Agreement 101201NJ01
Client Project Eagle

Hg, dissolved

Sample Identification	BRL Number	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
WLDP001	05BR0654 - 1	5/19/2005	5/24/2005	05-0345	0.775	ng/L	
WLDP006	05BR0654 - 2	5/19/2005	5/24/2005	05-0345	0.954	ng/L	
WLDP016	05BR0654 - 3	5/19/2005	5/24/2005	05-0345	0.100	ng/L	U
WLDP021	05BR0654 - 4	5/19/2005	5/24/2005	05-0345	2.090	ng/L	
QALM001A	05BR0654 - 5	5/19/2005	5/24/2005	05-0345	0.126	ng/L	B
QALM001D	05BR0654 - 6	5/19/2005	5/24/2005	05-0345	0.683	ng/L	
QALM002A	05BR0654 - 7	5/19/2005	5/24/2005	05-0345	0.581	ng/L	
QALM002D	05BR0654 - 8	5/19/2005	5/24/2005	05-0345	0.344	ng/L	
QALM009D	05BR0654 - 9	5/19/2005	5/24/2005	05-0345	0.125	ng/L	B
QALP015	05BR0654 - 10	5/19/2005	5/24/2005	05-0345	0.125	ng/L	B
QALP016	05BR0654 - 11	5/19/2005	5/24/2005	05-0345	0.103	ng/L	B
QALP018	05BR0654 - 12	5/19/2005	5/24/2005	05-0345	1.120	ng/L	
QALP020	05BR0654 - 13	5/19/2005	5/24/2005	05-0345	0.819	ng/L	
DUPP001	05BR0654 - 14	5/19/2005	5/24/2005	05-0345	0.116	ng/L	B
DUPP004	05BR0654 - 15	5/19/2005	5/24/2005	05-0345	0.136	ng/L	B
EQBM001	05BR0654 - 16	5/19/2005	5/24/2005	05-0345	0.142	ng/L	B
EQBM002	05BR0654 - 17	5/19/2005	5/24/2005	05-0345	0.100	ng/L	U
EQBM003	05BR0654 - 18	5/19/2005	5/24/2005	05-0345	0.100	ng/L	U
EQBM004	05BR0654 - 19	5/19/2005	5/24/2005	05-0345	0.100	ng/L	U

Monday, June 13, 2005

Elizabeth Madonick
Project Manager

BROOKS RAND, LLC
3958 6th Avenue, NW Seattle, WA 98107 U.S.A. 206.632.6206

QUALITY ASSURANCE REPORT

Batch:	05-0345
Analysis:	Mercury by EPA 1631.E (CVAFS)
Tracking:	05BR0654
Project:	NJC002
Matrix:	Water
Batch Size:	19 samples
Analysis Date:	May 24, 2005
Calibration Date:	May 24, 2005

1 **SAMPLE PREPARATION** – Acceptable

2 **CALIBRATION** – Acceptable

3 **CALIBRATION VERIFICATION** – Acceptable

4 **QUALITY CONTROL SAMPLES (QCS)** – Acceptable

5 **BLANKS** – Acceptable

6 **METHOD DUPLICATE ANALYSIS** – Not Applicable

7 **SPIKE / SPIKE DUPLICATE ANALYSIS** – Acceptable

8 **LIMITS OF DETECTION** – Acceptable

9 **OVERALL DATA QUALITY** – Acceptable

No qualification of the data is required based on this review.

I certify that, to the best of my knowledge and belief, the data are reported as true and accurate. The Laboratory Director, or his designee, has authorized release of data contained in this Quality Assurance Report as verified by the following signature(s).

6.2.05

Tressa K. Pearson-Franks
Quality Assurance Associate

BRL QA Summary

Batch #: **05-0345** ***Method #:*** **EPA 1631.E**

Analyte: **Hg** ***Matrix:*** **Water**

BIAS *Criteria: Recovery = 77-123%*			
Ongoing Precision and Recovery (OPR)			
LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
OPR1	5.00	5.42	108.3%
OPR2	5.00	5.35	107.0%
OPR3	5.00	5.36	107.3%
OPR4	5.00	5.44	108.8%

BIAS *Criteria: Recovery = 85-115%*			
Laboratory Control Samples			
LCS ID	*Certified Value ng/L*	*Measured Value ng/L*	*Recovery %*
QCS	10.00	10.00	100.0%

BIAS *Criteria: Recovery = 71-125%, RPD<24%*								
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)								
		Matrix Spike			*Matrix Spike Duplicate*			
Sample ID	*Sample Value ng/L*	*Spiked Value ng/L*	*Measured Value ng/L*	*MS Recovery %*	*Spiked Value ng/L*	*Measured Value ng/L*	*MSD Recovery %*	*Duplicate RPD*
05BR0654-1	0.775	3.92	5.24	114.0%	4.09	5.31	111.0%	1.4%
05BR0654-7	0.581	1.05	1.88	124.1%	1.03	1.85	123.1%	1.8%

0.5% BrCl Method Blanks (MB)* *Criterion: MB < 0.5 ng/L*					**Detection Limits**	
MB1	*MB2*	*MB3*	*Average*	*StDev*	*MB MDL*	*MB PQL*
ng/L	*ng/L*	*ng/L*	*ng/L*	*ng/L*	*ng/L*	*ng/L*
0.410	0.221	0.185	0.272	0.121	0.10	0.25

* 0.5% BrCl MB analyzed in triplicate.
Average MB result multiplied by appropriate factor to produce correction factor for each sample preservation BrCl level.

6/2/2005

Elizabeth Mdnuck
Project Manager

Brooks Rand LLC Sample Receiving Log

Tracking # **05BR0654**

Customer:	North Jackson Company
Contact:	Peter Sabee
Project Ref. #:	NJC002
Project Mgr:	Elizabeth Madonick
Collection Date	4/28-5/5/2005
QA Level	Standard
Sample Condition	Intact
Shipping container intact?	Yes
Shipping container type:	Cardboard Box
Shipping container temp:	Ambient
Shipping container coolant:	None
Sample preservation:	None
Acid lab #	
Hg Concentration:	
Sample storage area:	Cabinet #2
Sample Turnaround Time:	
Contract Turnaround Time:	28 days

Due Date:	6/8/2005
Receiving Date:	5/11/2005
Receiving Time:	8:00 AM
Logged-in by:	Annie Carter
Log-in Date:	5/11/2005
Log-in Time:	9:19 AM
Airbill present?	Yes
Airbill #	790506168156
Carrier:	FedEx
Custody seal present?	Yes
Custody seal intact?	Yes
COC Present?	Yes
COC Number:	N/A
Analysis request form?	No
COC/Sample tag agree?	Yes

See SOW	No	See Project Manage	No
See Mem	No	See Lab Manage	No
Consult MSDS	No	See Contract Inf	No

Comments:

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	WLDP001	04-201	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			
2	WLDP006	05-035	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			
3	WLDP016	04-103	500 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			
4	WLDP021	05-074	500 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			
5	QALM001A	05-074	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			
6	QALM001D	05-035	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
7	QALM002A	05-035	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			
8	QALM002D	05-035	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			
9	QALM009D	05-035	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			
10	QALP015	05-019	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			
11	QALP016	05-035	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			
12	QALP018	05-074	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			
13	QALP020	05-074	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			
14	DUPP001	05-035	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			
15	DUPP004	05-035	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			
16	EQBM001	05-074	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			Do Not Spike
17	EQBM002	05-074	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			Do Not Spike
18	EQBM003	05-074	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			Do Not Spike
19	EQBM004	05-074	250 mL Bottle		Water,	
Analysis / Method:		Hg, dissolved	EPA 1631			Do Not Spike

5-11-05

Sample Custodian signature Date

Brooks Rand LLC Chain Of Custody Record

Page 1 of 2

Client: North Jackson Co.	Email address: dwittale@northjackson.com	Ship to: **Brooks Rand LLC**
Contact: D. Wittale	PO #: Eagle	3958 6th Avenue NW
Address: PO Box 218 Marquette MI 49855	Sampler's signatures: D Wittale P Salmon	Seattle, WA 98107
	Fax COC for receipt confirmation? (Y / N)	Phone: 206-632-6206
Phone #: 906 225 6787	Client project ID: EAGLE	Fax: 206-632-6017
Fax #: 906 225 6769	BRL project ID: NJC002 Eagle	Email: brl@brooksrand.com
		www.brooksrand.com

For BRL use only	Cooler temp (°C):	Custody seals present? (Y) / N)	Custody seals intact? (Y) / N)	Date: 5-11-05	Initials: AC

	Sample ID	Collection: Date	Collection: Time	Miscellaneous: Sampler (initials)	Miscellaneous: Matrix type	Miscellaneous: # of containers	Miscellaneous: Sample field filtered, Y/N	Field Preservation: Unpreserved or ice only	Field Preservation: HNO_3	Field Preservation: HCl	Field Preservation: BrCl	Field Preservation: Other (specify)	Analyses required: Trace Hg	Comments
1	WLDP001	5/5/05	1120	PJS	WT	1	Y	X					X	EAG-100 1419
2	WLDP006	5/5	1040	PJS										EAG-100 1420
3	WLDP016	5/4	1245	~~PJS~~										EAG-100 1421
4	WLDP021	5/5	1330	PJS										EAG-100 1422
5	QALM001A	4/28	1526	PJS										EAG-100 1423
6	QALM001D	4/28	1609	PJS										EAG-100 1424
7	QALM002A	5/5	1130	PJS										EAG-100 1425
8	QALM002D	5/5	1220	PJS										EAG-100 1426
9	QALM009D	4/28	1400	PJS										EAG-100 1440
10	QALP015	5/3	1110	DWW										EAG-100 1442

Shipping carrier: FedEx # of coolers: 1 Box

Relinquished by: P Salmon	Date: 5-10-05	Time: 1200	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at BRL:	Date: 5-11-05	Time: 0800

