

I-3

Background Data on Airborne Ambient Concentrations of NO_x, SO_x And Metals

Passive Monitoring Data and Field Sheets
Rounds 1 and 2
NO_x/SO₂

KMC PROJECT EAGLE
BACKGROUND AMBIENT AIR QUALITY SAMPLING
 Passive Air Samples for SO₂ -Round 1
 Analytical Method: Ion Chromatography

Reagent Volume used for Extraction

8.3

ml

Sample ID**	Sample On Date/Time	Sample Off Date/Time	Sample Period (min)	Mean Temp. (°C)	Analytical Result(µg/mL)	Analyte[SO ₂] Mass (ng)	Blank SO ₂ (ng)	Conv. Coef. α _{SO2}	SO ₂ (ppb)
SO2 Blank - 1	Field Blank								
SO2 - 01-1	05/20/2005 12:44	05/27/2005 10:02	9918	14.7	0.120	990	990	40.4	0.0
SO2 - 01R-1	05/20/2005 12:44	05/27/2005 10:07	9923	14.7	0.120	990	990	40.4	0.0
SO2 - 02-1	05/20/2005 14:05	05/27/2005 10:37	9872	14.6	0.120	990	990	40.5	0.0
SO2 - 02R-1***	05/20/2005 14:05	05/27/2005 10:41	9876	14.6	0.030	248	990	40.5	0.0

* All concentrations (ppb) are blank corrected

** The nomenclature for Sample ID reflects the site location and sample round number. One blank is submitted to the lab for each round and media type. The middle portion of the Sample ID indicates the sample location number. The last part of the ID represents the round number. The designation "R" denotes a replicate. One replicate is collected at each location for each round.

*** Analytical results for certain flagged data are less than the detection limit and are reported as "less than" values. To be conservative, it is assumed these values were at the detection limit.

KMC PROJECT EAGLE
BACKGROUND AMBIENT AIR QUALITY SAMPLING
Passive Air Samples for NOx -Round 1
Analytical Method: Ion Chromatography

Reagent Volume used for Extraction 8.0 ml

NOx

Sample ID**	Sample On Date/Time	Sample Off Date/Time	Sample Period (min)	Analytical Result (µg/mL)	Analyte[NO ₂] Mass (ng)	Blank NOx (ng)	(A)		(C + D)	
							Corrected NOx Mass (ng)	NOx {ppb}		
NOx Blank - 1	Field Blank				320					
NOx - 01-1	05/20/2005 12:44	05/27/2005 10:02	9918	0.040	400	320	80	0.5		
NOx - 01R-1	05/20/2005 13:00	05/27/2005 10:07	9907	0.040	320	320	0	0.0		
NOx - 02-1	05/20/2005 14:05	05/27/2005 10:37	9872	0.050	400	320	80	0.5		
NOx - 02R-1	05/20/2005 14:15	05/27/2005 10:41	9866	0.050	400	320	80	0.4		

NO2

Sample ID**	Sample On Date/Time	Sample Off Date/Time	Sample Period (min)	Mean Temp. (°C)	Mean RH (%)	Analytical Result (µg/mL)	Analyte[NO ₂] Mass (ng)	Blank NO ₂ (ng)	(B)		(C)	
									Corrected NO ₂ Mass (ng)	Conv. Coef. α _{NO2}	NO ₂ (ppb)	NO ₂ (ppb)
NO2 Blank - 1***	Field Blank						240					
NO2 - 01-1	05/20/2005 12:44	05/27/2005 10:02	9918	14.7	62.8	0.040	320	240	80	59.4	0.5	0.5
NO2 - 01R-1***	05/20/2005 13:00	05/27/2005 10:07	9907	14.7	62.8	0.030	240	240	0	59.4	0.0	0.0
NO2 - 02-1***	05/20/2005 14:05	05/27/2005 10:37	9872	14.7	62.8	0.030	240	240	0	59.4	0.0	0.0
NO2 - 02R-1***	05/20/2005 14:15	05/27/2005 10:41	9866	14.7	62.8	0.030	240	240	0	59.4	0.0	0.0

** Analytical results for certain flagged data are less than the detection limit and are reported as "less than" values. To be conservative, it is assumed these values were at the detection limit.

NO

Sample ID**	Sample On Date/Time	Sample Off Date/Time	Sample Period (min)	Mean Temp. (°C)	Mean RH (%)	(A)		(B)		(A - B)		(D)	
						Corrected NOx Mass (ng)	NO Mass (ng)	Corrected NO ₂ Mass (ng)	NO Mass (ng)	Conv. Coef. α _{NO}	NO (ppb)	NO (ppb)	NO (ppb)
NOx - 01-1	05/20/2005 12:44	05/27/2005 10:02	9918	14.7	62.8	80	0	80	0	61.2	0.0	0.0	0.0
NOx - 01R-1	05/20/2005 13:00	05/27/2005 10:07	9907	14.7	62.8	0	0	0	0	61.2	0.0	0.0	0.0
NOx - 02-1	05/20/2005 14:05	05/27/2005 10:37	9872	14.7	62.8	80	80	0	80	61.2	0.5	0.5	0.5
NOx - 02R-1	05/20/2005 14:15	05/27/2005 10:41	9866	14.7	62.8	80	80	0	80	45.5	0.4	0.4	0.4

* All concentrations (ppb) are blank corrected

** The nomenclature for Sample ID reflects the site location and sample round number. One blank is submitted to the lab for each round and media type. The middle portion of the Sample ID indicates the sample location number. The last part of the ID represents the round number. The designation "R" denotes a replicate. One replicate is collected at each location for each round.

*** Analytical results for certain flagged data are less than the detection limit and are reported as "less than" values. To be conservative, it is assumed these values were at the detection limit.

Thursday, July 21, 2005

Curt Dungey
Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

TEL: (920) 496-6918

FAX (920) 497-8516

RE: Eagle Passive Sampling NOX

Order No.: S0506063

Dear Curt Dungey:

Inter-Mountain Laboratories received 5 sample(s) on 6/2/2005 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read 'Wade Nieuwsma', with a stylized flourish at the end.

Wade Nieuwsma
Project Manager

Inter-Mountain Laboratories

Date: 08-Aug-05

CLIENT: Foth and Van Dyke
Project: Eagle Passive Sampling NOX
Lab Order: S0506063

CASE NARRATIVE

Report ID: S0506063001

Samples NOX-01-1, NOX-01R-1, NOX-02-1, NOX-02R-1, and NOX-Blank-1 were received on June 2, 2005.

All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600 "Methods for Chemical Analysis of Water and Wastes", 1993
"Standard Methods For The Examination of Water and Wastewater", 20th ed., 1995
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0506063001

Project: Eagle Passive Sampling NOX

Lab ID: S0506063-001

Client Sample ID NOX-01-1

Matrix: Filter

Work Order: S0506063

Collection Date: 5/27/2005 10:02:00 AM

Date Received: 6/2/2005 11:30:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	0.05	0.03		µg/mL	07/19/2005 1540 LK	EPA 300.0

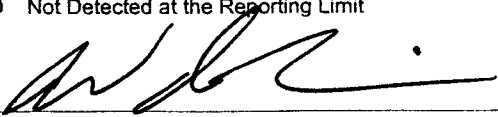
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0506063001

Project: Eagle Passive Sampling NOX
Lab ID: S0506063-002
Client Sample ID NOX-01R-1
Matrix: Filter

Work Order: S0506063
Collection Date: 5/27/2005 10:07:00 AM
Date Received: 6/2/2005 11:30:00 AM

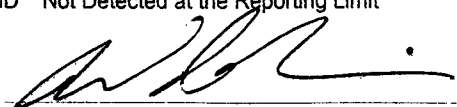
Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	0.04	0.03		µg/mL	07/19/2005 1555 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0506063001

Project: Eagle Passive Sampling NOX

Lab ID: S0506063-003

Client Sample ID NOX-Blank-1

Matrix: Filter

Work Order: S0506063

Collection Date: 5/27/2005 10:10:00 AM

Date Received: 6/2/2005 11:30:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	0.04	0.03		µg/mL	07/19/2005 1609 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 8/8/2005
Report ID: S0506063001

Project: Eagle Passive Sampling NOX
Lab ID: S0506063-004
Client Sample ID NOX-02-1
Matrix: Filter

Work Order: S0506063
Collection Date: 5/27/2005 10:37:00 AM
Date Received: 6/2/2005 11:30:00 AM

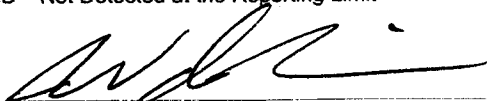
Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	0.05	0.03		µg/mL	07/19/2005 1624 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 8/8/2005
Report ID: S0506063001

Project: Eagle Passive Sampling NOX
Lab ID: S0506063-005
Client Sample ID NOX-02R-1
Matrix: Filter

Work Order: S0506063
Collection Date: 5/27/2005 10:41:00 AM
Date Received: 6/2/2005 11:30:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	0.05	0.03		µg/mL	07/19/2005 1638 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Thursday, July 21, 2005

Curt Dungey
Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

TEL: (920) 496-6918

FAX (920) 497-8516

RE: Eagle Passive Sampling NO2

Order No.: S0506064

Dear Curt Dungey:

Inter-Mountain Laboratories received 5 sample(s) on 6/2/2005 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read 'Wade Nieuwsma', with a long horizontal flourish extending to the right.

Wade Nieuwsma
Project Manager

Inter-Mountain Laboratories

Date: 08-Aug-05

CLIENT: Foth and Van Dyke
Project: Eagle Passive Sampling NO2
Lab Order: S0506064

CASE NARRATIVE

Report ID: S0506064001

Samples NO2-01-1, NO2-01R-1, NO2-02-1, NO2-02R-1, and NO2-Blank-1 were received on June 2, 2005.

All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600 "Methods for Chemical Analysis of Water and Wastes", 1993
"Standard Methods For The Examination of Water and Wastewater", 20th ed., 1995
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road
P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0506064001

Project: Eagle Passive Sampling NO2

Lab ID: S0506064-001

Client Sample ID NO2-01-1

Matrix: Filter

Work Order: S0506064

Collection Date: 5/27/2005 10:02:00 AM

Date Received: 6/2/2005 11:30:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	0.04	0.03		µg/mL	07/19/2005 1247 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 8/8/2005
Report ID: S0506064001

Project: Eagle Passive Sampling NO2
Lab ID: S0506064-002
Client Sample ID NO2-01R-1
Matrix: Filter

Work Order: S0506064
Collection Date: 5/27/2005 10:07:00 AM
Date Received: 6/2/2005 11:30:00 AM

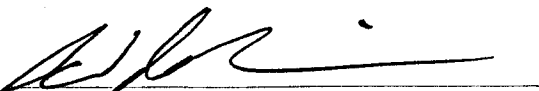
Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	ND	0.03		µg/mL	07/19/2005 1301 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0506064001

Project: Eagle Passive Sampling NO2
Lab ID: S0506064-003
Client Sample ID NO2-Blank-1
Matrix: Filter

Work Order: S0506064
Collection Date: 5/27/2005 10:10:00 AM
Date Received: 6/2/2005 11:30:00 AM

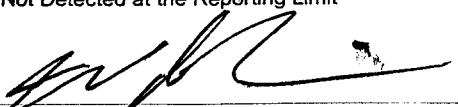
Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	ND	0.03		µg/mL	07/19/2005 1316 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0506064001

Project: Eagle Passive Sampling NO2

Lab ID: S0506064-004

Client Sample ID NO2-02-1

Matrix: Filter

Work Order: S0506064

Collection Date: 5/27/2005 10:37:00 AM

Date Received: 6/2/2005 11:30:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	ND	0.03		µg/mL	07/19/2005 1330 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level

E Value above quantitation range

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

L Analyzed by a contract laboratory

S Spike Recovery outside accepted recovery limits

Reviewed by:



Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0506064001

Project: Eagle Passive Sampling NO2

Lab ID: S0506064-005

Client Sample ID NO2-02R-1

Matrix: Filter

Work Order: S0506064

Collection Date: 5/27/2005 10:41:00 AM

Date Received: 6/2/2005 11:30:00 AM

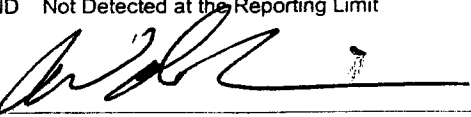
Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	ND	0.03		µg/mL	07/19/2005 1344 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Thursday, July 21, 2005

Curt Dungey
Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

TEL: (920) 496-6918

FAX (920) 497-8516

RE: Eagle Passive Sampling SO2

Order No.: S0506065

Dear Curt Dungey:

Inter-Mountain Laboratories received 5 sample(s) on 6/2/2005 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read 'Wade Nieuwsma', with a long horizontal flourish extending to the right.

Wade Nieuwsma
Project Manager

Inter-Mountain Laboratories

Date: 08-Aug-05

CLIENT: Foth and Van Dyke
Project: Eagle Passive Sampling SO2
Lab Order: S0506065

CASE NARRATIVE

Report ID: S0506065001

Samples SO2-01-1, SO2-01R-1, SO2-02-1, SO2-02R-1, and SO2-Blank-1 were received on June 2, 2005.

All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600 "Methods for Chemical Analysis of Water and Wastes", 1993
"Standard Methods For The Examination of Water and Wastewater", 20th ed., 1995
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road
P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0506065001

Project: Eagle Passive Sampling SO2

Lab ID: S0506065-001

Client Sample ID SO2-01-1

Matrix: Filter

Work Order: S0506065

Collection Date: 5/27/2005 10:02:00 AM

Date Received: 6/2/2005 11:30:00 AM

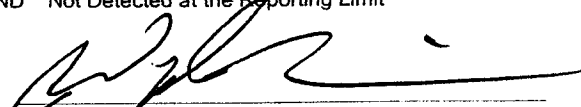
Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Sulfate	0.09	0.03		µg/mL	07/19/2005 1849 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0506065001

Project: Eagle Passive Sampling SO2
Lab ID: S0506065-002
Client Sample ID SO2-01R-1
Matrix: Filter

Work Order: S0506065
Collection Date: 5/27/2005 10:07:00 AM
Date Received: 6/2/2005 11:30:00 AM

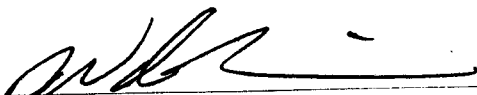
Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Sulfate	0.12	0.03		µg/mL	07/19/2005 1903 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0506065001

Project: Eagle Passive Sampling SO2

Lab ID: S0506065-003

Client Sample ID SO2-Blank-1

Matrix: Filter

Work Order: S0506065

Collection Date: 5/27/2005 10:10:00 AM

Date Received: 6/2/2005 11:30:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Sulfate	0.12	0.03		µg/mL	07/19/2005 1918 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level

E Value above quantitation range

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

L Analyzed by a contract laboratory

S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0506065001

Project: Eagle Passive Sampling SO2

Lab ID: S0506065-004

Client Sample ID SO2-02-1

Matrix: Filter

Work Order: S0506065

Collection Date: 5/27/2005 10:37:00 AM

Date Received: 6/2/2005 11:30:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Sulfate	0.12	0.03		µg/mL	07/19/2005 1932 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0506065001

Project: Eagle Passive Sampling SO2

Lab ID: S0506065-005

Client Sample ID SO2-02R-1

Matrix: Filter

Work Order: S0506065

Collection Date: 5/27/2005 10:41:00 AM

Date Received: 6/2/2005 11:30:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Sulfate	ND	0.03		µg/mL	07/19/2005 1947 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Thursday, July 21, 2005

Curt Dungey
Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

TEL: (920) 496-6918

FAX (920) 497-8516

RE: Eagle Passive Sampling NOX

Order No.: S0507016

Dear Curt Dungey:

Inter-Mountain Laboratories received 5 sample(s) on 6/28/2005 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to be 'Wade Nieuwsma', written in a cursive style.

Wade Nieuwsma
Project Manager

Inter-Mountain Laboratories

Date: 08-Aug-05

CLIENT: Foth and Van Dyke
Project: Eagle Passive Sampling NOX
Lab Order: S0507016

CASE NARRATIVE
Report ID: S0507016001

Samples NOX-01-2, NOX-01R-2, NOX-02-2, NOX-02R-2, and NOX-Blank-2 were received on June 28, 2005.