White: LAB COPY **Yellow: CUSTOMER COPY**

Brooks Rand LLC Chain Of Custody Record

Page 2 of 2

Client: North Jackson Co.	Email address:	Ship to: **Brooks Rand LLC**
Contact:	PO #:	3958 6th Avenue NW
Address: see p. 1	Sampler's signatures: P Gahan D Wintle	Seattle, WA 98107
	Fax COC for receipt confirmation? (Y / N)	Phone: 206-632-6206
Phone #:	Client project ID: Eagle	Fax: 206-632-6017
Fax #:	BRL project ID: NJC002 Eagle	Email: brl@brooksrand.com
		www.brooksrand.com

For BRL use only	Cooler temp (°C): Amb	Custody seals present? (Y) / N	Custody seals intact? (Y) / N	Date: 5-11-05	Initials: AC

	Sample ID	Collection: Date	Collection: Time	Misc: Sampler (initials)	Misc: Matrix type	Misc: # of containers	Misc: Sample field filtered, Y/N	Field Preservation: Unpreserved or ice only	Field Preservation: HNO_3	Field Preservation: HCl	Field Preservation: BrCl	Field Preservation: Other (specify)	Analyses required: Trace Hg	Comments
1	QALP016	5/3	1210	DWW	WTR	1	Y	X					X	EAG-001443
2	QALP018	5/3	1335	DWW	↓	↓	↓	↓					↓	EAG-001444
3	QALP020	5/3	1435	DWW										EAG-001445
4	DUPP001	5/5	—	PJS										EAG-001446
5	DUPP004	5/3	—	DWW										EAG-001449
6	EQBM001	5/3	1000	DWW										EAG-001450
7	EQBM002	5/3	1030	DWW										EAG-001451
8	EQBM003	5/3	0915	PJS										EAG-001452
9	EQBM004	5/5	0930	PJS	↓	↓	↓	↓					↓	EAG-001453
10														

Shipping carrier: FedEx # of coolers:

Relinquished by: P Gahan	Date: 5-9-05	Time: 1700	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at BRL:	Date: 5-11-05	Time: 0820

White: LAB COPY **Yellow: CUSTOMER COPY**

ILLINOIS DEPARTMENT OF NATURAL RESOURCES

Illinois State Geological Survey

Natural Resources Building, 615 East Peabody Drive,
Champaign, Illinois 61820-6964
217/333-4747 • FAX 217/244-7004 • TTY 217/244-6677

ISGS

Isotope Analysis Report

TO: Dan Wiitala
North Jackson Co.
420 Rail Street, P.O. Box 30
Negaunee, MI 49866

FROM: Keith C. Hackley, PhD.
Illinois State Geological Survey
615 E. Peabody
Champaign, IL 61820

Date: 11/18/04

ISGS #	Sample ID	Tritium (TU)	std dev. ±
1416	04EA054A	1.32	0.16
1417	04EA054B	2.23	0.15
1418	04EA054D	7.86	0.21
1419	04EA054E	7.02	0.19

* TU stands for Tritium Unit. One TU is defined as one tritium atom per 10^{18} hydrogen atoms, or 7.088 dpm/ kg H_2O, or 3.193 pCi/ kg H_2O.

Isotope Geochemistry Section

Printed on Recycled Paper

Shipped TO: Keith Hackley
IL State Geological Survey
Natural Resources Bldg
615 E. Peabody Dr. Champaign, IL 61820

9/21/04

Completed

TriMatrix Laboratories, Inc.

5560 Corporate Exchange Court SE Grand Rapids, MI 49512
Phone (616) 975-4500 Fax (616) 942-7463
www.trimatrixlabs.com

Chain of Custody Record

COC No.

Page 1 of 1

For Lab Use Only
Cart
VOA Rack/Tray
Receipt Log No.
Project Chemist
Laboratory Project No.

Client Name: North Jackson CO
Address: 420 Rail St.
Negaunee MI
Phone: 906.475.9865
Fax: .0238
Project Name: EAGLE
Client Project No. / P.O. No.: EAGLE
Invoice To: Call
Client
Other (comments)
Contact/Report To: Dan Wiitala

Analyses Requested

low-level Tritium

Container Type (corresponds to Container Packing List)

Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Number of Containers Submitted (A)	Total	Sample Comments
			1 04EA054A		8-2-04	17:10		x	wtr	1		250ml
			2 04EA054B		8-2-04	20:50		x	wtr	1		"
			3 04EA054D		8-3-04	17:39		x	wtr	1		"
			4 04EA054E		8-3-04	19:30		x	wtr	1		"
			5									
			6									
			7									
			8									
			9									
			10									

A PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Sampled By (print): Dan Wiitala
Sampler's Signature: Dan Watts
Company: North Jackson Co.

How Shipped? Hand Carrier Fed Ex
Tracking No.: 7920 9384 7924

1. Relinquished By	Date	Time
Dan Watts	9-7-2004	18:00

1. Received By	Date	Time
K. Hackley	9/21/04	

2. Relinquished By	Date	Time

2. Received By	Date	Time

3. Relinquished By	Date	Time

3. Received For Lab By	Date	Time

Comments
wtr - groundwater sample, unfiltered
Please run low-level Tritium analysis on each sample. Call if insufficient volume to run separately.

ILLINOIS
DEPARTMENT OF
NATURAL
RESOURCES

Illinois State Geological Survey

Natural Resources Building, 615 East Peabody Drive,
Champaign, Illinois 61820-6964
217/333-4747 • FAX 217/244-7004 • TTY 217/244-6677

1905-2005 ISGS

Isotope Analysis Report

TO: Dan Wiitala
North Jackson Co.
P.O. Box 218
1004 Harbor Hills Dr., Suite 102
Marquette, MI 49855

FROM: Keith C. Hackley, PhD.
Illinois State Geological Survey
615 E. Peabody
Champaign, IL 61820

Date: 1/04/05

ISGS No.	Sample ID	Tritium (TU)	Std dev. ± TU
1434	EAG-1001234	9.08	0.26
1435	EAG-1001235	<0.52	-----
1436	EAG-1001236	8.98	0.23
1437	EAG-1001237	7.07	0.21
1438	EAG-1001242	9.08	0.28
1439	EAG-1001243	12.6	0.24
1440	EAG-1001249	10.3	0.24
1441	EAG-1001250	9.79	0.24
1442	EAG-1001259	10.3	0.24

- TU stands for Tritium Unit. One TU is defined as one tritium atom per 10^{18} hydrogen atoms, or 7.088 dpm/ kg H_2O, or 3.193 pCi/ kg H_2O.

Isotope Geochemistry Section

Revealing the Past, Discovering the Future

Printed on Recycled Paper

Submitted to: IL State Geological Survey
Attn: Keith Hackley
Natural Resources Bldg.
615 E. Peabody Drive
Champaign, IL
61820-6964
217.244.2354

TriMatrix Laboratories, Inc.

5560 Corporate Exchange Court SE Grand Rapids, MI 49512
Phone (616) 975-4500 Fax (616) 942-7463
www.trimatrixlabs.com

Chain of Custody Record

COC No.

Page 1 of 1

For Lab Use Only
Cart
VOA Rack/Tray
Receipt Log No.
Project Chemist
Laboratory Project No.

Client Name: North Jackson Co
Address: 420 Rail St
Negaunee, MI 49866
Phone 906.475.7865
Fax 906.475.0238

Project Name: EAGLE
Client Project No. / P.O. No.
Invoice To: Client / Other (comments)
Contact/Report To: Dan Wiitala-NJC

Analyses Requested

Container Type (corresponds to Container Packing List)

Number of Containers Submitted

Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Number of Containers Submitted	Total	Sample Comments
			1 QALMOOKA/EAG-1001234	TM03779	10-19	1630		X	GW	1	1	Low-level Tritium
			2 QALMOO4Q/EAG-1001235		10-3	1530		X	GW	1	1	Analyses
			3 QALMOO5A/EAG-1001236		10-20	0915		X	GW	1	1	on all
			4 QALMOO5D/EAG-1001237		10-20	0945		X	GW	1	1	SAMPLES
			5 QALMOO8A/EAG-1001242		11-3	1225		X	GW	1	1	(cap slightly loose) KH 11/15/04
			6 QALMOO8D/EAG-1001243		11-3	1300		X	GW	1	1	
			7 QALP018/EAG-1001249		10-20	1610		X	GW	1	1	(cap a little loose - noticed water droplets around top of bottle) KH 11/15/04 AM
			8 QALP020/EAG-1001250		10-21	1545		X	GW	1	1	
			9 DUPP004/EAG-1001259					X	GW	1	1	
			10									

Sampled By (print): Peter Kerr / Peter Shoe
Sampler's Signature
Company: North Jackson Co.

How Shipped? Hand Carrier FedEx
Tracking No. 7903 3567 6211

Comments: 1. Invoice to Kennecott Minerals Co.

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
	11-11-04	1600						
1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
KH	11/12/04							

Preservatives: A NONE pH~7; B HNO_3 pH<2; C H_2SO_4 pH<2; D 1+1 HCl pH<2; E NaOH pH>12; F ZnAc/NaOH pH>9; G MeOH; H Other (note below)

Date: December 18, 2002

To: Peter Sabee

From: Powell, John

Total Pages: 8

STL
Committed to Your Success

STL St. Louis
13715 Rider Trail North
Earth City, Missouri 63045
Telephone: 314-298-8566
Fax: 314-298-8757

Fax Transmission

Subject: Gross alpha/beta results

Message

Laboratory Control Sample Report

Severn Trent Laboratories - Radiochemistry

Client Lot ID: F2K070109
Matrix: WATER

Parameter	Spike Amount	Result	Total Uncert. (2 σ+/-)	MDC	% Yld	% Rec	Lab Sample ID QC Control Limits
GROSS A/B BY GFPC EPA 900.0 MOD		**pCi/L**		**900.0 MOD**			**F2K110000-157C**
Gross Alpha	49.5	45.3	5.4	0.7		92	(63 - 139)
	Batch #:	2315157		**Analysis Date:**	11/15/02		
GROSS A/B BY GFPC EPA 900.0 MOD		**pCi/L**		**900.0 MOD**			**F2K110000-157C**
Gross Beta	95.5	97	10	2		101	(79 - 116)
	Batch #:	2315157		**Analysis Date:**	11/15/02		

NOTE(S)

MDC is determined by instrument performance only
Calculations are performed before rounding to avoid round-off error in calculated results

Client Sample ID: YDR002

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F2K070109-004
Work Order: FCJ15
Matrix: WATER

Date Collected: 11/05/02 0000
Date Received: 11/06/02 0845

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD				pCi/L	900.0 MOD			
Gross Alpha	0.50	U	0.56	0.83	11/11/02	11/15/02	2315157	
Gross Beta	1.2	U	1.1	1.9	11/11/02	11/15/02	2315157	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

U Result is less than the sample detection limit.