All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600 "Methods for Chemical Analysis of Water and Wastes", 1993
"Standard Methods For The Examination of Water and Wastewater", 20th ed., 1995
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road
P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0507016001

Project: Eagle Passive Sampling NOX
Lab ID: S0507016-001
Client Sample ID NOX-01-2
Matrix: FilterWork Order: S0507016
Collection Date: 6/24/2005 12:56:00 PM
Date Received: 6/28/2005 11:00:00 AM

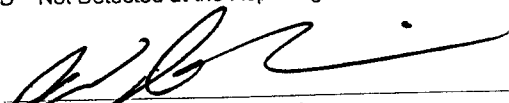
Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	0.05	0.03		µg/mL	07/19/2005 1653 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0507016001

Project: Eagle Passive Sampling NOX

Lab ID: S0507016-002

Client Sample ID NOX-01R-2

Matrix: Filter

Work Order: S0507016

Collection Date: 6/24/2005 1:00:00 PM

Date Received: 6/28/2005 11:00:00 AM

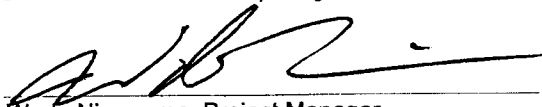
Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	0.03	0.03		µg/mL	07/19/2005 1707 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0507016001

Project: Eagle Passive Sampling NOX
Lab ID: S0507016-003
Client Sample ID NOX-Blank-2
Matrix: Filter

Work Order: S0507016
Collection Date: 6/24/2005 1:03:00 PM
Date Received: 6/28/2005 11:00:00 AM

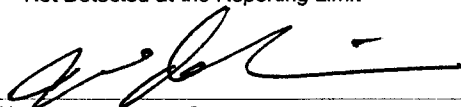
Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	ND	0.03		µg/mL	07/19/2005 1722 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 8/8/2005
Report ID: S0507016001

Project: Eagle Passive Sampling NOX
Lab ID: S0507016-004
Client Sample ID NOX-02-2
Matrix: Filter

Work Order: S0507016
Collection Date: 6/24/2005 1:12:00 PM
Date Received: 6/28/2005 11:00:00 AM

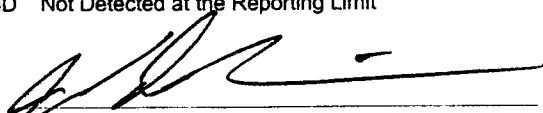
Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	0.03	0.03		µg/mL	07/19/2005 1736 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0507016001

Project: Eagle Passive Sampling NOX

Lab ID: S0507016-005

Client Sample ID NOX-02R-2

Matrix: Filter

Work Order: S0507016

Collection Date: 6/24/2005 1:16:00 PM

Date Received: 6/28/2005 11:00:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	0.04	0.03		µg/mL	07/19/2005 1751 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Thursday, July 21, 2005

Curt Dungey
Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

TEL: (920) 496-6918

FAX (920) 497-8516

RE: Eagle Passive Sampling NO2

Order No.: S0507017

Dear Curt Dungey:

Inter-Mountain Laboratories received 5 sample(s) on 6/28/2005 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read 'Wade Nieuwsma', with a long horizontal stroke extending to the right.

Wade Nieuwsma
Project Manager

CLIENT: Foth and Van Dyke
Project: Eagle Passive Sampling NO2
Lab Order: S0507017

CASE NARRATIVE**Report ID:** S0507017001

Samples NO2-01-2, NO2-01R-2, NO2-02-2, NO2-02R-2, and NO2-Blank-2 were received on June 28, 2005.

All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600 "Methods for Chemical Analysis of Water and Wastes", 1993
"Standard Methods For The Examination of Water and Wastewater", 20th ed., 1995
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0507017001

Project: Eagle Passive Sampling NO2

Lab ID: S0507017-001

Client Sample ID NO2-01-2

Matrix: Filter

Work Order: S0507017

Collection Date: 6/24/2005 12:56:00 PM

Date Received: 6/28/2005 11:00:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	ND	0.03		µg/mL	07/19/2005 1359 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0507017001

Project: Eagle Passive Sampling NO2
Lab ID: S0507017-002
Client Sample ID NO2-01R-2
Matrix: Filter

Work Order: S0507017
Collection Date: 6/24/2005 1:00:00 PM
Date Received: 6/28/2005 11:00:00 AM

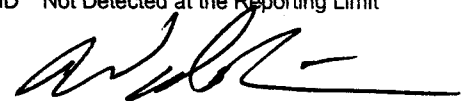
Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	ND	0.03		µg/mL	07/19/2005 1413 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:



Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0507017001

Project: Eagle Passive Sampling NO2

Lab ID: S0507017-003

Client Sample ID NO2-Blank-2

Matrix: Filter

Work Order: S0507017

Collection Date: 6/24/2005 1:03:00 PM

Date Received: 6/28/2005 11:00:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	ND	0.03		µg/mL	07/19/2005 1428 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:



Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0507017001

Project: Eagle Passive Sampling NO2

Lab ID: S0507017-004

Client Sample ID NO2-02-2

Matrix: Filter

Work Order: S0507017

Collection Date: 6/24/2005 1:12:00 PM

Date Received: 6/28/2005 11:00:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	ND	0.03		µg/mL	07/19/2005 1442 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Page 4 of 5

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road
P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0507017001

Project: Eagle Passive Sampling NO2

Lab ID: S0507017-005

Client Sample ID NO2-02R-2

Matrix: Filter

Work Order: S0507017

Collection Date: 6/24/2005 1:16:00 PM

Date Received: 6/28/2005 11:00:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	ND	0.03		µg/mL	07/19/2005 1457 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Thursday, July 21, 2005

Curt Dungey
Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

TEL: (920) 496-6918

FAX (920) 497-8516

RE: Eagle Passive Sampling SO2

Order No.: S0507018

Dear Curt Dungey:

Inter-Mountain Laboratories received 5 sample(s) on 6/28/2005 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read 'Wade Nieuwsma', with a long horizontal stroke extending to the right.

Wade Nieuwsma
Project Manager

Inter-Mountain Laboratories

Date: 08-Aug-05

CLIENT: Foth and Van Dyke
Project: Eagle Passive Sampling SO2
Lab Order: S0507018

CASE NARRATIVE

Report ID: S0507018001

Samples SO2-01-2, SO2-01R-2, SO2-02-2, SO2-02R-2, and SO2-Blank-2 were received on June 28, 2005.

All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600 "Methods for Chemical Analysis of Water and Wastes", 1993
"Standard Methods For The Examination of Water and Wastewater", 20th ed., 1995
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0507018001

Project: Eagle Passive Sampling SO2

Lab ID: S0507018-001

Client Sample ID SO2-01-2

Matrix: Filter

Work Order: S0507018

Collection Date: 6/24/2005 12:56:00 PM

Date Received: 6/28/2005 11:00:00 AM

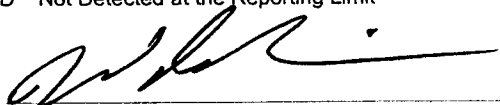
Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Sulfate	0.09	0.03		µg/mL	07/19/2005 2001 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0507018001

Project: Eagle Passive Sampling SO2

Lab ID: S0507018-002

Client Sample ID SO2-01R-2

Matrix: Filter

Work Order: S0507018

Collection Date: 6/24/2005 1:00:00 PM

Date Received: 6/28/2005 11:00:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Sulfate	0.13	0.03		µg/mL	07/19/2005 2016 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level

E Value above quantitation range

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

L Analyzed by a contract laboratory

S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0507018001

Project: Eagle Passive Sampling SO2

Lab ID: S0507018-003

Client Sample ID SO2-Blank-2

Matrix: Filter

Work Order: S0507018

Collection Date: 6/24/2005 1:03:00 PM

Date Received: 6/28/2005 11:00:00 AM

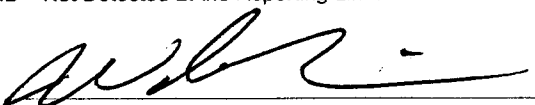
Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Sulfate	0.16	0.03		µg/mL	07/19/2005 2030 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0507018001

Project: Eagle Passive Sampling SO2
Lab ID: S0507018-004
Client Sample ID SO2-02-2
Matrix: Filter

Work Order: S0507018
Collection Date: 6/24/2005 1:12:00 PM
Date Received: 6/28/2005 11:00:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Sulfate	0.07	0.03		µg/mL	07/19/2005 2045 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:



Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0507018001

Project: Eagle Passive Sampling SO2

Lab ID: S0507018-005

Client Sample ID SO2-02R-2

Matrix: Filter

Work Order: S0507018

Collection Date: 6/24/2005 1:16:00 PM

Date Received: 6/28/2005 11:00:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Sulfate	0.09	0.03		µg/mL	07/19/2005 2059 LK	EPA 300.0

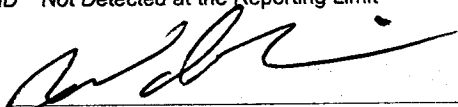
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager



Inter-Mountain Laboratories, Inc.

Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

This is a LEGAL DOCUMENT. All shaded fields must be completed.

97908

Telephone #

Client Name Father and Sons Dairy		Project Identification Environ Positive Sampling		Sampler (Signature/Printed) <i>[Signature]</i>		Telephone # 904-255-3315							
Report Address 2337 South 21st St, PO Box 19012 Gillette, WY 81403		Contact Name and Email Mr. Wayne J. Dineen @ Father and Sons Dairy		Voice (920) 476-6918		FAX (920) 476-6918							
Invoice Address Father and Sons Dairy		Purchase Order # N/A		Quote # N/A									
ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION		Matrix	# of Containers	ANALYSES / PARAMETERS		REMARKS			
1	6050603-001	5/21/05	10:02 AM	NOX / NO ₂ - 01-1		OT	1	X					
2	6050603-002	5/21/05	10:07 AM	NOX / NO ₂ - 01-1		OT	1	X					
3	6050603-003	5/21/05	10:10 AM	NOX / NO ₂ - 01-1		OT	1	X					
4													
5	6050603-004	5/21/05	10:02 AM	SO ₂ - 01-1		OT	1	X					
6	6050603-005	5/21/05	10:07 AM	SO ₂ - 01-1		OT	1	X					
7	6050603-006	5/21/05	10:10 AM	SO ₂ - 01-1		OT	1	X					
8													
9	6050603-007	5/21/05	10:13 AM	NOX / NO ₂ - 02-1		OT	1	X					
10	6050603-008	5/21/05	10:14 AM	NOX / NO ₂ - 02-1		OT	1	X					
11													
12	6050603-009	5/21/05	10:17 AM	SO ₂ - 02-1		OT	1	X					
13	6050603-010	5/21/05	10:18 AM	SO ₂ - 02-1		OT	1	X					
14													
LAB COMMENTS Delivered to Father and Sons Dairy		Relinquished By (Signature/Printed) <i>[Signature]</i>		DATE 5/21/05		TIME 6:10 PM		Received By (Signature/Printed) <i>[Signature]</i>		DATE 6/1/05		TIME 11:30	
SHIPPING INFO		MATRIX CODES		TURN AROUND TIMES		COMPLIANCE INFORMATION		ADDITIONAL REMARKS					
☐ UPS		Water		☒ Check desired service		Compliance Monitoring ?		Y (N)					
☒ Fed Express		Soil		☐ Standard turnaround		Program (SDWA, NPDES, ...)							
☒ US Mail		Solid		☐ RUSH - 5 Working Days		PWSID / Permit #							
☐ Hand Carried		Trip Blank		☐ URGENT - < 2 Working Days		Chlorinated?		Y (N)					
☐ Other		Other		Rush & Urgent Surcharges will be applied		Sample Disposal: Lab		Client					



Inter-Mountain Laboratories, Inc.
Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

This is a LEGAL DOCUMENT. All shaded fields must be completed.

97909

Client Name POTOMAC AND VAN DUKE		Project Identification Enclave Passiv - Sampling		Sampler (Signature/Printed) <i>Charlotte W. Duke</i>		Telephone # (406) 255-5416	
Report Address 2357 SOUTH ROAD, PO BOX 19012 GREEN BAY WIS 53037-9012		Contact Name and Email Charlotte W. Duke / Aileen Dwyer		ANALYSES / PARAMETERS			
Invoice Address Same as above		Purchase Order # N/A		Quote # N/A			
ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers	REMARKS
1	2507016	6/24/05	12:50 pm	NO ₂ /NO ₂ -01-2	OT	1	NO ₂ PASSIVE SAMPLER PADS
2		6/24/05	1:00 pm	NO ₂ /NO ₂ -01R-2	OT	1	
3		6/24/05	1:03 pm	NO ₂ /NO ₂ BLANK-2	OT	1	
4							
5		6/24/05	1:12 pm	NO ₂ /NO ₂ -02-2	OT	1	NO ₂ PASSIVE SAMPLER PADS
6	2507016	6/24/05	1:16 pm	NO ₂ /NO ₂ -02R-2	OT	1	
7							
8	2507016	6/24/05	1:50 pm	SO ₂ -01-2	OT	1	SO ₂ PASSIVE SAMPLER PADS
9		6/24/05	1:00 pm	SO ₂ -01R-2	OT	1	
10		6/24/05	1:03 pm	SO ₂ BLANK-2	OT	1	
11							
12		6/24/05	1:12 pm	SO ₂ -02-2	OT	1	SO ₂ PASSIVE SAMPLER PADS
13		6/24/05	1:16 pm	SO ₂ -02R-2	OT	1	
14							
LAB COMMENTS		Relinquished By (Signature/Printed) <i>Charlotte W. Duke</i>		DATE 6/24/05		TIME 1:50	
SHIPPING INFO		MATRIX CODES		TURN AROUND TIMES		COMPLIANCE INFORMATION	
☐ UPS	☐ Fed Express	Water	WT	Check desired service	Compliance Monitoring ?	Y / N	ADDITIONAL REMARKS
☐ US Mail	☐ Hand Carried	Soil	SL	☒ Standard turnaround	Program (SDWA, NPDES, ...)		
☐ Other		Solid	SD	☐ RUSH - 5 Working Days	PWSID / Permit #		
		Trip Blank	TB	☐ URGENT - < 2 Working Days	Chlorinated?	Y / N	
		Other	OT	Rush & Urgent Surcharges will be applied	Sample Disposal: Lab	Client	

NO_x/NO_2 Passive Sampler Field Data Sheet

Note: This page is a cover sheet, only one is required per batch. If more samples are collected then can fit on this sheet, use multiple copies of page 2 and staple all sheets.

Company/Agency: Foth + Van Dyke / Kennercott
 Contact name: Curt Dungey / Alicia Dux
 Address: 2737 South Ridge Rd, Green Bay, WI 54307
 Telephone: (920) 496-6918
 email address: cdungey@foth.com

Return samples to:

Inter-Mountain Labs
 1633 Terra Avenue
 Sheridan, WY USA 82801
 (307) 672 - 8945

Project name: Eagle
 Project location: Michigan township, Michigan
 Sampling technician: Alicia Dux
 Batch description: passive Samplers (pots for NO_x/NO_2)

sample description or ID (samplers only)	sampler bar code number (IML supplied)	start date	start time	stop date	stop time	elapsed time	average sample temp.	average sample humidity (%)	circle temp. units	sample blank?	Notes
NO_x/NO_2 -01-1		5/20/05	12:44pm	5/27/05	10:02	165 hr 58 min	14.68	62.76	°F	(Y) N	located on (L) side of tree #1
NO_x/NO_2 -01R-1		5/20/05	1:00pm	5/27/05	10:07	165 hr 47 min	14.68	62.76	°F		located on (L) side of tree #2
NO_x/NO_2 -Blank-1		5/20/05	12:44pm	5/27/05	10:10	166 hr 6 min	14.68	62.76	°F	Y	opened while placing other NO_x/NO_2 Samplers - reserved a 166 hr
NO_x/NO_2 -02-1		5/20/05	2:05	5/27/05	10:37	165 hr 12 min	14.61	63.08	°C		located tree #1 away from road
NO_x/NO_2 -02R-1		5/20/05	2:15	5/27/05	10:41	165 hr 6 min	14.61	63.08	°C		located tree #2 100m away from road (L) side of tree

SO₂ Passive Sampler Field Data Sheet

Note: This page is a cover sheet, only one is required per batch. If more samples are collected then can fit on this sheet, use multiple copies of page 2 and staple all sheets.

Company/Agency: Foth + Van Dyke | Kennecott
 Contact name: Curt Dungey / Alicia Dux
 Address: 2737 South Ridge Road, Green Bay WI 54307
 Telephone: (920) 496-6918
 email address: cdungey@foth.com

Return samples to:

Inter-Mountain Labs
 1633 Terra Avenue
 Sheridan, WY USA 82801
 (307) 672-8945

Project name: Eagle
 Project location: Michigamme Township, Michigan
 Sampling technician: Alicia Dux
 Batch description: passive samplers (pads for SO₂)

sample description or ID	sampler bar code number (IML supplied)	start date	start time	stop date	stop time	elapsed time	average sample temp.	average sample humidity (%)	circle temp. units	sample blank?	Notes
SO ₂ -01-1		5/20/05	12:44pm	5/27/05	10:02	165hr 58min	14.68	62.76	°F	(Y) N	located on (R) hand side of tree #1
SO ₂ -01R-1		5/20/05	1:00pm	5/27/05	10:07	165hr 47min	14.68	62.76	°F	(Y) N	located on (R) hand side of tree #2
SO ₂ -BLANK-1		5/20/05	12:44pm	5/27/05	10:10	166hr 6min	14.68	62.76	°F	(Y) N	opened while placing other SO ₂ samplers - released at 1:00pm
SO ₂ -02-1		5/20/05	2:05pm	5/27/05	10:37	165hr 12min	14.61	63.08	°C	(Y) N	located tree #1 toward road
SO ₂ -02R-1		5/20/05	2:15pm	5/27/05	10:41	165hr 6min	14.61	63.08	°C	(Y) N	located tree #2 looking from road (R) side of tree

Passive Monitoring Data and Field Sheets
Round 3
NO_x/SO₂

KMC PROJECT EAGLE
BACKGROUND AMBIENT AIR QUALITY SAMPLING
Passive Air Samples for SO₂ -Round 3
Analytical Method: Ion Chromatography

Prepared by: CED1
 Checked by: AKM

Reagent Volume used for Extraction 8.25 ml

Sample ID**	Sample On Date/Time	Sample Off Date/Time	Sample Period (min)	Mean Temp. (°C)	Analytical Result(µg/mL)	Analyte[SO ₂] Mass (ng)	Blank SO ₂ (ng)	Conv. Coef. α _{SO2}	SO ₂ (ppb)
SO2 Blank - 3	Field Blank				0.080	660			
SO2 - 01-3	07/12/2005 10:30	07/19/2005 11:54	10164	22.63	0.120	990	660	38.4	1.2
SO2 - 01R-3	07/12/2005 10:34	07/19/2005 11:56	10162	22.63	0.060	495	660	38.4	0.0
SO2 - 02-3	07/12/2005 11:05	07/19/2005 12:12	10147	22.63	0.120	990	660	38.4	1.3
SO2 - 02R-3***	07/12/2005 11:08	07/19/2005 12:14	10146	22.63	0.030	248	660	38.4	0.0

* All concentrations (ppb) are blank corrected

** The nomenclature for Sample ID reflects the site location and sampling round. One blank is submitted to the lab for each round and media type. The middle portion of the Sample ID indicates the sample location number. The last part of the ID represents the sampling round. The designation "R" denotes a replicate. One replicate is collected at each location for each round.

*** Analytical results for certain flagged data are less than the detection limit and are reported as "less than" values. To be conservative, it is assumed these values were at the detection limit.

KMC PROJECT EAGLE
BACKGROUND AMBIENT AIR QUALITY SAMPLING
Passive Air Samples for NOx - Round 3
Analytical Method: Ion Chromatography

Prepared by: CED1
 Checked by: AKM

Reagent Volume used for Extraction 8.0 ml

		(A)			(C + D)	
NOx	Sample ID**	Sample On Date/Time	Sample Off Date/Time	Sample Period (min)	Analytical Result (µg/mL)	Analyte [NO ₂] Mass (ng)
	NOx Blank - 3***	Field Blank			0.030	240
	NOx - 01-3	07/12/2005 10:30	07/19/2005 11:54	10164	0.050	400
	NOx - 01R-3	07/12/2005 10:34	07/19/2005 11:56	10162	0.060	480
	NOx - 02-3	07/12/2005 11:05	07/19/2005 12:12	10147	0.070	560
	NOx - 02R-3	07/12/2005 11:08	07/19/2005 12:14	10146	0.040	320

		(B)			(C)	
NO ₂	Sample ID**	Sample On Date/Time	Sample Off Date/Time	Sample Period (min)	Mean Temp. (°C)	Mean RH (%)
	NO ₂ Blank - 3***	Field Blank			0.030	
	NO ₂ - 01-3***	07/12/2005 10:30	07/19/2005 11:54	10164	22.63	66.71
	NO ₂ - 01R-3***	07/12/2005 10:34	07/19/2005 11:56	10162	22.63	66.71
	NO ₂ - 02-3***	07/12/2005 11:05	07/19/2005 12:12	10147	22.63	66.71
	NO ₂ - 02R-3***	07/12/2005 11:08	07/19/2005 12:14	10146	22.63	66.71

		(A)			(B)		(A - B)		(D)	
NO	Sample ID**	Sample On Date/Time	Sample Off Date/Time	Sample Period (min)	Mean Temp. (°C)	Mean RH (%)	Corrected NOx Mass (ng)	Corrected NO ₂ Mass (ng)	NO Mass (ng)	NO Conv. Coef. α _{NO}
	NOx - 01-3	07/12/2005 10:30	07/19/2005 11:54	10164	22.63	66.71	160	0	160	59.5
	NOx - 01R-3	07/12/2005 10:34	07/19/2005 11:56	10162	22.63	66.71	240	0	240	59.5
	NOx - 02-3	07/12/2005 11:05	07/19/2005 12:12	10147	22.63	66.71	320	0	320	59.5
	NOx - 02R-3	07/12/2005 11:08	07/19/2005 12:14	10146	22.63	66.71	80	0	80	59.5

* All concentrations (ppb) are blank corrected

** The nomenclature for Sample ID reflects the site location and sampling round. One blank is submitted to the lab for each round and media type. The middle portion of the Sample ID indicates the sample location number. The last part of the ID represents the sampling round. The designation "R" denotes a replicate. One replicate is collected at each location for each round.

*** Analytical results for certain flagged data are less than the detection limit and are reported as "less than" values. To be conservative, it is assumed these values were at the detection limit.

Curt Dungey
Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

TEL: (920) 496-6918

FAX (920) 497-8516

RE: Eagle Passive Sampling SO2

Order No.: S0507280

Dear Curt Dungey:

Inter-Mountain Laboratories received 5 sample(s) on 7/21/2005 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read 'Wade Nieuwsma', with a long horizontal flourish extending to the right.

Wade Nieuwsma
Project Manager

Date: 08-Aug-05

Inter-Mountain Laboratories

CLIENT: Foth and Van Dyke
Project: Eagle Passive Sampling SO2
Lab Order: S0507280

CASE NARRATIVE

Report ID: S0507280001

Samples SO2-01-3, SO2-01R-3, SO2-02-3, SO2-02R-3, and SO2-BLANK-3 were received on July 21, 2005.

All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600 "Methods for Chemical Analysis of Water and Wastes", 1993
"Standard Methods For The Examination of Water and Wastewater", 20th ed., 1995
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road
P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0507280001

Project: Eagle Passive Sampling SO2

Lab ID: S0507280-001

Client Sample ID SO2-01-3

Matrix: Filter

Work Order: S0507280

Collection Date: 7/19/2005 11:54:00 AM

Date Received: 7/21/2005 9:40:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Sulfate	0.12	0.03		µg/mL	08/03/2005 1431 WN	EPA 300.0

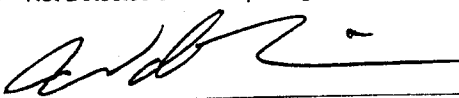
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0507280001

Project: Eagle Passive Sampling SO2
Lab ID: S0507280-002
Client Sample ID SO2-01R-3
Matrix: Filter

Work Order: S0507280
Collection Date: 7/19/2005 11:56:00 AM
Date Received: 7/21/2005 9:40:00 AM

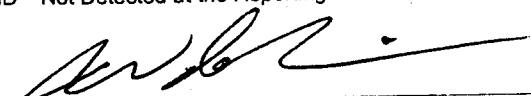
Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Sulfate	0.06	0.03		µg/mL	08/03/2005 1445 WN	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0507280001

Project: Eagle Passive Sampling SO2

Lab ID: S0507280-003

Client Sample ID SO2-BLANK-3

Matrix: Filter

Work Order: S0507280

Collection Date: 7/19/2005 12:00:00 PM

Date Received: 7/21/2005 9:40:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Sulfate	0.08	0.03		µg/mL	08/03/2005 1500 WN	EPA 300.0

These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- S Spike Recovery outside accepted recovery limits

Reviewed by:



Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0507280001

Project: Eagle Passive Sampling SO2

Lab ID: S0507280-004

Client Sample ID SO2-02-3

Matrix: Filter

Work Order: S0507280

Collection Date: 7/19/2005 12:12:00 PM

Date Received: 7/21/2005 9:40:00 AM

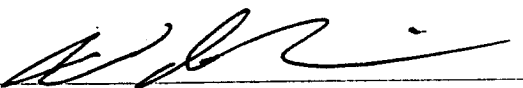
Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Sulfate	0.12	0.03		µg/mL	08/03/2005 1514 WN	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0507280001

Project: Eagle Passive Sampling SO2
Lab ID: S0507280-005
Client Sample ID SO2-02R-3
Matrix: Filter

Work Order: S0507280
Collection Date: 7/19/2005 12:14:00 PM
Date Received: 7/21/2005 9:40:00 AM

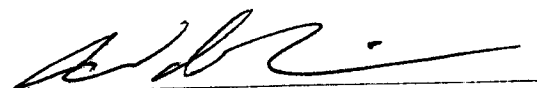
Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Sulfate	ND	0.03		µg/mL	08/03/2005 1528 WN	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Curt Dungey
Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

TEL: (920) 496-6918

FAX (920) 497-8516

RE: Eagle Passive Sampling NOX

Order No.: S0507278

Dear Curt Dungey:

Inter-Mountain Laboratories received 5 sample(s) on 7/21/2005 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Wade Nieuwsma
Project Manager

Inter-Mountain Laboratories

Date: 08-Aug-05

CLIENT: Foth and Van Dyke
Project: Eagle Passive Sampling NOX
Lab Order: S0507278

CASE NARRATIVE

Report ID: S0507278001

Samples NOX-01-3, NOX-01R-3, NOX-02-3, NOX-02R-3, and NOX-BLANK-3 were received on July 21, 2005.

All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600 "Methods for Chemical Analysis of Water and Wastes", 1993
"Standard Methods For The Examination of Water and Wastewater", 20th ed., 1995
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Sample Analysis Report

CLIENT: Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0507278001

Project: Eagle Passive Sampling NOX
Lab ID: S0507278-001
Client Sample ID NOX-01-3
Matrix: Filter

Work Order: S0507278
Collection Date: 7/19/2005 11:54:00 AM
Date Received: 7/21/2005 9:40:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Nitrite	0.05	0.03		µg/mL	08/03/2005 1137 WN	EPA 300.0

These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- S Spike Recovery outside accepted recovery limits

Reviewed by:



Wade Nieuwsma, Project Manager

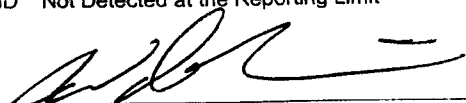
Sample Analysis Report**CLIENT:** Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012**Date Reported:** 8/8/2005**Report ID:** S0507278001**Project:** Eagle Passive Sampling NOX
Lab ID: S0507278-002
Client Sample ID: NOX-01R-3
Matrix: Filter**Work Order:** S0507278
Collection Date: 7/19/2005 11:56:00 AM
Date Received: 7/21/2005 9:40:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	0.06	0.03		µg/mL	08/03/2005 1151 WN	EPA 300.0

These results apply only to the samples tested.

Qualifiers:
* Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting LimitB Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0507278001

Project: Eagle Passive Sampling NOX

Lab ID: S0507278-003

Client Sample ID NOX-BLANK-3

Matrix: Filter

Work Order: S0507278

Collection Date: 7/19/2005 12:00:00 PM

Date Received: 7/21/2005 9:40:00 AM

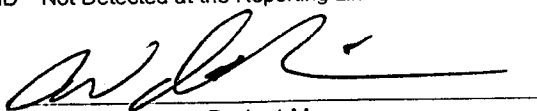
Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Nitrite	ND	0.03		µg/mL	08/03/2005 1206 WN	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0507278001

Project: Eagle Passive Sampling NOX
Lab ID: S0507278-004
Client Sample ID NOX-02-3
Matrix: Filter

Work Order: S0507278
Collection Date: 7/19/2005 12:12:00 PM
Date Received: 7/21/2005 9:40:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Nitrite	0.07	0.03		µg/mL	08/03/2005 1220 WN	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0507278001

Project: Eagle Passive Sampling NOX
Lab ID: S0507278-005
Client Sample ID NOX-02R-3
Matrix: Filter

Work Order: S0507278
Collection Date: 7/19/2005 12:14:00 PM
Date Received: 7/21/2005 9:40:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter	0.04	0.03		µg/mL	08/03/2005 1235 WN	EPA 300.0
Nitrite						

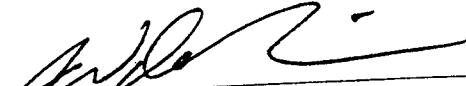
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Curt Dungey
Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

TEL: (920) 496-6918
FAX (920) 497-8516

RE: Eagle Passive Sampling NO2

Order No.: S0507279

Dear Curt Dungey:

Inter-Mountain Laboratories received 5 sample(s) on 7/21/2005 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read 'Wade Nieuwsma', with a stylized, flowing script.

Wade Nieuwsma
Project Manager

Inter-Mountain Laboratories

Date: 08-Aug-05

CLIENT: Foth and Van Dyke
Project: Eagle Passive Sampling NO2
Lab Order: S0507279

CASE NARRATIVE

Report ID: S0507279001

Samples NO2-01-3, NO2-01R-3, NO2-02-3, NO2-02R-3, and NO2-BLANK-3 were received on July 21, 2005.

All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600 "Methods for Chemical Analysis of Water and Wastes", 1993
"Standard Methods For The Examination of Water and Wastewater", 20th ed., 1995
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0507279001

Project: Eagle Passive Sampling NO2

Lab ID: S0507279-001

Client Sample ID NO2-01-3

Matrix: Filter

Work Order: S0507279

Collection Date: 7/19/2005 11:54:00 AM

Date Received: 7/21/2005 9:40:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	ND	0.03		µg/mL	08/03/2005 1249 WN	EPA 300.0

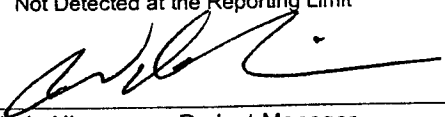
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0507279001

Project: Eagle Passive Sampling NO2
Lab ID: S0507279-002
Client Sample ID NO2-01R-3
Matrix: Filter

Work Order: S0507279
Collection Date: 7/19/2005 11:56:00 AM
Date Received: 7/21/2005 9:40:00 AM

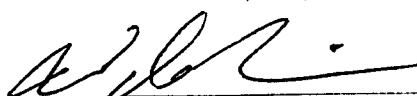
Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	ND	0.03		µg/mL	08/03/2005 1304 WN	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Page 2 of 5

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road
P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0507279001

Project: Eagle Passive Sampling NO2

Lab ID: S0507279-003

Client Sample ID NO2-BLANK-3

Matrix: Filter

Work Order: S0507279

Collection Date: 7/19/2005 12:00:00 PM

Date Received: 7/21/2005 9:40:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Nitrite	ND	0.03		µg/mL	08/03/2005 1318 WN	EPA 300.0

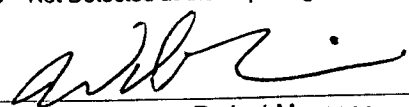
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0507279001

Project: Eagle Passive Sampling NO2
Lab ID: S0507279-004
Client Sample ID NO2-02-3
Matrix: Filter

Work Order: S0507279
Collection Date: 7/19/2005 12:12:00 PM
Date Received: 7/21/2005 9:40:00 AM

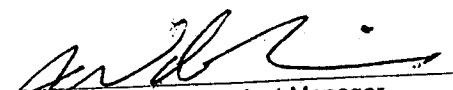
Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Nitrite	ND	0.03		µg/mL	08/03/2005 1333 WN	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 8/8/2005

Report ID: S0507279001

Project: Eagle Passive Sampling NO2
Lab ID: S0507279-005
Client Sample ID NO2-02R-3
Matrix: Filter

Work Order: S0507279
Collection Date: 7/19/2005 12:14:00 PM
Date Received: 7/21/2005 9:40:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Nitrite	ND	0.03		µg/mL	08/03/2005 1347 WN	EPA 300.0

These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager



Inter-Mountain Laboratories, Inc.

Sheridan, WY and Gillette, WY

CHAIN OF CUSTODY RECORD -

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98872

Telephone #

Client Name Foth and Van Duke		Project Identification Early Passive Sampling		Sampler (Signature/Printed) <i>[Signature]</i>		Telephone # 906-225-5911 ext 204	
Report Address 2737 South Ridge Rd, Box 19612 Green Bay, WI 54307-7012		Contact Name and Email Call Dwayne Johnson @ Foth and Van Duke Voice (920) 496-6918 FAX (920) 496-6919		ANALYSES / PARAMETERS			
Invoice Address Same as above		Purchase Order # N/A		Quote # N/A			

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers								REMARKS
1	32279-0611	7/19/05	11:54am	NOX/NO ₂ -01-3	OT	1	X	X	X	X	X	X	X	Organic passive Sampler pads
2	002	7/19/05	11:56am	NOX/NO ₂ -01R-3	OT	1	X	X	X	X	X	X	X	
3	003	7/19/05	12:00pm	NOX/NO ₂ -BLANK-3	OT	1	X	X	X	X	X	X	X	
4														
5	004	7/19/05	12:12pm	NOX/NO ₂ -02-3	OT	1	X	X	X	X	X	X	X	Organic passive Sampler pads
6	005	7/19/05	12:14pm	NOX/NO ₂ -02R-3	OT	1	X	X	X	X	X	X	X	
7														
8	30529-280-001	7/19/05	11:54am	SO ₂ -01-3	OT	1					X	X	X	Organic passive Sampler pads
9	006	7/19/05	11:56am	SO ₂ -01R-3	OT	1					X	X	X	
10	007	7/19/05	12:00pm	SO ₂ -BLANK-3	OT	1					X	X	X	
11														
12	008	7/19/05	12:12pm	SO ₂ -02-3	OT	1					X	X	X	
13	009	7/19/05	12:14pm	SO ₂ -02R-3	OT	1					X	X	X	
14														

LAB COMMENTS 24.4°C	Relinquished By (Signature/Printed) <i>[Signature]</i>	DATE 7/19/05	TIME 10:00am	Received By (Signature/Printed) <i>[Signature]</i>	DATE 7/21/05	TIME 0940

SHIPPING INFO		MATRIX CODES		TURN AROUND TIMES		COMPLIANCE INFORMATION		ADDITIONAL REMARKS	
☐ UPS	☒ Fed Express	Water	WT	☒ Check desired service	Compliance Monitoring?	Y/N			
☒ US Mail	☐ Hand Carried	Soil	SL	☐ Standard turnaround	Program (SDWA, NPDES, ...)				
☐ Other		Solid	SD	☐ RUSH - 5 Working Days	PWSID / Permit #				
		Trip Blank	TB	☐ URGENT - < 2 Working Days	Chlorinated?	Y/N			
		Other	OT	Rush & Urgent Surcharges will be applied	Sample Disposal: Lab	X	Client		

Extraction Volume: Nitrite = 8 mL's
Sulfate = 8.2 mL's

WorkOrder	LabID	SampleID	Sampled	Nitrite $\mu\text{g/mL}$	Sulfate $\mu\text{g/mL}$
S0507278	S0507278-001	NOX-01-3	7/19/05	0.05	
S0507278	S0507278-002	NOX-01R-3	7/19/05	0.06	
S0507278	S0507278-003	NOX-BLANK-3	7/19/05	<0.03	
S0507278	S0507278-004	NOX-02-3	7/19/05	0.07	
S0507278	S0507278-005	NOX-02R-3	7/19/05	0.04	
S0507279	S0507279-001	NO2-01-3	7/19/05	<0.03	
S0507279	S0507279-002	NO2-01R-3	7/19/05	<0.03	
S0507279	S0507279-003	NO2-BLANK-3	7/19/05	<0.03	
S0507279	S0507279-004	NO2-02-3	7/19/05	<0.03	
S0507279	S0507279-005	NO2-02R-3	7/19/05	<0.03	
S0507280	S0507280-001	SO2-01-3	7/19/05		0.12
S0507280	S0507280-002	SO2-01R-3	7/19/05		0.06
S0507280	S0507280-003	SO2-BLANK-3	7/19/05		0.08
S0507280	S0507280-004	SO2-02-3	7/19/05		0.12
S0507280	S0507280-005	SO2-02R-3	7/19/05	<0.03	

NO_x/NO₂ Passive Sampler Field Data Sheet

Note: This page is a cover sheet, only one is required per batch. If more samples are collected then can fit on this sheet, use multiple copies of page 2 and staple all sheets.