METHOD BLANK REPORT

Severn Trent Laboratories - Radiochemistry

Client Lot ID: F2K070109
Matrix: WATER

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Lab Sample ID Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD			pCi/L	900.0 MOD			F2K110000-157B	
Gross Alpha	1.05	J	0.57	0.70	11/11/02	11/15/02	2315157	
Gross Beta	0.8	U	1.1	1.8	11/11/02	11/15/02	2315157	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined using instrument performance only
Bold results are greater than the MDC

J Result is greater than sample detection limit but less than stated reporting limit.
U Result is less than the sample detection limit.

Client Sample ID: YDR001

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F2K070109-003
Work Order: FCJ14
Matrix: WATER

Date Collected: 11/05/02 0000
Date Received: 11/06/02 0845

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD			pCi/L		900.0 MOD			
Gross Alpha	0.68	U	0.93	1.5	11/11/02	11/15/02	2315157	
Gross Beta	1.1	U	1.2	1.9	11/11/02	11/15/02	2315157	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Client Sample ID: DUPLICATE

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F2K070109-005
Work Order: FCJ16
Matrix: WATER

Date Collected: 11/05/02 0000
Date Received: 11/06/02 0845

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD			**pCi/L**		**900.0 MOD**			
Gross Alpha	0.79	U	0.60	0.84	11/11/02	11/15/02	2315157	
Gross Beta	1.1	U	1.2	1.9	11/11/02	11/15/02	2315157	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC
U Result is less than the sample detection limit.

Client Sample ID: STR002

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F2K070109-002
Work Order: FCJ13
Matrix: WATER

Date Collected: 11/05/02 0000
Date Received: 11/06/02 0845

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD				pCi/L	900.0 MOD			
Gross Alpha	0.62	U	0.79	1.3	11/11/02	11/15/02	2315157	
Gross Beta	1.2	U	1.2	1.9	11/11/02	11/15/02	2315157	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Client Sample ID: STR001

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F2K070109-001
Work Order: FCJ12
Matrix: WATER

Date Collected: 11/05/02 0000
Date Received: 11/06/02 0845

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD				**pCi/L**	**900.0 MOD**			
Gross Alpha	0.25	U	0.61	1.1	11/11/02	11/15/02	2315157	
Gross Beta	3.8	J	1.3	**1.9**	**11/11/02**	**11/15/02**	**2315157**	

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

J Result is greater than sample detection limit but less than stated reporting limit.
U Result is less than the sample detection limit.

SEVERN TRENT STL

ANALYTICAL REPORT

PROJECT NO. Yellow Dog

Radiological Analysis

Lot #: F3B270266

Dan Wiitala

North Jackson Company
420 Rail Street
Negaunee, MI 49866

SEVERN TRENT LABORATORIES, INC.

Billy Tierney
Project Manager

March 10, 2003

Severn Trent Laboratories, Inc.
STL St. Louis • 13715 Rider Trail North, Earth City, MO 63045
Tel 314 298 8566 Fax 314 298 8757 • *www.stl-inc.com*

A part of Severn Trent plc

Case Narrative
LOT NUMBER: **F3B270266**

This report contains the analytical results for the five samples received under chain of custody by STL St. Louis on February 27, 2003. These samples are associated with your Radiological Analysis project.

All applicable quality control procedures met method-specified acceptance criteria.

This report is incomplete without the case narrative. All chemical analysis results are based upon sample as received, wet weight, unless noted otherwise. All radiochemistry results are based upon sample as dried and ground with the exception of tritium, unless requested wet weight by the client.

Observations/Nonconformances

Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

There are no conformance issues associated with the analysis of these samples.

METHODS SUMMARY

F3B270266

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Gross Alpha/Beta by GFPC Th230/Sr90-Y90 cal	EPA 900.0 MOD	

References:

EPA "EASTERN ENVIRONMENTAL RADIATION FACILITY RADIOCHEMISTRY PROCEDURES MANUAL" US EPA EPA 520/5-84-006 AUGUST 1984

SAMPLE SUMMARY

F3B270266

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
FJA54	001	STR001	02/25/03	14:00
FJA56	002	STR002	02/25/03	12:00
FJA59	003	YDR001	02/26/03	14:00
FJA6E	004	YDR002	02/26/03	12:00
FJA6F	005	DUPLICATE	02/26/03	12:00

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

COD SALES

Client Sample ID: STR001

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F3B270266-001
Work Order: FJA54
Matrix: WATER

Date Collected: 02/25/03 1400
Date Received: 02/27/03 0950

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD				**pCi/L**	**900.0 MOD**			
Gross Alpha	-0.24	U	0.57	1.1	03/03/03	03/07/03	3062391	
Gross Beta	-1.4	U	1.2	2.2	03/03/03	03/07/03	3062391	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC
U Result is less than the sample detection limit.

COD SALES

Client Sample ID: STR002

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F3B270266-002
Work Order: FJA56
Matrix: WATER

Date Collected: 02/25/03 1200
Date Received: 02/27/03 0950

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD				**pCi/L**	**900.0 MOD**			
Gross Alpha	0.28	U	0.67	1.2	03/03/03	03/07/03	3062391	
Gross Beta	1.2	U	1.1	1.9	03/03/03	03/07/03	3062391	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC
U Result is less than the sample detection limit.

COD SALES

Client Sample ID: YDR001

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F3B270266-003
Work Order: FJA59
Matrix: WATER

Date Collected: 02/26/03 1400
Date Received: 02/27/03 0950

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD				**pCi/L**	**900.0 MOD**			
Gross Alpha	0.60	U	0.66	1.0	03/03/03	03/07/03	3062391	
Gross Beta	**3.4**	**J**	**1.2**	**1.8**	**03/03/03**	**03/07/03**	**3062391**	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

J Result is greater than sample detection limit but less than stated reporting limit.

U Result is less than the sample detection limit.

COD SALES

Client Sample ID: YDR002

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F3B270266-004
Work Order: FJA6E
Matrix: WATER

Date Collected: 02/26/03 1200
Date Received: 02/27/03 0950

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD				**pCi/L**	**900.0 MOD**			
Gross Alpha	0.84	U	0.66	0.95	03/03/03	03/07/03	3062391	
Gross Beta	1.6	U	1.1	1.8	03/03/03	03/07/03	3062391	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC
U Result is less than the sample detection limit.

COD SALES

Client Sample ID: DUPLICATE

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F3B270266-005
Work Order: FJA6F
Matrix: WATER

Date Collected: 02/26/03 1200
Date Received: 02/27/03 0950

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD				**pCi/L**	**900.0 MOD**			
Gross Alpha	0.75	U	0.69	1.0	03/03/03	03/07/03	3062391	
Gross Beta	1.0	U	1.1	1.8	03/03/03	03/07/03	3062391	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC
U Result is less than the sample detection limit.

METHOD BLANK REPORT

Severn Trent Laboratories - Radiochemistry

Client Lot ID: F3B270266
Matrix: WATER

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Lab Sample ID Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD			**pCi/L**	**900.0 MOD**			**F3C030000-391B**	
Gross Alpha	0.30	U	0.44	0.74	03/03/03	03/07/03	3062391	
Gross Beta	-0.4	U	1.0	1.7	03/03/03	03/07/03	3062391	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined using instrument performance only
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Laboratory Control Sample Report

Severn Trent Laboratories - Radiochemistry

Client Lot ID: F3B270266
Matrix: WATER

Parameter	Spike Amount	Result	Total Uncert. (2 σ+/-)	MDC	% Yld	% Rec	Lab Sample ID QC Control Limits
GROSS A/B BY GFPC EPA 900.0 MOD		**pCi/L**		**900.0 MOD**			**F3C030000-391C**
Gross Alpha	49.5	52.4	6.2	0.8		106	(63 - 139)
	Batch #:	3062391		**Analysis Date:**	03/07/03		
GROSS A/B BY GFPC EPA 900.0 MOD		**pCi/L**		**900.0 MOD**			**F3C030000-391C**
Gross Beta	95.5	104	11	2		109	(79 - 116)
	Batch #:	3062391		**Analysis Date:**	03/07/03		

NOTE(S)

MDC is determined by instrument performance only
Calculations are performed before rounding to avoid round-off error in calculated results

SEVERN TRENT STL

STL St. Louis
13715 Rider Trail North
Earth City, MO 63045

Tel: 314 298 8566 Fax: 314 298 8757
www.stl-inc.com

ANALYTICAL REPORT

Eagle Minerals

Lot #: F5C160110

Dan Wiitala

North Jackson Company
420 Rail Street
Negaunee, MI 49866

SEVERN TRENT LABORATORIES, INC.

Billy Tierney
Project Manager

March 28, 2005

Case Narrative
LOT NUMBER: F5C160110

This report contains the analytical results for the 15 samples received under chain of custody by STL St. Louis on March 16, 2005. These samples are associated with your Kennecott Lakeview, MN project.

The analytical results included in this report meet all applicable quality control procedure requirements.

The test results in this report meet all NELAP requirements for parameters in which accreditations are held by STL St. Louis. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

All chemical analysis results are based upon sample as received, wet weight, unless noted otherwise. All radiochemistry results are based upon sample as dried and ground with the exception of tritium, unless requested wet weight by the client.

Observations/Nonconformances

Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

There are no conformance issues associated with the analysis of these samples.