Company/Agency: Foth + Van Dyke
 Contact name: Curt Dungey
 Address: 2737 South Ridge Rd, Green Bay, WI 54307
 Telephone: (920) 496-6918
 email address: C.Dungey@foth.com

Return samples to:

Inter-Mountain Labs
 1673 Terra Avenue
 Sheridan, WY USA 82801
 (307) 672-8945

Project name: Eagle
 Project location: Michigamme Township, MI
 Sampling technician: Alicia Dux
 Batch description: passive samplers (pads for NO_x/NO₂)

sample description or ID	sampler bar code number	(IML supplied samplers only)	start date	start time	stop date	stop time	elapsed time	average sample temp.	average relative humidity (%)	circle temp. units	sample blank?	Notes
NO _x /NO ₂ -01-3			7/12/05	10:30am	7/19/05	11:54am	169hr 24min	22.63	66.71	°C	Y	located on (L) side of tree #2 W.S.
NO _x /NO ₂ -01R-3			7/12/05	10:34am	7/19/05	11:56am	169hr 22min	22.63	66.71	°C		located on (L) side of tree #2 W.S.
NO _x /NO ₂ -Blank-3			7/12/05	10:30am	7/19/05	12:00pm	169hr 30min	22.63	66.71	°C	Y	
NO _x /NO ₂ -02-3			7/12/05	11:05am	7/19/05	12:12pm	169hr 7min	22.60	66.82	°C		located on tree #1 away from road
NO _x /NO ₂ -02R-3			7/12/05	11:09am	7/19/05	12:14pm	169hr 5min	22.60	66.82	°C		located on tree #2-looking from road (L) side of tree

7/12 27.6 °C

7/19 18.6 °C

7/19 18.6 °C

62 °C

SO₂ Passive Sampler Field Data Sheet

Note: This page is a cover sheet, only one is required per batch. If more samples are collected then can fit on this sheet, use multiple copies of page 2 and staple all sheets.

Company/Agency: Foth + Van Dyke
 Contact name: Curt Dungey
 Address: _____
 Telephone: (920) 496-6918
 email address: cdungey@foth.com

Return samples to:
 Inter-Mountain Labs
 1693 Terra Avenue
 Sheridan, WY USA 82801
 (307) 672-8945

Project name: Eagle
 Project location: Michiganame Township, MI
 Sampling technician: Alicia Dungey
 Batch description: passive samplers (pids for SO₂)

sample description or ID	sampler bar code number (IML supplied)	start date	start time	stop date	stop time	elapsed time	average sample			sample blank?	Notes
							temp.	humidity (%)	temp. units		
SO ₂ -01-3		7/12/05	10:30am	7/19/05	11:54am	16hr 24min	22.63	66.71	°C	N	located on (R) hand side of tree #1 W.S.
SO ₂ -01R-3		7/12/05	10:34am	7/19/05	11:56am	16hr 22min	22.63	66.71	°C		located on (R) hand side of tree #2 W.S.
SO ₂ -Blank-3		7/12/05	10:30am	7/19/05	12:00pm	16hr 30min	22.63	66.71	°C	Y	
SO ₂ -02-3		7/12/05	11:05am	7/19/05	12:12pm	16hr 7min	22.66	66.82	°C		located tree #1 toward road
SO ₂ -02R-3		7/12/05	11:08am	7/19/05	12:14pm	16hr 6min	22.60	66.82	°C		located tree #2 looking from road (R) side of tree.



Inter-Mountain Laboratories, Inc.
Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

98872

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Telephone #

Project Identification

Client Name
Report Address
Invoice Address

Contact Name and Email

Voice
FAX
Purchase Order #

Quote #

N/A

SAMPLE IDENTIFICATION

Matrix
of Containers

REMARKS

ANALYSES / PARAMETERS

ITEM	LAB ID	DATE SAMPLED	TIME	SAMPLE IDENTIFICATION	Matrix	# of Containers	ANALYSES / PARAMETERS	REMARKS
1		7/14/05	11:54am	NO ₂ /NO ₃ - 01-3	OT	1		On-line passive sampler pads
2		7/14/05	11:56am	NO ₂ /NO ₃ - 01-3	OT	1		
3		7/14/05	12:00pm	NO ₂ /NO ₃ - 01-3	OT	1		
4		7/14/05		NO ₂ /NO ₃ - 02-3	OT	1		On-line passive sampler pads
5		7/14/05	12:12pm	NO ₂ /NO ₃ - 02-3	OT	1		
6		7/14/05	12:14pm	NO ₂ /NO ₃ - 02-3	OT	1		
7		7/14/05		SO ₂ - 01-3	OT	1		
8		7/14/05	11:54am	SO ₂ - 01-3	OT	1		
9		7/14/05	11:56am	SO ₂ - 01-3	OT	1		
10		7/14/05	12:00pm	SO ₂ - 01-3	OT	1		
11		7/14/05		SO ₂ - 02-3	OT	1		
12		7/14/05	12:12pm	SO ₂ - 02-3	OT	1		
13		7/14/05	12:14pm	SO ₂ - 02-3	OT	1		
14								

Relinquished By (Signature/Printed)

Received By (Signature/Printed)

DATE

TIME

DATE

TIME

LAB COMMENTS

SHIPPING INFO		MATRIX CODES		TURN AROUND TIMES		COMPLIANCE INFORMATION		ADDITIONAL REMARKS	
☐ UPS	☐ Fed Express	Water	WT	Check desired service	Compliance Monitoring ?	Y / N			
☐ US Mail	☐ Hand Carried	Soil	SL	☒ Standard turnaround	Program (SDWA, NPDES, ...)				
☐ Other		Solid	SD	☐ RUSH - 5 Working Days	PWSID / Permit #				
		Trip Blank	TB	☐ URGENT - < 2 Working Days	Chlorinated?	Y / N			
		Other	OT	Rush & Urgent Surcharges will be applied	Sample Disposal: Lab	X	Client		

Passive Monitoring Data and Field Sheets
Round 4
NO_x/SO₂

KEMC PROJECT EAGLE
BACKGROUND AMBIENT AIR QUALITY SAMPLING
Passive Air Samples for SO₂ - Round 4
Analytical Method: Ion Chromatography

Prepared by: CED1
 Checked by: AKM

Reagent Volume Used for Extraction 8.20 ml

Sample ID**	Sample On Date/Time	Sample Off Date/Time	Sample Period (min)	Mean Temp. (°C)	Analytical Result(µg/mL)	Analyte[SO ₂] Mass (ng)	Blank SO ₂ (ng)	Conv. Coef. α _{SO2}	SO ₂ (ppb)
SO2 Blank - 4	Field Blank				0.030	246			
SO2 - 01-4	08/19/2005 10:52	09/02/2005 9:45	20093	16.66	0.040	328	246	39.9	0.2
SO2 - 01R-4***	08/19/2005 10:54	09/02/2005 9:47	20093	16.66	0.030	246	246	39.9	0.0
SO2 - 02-4***	08/19/2005 11:16	09/02/2005 10:14	20098	16.66	0.030	246	246	39.9	0.0
SO2 - 02R-4	08/19/2005 11:18	09/02/2005 10:16	20098	16.66	0.060	492	246	39.9	0.5

* All concentrations (ppb) are blank corrected

** The nomenclature for Sample ID reflects the site location and sampling round. One blank is submitted to the lab for each round and media type. The middle portion of the Sample ID indicates the sample location number. The last part of the ID represents the sampling round. The designation "R" denotes a replicate. One replicate is collected at each location for each round.

*** Analytical results for certain flagged data are less than the detection limit and are reported as "less than" values. To be conservative, it is assumed these values were at the detection limit.

KEMC PROJECT EAGLE
BACKGROUND AMBIENT AIR QUALITY SAMPLING
 Passive Air Samples for NOx - Round 4
 Analytical Method: Ion Chromatography

Prepared by: CED1
 Checked by: AKM

Reagent Volume Used for Extraction 8.0 ml

Sample ID**	Sample On		Sample Off		Sample Period (min)	Analytical Result (ug/mL)	Analyte[NO ₂] Mass (ng)	Blank NOx (ng)	(A)		(C + D)	
	Date/Time		Date/Time						Corrected NOx Mass (ng)	NOx (ppb)		
NOx Blank - 4***	Field Blank					0.030	240					
NOx - 01-4	08/19/2005 10:52		09/02/2005 9:45		20093	0.100	800	240	560	1.7		
NOx - 01R-4	08/19/2005 10:54		09/02/2005 9:47		20093	0.100	800	240	560	1.7		
NOx - 02-4	08/19/2005 11:16		09/02/2005 10:14		20098	0.080	640	240	400	1.2		
NOx - 02R-4	08/19/2005 11:18		09/02/2005 10:16		20098	0.090	720	240	480	1.5		

Sample ID**	Sample On		Sample Off		Sample Period (min)	Mean Temp. (°C)	Mean RH (%)	Analytical Result (ug/mL)	Analyte[NO ₂] Mass (ng)	Blank NO ₂ (ng)	(B)		(C)	
	Date/Time		Date/Time								Corrected NO ₂ Mass (ng)	Conv. Coef. α _{NO2}	NO ₂ (ppb)	
NO2 Blank - 4***	Field Blank							0.030	240					
NO2 - 01-4***	08/19/2005 10:52		09/02/2005 9:45		20093	16.66	74.72	0.030	240	240	0	57.5	0.0	
NO2 - 01R-4***	08/19/2005 10:54		09/02/2005 9:47		20093	16.66	74.72	0.030	240	240	0	57.5	0.0	
NO2 - 02-4***	08/19/2005 11:16		09/02/2005 10:14		20098	16.66	74.72	0.030	240	240	0	57.5	0.0	
NO2 - 02R-4***	08/19/2005 11:18		09/02/2005 10:16		20098	16.66	74.72	0.030	240	240	0	57.5	0.0	

Sample ID**	Sample On		Sample Off		Sample Period (min)	Mean Temp. (°C)	Mean RH (%)	(A)		(B)		(A - B)		(D)	
	Date/Time		Date/Time					Corrected NOx Mass (ng)	NOx (ppb)	Corrected NO ₂ Mass (ng)	NO ₂ (ppb)	Blank NO ₂ Mass (ng)	Conv. Coef. α _{NO}	NO (ppb)	
NOx - 01-4	08/19/2005 10:52		09/02/2005 9:45		20093	16.66	74.72	560		0		560	61.8	1.7	
NOx - 01R-4	08/19/2005 10:54		09/02/2005 9:47		20093	16.66	74.72	560		0		560	61.8	1.7	
NOx - 02-4	08/19/2005 11:16		09/02/2005 10:14		20098	16.66	74.72	400		0		400	61.8	1.2	
NOx - 02R-4	08/19/2005 11:18		09/02/2005 10:16		20098	16.66	74.72	480		0		480	61.8	1.5	

* All concentrations (ppb) are blank corrected

** The nomenclature for Sample ID reflects the site location and sampling round. One blank is submitted to the lab for each round and media type. The middle portion of the Sample ID indicates the sample location number. The last part of the ID represents the sampling round. The designation "R" denotes a replicate. One replicate is collected at each location for each round.

*** Analytical results for certain flagged data are less than the detection limit and are reported as "less than" values. To be conservative, it is assumed these values were at the detection limit.

Friday, September 23, 2005

Curt Dungey
Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

TEL: (920) 496-6918

FAX (920) 497-8516

RE: Eagle Passive Sampling-NOX

Order No.: S0509120

Dear Curt Dungey:

Inter-Mountain Laboratories received 5 sample(s) on 9/7/2005 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Wade Nieuwsma
Project Manager

Inter-Mountain Laboratories

Date: 23-Sep-05

CLIENT: Foth and Van Dyke
Project: Eagle Passive Sampling-NOX
Lab Order: S0509120

CASE NARRATIVE

Report ID: S0509120001

Samples NOX-01-4, NOX-01R-4, NOX-02-4, NOX-02R-4, and NOX-Blank-4 were received on September 7, 2005.

All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600 "Methods for Chemical Analysis of Water and Wastes", 1993
"Standard Methods For The Examination of Water and Wastewater", 20th ed., 1995
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 9/23/2005

Report ID: S0509120001

Project: Eagle Passive Sampling-NOX

Lab ID: S0509120-001

Client Sample ID: NOX-01-4

Matrix: Filter

Work Order: S0509120

Collection Date: 9/2/2005 9:45:00 AM

Date Received: 9/7/2005 10:00:00 AM

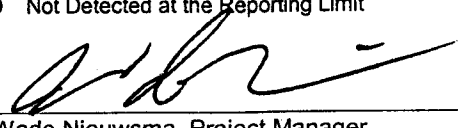
Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	0.10	0.03		µg/mL	09/22/2005 1255 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 9/23/2005

Report ID: S0509120001

Project: Eagle Passive Sampling-NOX

Lab ID: S0509120-002

Client Sample ID: NOX-01R-4

Matrix: Filter

Work Order: S0509120

Collection Date: 9/2/2005 9:47:00 AM

Date Received: 9/7/2005 10:00:00 AM

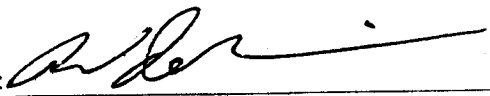
Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	0.10	0.03		µg/mL	09/22/2005 1310 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 9/23/2005

Report ID: S0509120001

Project: Eagle Passive Sampling-NOX

Lab ID: S0509120-003

Client Sample ID: NOX-Blank-4

Matrix: Filter

Work Order: S0509120

Collection Date: 9/2/2005 9:50:00 AM

Date Received: 9/7/2005 10:00:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	ND	0.03		µg/mL	09/22/2005 1324 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level

E Value above quantitation range

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

L Analyzed by a contract laboratory

S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road
P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 9/23/2005

Report ID: S0509120001

Project: Eagle Passive Sampling-NOX

Lab ID: S0509120-004

Client Sample ID: NOX-02-4

Matrix: Filter

Work Order: S0509120

Collection Date: 9/2/2005 10:14:00 AM

Date Received: 9/7/2005 10:00:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	0.08	0.03		µg/mL	09/22/2005 1339 LK	EPA 300.0

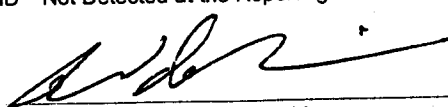
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road
P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 9/23/2005

Report ID: S0509120001

Project: Eagle Passive Sampling-NOX

Lab ID: S0509120-005

Client Sample ID: NOX-02R-4

Matrix: Filter

Work Order: S0509120

Collection Date: 9/2/2005 10:16:00 AM

Date Received: 9/7/2005 10:00:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	0.09	0.03		µg/mL	09/22/2005 1354 LK	EPA 300.0

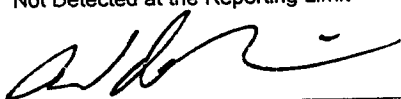
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Inter-Mountain Laboratories

Date: 23-Sep-05

CLIENT: Foth and Van Dyke
Project: Eagle Passive Sampling-NO2
Lab Order: S0509121

CASE NARRATIVE

Report ID: S0509121001

Samples NO2-01-4, NO2-01R-4, NO2-02-4, NO2-02R-4, and NO2-Blank-4 were received on September 7, 2005.