METHODS SUMMARY

F5C160110

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Gross Alpha/Beta by GFPC	EPA 900.0 MOD	EPA 900.0

References:

EPA "EASTERN ENVIRONMENTAL RADIATION FACILITY RADIOCHEMISTRY PROCEDURES MANUAL" US EPA EPA 520/5-84-006 AUGUST 1984

SAMPLE SUMMARY

F5C160110

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
G6ACJ	001	DUPS001	02/15/05	
G6ACL	002	CDRMS004	02/15/05	10:30
G6ACN	003	CDRAS002	02/15/05	09:30
G6ACP	004	YDRMS003	02/16/05	11:00
G6ACQ	005	STRES006	02/21/05	14:00
G6ACT	006	STRWS001	02/15/05	11:50
G6ACV	007	STRES002	02/21/05	15:30
G6ACW	008	STRMS004	02/15/05	13:40
G6ACX	009	DUPS002	02/16/05	14:00
G6AC2	010	STRMS005	02/24/05	09:10
G6AC5	011	STRES001	02/15/05	15:40
G6AC6	012	STRMS001	02/21/05	11:45
G6AC7	013	STRMS002	02/16/05	16:00
G6ADQ	014	STRMS003	02/16/05	14:50
G6ADR	015	YDRMS002	02/16/05	14:00

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Cash in Advance / Prepaid Sales

Client Sample ID: DUPS001

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F5C160110-001
Work Order: G6ACJ
Matrix: WATER

Date Collected: 02/15/05 0000
Date Received: 03/15/05 0900

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD				**pCi/L**	**900.0 MOD**			
Gross Alpha	-0.2	U	1.0	1.9	03/22/05	03/26/05	5081076	
Gross Beta	0.4	U	1.1	1.9	03/22/05	03/26/05	5081076	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Cash in Advance / Prepaid Sales

Client Sample ID: CDRMS004

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F5C160110-002
Work Order: G6ACL
Matrix: WATER

Date Collected: 02/15/05 1030
Date Received: 03/15/05 0900

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD				**pCi/L**	**900.0 MOD**			
Gross Alpha	0.28	U	0.85	1.5	03/22/05	03/26/05	5081076	
Gross Beta	1	U	1.1	1.8	03/22/05	03/26/05	5081076	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Cash in Advance / Prepaid Sales

Client Sample ID: CDRAS002

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F5C160110-003
Work Order: G6ACN
Matrix: WATER

Date Collected: 02/15/05 0930
Date Received: 03/15/05 0900

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD				**pCi/L**	**900.0 MOD**			
Gross Alpha	-0.23	U	0.78	1.5	03/22/05	03/26/05	5081076	
Gross Beta	0.6	U	1.1	1.8	03/22/05	03/26/05	5081076	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Cash in Advance / Prepaid Sales

Client Sample ID: YDRMS003

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F5C160110-004
Work Order: G6ACP
Matrix: WATER

Date Collected: 02/16/05 1100
Date Received: 03/15/05 0900

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD				**pCi/L**	**900.0 MOD**			
Gross Alpha	0.78	U	0.73	1.1	03/22/05	03/26/05	5081076	
Gross Beta	1	U	1.1	1.7	03/22/05	03/26/05	5081076	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Cash in Advance / Prepaid Sales

Client Sample ID: STRES006

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F5C160110-005
Work Order: G6ACO
Matrix: WATER

Date Collected: 02/21/05 1400
Date Received: 03/15/05 0900

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD				**pCi/L**	**900.0 MOD**			
Gross Alpha	0.0	U	0.16	1.3	03/22/05	03/26/05	5081076	
Gross Beta	0.2	U	1.1	1.8	03/22/05	03/26/05	5081076	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Cash in Advance / Prepaid Sales

Client Sample ID: STRWS001

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F5C160110-006
Work Order: G6ACT
Matrix: WATER

Date Collected: 02/15/05 1150
Date Received: 03/15/05 0900

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD				**pCi/L**	**900.0 MOD**			
Gross Alpha	-0.06	U	0.64	1.2	03/22/05	03/26/05	5081076	
Gross Beta	-0.07	U	1.1	1.8	03/22/05	03/26/05	5081076	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Cash in Advance / Prepaid Sales

Client Sample ID: STRES002

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F5C160110-007
Work Order: G6ACV
Matrix: WATER

Date Collected: 02/21/05 1530
Date Received: 03/15/05 0900

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD				**pCi/L**	**900.0 MOD**			
Gross Alpha	0.36	U	0.82	1.4	03/22/05	03/26/05	5081076	
Gross Beta	0.8	U	1.1	1.8	03/22/05	03/26/05	5081076	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Cash in Advance / Prepaid Sales

Client Sample ID: STRMS004

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F5C160110-008
Work Order: G6ACW
Matrix: WATER

Date Collected: 02/15/05 1340
Date Received: 03/15/05 0900

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD				**pCi/L**	**900.0 MOD**			
Gross Alpha	-0.07	U	0.77	1.5	03/22/05	03/26/05	5081076	
Gross Beta	1.5	U	1.1	1.7	03/22/05	03/26/05	5081076	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Cash in Advance / Prepaid Sales

Client Sample ID: DUPS002

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F5C160110-009
Work Order: G6ACX
Matrix: WATER

Date Collected: 02/16/05 1400
Date Received: 03/15/05 0900

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD				**pCi/L**	**900.0 MOD**			
Gross Alpha	0.68	U	0.61	0.91	03/22/05	03/26/05	5081076	
Gross Beta	1.3	U	1.1	1.7	03/22/05	03/26/05	5081076	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Cash in Advance / Prepaid Sales

Client Sample ID: STRMS005

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F5C160110-010
Work Order: G6AC2
Matrix: WATER

Date Collected: 02/24/05 0910
Date Received: 03/15/05 0900

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD				**pCi/L**	**900.0 MOD**			
Gross Alpha	-0.04	U	0.85	1.6	03/22/05	03/26/05	5081076	
Gross Beta	0.1	U	1.0	1.7	03/22/05	03/26/05	5081076	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Cash in Advance / Prepaid Sales

Client Sample ID: STRES001

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F5C160110-011
Work Order: G6AC5
Matrix: WATER

Date Collected: 02/15/05 1540
Date Received: 03/15/05 0900

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD				**pCi/L**	**900.0 MOD**			
Gross Alpha	0.58	U	0.82	1.4	03/22/05	03/26/05	5081076	
Gross Beta	1.6	U	1.1	1.8	03/22/05	03/26/05	5081076	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Cash in Advance / Prepaid Sales

Client Sample ID: STRMS001

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F5C160110-012
Work Order: G6AC6
Matrix: WATER

Date Collected: 02/21/05 1145
Date Received: 03/15/05 0900

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD				**pCi/L**	**900.0 MOD**			
Gross Alpha	0.1	U	0.57	1.0	03/22/05	03/26/05	5081076	
Gross Beta	1.5	U	1.0	1.6	03/22/05	03/26/05	5081076	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Cash in Advance / Prepaid Sales

Client Sample ID: STRMS002

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F5C160110-013
Work Order: G6AC7
Matrix: WATER

Date Collected: 02/16/05 1600
Date Received: 03/15/05 0900

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD				**pCi/L**	**900.0 MOD**			
Gross Alpha	-0.09	U	0.57	1.1	03/22/05	03/26/05	5081076	
Gross Beta	0.8	U	1.0	1.7	03/22/05	03/26/05	5081076	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Cash in Advance / Prepaid Sales

Client Sample ID: STRMS003

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F5C160110-014
Work Order: G6ADQ
Matrix: WATER

Date Collected: 02/16/05 1450
Date Received: 03/15/05 0900

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD				**pCi/L**	**900.0 MOD**			
Gross Alpha	0.25	U	0.78	1.4	03/22/05	03/26/05	5081076	
Gross Beta	0.9	U	1.1	1.8	03/22/05	03/26/05	5081076	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Cash in Advance / Prepaid Sales

Client Sample ID: YDRMS002

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F5C160110-015
Work Order: G6ADR
Matrix: WATER

Date Collected: 02/16/05 1400
Date Received: 03/15/05 0900

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD				**pCi/L**	**900.0 MOD**			
Gross Alpha	0.70	U	0.81	1.3	03/22/05	03/26/05	5081076	
Gross Beta	1.4	U	1.1	1.8	03/22/05	03/26/05	5081076	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

METHOD BLANK REPORT

Severn Trent Laboratories - Radiochemistry

Client Lot ID: F5C160110
Matrix: WATER

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Lab Sample ID Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD			**pCi/L**	**900.0 MOD**			**F5C220000-076B**	
Gross Alpha	-0.05	U	0.54	1.0	03/22/05	03/26/05	5081076	
Gross Beta	-1.1	U	1.0	1.9	03/22/05	03/26/05	5081076	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined using instrument performance only
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Laboratory Control Sample Report

Severn Trent Laboratories - Radiochemistry

Client Lot ID: F5C160110
Matrix: WATER

Parameter	Spike Amount	Result	Total Uncert. (2 σ+/-)	MDC	% Yld	% Rec	Lab Sample ID / QC Control Limits
GROSS A/B BY GFPC EPA 900.0 MOD		**pCi/L**		**900.0 MOD**			**F5C220000-076C**
Gross Beta	104	84.8	9.0	1.8		81	(74 - 125)
	Batch #:	5081076		**Analysis Date:**	03/26/05		
GROSS A/B BY GFPC EPA 900.0 MOD		**pCi/L**		**900.0 MOD**			**F5C220000-076C**
Gross Alpha	51.4	51.7	7.1	2.4		101	(70 - 130)
	Batch #:	5081076		**Analysis Date:**	03/26/05		

NOTE(S)

MDC is determined by instrument performance only
Calculations are performed before rounding to avoid round-off error in calculated results

DUPLICATE EVALUATION REPORT

Severn Trent Laboratories - Radiochemistry

Client Lot ID: F5C160110
Matrix: WATER

Date Sampled: 02/15/05
Date Received: 03/02/05

Parameter	SAMPLE Result		Total Uncert. (2σ +/-)	% Yld	DUPLICATE Result		Total Uncert. (2 σ +/-)	% Yld	QC Sample ID Precision	
GROSS A/B BY GFPC EPA 900.0 MOD				**pCi/L**	**900.0 MOD**				**F5C040370-001**	
Gross Alpha	**-7.0**	U	**6.7**		**4.6**	U	**6.7**		-965	%RPD
Gross Beta	-3.0	U	4.5		5.3	U	4.9		721	%RPD
	Batch #:		5081076 (Sample)		5081076 (Duplicate)					

NOTE(S)

Data are incomplete without the case narrative.
Calculations are performed before rounding to avoid round-off error in calculated results

U Result is less than the sample detection limit.

MATRIX SPIKE REPORT

Severn Trent Laboratories - Radiochemistry

Client Lot Id: F5C040370 Date Sampled: 02/15/05
Matrix: WATER Date Received: 03/02/05

Parameter	Spike Amount	Spike Result	Total Uncert. (2σ +/-)	Spike Yld.	Sample Result	Total Uncert. (2 σ +/-)	QC Sample ID %YLD	QC Sample ID %REC	QC Control Limits
GROSS A/B BY GFPC EPA 900.0 MOD			**pCi/L**		**900.0 MOD**			**F5C040370-001**	
Gross Alpha	214	218	33		-7.0	6.7		105	(50 - 150)
	Batch #: 5081076			Analysis Date:	03/26/05				
GROSS A/B BY GFPC EPA 900.0 MOD			**pCi/L**		**900.0 MOD**			**F5C040370-001**	
Gross Beta	435	354	38		-3.0	4.5		82	(50 - 150)
	Batch #: 5081076			Analysis Date:	03/26/05				

NOTE(S)

Data are incomplete without the case narrative.
Calculations are performed before rounding to avoid round-off errors in calculated results.

F5C160110 CLIENT ANALYSIS SUMMARY

Storage Loc: RAD144

Project Manager: WST | Quote #: 51752 | SDG:

Project: | Kennecott Lakeview, MN

PO#: | Report to: Dan Wiitala

Client: 367970 Cash in Advance / Prepaid Sales | #SMPS in LOT: 15

Date Received: 2005-03-16

Analytical Due Date: 2005-03-30

Report Due Date: 2005-03-31

Report Type: B Standard Report

EDD Code: 00

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	
1	DUPS001			2005-02-15 / 0	G6ACJ	WATER

SAMPLE COMMENTS:

XX Y9 EPA 900.0 MOD — GROSS A/B BY GFPC EPA 900.0 MOD — FR Evaporative Preparation, Total — 01 STANDARD TEST SET — PROT: A — WRK LOC 06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	
2	CDRMS004			2005-02-15 / 1030	G6ACL	WATER

SAMPLE COMMENTS:

XX Y9 EPA 900.0 MOD — GROSS A/B BY GFPC EPA 900.0 MOD — FR Evaporative Preparation, Total — 01 STANDARD TEST SET — PROT: A — WRK LOC 06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	
3	CDRAS002			2005-02-15 / 930	G6ACN	WATER

SAMPLE COMMENTS:

XX Y9 EPA 900.0 MOD — GROSS A/B BY GFPC EPA 900.0 MOD — FR Evaporative Preparation, Total — 01 STANDARD TEST SET — PROT: A — WRK LOC 06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	
4	YDRMS003			2005-02-16 / 1100	G6ACP	WATER

SAMPLE COMMENTS:

XX Y9 EPA 900.0 MOD — GROSS A/B BY GFPC EPA 900.0 MOD — FR Evaporative Preparation, Total — 01 STANDARD TEST SET — PROT: A — WRK LOC 06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	
5	STRES006			2005-02-21 / 1400	G6ACQ	WATER

SAMPLE COMMENTS:

XX Y9 EPA 900.0 MOD — GROSS A/B BY GFPC EPA 900.0 MOD — FR Evaporative Preparation, Total — 01 STANDARD TEST SET — PROT: A — WRK LOC 06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	
6	STRWS001			2005-02-15 / 1150	G6ACT	WATER

SAMPLE COMMENTS:

XX Y9 EPA 900.0 MOD — GROSS A/B BY GFPC EPA 900.0 MOD — FR Evaporative Preparation, Total — 01 STANDARD TEST SET — PROT: A — WRK LOC 06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	
7	STRES002			2005-02-21 / 1530	G6ACV	WATER

SAMPLE COMMENTS:

XX Y9 EPA 900.0 MOD — GROSS A/B BY GFPC EPA 900.0 MOD — FR Evaporative Preparation, Total — 01 STANDARD TEST SET — PROT: A — WRK LOC 06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	
8	STRMS004			2005-02-15 / 1340	G6ACW	WATER

SAMPLE COMMENTS:

XX Y9 EPA 900.0 MOD — GROSS A/B BY GFPC EPA 900.0 MOD — FR Evaporative Preparation, Total — 01 STANDARD TEST SET — PROT: A — WRK LOC 06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	
9	DUPS002			2005-02-16 / 1400	G6ACX	WATER

SAMPLE COMMENTS:

STL - St. Louis Logged In by: CLARKEJ 2005-03-16 7:36:31 printed on: Wednesday, March 16, 2005 08:41 Page 1 of 2

F5C160110

CLIENT ANALYSIS SUMMARY

Storage Loc: **RAD144**

Project Manager: WST
Quote #: 51752
SDG:
Date Received: 2005-03-16

Project:
Kennecott Lakeview, MN
Analytical Due Date: 2005-03-30

PO#:
Report to: Dan Wiitala
Report Due Date: 2005-03-31

Client: 367970 Cash in Advance / Prepaid Sales
#SMPS in LOT: 15
Report Type: B Standard Report
EDD Code: 00

XX Y9 EPA 900.0 MOD | GROSS A/B BY GFPC EPA 900.0 MOD | FR Evaporative Preparation, Total | 01 STANDARD TEST SET | PROT: A | WRK LOC 06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
10	STRMS005			2005-02-24 / 910	G6AC2	WATER

SAMPLE COMMENTS:

XX Y9 EPA 900.0 MOD | GROSS A/B BY GFPC EPA 900.0 MOD | FR Evaporative Preparation, Total | 01 STANDARD TEST SET | PROT: A | WRK LOC 06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
11	STRES001			2005-02-15 / 1540	G6AC5	WATER

SAMPLE COMMENTS:

XX Y9 EPA 900.0 MOD | GROSS A/B BY GFPC EPA 900.0 MOD | FR Evaporative Preparation, Total | 01 STANDARD TEST SET | PROT: A | WRK LOC 06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
12	STRMS001			2005-02-21 / 1145	G6AC6	WATER

SAMPLE COMMENTS:

XX Y9 EPA 900.0 MOD | GROSS A/B BY GFPC EPA 900.0 MOD | FR Evaporative Preparation, Total | 01 STANDARD TEST SET | PROT: A | WRK LOC 06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
13	STRMS002			2005-02-16 / 1600	G6AC7	WATER

SAMPLE COMMENTS:

XX Y9 EPA 900.0 MOD | GROSS A/B BY GFPC EPA 900.0 MOD | FR Evaporative Preparation, Total | 01 STANDARD TEST SET | PROT: A | WRK LOC 06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
14	STRMS003			2005-02-16 / 1450	G6ADQ	WATER

SAMPLE COMMENTS:

XX Y9 EPA 900.0 MOD | GROSS A/B BY GFPC EPA 900.0 MOD | FR Evaporative Preparation, Total | 01 STANDARD TEST SET | PROT: A | WRK LOC 06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
15	YDRMS002			2005-02-16 / 1400	G6ADR	WATER

SAMPLE COMMENTS:

XX Y9 EPA 900.0 MOD | GROSS A/B BY GFPC EPA 900.0 MOD | FR Evaporative Preparation, Total | 01 STANDARD TEST SET | PROT: A | WRK LOC 06

LOT # F5C160110

Severn Trent

Quote 51752

STL ST. LOUIS

TriMatrix Laboratories, Inc.

~~5560 Corporate Exchange Court SE Grand Rapids, MI 49512~~
~~Phone (616) 975-4500 Fax (616) 942-7463~~
~~www.trimatrixlabs.com~~

Chain of Custody Record

COC No. 105681

peder@northjacksonco.com

Page 1 of 2

For Lab Use Only
Cart:
VOA Rack/Tray:
Receipt Log No.:
Project Chemist:
Laboratory Project No.:

Client Name: North Jackson Company	Project Name: EAGLE
Address: P.O. Box 218	Client Project No. / P.O. No.
Marquette Mi. 49855	Invoice To: ☐ Client ☑ Other (comments)
Phone: 906 225-6787	Contact/Report To: P. SABEE
Fax: 225-6769	

Analyses Requested

Gross-Alpha
Gross-Beta

⇦ PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List): B	Total	Sample Comments
											Number of Containers Submitted		
			1	DUP5001		2-15-05			K	W	1	500p	EAG-100 1355
			2	CDRMS004		2-15-05	1030						EAG-100 1354
			3	CDRAS002		2-15-05	1130						EAG-100 1353
			4	GDRMS003		2-16-05	1100						EAG-100 1352
			5	STRES006		2-21-05	1400						EAG-100 1361
			6	STRWS001		2-15-05	1150						EAG-100 1348
			7	STRES002		2-21-05	1530						EAG-100 1350
			8	STRMS004		2-15-05	1340						EAG-100 1346
			9	DUPS002		2-16-05	1400						EAG-100 1356
			10	STRMS005		2-24-05	0910						EAG-100 1347

Sampled By (print)

Sampler's Signature

Company SEVERN TRENT SVS

How Shipped? Hand Carrier

Tracking No.

Comments

Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time

TriMatrixCOC -- COC WHITE COPY - REPORT YELLOW COPY - LABORATORY PINK COPY - FIELD

LOT # F5C160110

Severn Trent

TriMatrix Laboratories, Inc.

5560 Corporate Exchange Court SE Grand Rapids, MI 49512
Phone (616) 975-4500 Fax (616) 942-7463
www.trimatrixlabs.com

Chain of Custody Record

COC No. 105592

Page 2 of 2

For Lab Use Only
Cart
VOA Rack/Tray
Receipt Log No.
Project Chemist
Laboratory Project No.