All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600 "Methods for Chemical Analysis of Water and Wastes", 1993
"Standard Methods For The Examination of Water and Wastewater", 20th ed., 1995
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road
P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 9/23/2005

Report ID: S0509121001

Project: Eagle Passive Sampling-NO2

Lab ID: S0509121-001

Client Sample ID: NO2-01-4

Matrix: Filter

Work Order: S0509121

Collection Date: 9/2/2005 9:45:00 AM

Date Received: 9/7/2005 10:00:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	ND	0.03		µg/mL	09/22/2005 1408 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 9/23/2005

Report ID: S0509121001

Project: Eagle Passive Sampling-NO2

Lab ID: S0509121-002

Client Sample ID: NO2-01R-4

Matrix: Filter

Work Order: S0509121

Collection Date: 9/2/2005 9:47:00 AM

Date Received: 9/7/2005 10:00:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Nitrite	ND	0.03		µg/mL	09/22/2005 1423 LK	EPA 300.0

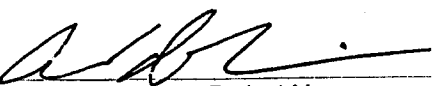
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 9/23/2005

Report ID: S0509121001

Project: Eagle Passive Sampling-NO2

Lab ID: S0509121-003

Client Sample ID: NO2-Blank-4

Matrix: Filter

Work Order: S0509121

Collection Date: 9/2/2005 9:50:00 AM

Date Received: 9/7/2005 10:00:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	ND	0.03		µg/mL	09/22/2005 1437 LK	EPA 300.0

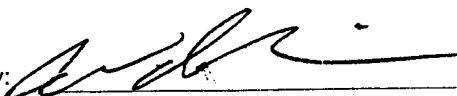
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 9/23/2005

Report ID: S0509121001

Project: Eagle Passive Sampling-NO2
Lab ID: S0509121-004
Client Sample ID: NO2-02-4
Matrix: Filter

Work Order: S0509121
Collection Date: 9/2/2005 10:14:00 AM
Date Received: 9/7/2005 10:00:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	ND	0.03		µg/mL	09/22/2005 1452 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 9/23/2005

Report ID: S0509121001

Project: Eagle Passive Sampling-NO2
Lab ID: S0509121-005
Client Sample ID: NO2-02R-4
Matrix: Filter

Work Order: S0509121
Collection Date: 9/2/2005 10:16:00 AM
Date Received: 9/7/2005 10:00:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	ND	0.03		µg/mL	09/22/2005 1506 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Inter-Mountain Laboratories

Date: 23-Sep-05

CLIENT: Foth and Van Dyke
Project: Eagle Passive Sampling-SO2
Lab Order: S0509122

CASE NARRATIVE

Report ID: S0509122001

Samples SO2-01-4, SO2-01R-4, SO2-02-4, SO2-02R-4, and SO2-Blank-4 were received on September 7, 2005.

All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600 "Methods for Chemical Analysis of Water and Wastes", 1993
"Standard Methods For The Examination of Water and Wastewater", 20th ed., 1995
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 9/23/2005

Report ID: S0509122001

Project: Eagle Passive Sampling-SO2

Lab ID: S0509122-001

Client Sample ID: SO2-01-4

Matrix: Filter

Work Order: S0509122

Collection Date: 9/2/2005 9:45:00 AM

Date Received: 9/7/2005 10:00:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Sulfate	0.04	0.03		µg/mL	09/22/2005 1550 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Page 1 of 5

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road
P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 9/23/2005

Report ID: S0509122001

Project: Eagle Passive Sampling-SO2

Lab ID: S0509122-002

Client Sample ID: SO2-01R-4

Matrix: Filter

Work Order: S0509122

Collection Date: 9/2/2005 9:47:00 AM

Date Received: 9/7/2005 10:00:00 AM

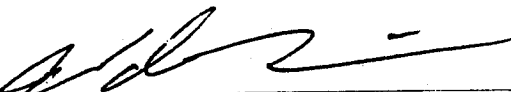
Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Sulfate	ND	0.03		µg/mL	09/22/2005 1604 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:



Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 9/23/2005

Report ID: S0509122001

Project: Eagle Passive Sampling-SO2

Lab ID: S0509122-003

Client Sample ID: SO2-Blank-4

Matrix: Filter

Work Order: S0509122

Collection Date: 9/2/2005 9:50:00 AM

Date Received: 9/7/2005 10:00:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Sulfate	0.03	0.03		µg/mL	09/22/2005 1619 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 9/23/2005

Report ID: S0509122001

Project: Eagle Passive Sampling-SO2
Lab ID: S0509122-004
Client Sample ID: SO2-02-4
Matrix: FilterWork Order: S0509122
Collection Date: 9/2/2005 10:14:00 AM
Date Received: 9/7/2005 10:00:00 AM

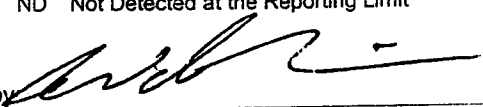
Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Sulfate	ND	0.03		µg/mL	09/22/2005 1633 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 9/23/2005

Report ID: S0509122001

Project: Eagle Passive Sampling-SO2
Lab ID: S0509122-005
Client Sample ID: SO2-02R-4
Matrix: Filter

Work Order: S0509122
Collection Date: 9/2/2005 10:16:00 AM
Date Received: 9/7/2005 10:00:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Sulfate	0.06	0.03		µg/mL	09/22/2005 1648 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by: 

Wade Nieuwsma, Project Manager



Inter-Mountain Laboratories, Inc.

Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

This is a LEGAL DOCUMENT. All shaded fields must be completed.

93873

Telephone #

Sampler (Signature/Printed)

Project Identification

Client Name

John and Van Dyke
2937 South Dodge Rd, Box 19012
Green Bay, WI 54307-9012
Voice 920-149-6418
FAX 920-149-8516
Purchase Order # N/A
Quote # N/A

ANALYSES / PARAMETERS

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers	REMARKS
1	050912-001	9/02/05	9:45am	NO _x / NO ₂ - 01-4	OT	1	Ogawa Passive Sampler per pds
2	002	9/02/05	9:47am	NO _x / NO ₂ - 01R-4	OT	1	
3	002	9/02/05	9:45am	NO _x / NO ₂ - BLANK-4	OT	1	
4							
5	004	9/02/05	10:14am	NO _x / NO ₂ - 02-4	OT	1	Ogawa Passive Sampler per pds
6	004	9/02/05	10:16am	NO _x / NO ₂ - 02R-4	OT	1	
7							
8	050912-001	9/02/05	9:45am	SO ₂ - 01-4	OT	1	Ogawa Passive Sampler per pds
9	002	9/02/05	9:47am	SO ₂ - 01R-4	OT	1	
10	002	9/02/05	9:50am	SO ₂ - BLANK-4	OT	1	
11							
12	004	9/02/05	10:14am	SO ₂ - 02-4	OT	1	
13	005	9/02/05	10:16am	SO ₂ - 02R-4	OT	1	
14							

LAB COMMENTS	Relinquished By (Signature/Printed)	DATE	TIME	Received By (Signature/Printed)	DATE	TIME
12.A	John and Van Dyke	9/02/05	12:00pm	John and Van Dyke	9/7/05	10:00

SHIPPING INFO	MATRIX CODES	TURN AROUND TIMES	COMPLIANCE INFORMATION	ADDITIONAL REMARKS
☐ UPS	Water	Check desired service	Compliance Monitoring? Y/N	
☒ Fed Express	Soil	☒ Standard turnaround	Program (SDWA, NPDES, ...)	
☐ US Mail	Solid	☐ RUSH - 5 Working Days	PWSID / Permit #	
☐ Hand Carried	Trip Blank	☐ URGENT - < 2 Working Days	Chlorinated?	
☐ Other	Other	Rush & Urgent Surcharges will be applied	Sample Disposal: Lab X Client	

Passive Monitoring Data and Field Sheets
Round 5
NO_x, SO_x

Passive Monitoring Data and Field Sheets
Round 5
NO_x, SO_x

Passive Monitoring Data and Field Sheets
Round 5
NO_x, SO_x

KEMC PROJECT EAGLE
BACKGROUND AMBIENT AIR QUALITY SAMPLING
Passive Air Samples for SO₂ - Round 5
Analytical Method: Ion Chromatography

Prepared by: CED1
 Checked by: AKM

Reagent Volume Used for Extraction 8.20 ml

Sample ID**	Sample On Date/Time	Sample Off Date/Time	Sample Period (min)	Mean Temp. (°C)	Analytical Result(µg/mL)	Analyte[SO ₂] Mass (ng)	Blank SO ₂ (ng)	Conv. Coef. α _{SO2}	SO ₂ (ppb)
SO2 Blank - 5	Field Blank				0.030	246			
SO2 - 01-5***	09/16/2005 12:12	09/30/2005 9:53	20021	14.17	0.030	246	246	40.6	0.0
SO2 - 01R-5***	09/16/2005 12:13	09/30/2005 9:56	20023	14.17	0.030	246	246	40.6	0.0
SO2 - 02-5***	09/16/2005 12:37	09/30/2005 10:40	20043	14.16	0.030	246	246	40.6	0.0
SO2 - 02R-5***	09/16/2005 12:38	09/30/2005 10:42	20044	14.16	0.030	246	246	40.6	0.0

* All concentrations (ppb) are blank corrected

** The nomenclature for Sample ID reflects the site location and sampling round. One blank is submitted to the lab for each round and media type. The middle portion of the Sample ID indicates the sample location number. The last part of the ID represents the sampling round. The designation "R" denotes a replicate. One replicate is collected at each location for each round.

*** Analytical results for certain flagged data are less than the detection limit and are reported as "less than" values. To be conservative, it is assumed these values were at the detection limit.

KEMC PROJECT EAGLE
BACKGROUND AMBIENT AIR QUALITY SAMPLING
Passive Air Samples for NOx - Round 5
Analytical Method: Ion Chromatography

Prepared by: CED1
Checked by: AKM

Reagent Volume Used for Extraction 8.0 ml

Sample ID**	Sample On Date/Time	Sample Off Date/Time	Sample Period (min)	Analytical Result (µg/mL)	Analyte[NO ₂] Mass (ng)	Blank NOx (ng)	(A)		(C + D)	
							Corrected NOx Mass (ng)	NOx (ppb)		
NOx Blank - 5***	Field Blank			0.030	240					
NOx - 01-5	09/16/2005 12:12	09/30/2005 9:53	20021	0.090	720	240	480	1.5		
NOx - 01R-5	09/16/2005 12:13	09/30/2005 9:56	20023	0.130	1040	240	800	2.5		
NOx - 02-5	09/16/2005 12:37	09/30/2005 10:40	20043	0.100	800	240	560	1.7		
NOx - 02R-5	09/16/2005 12:38	09/30/2005 10:42	20044	0.100	800	240	560	1.7		

Sample ID**	Sample On Date/Time	Sample Off Date/Time	Sample Period (min)	Mean Temp. (°C)	Mean RH (%)	Analytical Result (µg/mL)	Analyte[NO ₂] Mass (ng)	Blank NO ₂ (ng)	(B)		(C)	
									Corrected NO ₂ Mass (ng)	Conv. Coef. α _{NO2}	NO ₂ (ppb)	
NO2 Blank - 5***	Field Blank					0.030	240					
NO2 - 01-5***	09/16/2005 12:12	09/30/2005 9:53	20021	14.17	73.06	0.030	240	240	0	59.6	0.0	
NO2 - 01R-5***	09/16/2005 12:13	09/30/2005 9:56	20023	14.17	73.06	0.030	240	240	0	59.6	0.0	
NO2 - 02-5***	09/16/2005 12:37	09/30/2005 10:40	20043	14.16	73.03	0.030	240	240	0	59.6	0.0	
NO2 - 02R-5***	09/16/2005 12:38	09/30/2005 10:42	20044	14.16	73.03	0.030	240	240	0	59.6	0.0	

Sample ID**	Sample On Date/Time	Sample Off Date/Time	Sample Period (min)	Mean Temp. (°C)	Mean RH (%)	(A)		(B)		(A - B)		(D)	
						Corrected NOx Mass (ng)	NO Mass (ng)	Corrected NO ₂ Mass (ng)	NO Mass (ng)	Conv. Coef. α _{NO}	NO (ppb)		
NOx - 01-5	09/16/2005 12:12	09/30/2005 9:53	20021	16.66	74.72	480	480	0	480	61.8	1.5		
NOx - 01R-5	09/16/2005 12:13	09/30/2005 9:56	20023	16.66	74.72	800	800	0	800	61.8	2.5		
NOx - 02-5	09/16/2005 12:37	09/30/2005 10:40	20043	16.66	74.72	560	560	0	560	61.8	1.7		
NOx - 02R-5	09/16/2005 12:38	09/30/2005 10:42	20044	16.66	74.72	560	560	0	560	61.8	1.7		

* All concentrations (ppb) are blank corrected

** The nomenclature for Sample ID reflects the site location and sampling round. One blank is submitted to the lab for each round and media type. The middle portion of the Sample ID indicates the sample location number. The last part of the ID represents the sampling round. The designation "R" denotes a replicate. One replicate is collected at each location for each round.

*** Analytical results for certain flagged data are less than the detection limit and are reported as "less than" values. To be conservative, it is assumed these values were at the detection limit.

Tuesday, October 25, 2005

Curt Dungey
Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

TEL: (920) 496-6918

FAX (920) 497-8516

RE: Eagle Passive Sampling SO2

Order No.: S0510055

Dear Curt Dungey:

Inter-Mountain Laboratories received 5 sample(s) on 10/4/2005 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Wade Nieuwsma', with a stylized, flowing script.

Wade Nieuwsma
Project Manager

Inter-Mountain Laboratories

Date: 25-Oct-05

CLIENT: Foth and Van Dyke
Project: Eagle Passive Sampling SO2
Lab Order: S0510055

CASE NARRATIVE

Report ID: S0510055001

Samples SO2-01-5, SO2-01R-5, SO2-02-5, SO2-02R-5, and SO2-BLANK-5 were received on October 4, 2005.

All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600 "Methods for Chemical Analysis of Water and Wastes", 1993
"Standard Methods For The Examination of Water and Wastewater", 20th ed., 1995
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 10/25/2005

Report ID: S0510055001

Project: Eagle Passive Sampling SO2

Lab ID: S0510055-001

Client Sample ID: SO2-01-5

Matrix: Filter

Work Order: S0510055

Collection Date: 9/30/2005 9:53:00 AM

Date Received: 10/4/2005 10:00:00 AM

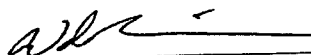
Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Sulfate	ND	0.03		µg/mL	10/18/2005 1246 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 10/25/2005

Report ID: S0510055001

Project: Eagle Passive Sampling SO2
Lab ID: S0510055-002
Client Sample ID: SO2-01R-5
Matrix: Filter

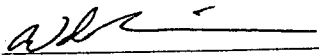
Work Order: S0510055
Collection Date: 9/30/2005 9:56:00 AM
Date Received: 10/4/2005 10:00:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Sulfate	ND	0.03		µg/mL	10/18/2005 1301 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by: 

Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road
P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 10/25/2005

Report ID: S0510055001

Project: Eagle Passive Sampling SO2

Lab ID: S0510055-003

Client Sample ID: SO2-BLANK-5

Matrix: Filter

Work Order: S0510055

Collection Date: 9/30/2005 9:57:00 AM

Date Received: 10/4/2005 10:00:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Sulfate	ND	0.03		µg/mL	10/18/2005 1315 LK	EPA 300.0

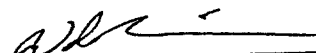
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 10/25/2005

Report ID: S0510055001

Project: Eagle Passive Sampling SO2
Lab ID: S0510055-004
Client Sample ID: SO2-02-5
Matrix: Filter

Work Order: S0510055
Collection Date: 9/30/2005 10:40:00 AM
Date Received: 10/4/2005 10:00:00 AM

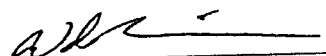
Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Sulfate	ND	0.03		µg/mL	10/18/2005 1330 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:



Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 10/25/2005

Report ID: S0510055001

Project: Eagle Passive Sampling SO2
Lab ID: S0510055-005
Client Sample ID: SO2-02R-5
Matrix: Filter

Work Order: S0510055
Collection Date: 9/30/2005 10:42:00 AM
Date Received: 10/4/2005 10:00:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Sulfate	ND	0.03		µg/mL	10/18/2005 1344 LK	EPA 300.0

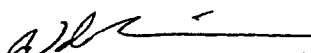
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Tuesday, October 25, 2005

Curt Dungey
Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

TEL: (920) 496-6918

FAX (920) 497-8516

RE: Eagle Passive Sampling NO2

Order No.: S0510054

Dear Curt Dungey:

Inter-Mountain Laboratories received 5 sample(s) on 10/4/2005 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Wade Nieuwsma
Project Manager

Inter-Mountain Laboratories

Date: 25-Oct-05

CLIENT: Foth and Van Dyke
Project: Eagle Passive Sampling NO2
Lab Order: S0510054

CASE NARRATIVE

Report ID: S0510054001

Samples NO2-01-5, NO2-01R-5, NO2-02-5, NO2-02R-5, and NO2-BLANK-5 were received on October 4, 2005.