Client Name: North Jackson Co
Address: 1004 Harbor Hills Dr Suite 102
P.O. Box Marquette MI 49855
Phone
Fax

Project Name: EAGLE
Client Project No. / P.O. No.
Invoice To: ☐ Client ☑ Other (comments)
Contact/Report To: P. Saboe

Analyses Requested
Green Alpha Glass Bottle

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List)	Number of Containers Submitted	Total	Sample Comments
			1 STRES001		2-15-05	1540		X	W	B	1 500p		EAG-100134
			2 STRMS001		2-21-05	1145							EAG-100134
			3 STRMS002		2-16-05	1600							EAG-100134
			4 STRMS003		2-16-05	1450							EAG-100134
			5 SDRMS002		2-16-05	1400							EAG-100135
			6										
			7										
			8										
			9										
			10										

Sampled By (print): P Saboe D Wentworth
Sampler's Signature: P Saboe D Wentworth
Company: NJC

How Shipped? Hand Carrier Fed Ex
Tracking No. 7915 7191 4674

Comments: Bill Attn Jon Chewy KMC Kennecott Eagle Minerals Co 1004 Harbor Hills Dr. Suite 103 Marquette MI 49855
906-225-5791

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
P Saboe	3-14-05	1100						

1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
Jill Clark	3.15.05	0900						

TriMatrixCOC -- COC WHITE COPY - REPORT YELLOW COPY - LABORATORY PINK COPY - FIELD

27 of 28

STL ST. LOUIS

SEVERN TRENT **STL**

Lot No: F5C160110

Condition Upon Receipt Form
St. Louis Laboratory

Client: N. Jackson Co.

Date: 3.15.05 Time: 0900

Quote No: 51752

Initiated by: Q

Shipper/No: Fed Ex TRK# 7915 7191 4674

COC/RFA Numbers: 105681 - 105592

Condition/Variance (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1.	(Y) N	Sample received in undamaged condition?	7.	(Y) N	Sample received with Chain of Custody?
2.	(Y) N	Sample received within 4°C ± 2°C* ?	8.	(Y) N	Chain of Custody matches sample IDs on containers?
		Record 3	9.	Y N (N/A)	Custody seal received intact on cooler.?
3.	(Y) N N/A	Sample received with proper pH [1] ?	10.	Y N (N/A)	Custody seal tamper evident on cooler.?
4.	Y N	If N/A – Was pH taken by original STL lab?	11.	Y N (N/A)	Custody seal on bottles received intact?
5.	(Y) N	Sample received in proper containers?	12.	Y N (N/A)	Custody seal tamper evident on bottles?
6.	(Y) N	Sample volume sufficient for analysis?	13.	Y N	Was CUR (equivalent) rec' d from original STL lab?

* Temperature Variance Does Not Affect the Following Analyses: Rad

[1]For DOE-AL (Pantex, LANL, Sandia) sites, verify pH all containers received, except for VOA, TOX, and soils.

Notes:

Corrective Action:

☐ Client's Name: _____ Informed by: _____ By: _____

☐ Sample(s) processed "as is". _____

☐ Sample(s) on hold until: _____ If released, notify: _____

Project Management Review: _____ Date: 3-16-05

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED
IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIALS AND THE DATE NEXT TO THAT ITEM

ADMIN-0004, Revised 2/17/04
\\Slsvr01\QA\FORMS\ST-LOUIS\ADMIN\Admin004 rev7.doc

SEVERN TRENT STL

STL St. Louis
13715 Rider Trail North
Earth City, MO 63045

Tel: 314 298 8566 Fax: 314 298 8757
www.stl-inc.com

ANALYTICAL REPORT

Kennecott Lakeview, MN

Lot #: F5F020302

P. Sabee

Kennecott Minerals
1004 Harbor Hills Drive
Marquette, MI 49855

SEVERN TRENT LABORATORIES, INC.

KAY CLAY
Project Manager

June 13, 2005

Case Narrative
LOT NUMBER: F5F020302

This report contains the analytical results for the 16 samples received under chain of custody by STL St. Louis on June 2, 2005. These samples are associated with your Kennecott Lakeview, MN project.

The analytical results included in this report meet all applicable quality control procedure requirements.

The test results in this report meet all NELAP requirements for parameters in which accreditations are held by STL St. Louis. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

All chemical analysis results are based upon sample as received, wet weight, unless noted otherwise. All radiochemistry results are based upon sample as dried and ground with the exception of tritium, unless requested wet weight by the client.

Observations/Nonconformances

Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

METHODS SUMMARY

F5F020302

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Gross Alpha/Beta by GFPC	EPA 900.0 MOD	EPA 900.0

References:

EPA "EASTERN ENVIRONMENTAL RADIATION FACILITY RADIOCHEMISTRY PROCEDURES MANUAL" US EPA EPA 520/5-84-006 AUGUST 1984

SAMPLE SUMMARY

F5F020302

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
HCR1K	001	YDRMS002	04/12/05	
HCR1N	002	DUPS001	04/12/05	
HCR1Q	003	STRMS001	04/13/05	
HCR1R	004	STRMS002	04/13/05	
HCR1T	005	STRMS005	04/13/05	
HCR1V	006	DUPS002	04/13/05	
HCR1W	007	FBKS001	04/13/05	
HCR10	008	FBKS002	04/14/05	
HCR13	009	STRMS004	04/14/05	
HCR15	010	STRWS001	04/14/05	
HCR17	011	STRMS003	04/14/05	
HCR19	012	STRES001	04/14/05	
HCR2A	013	CDRAS002	04/19/05	
HCR2C	014	CDRMS004	04/19/05	
HCR2D	015	STRES002	04/19/05	
HCR2E	016	YDRMS003	04/21/05	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Kennecott Minerals

Client Sample ID: YDRMS002

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F5F020302-001
Work Order: HCR1K
Matrix: WATER

Date Collected: 04/12/05 0000
Date Received: 06/02/05 0900

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD				**pCi/L**	**900.0 MOD**			
Gross Alpha	0.63	U	0.55	0.82	06/03/05	06/07/05	5154083	
Gross Beta	0.27	U	0.97	1.6	06/03/05	06/07/05	5154083	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Kennecott Minerals

Client Sample ID: YDRMS002 DUP

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F5F020302-001X
Work Order: HCR1K
Matrix: WATER

Date Collected: 04/12/05 0000
Date Received: 06/02/05 0900

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD				**pCi/L**	**900.0 MOD**			
Gross Alpha	0.63	U	0.59	0.90	06/03/05	06/07/05	5154083	
Gross Beta	1.0	U	1.1	1.7	06/03/05	06/07/05	5154083	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Kennecott Minerals

Client Sample ID: DUPS001

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F5F020302-002
Work Order: HCR1N
Matrix: WATER

Date Collected: 04/12/05 0000
Date Received: 06/02/05 0900

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD			**pCi/L**		**900.0 MOD**			
Gross Alpha	0.33	U	0.51	0.85	06/03/05	06/07/05	5154083	
Gross Beta	0.4	U	1.3	2.2	06/03/05	06/07/05	5154083	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Kennecott Minerals

Client Sample ID: STRMS001

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F5F020302-003
Work Order: HCR1Q
Matrix: WATER

Date Collected: 04/13/05 0000
Date Received: 06/02/05 0900

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD			**pCi/L**		**900.0 MOD**			
Gross Alpha	-0.20	U	0.46	0.95	06/03/05	06/07/05	5154083	
Gross Beta	1.2	U	1.1	1.8	06/03/05	06/07/05	5154083	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Kennecott Minerals

Client Sample ID: STRMS002

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F5F020302-004
Work Order: HCR1R
Matrix: WATER

Date Collected: 04/13/05 0000
Date Received: 06/02/05 0900

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD			**pCi/L**		**900.0 MOD**			
Gross Alpha	0.53	U	0.51	0.76	06/03/05	06/07/05	5154083	
Gross Beta	1.5	U	1.1	1.8	06/03/05	06/07/05	5154083	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Kennecott Minerals

Client Sample ID: STRMS005

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F5F020302-005
Work Order: HCR1T
Matrix: WATER

Date Collected: 04/13/05 0000
Date Received: 06/02/05 0900

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Data	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD				**pCi/L**	**900.0 MOD**			
Gross Alpha	0.47	U	0.62	1.0	06/03/05	06/07/05	5154083	
Gross Beta	0.9	U	1.1	1.8	06/03/05	06/07/05	5154083	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Kennecott Minerals

Client Sample ID: DUPS002

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F5F020302-006
Work Order: HCR1V
Matrix: WATER

Date Collected: 04/13/05 0000
Date Received: 06/02/05 0900

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD				**pCi/L**	**900.0 MOD**			
Gross Alpha	0.40	U	0.56	0.94	06/03/05	06/07/05	5154083	
Gross Beta	1	U	1.1	1.7	06/03/05	06/07/05	5154083	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Kennecott Minerals

Client Sample ID: FBKS001

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F5F020302-007
Work Order: HCR1W
Matrix: WATER

Date Collected: 04/13/05 0000
Date Received: 06/02/05 0900

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD				**pCi/L**	**900.0 MOD**			
Gross Alpha	-0.09	U	0.34	0.72	06/03/05	06/07/05	5154083	
Gross Beta	1.0	U	1.0	1.6	06/03/05	06/07/05	5154083	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Kennecott Minerals

Client Sample ID: FBKS002

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F5F020302-008
Work Order: HCR10
Matrix: WATER

Date Collected: 04/14/05 0000
Date Received: 06/02/05 0900

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD			**pCi/L**		**900.0 MOD**			
Gross Alpha	0.35	U	0.48	0.79	06/03/05	06/07/05	5154083	
Gross Beta	0.6	U	1.1	1.7	06/03/05	06/07/05	5154083	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Kennecott Minerals

Client Sample ID: STRMS004

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F5F020302-009
Work Order: HCR13
Matrix: WATER

Date Collected: 04/14/05 0000
Date Received: 06/02/05 0900

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD				**pCi/L**	**900.0 MOD**			
Gross Alpha	0.16	U	0.56	1.0	06/03/05	06/07/05	5154083	
Gross Beta	**2.1**	**J**	**1.2**	**1.8**	**06/03/05**	**06/07/05**	**5154083**	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

J **Result is greater than sample detection limit but less than stated reporting limit.**
U **Result is less than the sample detection limit.**

Kennecott Minerals

Client Sample ID: STRWS001

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F5F020302-010
Work Order: HCR15
Matrix: WATER

Date Collected: 04/14/05 0000
Date Received: 06/02/05 0900

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD				**pCi/L**	**900.0 MOD**			
Gross Alpha	0.12	U	0.59	1.1	06/03/05	06/07/05	5154083	
Gross Beta	0.5	U	1.0	1.7	06/03/05	06/07/05	5154083	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Kennecott Minerals

Client Sample ID: STRMS003

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F5F020302-011
Work Order: HCR17
Matrix: WATER

Date Collected: 04/14/05 0000
Date Received: 06/02/05 0900

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD			**pCi/L**		**900.0 MOD**			
Gross Alpha	0.21	U	0.47	0.84	06/03/05	06/07/05	5154083	
Gross Beta	0.7	U	1.0	1.7	06/03/05	06/07/05	5154083	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Kennecott Minerals

Client Sample ID: STRES001

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F5F020302-012
Work Order: HCR19
Matrix: WATER

Date Collected: 04/14/05 0000
Date Received: 06/02/05 0900

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD				**pCi/L**	**900.0 MOD**			
Gross Alpha	0.68	U	0.68	1.1	06/03/05	06/07/05	5154083	
Gross Beta	1.35	U	0.99	1.6	06/03/05	06/07/05	5154083	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Kennecott Minerals

Client Sample ID: CDRAS002

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F5F020302-013
Work Order: HCR2A
Matrix: WATER

Date Collected: 04/19/05 0000
Date Received: 06/02/05 0900

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD			**pCi/L**		**900.0 MOD**			
Gross Alpha	0.24	U	0.65	1.2	06/03/05	06/07/05	5154083	
Gross Beta	0.5	U	1.1	1.8	06/03/05	06/07/05	5154083	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Kennecott Minerals

Client Sample ID: CDRMS004

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F5F020302-014
Work Order: HCR2C
Matrix: WATER

Date Collected: 04/19/05 0000
Date Received: 06/02/05 0900

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD				pCi/L	900.0 MOD			
Gross Alpha	0.08	U	0.61	1.1	06/03/05	06/07/05	5154083	
Gross Beta	0.3	U	1.0	1.7	06/03/05	06/07/05	5154083	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Kennecott Minerals

Client Sample ID: STRES002

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F5F020302-015
Work Order: HCR2D
Matrix: WATER

Date Collected: 04/19/05 0000
Date Received: 06/02/05 0900

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD				**pCi/L**	**900.0 MOD**			
Gross Alpha	0.27	U	0.53	0.91	06/03/05	06/07/05	5154083	
Gross Beta	0.9	U	1.0	1.7	06/03/05	06/07/05	5154083	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Kennecott Minerals

Client Sample ID: YDRMS003

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F5F020302-016
Work Order: HCR2E
Matrix: WATER

Date Collected: 04/21/05 0000
Date Received: 06/02/05 0900

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD				**pCi/L**	**900.0 MOD**			
Gross Alpha	0.40	U	0.62	1.0	06/03/05	06/07/05	5154083	
Gross Beta	**2.6**	**J**	**1.3**	**2.1**	**06/03/05**	**06/07/05**	**5154083**	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.
Bold results are greater than the MDC

J **Result is greater than sample detection limit but less than stated reporting limit.**
U **Result is less than the sample detection limit.**

METHOD BLANK REPORT

Severn Trent Laboratories - Radiochemistry

Client Lot ID: F5F020302
Matrix: WATER

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	MDC	Prep Date	Analysis Date	Lab Sample ID Batch #	Yld %
GROSS A/B BY GFPC EPA 900.0 MOD			pCi/L	900.0 MOD			F5F030000-083B	
Gross Alpha	0.08	U	0.47	0.86	06/03/05	06/07/05	5154083	
Gross Beta	1.2	U	1.1	1.7	06/03/05	06/07/05	5154083	

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined using instrument performance only
Bold results are greater than the MDC

U Result is less than the sample detection limit.

Laboratory Control Sample Report

Severn Trent Laboratories - Radiochemistry

Client Lot ID: F5F020302
Matrix: WATER

Parameter	Spike Amount	Result	Total Uncert. (2 σ+/-)	MDC	% Yld	% Rec	Lab Sample ID QC Control Limits
GROSS A/B BY GFPC EPA 900.0 MOD		**pCi/L**		**900.0 MOD**			**F5F030000-083C**
Gross Beta	104	91.8	9.7	1.9		88	(70 - 121)
	Batch #:	5154083		**Analysis Date:**			
GROSS A/B BY GFPC EPA 900.0 MOD		**pCi/L**		**900.0 MOD**			**F5F030000-083C**
Gross Alpha	51.4	47.5	6.0	1.5		92	(55 - 147)
	Batch #:	5154083		**Analysis Date:**	06/07/05		

NOTE(S)

MDC is determined by instrument performance only
Calculations are performed before rounding to avoid round-off error in calculated results

MATRIX SPIKE REPORT

Severn Trent Laboratories - Radiochemistry

Client Lot Id: F5F020302
Matrix: WATER

Date Sampled: 04/12/05
Date Received: 06/02/05

Parameter	Spike Amount	Spike Result	Total Uncert. (2σ +/-)	Spike Yld.	Sample Result	Total Uncert. (2 σ +/-)	QC Sample ID %YLD	QC Sample ID %REC	QC Control Limits
GROSS A/B BY GFPC EPA 900.0 MOD			**pCi/L**		**900.0 MOD**			**F5F020302-001**	
Gross Alpha	51.4	35.0	4.4		0.63	0.55		67	(31 - 150)
	Batch #:	5154083		Analysis Date:	06/07/05				
GROSS A/B BY GFPC EPA 900.0 MOD			**pCi/L**		**900.0 MOD**			**F5F020302-001**	
Gross Beta	104	89.2	9.4		0.27	0.97		85	(62 - 133)
	Batch #:	5154083		Analysis Date:	06/07/05				

NOTE(S)

Data are incomplete without the case narrative.
Calculations are performed before rounding to avoid round-off errors in calculated results.

DUPLICATE EVALUATION REPORT

Severn Trent Laboratories - Radiochemistry

Client Lot ID: F5F020302
Matrix: WATER

Date Sampled: 04/12/05
Date Received: 06/02/05

Parameter	SAMPLE Result		Total Uncert. (2σ +/-)	% Yld	DUPLICATE Result		Total Uncert. (2 σ +/-)	% Yld	QC Sample ID Precision	
GROSS A/B BY GFPC EPA 900.0 MOD				**pCi/L**	**900.0 MOD**				**F5F020302-001**	
Gross Alpha	0.63	U	0.55		0.63	U	0.59		0.7	%RPD
Gross Beta	0.27	U	0.97		1.0	U	1.1		116	%RPD
	Batch #:		5154083 (Sample)		5154083 (Duplicate)					

NOTE(S)

Data are incomplete without the case narrative.
Calculations are performed before rounding to avoid round-off error in calculated results

U Result is less than the sample detection limit.

F5F020302

CLIENT ANALYSIS SUMMARY

Storage Loc: RAD136

Project Manager: WST
Quote #: 64300 SDG:
Project: Kennecott Lakeview, MN
PO#: Report to: P. Sabee
Client: 1356229 Kennecott Minerals
#SMPS in LOT: 16

Date Received: 2005-06-02
Analytical Due Date: 2005-06-16
Report Due Date: 2005-06-16
Report Type: B Standard Report
EDD Code: 00

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
1	YDRMS002			2005-04-12 / 0	HCR1K	WATER

SAMPLE COMMENTS:

XX	Y9	EPA	900.0 MOD	GROSS A/B BY GFPC EPA 900.0 MOD	FR	Evaporative Preparation, Total	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
2	DUPS001			2005-04-12 / 0	HCR1N	WATER

SAMPLE COMMENTS:

XX	Y9	EPA	900.0 MOD	GROSS A/B BY GFPC EPA 900.0 MOD	FR	Evaporative Preparation, Total	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
3	STRMS001			2005-04-13 / 0	HCR1Q	WATER

SAMPLE COMMENTS:

XX	Y9	EPA	900.0 MOD	GROSS A/B BY GFPC EPA 900.0 MOD	FR	Evaporative Preparation, Total	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
4	STRMS002			2005-04-13 / 0	HCR1R	WATER

SAMPLE COMMENTS:

XX	Y9	EPA	900.0 MOD	GROSS A/B BY GFPC EPA 900.0 MOD	FR	Evaporative Preparation, Total	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
5	STRMS005			2005-04-13 / 0	HCR1T	WATER

SAMPLE COMMENTS:

XX	Y9	EPA	900.0 MOD	GROSS A/B BY GFPC EPA 900.0 MOD	FR	Evaporative Preparation, Total	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
6	DUPS002			2005-04-13 / 0	HCR1V	WATER

SAMPLE COMMENTS:

XX	Y9	EPA	900.0 MOD	GROSS A/B BY GFPC EPA 900.0 MOD	FR	Evaporative Preparation, Total	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
7	FBKS001			2005-04-13 / 0	HCR1W	WATER

SAMPLE COMMENTS:

XX	Y9	EPA	900.0 MOD	GROSS A/B BY GFPC EPA 900.0 MOD	FR	Evaporative Preparation, Total	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
8	FBKS002			2005-04-14 / 0	HCR10	WATER

SAMPLE COMMENTS:

XX	Y9	EPA	900.0 MOD	GROSS A/B BY GFPC EPA 900.0 MOD	FR	Evaporative Preparation, Total	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
9	STRMS004			2005-04-14 / 0	HCR13	WATER