All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600 "Methods for Chemical Analysis of Water and Wastes", 1993
"Standard Methods For The Examination of Water and Wastewater", 20th ed., 1995
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 10/25/2005

Report ID: S0510054001

Project: Eagle Passive Sampling NO2

Lab ID: S0510054-001

Client Sample ID: NO2-01-5

Matrix: Filter

Work Order: S0510054

Collection Date: 9/30/2005 9:53:00 AM

Date Received: 10/4/2005 10:00:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Nitrite	ND	0.03		µg/mL	10/18/2005 1105 LK	EPA 300.0

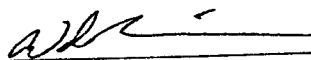
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 10/25/2005

Report ID: S0510054001

Project: Eagle Passive Sampling NO2
Lab ID: S0510054-002
Client Sample ID: NO2-01R-5
Matrix: Filter

Work Order: S0510054
Collection Date: 9/30/2005 9:56:00 AM
Date Received: 10/4/2005 10:00:00 AM

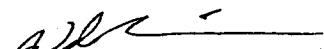
Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Nitrite	ND	0.03		µg/mL	10/18/2005 1119 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 10/25/2005

Report ID: S0510054001

Project: Eagle Passive Sampling NO2

Lab ID: S0510054-003

Client Sample ID: NO2-BLANK-5

Matrix: Filter

Work Order: S0510054

Collection Date: 9/30/2005 9:57:00 AM

Date Received: 10/4/2005 10:00:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	ND	0.03		µg/mL	10/18/2005 1134 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level

E Value above quantitation range

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

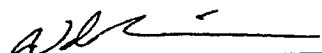
B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

L Analyzed by a contract laboratory

S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 10/25/2005

Report ID: S0510054001

Project: Eagle Passive Sampling NO2
Lab ID: S0510054-004
Client Sample ID: NO2-02-5
Matrix: Filter

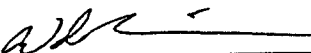
Work Order: S0510054
Collection Date: 9/30/2005 10:40:00 AM
Date Received: 10/4/2005 10:00:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Nitrite	ND	0.03		µg/mL	10/18/2005 1148 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 10/25/2005

Report ID: S0510054001

Project: Eagle Passive Sampling NO2

Lab ID: S0510054-005

Client Sample ID: NO2-02R-5

Matrix: Filter

Work Order: S0510054

Collection Date: 9/30/2005 10:42:00 AM

Date Received: 10/4/2005 10:00:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Nitrite	ND	0.03		µg/mL	10/18/2005 1203 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level

E Value above quantitation range

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

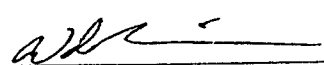
B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

L Analyzed by a contract laboratory

S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Tuesday, October 25, 2005

Curt Dungey
Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

TEL: (920) 496-6918

FAX (920) 497-8516

RE: Eagle Passive Sampling NOX

Order No.: S0510053

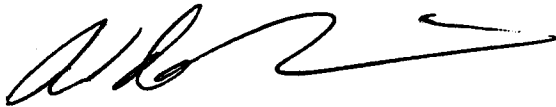
Dear Curt Dungey:

Inter-Mountain Laboratories received 5 sample(s) on 10/4/2005 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Wade Nieuwsma
Project Manager

Inter-Mountain Laboratories

Date: 25-Oct-05

CLIENT: Foth and Van Dyke
Project: Eagle Passive Sampling NOX
Lab Order: S0510053

CASE NARRATIVE

Report ID: S0510053001

Samples NOX-01-5, NOX-01R-5, NOX-02-5, NOX-02R-5, and NOX-BLANK-5 were received on October 4, 2005.

All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600 "Methods for Chemical Analysis of Water and Wastes", 1993
"Standard Methods For The Examination of Water and Wastewater", 20th ed., 1995
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Sample Analysis Report

CLIENT: Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 10/25/2005

Report ID: S0510053001

Project: Eagle Passive Sampling NOX
Lab ID: S0510053-001
Client Sample ID: NOX-01-5
Matrix: Filter

Work Order: S0510053
Collection Date: 9/30/2005 9:53:00 AM
Date Received: 10/4/2005 10:00:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Nitrite	0.09	0.03		µg/mL	10/18/2005 953 LK	EPA 300.0

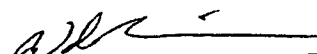
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road
P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 10/25/2005

Report ID: S0510053001

Project: Eagle Passive Sampling NOX

Lab ID: S0510053-002

Client Sample ID: NOX-01R-5

Matrix: Filter

Work Order: S0510053

Collection Date: 9/30/2005 9:56:00 AM

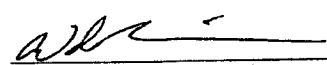
Date Received: 10/4/2005 10:00:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	0.13	0.03		µg/mL	10/18/2005 1007 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by: 

Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 10/25/2005

Report ID: S0510053001

Project: Eagle Passive Sampling NOX
Lab ID: S0510053-003
Client Sample ID: NOX-BLANK-5
Matrix: Filter

Work Order: S0510053
Collection Date: 9/30/2005 9:57:00 AM
Date Received: 10/4/2005 10:00:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Nitrite	ND	0.03		µg/mL	10/18/2005 1022 LK	EPA 300.0

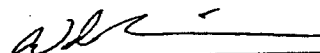
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 10/25/2005

Report ID: S0510053001

Project: Eagle Passive Sampling NOX
Lab ID: S0510053-004
Client Sample ID: NOX-02-5
Matrix: Filter

Work Order: S0510053
Collection Date: 9/30/2005 10:40:00 AM
Date Received: 10/4/2005 10:00:00 AM

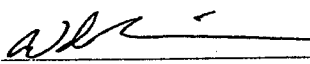
Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Nitrite	0.10	0.03		µg/mL	10/18/2005 1036 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 10/25/2005

Report ID: S0510053001

Project: Eagle Passive Sampling NOX

Lab ID: S0510053-005

Client Sample ID: NOX-02R-5

Matrix: Filter

Work Order: S0510053

Collection Date: 9/30/2005 10:42:00 AM

Date Received: 10/4/2005 10:00:00 AM

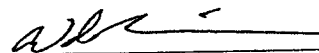
Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Nitrite	0.10	0.03		µg/mL	10/18/2005 1051 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Project Manager



Inter-Mountain Laboratories, Inc.

Sheridan, WY and Gillette, WY

CHAIN OF CUSTODY RECORD

This is a LEGAL DOCUMENT. All shaded fields must be completed.

98874

Telephone #

906-225-5791 ext 204

Client Name Foth + Van Dyke		Project Identification Early Passive Sampling		Sampler (Signature/Printed) Alicia Duex		Telephone # 906-225-5791 ext 204	
Report Address 2737 South Ridge Rd, PO Box 19012 Green Bay, WI 54307-9012		Contact Name and Email Curt Dwyer, dwyer@foth.com		ANALYSES / PARAMETERS			
Invoice Address Same as above		Voice 920-496-6918		Matrix			
		FAX 920-496-6918					
Purchase Order # N/A		Quote # N/A					
ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers	REMARKS	
1	50510055-001	9/30/05	NOX/NO2-01-S	OT	1	ogawa passive sampler pads	
2	002	9/30/05	NOX/NO2-01R-S	OT	1	↓	
3	003	9/30/05	NOX/NO2-BLANK-S	OT	1	ogawa passive sampler pads	
4						↓	
5	004	9/30/05	NOX/NO2-02-S	OT	1	ogawa passive sampler pads	
6	005	9/30/05	NOX/NO2-02R-S	OT	1	↓	
7							
8	50510055-001	9/30/05	SO2-01-S	OT	1	ogawa passive sampler pads	
9	002	9/30/05	SO2-01R-S	OT	1	↓	
10	003	9/30/05	SO2-BLANK-S	OT	1	ogawa passive sampler pads	
11						↓	
12	004	9/30/05	SO2-02-S	OT	1	ogawa passive sampler pads	
13	005	9/30/05	SO2-02R-S	OT	1	↓	
14							

LAB COMMENTS	DATE	TIME	DATE	TIME
150	9/30/05	12:00pm	10/4/05	1000

Relinquished By (Signature/Printed) Alicia Duex		Received By (Signature/Printed) Karen Asada	
---	--	---	--

SHIPPING INFO		TURN AROUND TIMES		COMPLIANCE INFORMATION		ADDITIONAL REMARKS	
☐ UPS	☒ Fed Express	Water	Check desired service	Compliance Monitoring ?	Y/N		
☒ Fed Express	☐ US Mail	Soil	☒ Standard turnaround	Program (SDWA, NPDES, ...)			
☐ US Mail	☐ Hand Carried	Solid	☐ RUSH - 5 Working Days	PWSID / Permit #			
☐ Hand Carried	☐ Other	Trip Blank	☐ URGENT - < 2 Working Days	Chlorinated?	Y/N		
☐ Other		Other	Rush & Urgent Surcharges will be applied	Sample Disposal: Lab	X	Client	

WorkOrder	ProjectName	ClientSampleID	LabID	SampleDate	DateReceived	Matrix	Units	Analyte	Result	PQL	AnalysisDate	Method
S0510053	Eagle Passive Sampling NOX	NOX-01-5	S0510053-001	9/30/05	10/4/05	Filter	µg/mL	Nitrite	0.09	0.03	10/18/05	EPA 300.0
S0510053	Eagle Passive Sampling NOX	NOX-01R-5	S0510053-002	9/30/05	10/4/05	Filter	µg/mL	Nitrite	0.13	0.03	10/18/05	EPA 300.0
S0510053	Eagle Passive Sampling NOX	NOX-BLANK-5	S0510053-003	9/30/05	10/4/05	Filter	µg/mL	Nitrite	ND	0.03	10/18/05	EPA 300.0
S0510053	Eagle Passive Sampling NOX	NOX-02-5	S0510053-004	9/30/05	10/4/05	Filter	µg/mL	Nitrite	0.10	0.03	10/18/05	EPA 300.0
S0510053	Eagle Passive Sampling NOX	NOX-02R-5	S0510053-005	9/30/05	10/4/05	Filter	µg/mL	Nitrite	0.10	0.03	10/18/05	EPA 300.0
S0510054	Eagle Passive Sampling NO2	NO2-01-5	S0510054-001	9/30/05	10/4/05	Filter	µg/mL	Nitrite	ND	0.03	10/18/05	EPA 300.0
S0510054	Eagle Passive Sampling NO2	NO2-01R-5	S0510054-002	9/30/05	10/4/05	Filter	µg/mL	Nitrite	ND	0.03	10/18/05	EPA 300.0
S0510054	Eagle Passive Sampling NO2	NO2-BLANK-5	S0510054-003	9/30/05	10/4/05	Filter	µg/mL	Nitrite	ND	0.03	10/18/05	EPA 300.0
S0510054	Eagle Passive Sampling NO2	NO2-02-5	S0510054-004	9/30/05	10/4/05	Filter	µg/mL	Nitrite	ND	0.03	10/18/05	EPA 300.0
S0510054	Eagle Passive Sampling NO2	NO2-02R-5	S0510054-005	9/30/05	10/4/05	Filter	µg/mL	Nitrite	ND	0.03	10/18/05	EPA 300.0
S0510055	Eagle Passive Sampling SO2	SO2-01-5	S0510055-001	9/30/05	10/4/05	Filter	µg/mL	Sulfate	ND	0.03	10/18/05	EPA 300.0
S0510055	Eagle Passive Sampling SO2	SO2-01R-5	S0510055-002	9/30/05	10/4/05	Filter	µg/mL	Sulfate	ND	0.03	10/18/05	EPA 300.0
S0510055	Eagle Passive Sampling SO2	SO2-BLANK-5	S0510055-003	9/30/05	10/4/05	Filter	µg/mL	Sulfate	ND	0.03	10/18/05	EPA 300.0
S0510055	Eagle Passive Sampling SO2	SO2-02-5	S0510055-004	9/30/05	10/4/05	Filter	µg/mL	Sulfate	ND	0.03	10/18/05	EPA 300.0
S0510055	Eagle Passive Sampling SO2	SO2-02R-5	S0510055-005	9/30/05	10/4/05	Filter	µg/mL	Sulfate	ND	0.03	10/18/05	EPA 300.0

NOX and NO2 extraction volume = 8 mL
SO2 extraction volume = 8.2 mL

SO₂ Passive Sampler Field Data Sheet

Note: This page is a cover sheet, only one is required per batch. If more samples are collected then can fit on this sheet, use multiple copies of page 2 and staple all sheets.

Company/Agency: Foth + Van Dyke
 Contact name: Curt Dungey
 Address: 2737 South Ridge Rd, Green Bay WI 54307
 Telephone: (920) 496-6918
 email address: cdungey@foth.com

Return samples to:
 Inter-Mountain Labs
 1633 Terra Avenue
 Sheridan, WY USA 82801
 (307) 672-8945

Project name: Bayle
 Project location: Michigamme Township, MI
 Sampling technician: Jon Cherry + Alvin Dwyer
 Batch description: passive samplers (pads for SO₂) - round 5

sample description or ID	sampler bar code number (IML samplers only)	start date	start time	stop date	stop time	elapsed time	average sample temp.	average sample relative humidity (%)	circle temp. units	sample blank?	Notes
SO ₂ -01-S		9/16	12:12	9/30/65	9:53am	335 hr 41 min	14.17	73.66	°C	Y	located on (A) hand side of tree #1 W.S.
SO ₂ -01R-S		9/16	12:13		9:56am	333 hr 43 min	14.17	73.66	↓		located on (A) hand side of tree #2 W.S.
SO ₂ -BLANK-S		9/16				—	—	—	↑	Y	
SO ₂ -02-S		9/16	12:37	9/30/65	10:40am	334 hr 3 min	14.16	73.63	°C		located in tree #1 toward the road
SO ₂ -02R-S		9/16	12:38		10:42am	334 hr 4 min	14.16	73.03	↓		located in tree #2 looking from road (A) side of tree.

NO_x/NO_2 Passive Sampler Field Data Sheet

Note: This page is a cover sheet, only one is required per batch. If more samples are collected than can fit on this sheet, use multiple copies of page 2 and staple all sheets.

Company/Agency: Foth + Van Dyke
 Contact name: Curt Dungey
 Address: 2737 South Ridge Rd, Green Bay, WI 54307
 Telephone: (920) 496-6918
 email address: cdungey@foth.com

Project name: Eagle
 Project location: Michiganame Township, MI
 Sampling technician: Jon Cherry + Alicia Drex
 Batch description: passive samplers (pods for NO_x/NO_2) rounds

Return samples to:
 Inter-Mountain Labs
 1633 Terra Avenue
 Sheridan, WY USA 82801
 (307) 672 - 8945

sample description or ID (samplers only)	sampler bar code number	sample (IML supplied)	start date	start time	stop date	stop time	elapsed time	average sample temp.	average relative humidity (%)	circle temp. units	sample blank?	Notes
NO_x/NO_2 -01-S		9/16	12:12	9/30/05		9:53 am	333 hr 41 min	14.17	73.06	°C	(y) N	located on (L) side of tree #1 W.S.
NO_x/NO_2 -01R-S		9/16	12:13			9:56 am	333 hr 43 min	14.17	73.06			located on (L) side of tree #2 W.S.
NO_x/NO_2 -BLANK-S		9/16									Y	
NO_x/NO_2 -02-S		9/16	12:37	9/30/05		10:40 am	334 hr 3 min	14.16	73.03	°C		located on tree #2 away from the road
NO_x/NO_2 -02R-S		9/16	12:38			10:42 am	334 hr 4 min	14.16	73.03			located on tree #2 - leading from road (L) side of tree



Inter-Mountain Laboratories, Inc.

Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

This is a LEGAL DOCUMENT. All shaded fields must be completed.

93874

Client Name		Project Identification		Sampler (Signature/Printed)		Telephone #		
Roth + Van Dyke		Eagle Passive Sampling		D. C. M. Dwyer / A. J. Dwyer		906-411-1111		
Report Address		Contact Name and Email		Voice		FAX		
2032 S. 1st St. Suite 20, PO Box 19012		D. C. M. Dwyer / A. J. Dwyer		906-411-1111		906-411-1111		
Green Bay, WI 54307-9012		Purchase Order #		Quote #				
Invoice Address		Same as above		N/A				
ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers	ANALYSES / PARAMETERS	REMARKS
1	801-001-001	9/30/05	9:53am	NOx / NO2 - 01-S	OT	1	X	original passive sampler pads
2	801-001-002	9/30/05	9:56am	NOx / NO2 - 01R-S	OT	1	X	
3	801-001-003	9/30/05	9:57am	NOx / NO2 - BLANK-S	OT	1	X	
4								
5	801-001-004	9/30/05	10:40am	NOx / NO2 - 02-S	OT	1	X	original passive sampler pads
6	801-001-005	9/30/05	10:42am	NOx / NO2 - 02R-S	OT	1	X	
7								
8	801-001-006	9/30/05	9:53am	SO2 - 01-S	OT	1	X	original passive sampler pads
9	801-001-007	9/30/05	9:56am	SO2 - 01R-S	OT	1	X	
10	801-001-008	9/30/05	9:57am	SO2 - BLANK-S	OT	1	X	
11								
12	801-001-009	9/30/05	10:40am	SO2 - 02-S	OT	1	X	
13	801-001-010	9/30/05	10:42am	SO2 - 02R-S	OT	1	X	
14								

LAB COMMENTS	Relinquished By (Signature/Printed)	DATE	TIME	Received By (Signature/Printed)	DATE	TIME
150	D. C. M. Dwyer / A. J. Dwyer	10/13/05	12:00pm	Karen K. Dwyer	10/14/05	1000

SHIPPING INFO		MATRIX CODES		TURN AROUND TIMES		COMPLIANCE INFORMATION		ADDITIONAL REMARKS	
☐ UPS	☒ Fed Express	Water	WT	Check desired service	Compliance Monitoring ?	Y / N			
☒ US Mail	☐ Hand Carried	Soil	SL	☒ Standard turnaround	Program (SDWA, NPDES, ...)	-			
☐ Other		Solid	SD	☐ RUSH - 5 Working Days	PWSID / Permit #				
		Trip Blank	TB	☐ URGENT - < 2 Working Days	Chlorinated?	Y / N			
		Other	OT	Rush & Urgent Surcharges will be applied	Sample Disposal: Lab	X	Client		

Passive Monitoring Data and Field Sheets
Round 6
NO_x, SO_x

KEMC PROJECT EAGLE
BACKGROUND AMBIENT AIR QUALITY SAMPLING
Passive Air Samples for NOx - Round 6
Analytical Method: Ion Chromatography

Prepared by: CED1
Checked by: AKM

Reagent Volume Used for Extraction

8.0 ml

Sample ID**	Sample On Date/Time	Sample Off Date/Time	Sample Period (min)	Analytical Result (µg/mL)	Analyte [NO ₂] Mass (ng)	Blank NOx (ng)	(A)		(C + D)	
							Corrected NOx Mass (ng)	NOx (ppb)		
NOx Blank - 6***	Field Blank			0.030	240					
NOx - 01-6	10/21/2005 10:30	11/04/2005 10:32	20162	0.090	720	240	480	1.5		
NOx - 01R-6	10/21/2005 10:40	11/04/2005 10:35	20155	0.100	800	240	560	1.8		
NOx - 02-6	10/21/2005 11:34	11/04/2005 11:58	20184	0.080	640	240	400	1.3		
NOx - 02R-6	10/21/2005 11:36	11/04/2005 12:02	20186	0.090	720	240	480	1.5		

Sample ID**	Sample On Date/Time	Sample Off Date/Time	Sample Period (min)	Mean Temp. (°C)	Mean RH (%)	Analytical Result (µg/mL)	Analyte [NO ₂] Mass (ng)	Blank NO ₂ (ng)	Corrected NO ₂ Mass (ng)	(B)		(C)	
										Conv. Coef. α _{NO2}	NO ₂ (ppb)		
NO2 Blank - 6***	Field Blank					0.030	240						
NO2 - 01-6***	10/21/2005 10:30	11/04/2005 10:32	20162	6.13	80.97	0.030	240	240	0	63.7	0.0		
NO2 - 01R-6	10/21/2005 10:40	11/04/2005 10:35	20155	6.13	80.97	0.030	240	240	0	63.7	0.0		
NO2 - 02-6	10/21/2005 11:34	11/04/2005 11:58	20184	6.13	80.97	0.030	240	240	0	63.7	0.0		
NO2 - 02R-6	10/21/2005 11:36	11/04/2005 12:02	20186	6.13	80.97	0.030	240	240	0	63.7	0.0		

Sample ID**	Sample On Date/Time	Sample Off Date/Time	Sample Period (min)	Mean Temp. (°C)	Mean RH (%)	(A)		(B)		(A - B)		(D)	
						Corrected NOx Mass (ng)	NO	Corrected NO ₂ Mass (ng)	NO	Conv. Coef. α _{NO}	NO (ppb)		
NOx - 01-6	10/21/2005 10:30	11/04/2005 10:32	20162	6.13	80.97	480	480	0	480	63.8	1.5		
NOx - 01R-6	10/21/2005 10:40	11/04/2005 10:35	20155	6.13	80.97	560	560	0	560	63.8	1.8		
NOx - 02-6	10/21/2005 11:34	11/04/2005 11:58	20184	6.13	80.97	400	400	0	400	63.8	1.3		
NOx - 02R-6	10/21/2005 11:36	11/04/2005 12:02	20186	6.13	80.97	480	480	0	480	63.8	1.5		

* All concentrations (ppb) are blank corrected

** The nomenclature for Sample ID reflects the site location and sampling round. One blank is submitted to the lab for each round and media type. The middle portion of the Sample ID indicates the sample location number. The last part of the ID represents the sampling round. The designation "R" denotes a replicate. One replicate is collected at each location for each round.

*** Analytical results for certain flagged data are less than the detection limit and are reported as "less than" values. To be conservative, it is assumed these values were at the detection limit.

KEMC PROJECT EAGLE
BACKGROUND AMBIENT AIR QUALITY SAMPLING
Passive Air Samples for SO₂ - Round 6
Analytical Method: Ion Chromatography

Prepared by: CED1
 Checked by: AKM

Reagent Volume Used for Extraction

8.20 ml

Sample ID**	Sample On Date/Time	Sample Off Date/Time	Sample Period (min)	Mean Temp. (°C)	Analytical Result(µg/mL)	Analyte[SO ₂] Mass (ng)	Blank SO ₂ (ng)	Conv. Coef. α _{SO2}	SO ₂ (ppb)
SO2 Blank - 6***	Field Blank				0.030	246			
SO2 - 01-6	10/21/2005 10:30	11/04/2005 10:32	20162	6.13	0.040	328	246	42.7	0.2
SO2 - 01R-6	10/21/2005 10:40	11/04/2005 10:35	20155	6.13	0.030	246	246	42.7	0.0
SO2 - 02-6***	10/21/2005 11:34	11/04/2005 11:58	20184	6.13	0.030	246	246	42.7	0.0
SO2 - 02R-6	10/21/2005 11:36	11/04/2005 12:02	20186	6.13	0.040	328	246	42.7	0.2

* All concentrations (ppb) are blank corrected

** The nomenclature for Sample ID reflects the site location and sampling round. One blank is submitted to the lab for each round and media type. The middle portion of the Sample ID indicates the sample location number. The last part of the ID represents the sampling round. The designation "R" denotes a replicate. One replicate is collected at each location for each round.

*** Analytical results for certain flagged data are less than the detection limit and are reported as "less than" values. To be conservative, it is assumed these values were at the detection limit.

Curt Dungey
Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

TEL: (920) 496-6918

FAX (920) 497-8516

RE: Eagle Passive Sampling NOX

Order No.: S0511093

Dear Curt Dungey:

Inter-Mountain Laboratories received 5 sample(s) on 11/8/2005 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read 'Wade Nieuwsma', with a long horizontal flourish extending to the right.

Wade Nieuwsma
Project Manager

Inter-Mountain Laboratories

Date: 02-Dec-05

CLIENT: Foth and Van Dyke
Project: Eagle Passive Sampling NOX
Lab Order: S0511093

CASE NARRATIVE

Report ID: S0511093001

Samples NOX-01-6, NOX-02-6, NOX-02R-6, NOX-0R1-6, and NOX-BLANK-6 were received on November 8, 2005.

All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600 "Methods for Chemical Analysis of Water and Wastes", 1993
"Standard Methods For The Examination of Water and Wastewater", 20th ed., 1995
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 12/2/2005

Report ID: S0511093001

Project: Eagle Passive Sampling NOX

Lab ID: S0511093-001

Client Sample ID: NOX-01-6

Matrix: Filter

Work Order: S0511093

Collection Date: 11/4/2005 10:32:00 AM

Date Received: 11/8/2005 11:05:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	0.09	0.03		µg/mL	11/22/2005 1013 LK	EPA 300.0

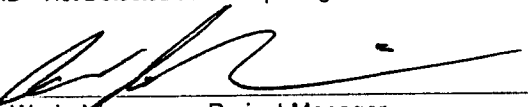
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 12/2/2005

Report ID: S0511093001

Project: Eagle Passive Sampling NOX

Lab ID: S0511093-002

Client Sample ID: NOX-0R1-6

Matrix: Filter

Work Order: S0511093

Collection Date: 11/4/2005 10:35:00 AM

Date Received: 11/8/2005 11:05:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	0.10	0.03		µg/mL	11/22/2005 1028 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level

E Value above quantitation range

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

L Analyzed by a contract laboratory

S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road
P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 12/2/2005

Report ID: S0511093001

Project: Eagle Passive Sampling NOX

Lab ID: S0511093-003

Client Sample ID: NOX-BLANK-6

Matrix: Filter

Work Order: S0511093

Collection Date: 11/4/2005 10:36:00 AM

Date Received: 11/8/2005 11:05:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Nitrite	ND	0.03		µg/mL	11/22/2005 1042 LK	EPA 300.0

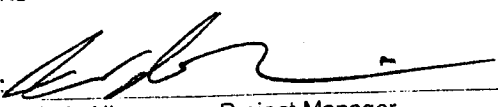
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 12/2/2005

Report ID: S0511093001

Project: Eagle Passive Sampling NOX

Lab ID: S0511093-004

Client Sample ID: NOX-02-6

Matrix: Filter

Work Order: S0511093

Collection Date: 11/4/2005 11:58:00 AM

Date Received: 11/8/2005 11:05:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	0.08	0.03		µg/mL	11/22/2005 1057 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level

E Value above quantitation range

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

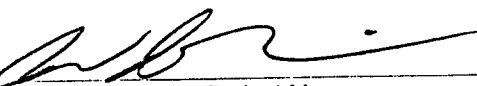
B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

L Analyzed by a contract laboratory

S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road
P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 12/2/2005

Report ID: S0511093001

Project: Eagle Passive Sampling NOX

Lab ID: S0511093-005

Client Sample ID: NOX-02R-6

Matrix: Filter

Work Order: S0511093

Collection Date: 11/4/2005 12:02:00 PM

Date Received: 11/8/2005 11:05:00 AM

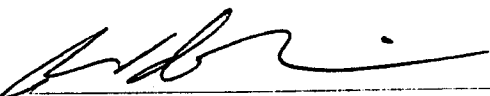
Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	0.09	0.03		µg/mL	11/22/2005 1111 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Page 5 of 5

Curt Dungey
Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

TEL: (920) 496-6918
FAX (920) 497-8516

RE: Eagle Passive Sampling NO2

Order No.: S0511094

Dear Curt Dungey:

Inter-Mountain Laboratories received 5 sample(s) on 11/8/2005 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read 'Wade Nieuwsma', with a long horizontal flourish extending to the right.

Wade Nieuwsma
Project Manager

Inter-Mountain Laboratories

Date: 02-Dec-05

CLIENT: Foth and Van Dyke
Project: Eagle Passive Sampling NO2
Lab Order: S0511094

CASE NARRATIVE

Report ID: S0511094001

Samples NO2-01-6, NO2-01R-6, NO2-02-6, NO2-02R-6, and NO2-BLANK-6 were received on November 8, 2005.

All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600 "Methods for Chemical Analysis of Water and Wastes", 1993
"Standard Methods For The Examination of Water and Wastewater", 20th ed., 1995
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 12/2/2005

Report ID: S0511094001

Project: Eagle Passive Sampling NO2

Lab ID: S0511094-001

Client Sample ID: NO2-01-6

Matrix: Filter

Work Order: S0511094

Collection Date: 11/4/2005 10:32:00 AM

Date Received: 11/8/2005 11:05:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Nitrite	ND	0.03		µg/mL	11/22/2005 1126 LK	EPA 300.0

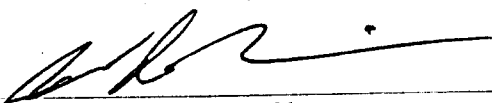
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 12/2/2005

Report ID: S0511094001

Project: Eagle Passive Sampling NO2

Lab ID: S0511094-002

Client Sample ID: NO2-01R-6

Matrix: Filter

Work Order: S0511094

Collection Date: 11/4/2005 10:35:00 AM

Date Received: 11/8/2005 11:05:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	0.03	0.03		µg/mL	11/22/2005 1140 LK	EPA 300.0

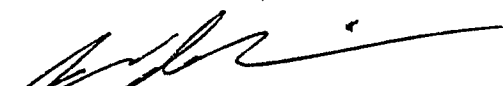
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 12/2/2005

Report ID: S0511094001

Project: Eagle Passive Sampling NO2
Lab ID: S0511094-003
Client Sample ID: NO2-BLANK-6
Matrix: Filter

Work Order: S0511094
Collection Date: 11/4/2005 10:36:00 AM
Date Received: 11/8/2005 11:05:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Nitrite	ND	0.03		µg/mL	11/22/2005 1155 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 12/2/2005

Report ID: S0511094001

Project: Eagle Passive Sampling NO2
Lab ID: S0511094-004
Client Sample ID: NO2-02-6
Matrix: Filter

Work Order: S0511094
Collection Date: 11/4/2005 11:58:00 AM
Date Received: 11/8/2005 11:05:00 AM

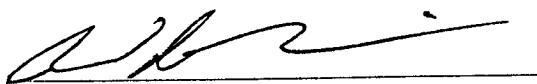
Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	0.03	0.03		µg/mL	11/22/2005 1209 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road
P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 12/2/2005

Report ID: S0511094001

Project: Eagle Passive Sampling NO2

Lab ID: S0511094-005

Client Sample ID: NO2-02R-6

Matrix: Filter

Work Order: S0511094

Collection Date: 11/4/2005 12:02:00 PM

Date Received: 11/8/2005 11:05:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	0.03	0.03		µg/mL	11/22/2005 1224 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Curt Dungey
Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

TEL: (920) 496-6918

FAX (920) 497-8516

RE: Eagle Passive Sampling SO2

Order No.: S0511095

Dear Curt Dungey:

Inter-Mountain Laboratories received 5 sample(s) on 11/8/2005 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read 'Wade Nieuwsma', with a long horizontal flourish extending to the right.

Wade Nieuwsma
Project Manager

Inter-Mountain Laboratories

Date: 02-Dec-05

CLIENT: Foth and Van Dyke
Project: Eagle Passive Sampling SO2
Lab Order: S0511095

CASE NARRATIVE

Report ID: S0511095001

Samples SO2-01-6, SO2-01R-6, SO2-02-6, SO2-02R-6, and SO2-BLANK-6 were received on November 8, 2005.

All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600 "Methods for Chemical Analysis of Water and Wastes", 1993
"Standard Methods For The Examination of Water and Wastewater", 20th ed., 1995
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 12/2/2005

Report ID: S0511095001

Project: Eagle Passive Sampling SO2

Lab ID: S0511095-001

Client Sample ID: SO2-01-6

Matrix: Filter

Work Order: S0511095

Collection Date: 11/4/2005 10:32:00 AM

Date Received: 11/8/2005 11:05:00 AM

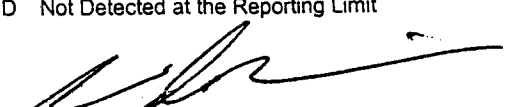
Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Sulfate	0.04	0.03		µg/mL	11/22/2005 1307 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 12/2/2005

Report ID: S0511095001

Project: Eagle Passive Sampling SO2
Lab ID: S0511095-002
Client Sample ID: SO2-01R-6
Matrix: Filter

Work Order: S0511095
Collection Date: 11/4/2005 10:35:00 AM
Date Received: 11/8/2005 11:05:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Sulfate	0.03	0.03		µg/mL	11/22/2005 1322 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 12/2/2005

Report ID: S0511095001

Project: Eagle Passive Sampling SO2

Lab ID: S0511095-003

Client Sample ID: SO2-BLANK-6

Matrix: Filter

Work Order: S0511095

Collection Date: 11/4/2005 10:36:00 AM

Date Received: 11/8/2005 11:05:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Sulfate	ND	0.03		µg/mL	11/22/2005 1336 LK	EPA 300.0

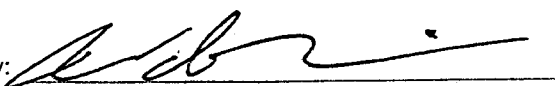
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 12/2/2005

Report ID: S0511095001

Project: Eagle Passive Sampling SO2

Lab ID: S0511095-004

Client Sample ID: SO2-02-6

Matrix: Filter

Work Order: S0511095

Collection Date: 11/4/2005 11:58:00 AM

Date Received: 11/8/2005 11:05:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Sulfate	ND	0.03		µg/mL	11/22/2005 1351 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 12/2/2005

Report ID: S0511095001

Project: Eagle Passive Sampling SO2

Lab ID: S0511095-005

Client Sample ID: SO2-02R-6

Matrix: Filter

Work Order: S0511095

Collection Date: 11/4/2005 12:02:00 PM

Date Received: 11/8/2005 11:05:00 AM

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Sulfate	0.04	0.03		µg/mL	11/22/2005 1405 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Extraction Volume:

Nitrite = 8 mL's
Sulfate = 8.2 mL's

WorkOrder	LabID	SampleID	Sampled	Nitrite µg/mL	Sulfate µg/mL
S0511093	S0511093-001	NOX-01-6	11/4/05	0.09	
S0511093	S0511093-002	NOX-0R1-6	11/4/05	0.10	
S0511093	S0511093-003	NOX-BLANK-6	11/4/05	<0.03	
S0511093	S0511093-004	NOX-02-6	11/4/05	0.08	
S0511093	S0511093-005	NOX-02R-6	11/4/05	0.09	
S0511094	S0511094-001	NO2-01-6	11/4/05	<0.03	
S0511094	S0511094-002	NO2-01R-6	11/4/05	0.03	
S0511094	S0511094-003	NO2-BLANK-6	11/4/05	<0.03	
S0511094	S0511094-004	NO2-02-6	11/4/05	0.03	
S0511094	S0511094-005	NO2-02R-6	11/4/05	0.03	
S0511095	S0511095-001	SO2-01-6	11/4/05		0.04
S0511095	S0511095-002	SO2-01R-6	11/4/05	-	0.03
S0511095	S0511095-003	SO2-BLANK-6	11/4/05		<0.03
S0511095	S0511095-004	SO2-02-6	11/4/05		<0.03
S0511095	S0511095-005	SO2-02R-6	11/4/05		0.04

NO_x/NO₂ Passive Sampler Field Data Sheet

Note: This page is a cover sheet, only one is required per batch. If more samples are collected then can fit on this sheet, use multiple copies of page 2 and staple all sheets.