SAMPLE COMMENTS:

F5F020302

CLIENT ANALYSIS SUMMARY

Storage Loc: RAD136

Project Manager: WST
Quote #: 64300 SDG:
Project: Kennecott Lakeview, MN
PO#: Report to: P. Sabee
Client: 1356229 Kennecott Minerals
#SMPS in LOT: 16

Date Received: 2005-06-02
Analytical Due Date: 2005-06-16
Report Due Date: 2005-06-16
Report Type: B Standard Report
EDD Code: 00

XX	Y9	EPA	900.0 MOD	GROSS A/B BY GFPC EPA 900.0 MOD	FR	Evaporative Preparation, Total	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
10	STRWS002			2005-04-14 / 0	HCR15	WATER

SAMPLE COMMENTS:

Rec 06.3.05

XX	Y9	EPA	900.0 MOD	GROSS A/B BY GFPC EPA 900.0 MOD	FR	Evaporative Preparation, Total	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
11	STRMS003			2005-04-14 / 0	HCR17	WATER

SAMPLE COMMENTS:

XX	Y9	EPA	900.0 MOD	GROSS A/B BY GFPC EPA 900.0 MOD	FR	Evaporative Preparation, Total	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
12	STRES001			2005-04-14 / 0	HCR19	WATER

SAMPLE COMMENTS:

XX	Y9	EPA	900.0 MOD	GROSS A/B BY GFPC EPA 900.0 MOD	FR	Evaporative Preparation, Total	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
13	CDRAS002			2005-04-19 / 0	HCR2A	WATER

SAMPLE COMMENTS:

XX	Y9	EPA	900.0 MOD	GROSS A/B BY GFPC EPA 900.0 MOD	FR	Evaporative Preparation, Total	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
14	CDRMS004			2005-04-19 / 0	HCR2C	WATER

SAMPLE COMMENTS:

XX	Y9	EPA	900.0 MOD	GROSS A/B BY GFPC EPA 900.0 MOD	FR	Evaporative Preparation, Total	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
15	STRES002			2005-04-19 / 0	HCR2D	WATER

SAMPLE COMMENTS:

XX	Y9	EPA	900.0 MOD	GROSS A/B BY GFPC EPA 900.0 MOD	FR	Evaporative Preparation, Total	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
16	YDRMS003			2005-04-21 / 0	HCR2E	WATER

SAMPLE COMMENTS:

XX	Y9	EPA	900.0 MOD	GROSS A/B BY GFPC EPA 900.0 MOD	FR	Evaporative Preparation, Total	01	STANDARD TEST SET	PROT: A	WRK LOC	06

F5F020302

CLIENT COMMENTS SUMMARY

Project Manager: WST
Quote #: 64300 SDG:
Project: Kennecott Lakeview, MN
PO#: Report to: P. Sabee
Client: 1356229 Kennecott Minerals
#SMPS in LOT: 16

Storage Loc: RAD136
Date Received: 2005-06-02
Analytical Due Date: 2005-06-16
Report Due Date: 2005-06-16
Report Type: B Standard Report
EDD Code: 00

LOT # (lab use only)

CUR#6523

TriMatrix Laboratories, Inc.

5560 Corporate Exchange Court SE Grand Rapids, MI 49512
Phone (616) 975-4500 Fax (616) 942-7463
www.trimatrixlabs.com

Chain of Custody Record

COC No. 18583

Page ____ of ____

For Lab Use Only
Cooler
VOA Rack/Tray
Receipt Log No.
Project Chemist
Laboratory Project No.

Client Name: North Jackson
Address: 1004 Harbor Hills Ste 103
Marquette MI 49855
Phone 906 225 [illegible] 6787
Fax

Project Name
Client Project No. / P.O. No.
Invoice To ☐ Client ☒ Other (comments)
Contact/Report To: Ken Paulson

Analyses Requested

900.0 Mod (Gross Alpha/Beta)

⇦ PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List)	Number of Containers Submitted	Total	Sample Comments
			1	YDRMSC02		4/12/05				W	500P	1		EAG-1001409
			2	DUPSC01		↓						1		1413
			3	STRMSC01		4/13/05						1		1401
			4	STRMSC02								1		1402
			5	STRMSC05								1		1405
			6	DUPSC02								1		1414
			7	FBKSC01		↓						1		1417
			8	FBKSC02		4/14/05						1		1418
			9	STRMSC04								1		1404
			10	STRMSC01		↓						1		1406

Sampled By (print)
Sampler's Signature
Company

How Shipped? Hand Carrier
Tracking No.

Comments: see attached email
Invoice Keanecott Minerals
at same address

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
							6/1/05	

1. Received By	Date	Time	2. Received By	Date	Time	3. Received By	Date	Time
[illegible]	6/2/05	0900						

TriMatrixCOC – COC

WHITE COPY - REPORT YELLOW COPY - LABORATORY PINK COPY - FIELD

STL ST LOUIS

LOT #

STL ST LOUIS

TriMatrix Laboratories, Inc.

5560 Corporate Exchange Court SE Grand Rapids, MI 49512
Phone (616) 975-4500 Fax (616) 942-7463
www.trimatrixlabs.com

Chain of Custody Record

COC No. 18584

Page ____ of ____

For Lab Use Only

CW

VOA Rack/Tray

Receipt Log No.

Project Chemist

Laboratory Project No.

Client Name: North Jackson	Project Name:
Address:	Client Project No. / P.O. No.:
	Invoice To: ☐ Client ☐ Other (comments)
Phone: (910) 225-6787	Contact/Report To: Ken Rawlson
Fax:	

Analyses Requested

GRO (Nico) Gross Alpha Ra226

Container Type (corresponds to Container Packing List)

Number of Containers Submitted

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix							Total	Sample Comments
			1	STRMS003		4/14/05				W	1		500P			Ra226 - 1001403		
			2	STRES001							1							1407
			3	SR.CD259002		4/19/05					1							1411
			4	CDRMS004							1							1412
			5	STRES002							1							1405
			6	YDRM0003		4/21/05					1							1410
			7															
			8															
			9															
			10															

Preservatives

A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Sampled By (print)	How Shipped? Hand Carrier____	Comments
Sampler's Signature	Tracking No.	
Company	1. Relinquished By / Date / Time	2. Relinquished By / Date / Time
	1. Received By: KMcCaw 6/2/05 0900	2. Received By / Date / Time

3. Relinquished By: [signature] Date: 6/1/05 Time:

3. Received By / Date / Time

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TriMatrixCOC – COC WHITE COPY - REPORT YELLOW COPY - LABORATORY PINK COPY - FIELD

Jennifer Rice

From: Kari Paulson [karip@northjacksonco.com]
Sent: Monday, May 09, 2005 11:29 AM
To: ricejl@trimatrixlabs.com
Cc: Peter Sabee
Subject: RE: Request for left over samples

Jennifer,

Could you please ship the samples with COC requesting analysis of 900.0 MOD, Gross Alpha/Beta (with a note to bill Kennecott Minerals at 1004 Harbor Hills Drive, Suite 103, Marquette, MI 49855):

Attn: Sample Custody
STL St Louis
13715 Rider Trail North
Earth City, MO 63045-1205
ph: 314-298-8566

Please do this at your earliest convenience. A box is fine. Bill us for time spent preparing the shipment, etc.

Thanks very much!

Kari

Kari M. Paulson
North Jackson Company
P.O. Box 218
1004 Harbor Hills Drive, Suite 102
Marquette, MI 49855
ph. 906.225.6787
fx. 906.225.6769

From: Jennifer Rice [mailto:ricejl@trimatrixlabs.com]
Sent: Thursday, May 05, 2005 3:10 PM
To: Kari M. Paulson
Subject: RE: Request for left over samples

The report was just completed today and should go out tomorrow. When do you want the samples sent back? Since they are metals samples and do not have to be kept at 4 deg C, can we send them back in a box?

Jennifer Rice
TriMatrix Laboratories
phone: 616.940.4277
fax: 616.942.7463
ricejl@trimatrixlabs.com

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SEVERN TRENT **STL**

Lot No: F5F020302

Condition Upon Receipt Form
St. Louis Laboratory

Client: TriMatrix 64300

Date: 6/2/05 Time: 0900

Quote No:

Initiated by: KM

Shipper/No: FedEx 7010 7113 6110

COC/RFA Numbers: 18583, 18584

Condition/Variance (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1.	(Y) N	Sample received in undamaged condition?	7.	(Y) N	Sample received with Chain of Custody?
2.	Y (N)	Sample received within 4°C ± 2°C* ?	8.	Y (N)	Chain of Custody matches sample IDs on containers?
		Record 10°	9.	Y (N) N/A	Custody seal received intact on cooler.?
3.	(Y) N N/A	Sample received with proper pH [1]?	10.	Y (N) N/A	Custody seal tamper evident on cooler.?
4.	Y N	If N/A - Was pH taken by original STL lab?	11.	Y (N) N/A	Custody seal on bottles received intact?
5.	(Y) N	Sample received in proper containers?	12.	Y (N) N/A	Custody seal tamper evident on bottles?
6.	(Y) N	Sample volume sufficient for analysis?	13.	Y N	Was CUR (equivalent) rec' d from original STL lab?

* Temperature Variance Does Not Affect the Following Analyses: RAD

[1]For DOE-AL (Pantex, LANL, Sandia) sites, verify pH all containers received, except for VOA, TOX, and soils.

Notes:

Did not receive STRWS001

Received sample # STRWS002 not listed on COC - logged in

* Client Contacted (Kari Paulson) by phone 06-03-05 + the COC is correct the bottle ID is incorrect. KC

KC 06-03-05

Corrective Action:

- ☐ Client's Name: _____ Informed by: _____ By: _____
- ☐ Sample(s) processed "as is". _____
- ☐ Sample(s) on hold until: _____ If released, notify: _____

Project Management Review: K. Cly Date: 06-03-05

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED
IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIALS AND THE DATE NEXT TO THAT ITEM

6523

ADMIN-0004, Revised 2/17/04
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