Company/Agency: Foth + Van Dyke

Contact name: Curt Dungey

Address: 2737 South Ridge Rd, Green Bay, WI 54307

Telephone: (920) 496-6918

email address: cdungey@foth.com

Project name: Eagle

Project location: Michiganame Township, MI

Sampling technician: Alicia Duerk

Batch description: passive samplers (pabs) for (NO_x/NO₂) round

Return samples to:

Inter-Mountain Labs

1633 Terra Avenue

Sheridan, WY USA 82801

(307) 672-8945

sample description or ID	sampler bar code number (IML supplied)	start date	start time	stop date	stop time	elapsed time	average sample temp.	average sample relative humidity (%)	circle temp. units	sample blank?	Notes
NO _x /NO ₂ -01-6		10/21/05	10:30am	11/04/05	10:32am	336 hr 2 min	6.13	80.47	°F	N	located on (L) side of tree #2 W.S.
NO _x /NO ₂ -01R-6		↓	10:40am	↓	10:35am	335 hr 55 min	6.13	86.47	↓		located on (L) side of tree #2. W.S.
NO _x /NO ₂ -BLANK-6		↓		↓		—	—	—	↓	Y	
									°C		
NO _x /NO ₂ -02-6		11/21/05	11:34am	11/04/05	11:58am	336 hr 24 min	6.13	81.03	↓		located on tree #7 away from the road.
NO _x /NO ₂ -02R-6		↓	11:36am	↓	12:02pm	336 hr 26 min	6.13	81.03	↓		located on tree #2 - 100m from road (L) side of tree.

SO₂ Passive Sampler Field Data Sheet

Note: This page is a cover sheet, only one is required per batch. If more samples are collected then can fit on this sheet, use multiple copies of page 2 and staple all sheets.

Company/Agency: Foth + Van Dike

Contact name: Curt Dungey

Address: 2737 South Ridge Rd, Green Bay, WI 54307

Telephone: (920) 496-6918

email address: cdungey@foth.com

Project name: Eagle

Project location: Michigan Township, MI

Sampling technician: Alicia Drex

Batch description: passive samplers (pds) for (SO₂) round

Return samples to:

Inter-Mountain Labs

1638 Terra Avenue

Sheridan, WY USA 82801

(307) 672-8945.

sample description or ID	sampler bar code number (IML supplied only)	start date	start time	stop date	stop time	elapsed time	average sample temp.	average sample relative humidity (%)	circle temp. units	sample blank?	Notes
SO ₂ -01-6		10/21/05	10:30 am	11/4/05	10:32 am	336 hr 2 min	6.13	80.97	°C	Y	located on (L) side of tree #2. W.S.
SO ₂ -012-6			10:40 am		10:35 am	335 hr 55 min	6.13	80.47	°C		located on (R) side of tree #2. W.S.
SO ₂ -BLANK-6									°C	Y	
SO ₂ -02-6		10/21/05	11:34 am	11/4/05	11:58 am	336 hr 24 min	6.13	81.03	°C		located in tree #1 toward the road
SO ₂ -022-6			11:36 am		12:02 pm	336 hr 26 min	6.13	81.03	°C		located in tree #2 looking from road (R) side of tree,



Inter-Mountain Laboratories, Inc.

Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

This is a LEGAL DOCUMENT. All shaded fields must be completed.

93875

Client Name Feltz & Van Dine		Project Identification Lead-Pass Sampling		Sampler (Signature/Printed) Alanna M. Dwyer		Telephone # 906-225-5791	
Report Address 2737 S. Main R. Box 19012 Green Bay WI 5307-9012		Contact Name and Email Alanna M. Dwyer		ANALYSES / PARAMETERS			
Invoice Address Shirley A. Dwyer		Purchase Order # 1119		Quote # N/A			
		Voice 6420-476-6414					
		FAX 6420-476-8314					
		Matrix		# of Containers			
ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION		REMARKS	
1	0051104105	11/04/05	10:52am	NO ₂ / NO ₂ - 01-b		✓	
2	0051104105	11/04/05	10:53am	NO ₂ / NO ₂ - 01R-b		✓	
3	0051104105	11/04/05	10:53am	NO ₂ / NO ₂ - BLANK-b		✓	
4							
5	0051104105	11/04/05	11:58am	NO ₂ / NO ₂ - 02-b		✓	
6	0051104105	11/04/05	12:07pm	NO ₂ / NO ₂ - 02R-b		✓	
7							
8	0051104105	11/04/05	10:52am	SO ₂ - 01-b		✓	
9	0051104105	11/04/05	10:53am	SO ₂ - 01R-b		✓	
10	0051104105	11/04/05	10:53am	SO ₂ - BLANK-b		✓	
11							
12	0051104105	11/04/05	11:58am	SO ₂ - 02-b		✓	
13	0051104105	11/04/05	12:06pm	SO ₂ - 02R-b		✓	
14							
LAB COMMENTS 10.7		Relinquished By (Signature/Printed) Alanna M. Dwyer		DATE 11/04/05		TIME 12:00pm	
SHIPPING INFO		MATRIX CODES		TURN AROUND TIMES		COMPLIANCE INFORMATION	
☐ UPS		Water		Check desired service		Compliance Monitoring ?	
☐ Fed Express		Soil		☐ Standard turnaround		Program (SDWA, NPDES, ...)	
☐ US Mail		Solid		☒ RUSH - 5 Working Days		PWSID / Permit #	
☐ Hand Carried		Trip Blank		☐ URGENT - < 2 Working Days		Chlorinated?	
☐ Other		Other		Rush & Urgent Surcharges will be applied		Sample Disposal: Lab ☒ Client	
		WT				Y / (N)	
		SL				Y / (N)	
		SD				Y / (N)	
		TB				Y / (N)	
		OT				Y / (N)	

Passive Monitoring Data and Field Sheets
Round 7
NO_x, SO_x

KEMC PROJECT EAGLE
BACKGROUND AMBIENT AIR QUALITY SAMPLING
Passive Air Samples for NOx - Round 7
Analytical Method: Ion Chromatography

Prepared by: CED1
Checked by: AKM

Reagent Volume Used for Extraction

8.0 ml

NOx	Sample ID**	Sample On Date/Time	Sample Off Date/Time	Sample Period (min)	Analytical Result (µg/mL)	Analyte [NO ₂] Mass (ng)	Blank NOx (ng)	(A)		(C + D)	
								Corrected NOx Mass (ng)	NOx (ppb)		
	NOx Blank - 7***	Field Blank			0.030	240					
	NOx - 01-7	11/18/2005 11:16	12/02/2005 13:05	20269	0.100	800	240	560		1.9	
	NOx - 01R-7	11/18/2005 11:20	12/02/2005 13:09	20269	0.170	1360	240	1120		3.7	
	NOx - 02-7	11/18/2005 0:36	12/02/2005 13:32	20936	0.130	1040	240	800		2.6	
	NOx - 02R-7	11/18/2005 0:41	12/02/2005 13:34	20933	0.130	1040	240	800		2.6	

NO ₂	Sample ID**	Sample On Date/Time	Sample Off Date/Time	Sample Period (min)	Mean Temp. (°C)	Mean RH (%)	Analytical Result (µg/mL)	Analyte [NO ₂] Mass (ng)	Blank NO ₂ (ng)	(B)		(C)	
										Corrected NO ₂ Mass (ng)	Conv. Coef. q _{NO2}	NO ₂ (ppb)	NO ₂ (ppb)
	NO ₂ Blank - 7***	Field Blank					0.030	240					
	NO ₂ - 01-7	11/18/2005 11:16	12/02/2005 13:05	20269	-4.16	87.76	0.070	560	240	320		71.0	1.1
	NO ₂ - 01R-7	11/18/2005 11:20	12/02/2005 13:09	20269	-4.16	87.76	0.070	560	240	320		71.0	1.1
	NO ₂ - 02-7	11/18/2005 0:36	12/02/2005 13:32	20936	-4.16	87.76	0.070	560	240	320		71.0	1.1
	NO ₂ - 02R-7	11/18/2005 0:41	12/02/2005 13:34	20933	-4.16	87.76	0.070	560	240	320		71.0	1.1

NO	Sample ID**	Sample On Date/Time	Sample Off Date/Time	Sample Period (min)	Mean Temp. (°C)	Mean RH (%)	(A)		(B)		(A - B)		(D)	
							Corrected NOx Mass (ng)	NO Mass (ng)	Corrected NO ₂ Mass (ng)	Conv. Coef. q _{NO}	NO Mass (ng)	Conv. Coef. q _{NO2}	NO (ppb)	NO (ppb)
	NOx - 01-7	11/18/2005 11:16	12/02/2005 13:05	20269	-4.16	87.76	560	240	320		240	66.0	0.8	
	NOx - 01R-7	11/18/2005 11:20	12/02/2005 13:09	20269	-4.16	87.76	1120	800	320		800	66.0	2.6	
	NOx - 02-7	11/18/2005 0:36	12/02/2005 13:32	20936	-4.16	87.76	800	480	320		480	66.0	1.5	
	NOx - 02R-7	11/18/2005 0:41	12/02/2005 13:34	20933	-4.16	87.76	800	480	320		480	66.0	1.5	

* All concentrations (ppb) are blank corrected

** The nomenclature for Sample ID reflects the site location and sampling round. One blank is submitted to the lab for each round and media type. The middle portion of the Sample ID indicates the sample location number. The last part of the ID represents the sampling round. The designation "R" denotes a replicate. One replicate is collected at each location for each round.

*** Analytical results for certain flagged data are less than the detection limit and are reported as "less than" values. To be conservative, it is assumed these values were at the detection limit.

KEMC PROJECT EAGLE
BACKGROUND AMBIENT AIR QUALITY SAMPLING
Passive Air Samples for SO₂ - Round 7
Analytical Method: Ion Chromatography

Prepared by: CED1
 Checked by: AKM

Reagent Volume Used for Extraction 8.20 ml

Sample ID**	Sample On Date/Time	Sample Off Date/Time	Sample Period (min)	Mean Temp. (°C)	Analytical Result(µg/mL)	Analyte[SO ₂] Mass (ng)	Blank SO ₂ (ng)	Conv. Coef. α _{SO2}	SO ₂ (ppb)
SO2 Blank - 7***	Field Blank				0.030	246			
SO2 - 01-7	11/18/2005 11:16	12/02/2005 13:05	20269	-4.16	0.120	984	246	45.6	1.7
SO2 - 01R-7	11/18/2005 11:20	12/02/2005 13:09	20269	-4.16	0.050	410	246	45.6	0.4
SO2 - 02-7	11/18/2005 0:36	12/02/2005 13:32	20936	-4.16	0.040	328	246	45.6	0.2
SO2 - 02R-7	11/18/2005 0:41	12/02/2005 13:34	20933	-4.16	0.040	328	246	45.6	0.2

* All concentrations (ppb) are blank corrected

** The nomenclature for Sample ID reflects the site location and sampling round. One blank is submitted to the lab for each round and media type. The middle portion of the Sample ID indicates the sample location number. The last part of the ID represents the sampling round. The designation "R" denotes a replicate. One replicate is collected at each location for each round.

*** Analytical results for certain flagged data are less than the detection limit and are reported as "less than" values. To be conservative, it is assumed these values were at the detection limit.

Wednesday, December 14, 2

Curt Dungey
Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

TEL: (920) 496-6918
FAX (920) 497-8516

RE: Eagle Passive Sampling NOX

Order No.: S0512037

Dear Curt Dungey:

Inter-Mountain Laboratories received 5 sample(s) on 12/6/2005 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Wade Nieuwsma
Project Manager

Inter-Mountain Laboratories

Date: 14-Dec-05

CLIENT: Foth and Van Dyke
Project: Eagle Passive Sampling NOX
Lab Order: S0512037

CASE NARRATIVE**Report ID:** S0512037001

Samples NOX-01-7, NOX-01R-7, NOX-02-7, NOX-02R-7, and NOX-BLANK-7 were received on December 6, 2005.

All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600 "Methods for Chemical Analysis of Water and Wastes", 1993
"Standard Methods For The Examination of Water and Wastewater", 20th ed., 1995
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Project: Eagle Passive Sampling NOX

Lab ID: S0512037-001

Client Sample ID: NOX-01-7

Matrix: Filter

Date Reported: 12/14/2005

Report ID: S0512037001

Work Order: S0512037

Collection Date: 12/2/2005 1:05:00 PM

Date Received: 12/6/2005 11:05:00 AM

Sampler: AD

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Nitrite	0.10	0.03		µg/mL	12/07/2005 2034 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level

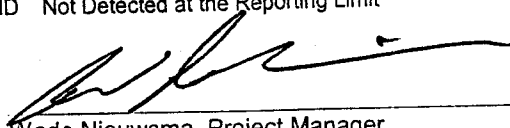
E Value above quantitation range

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 12/14/2005

Report ID: S0512037001

Project: Eagle Passive Sampling NOX

Lab ID: S0512037-002

Client Sample ID: NOX-01R-7

Matrix: Filter

Work Order: S0512037

Collection Date: 12/2/2005 1:09:00 PM

Date Received: 12/6/2005 11:05:00 AM

Sampler: AD

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	0.17	0.03		µg/mL	12/07/2005 2048 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level

E Value above quantitation range

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

L Analyzed by a contract laboratory

S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 12/14/2005

Report ID: S0512037001

Work Order: S0512037

Collection Date: 12/2/2005

Date Received: 12/6/2005 11:05:00 AM

Sampler: AD

Project: Eagle Passive Sampling NOX

Lab ID: S0512037-003

Client Sample ID: NOX-BLANK-7

Matrix: Filter

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Nitrite	ND	0.03		µg/mL	12/07/2005 2103 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Project: Eagle Passive Sampling NOX

Lab ID: S0512037-004

Client Sample ID: NOX-02-7

Matrix: Filter

Date Reported: 12/14/2005

Report ID: S0512037001

Work Order: S0512037

Collection Date: 12/2/2005 1:32:00 PM

Date Received: 12/6/2005 11:05:00 AM

Sampler: AD

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Nitrite	0.13	0.03		µg/mL	12/07/2005 2117 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 12/14/2005

Report ID: S0512037001

Work Order: S0512037

Collection Date: 12/2/2005 1:34:00 PM

Date Received: 12/6/2005 11:05:00 AM

Sampler: AD

Project: Eagle Passive Sampling NOX

Lab ID: S0512037-005

Client Sample ID: NOX-02R-7

Matrix: Filter

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Nitrite	0.13	0.03		µg/mL	12/07/2005 2132 LK	EPA 300.0

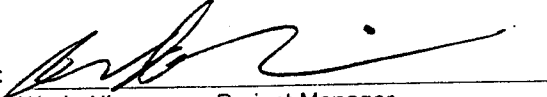
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Curt Dungey
Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

TEL: (920) 496-6918

FAX (920) 497-8516

RE: Eagle Passive Sampling NO2

Order No.: S0512038

Dear Curt Dungey:

Inter-Mountain Laboratories received 5 sample(s) on 12/6/2005 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read 'Wade Nieuwsma', with a long horizontal flourish extending to the right.

Wade Nieuwsma
Project Manager

Inter-Mountain Laboratories

Date: 14-Dec-05

CLIENT: Foth and Van Dyke
Project: Eagle Passive Sampling NO2
Lab Order: S0512038

CASE NARRATIVE

Report ID: S0512038001

Samples NO2-01-7, NO2-01R-7, NO2-02-7, NO2-02R-7, and NO2-BLANK-7 were received on December 6, 2005.

All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600 "Methods for Chemical Analysis of Water and Wastes", 1993
"Standard Methods For The Examination of Water and Wastewater", 20th ed., 1995
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 12/14/2005

Report ID: S0512038001

Project: Eagle Passive Sampling NO2

Lab ID: S0512038-001

Client Sample ID: NO2-01-7

Matrix: Filter

Work Order: S0512038

Collection Date: 12/2/2005 1:05:00 PM

Date Received: 12/6/2005 11:05:00 AM

Sampler: AD

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	0.07	0.03		µg/mL	12/07/2005 2230 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level

E Value above quantitation range

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

L Analyzed by a contract laboratory

S Spike Recovery outside accepted recovery limits

Reviewed by:



Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 12/14/2005

Report ID: S0512038001

Project: Eagle Passive Sampling NO2
Lab ID: S0512038-002
Client Sample ID: NO2-01R-7
Matrix: Filter

Work Order: S0512038
Collection Date: 12/2/2005 1:09:00 PM
Date Received: 12/6/2005 11:05:00 AM
Sampler: AD

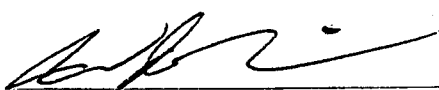
Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	0.07	0.03		µg/mL	12/07/2005 2244 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:



Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 12/14/2005

Report ID: S0512038001

Work Order: S0512038

Collection Date: 12/2/2005

Date Received: 12/6/2005 11:05:00 AM

Sampler: AD

Project: Eagle Passive Sampling NO2

Lab ID: S0512038-003

Client Sample ID: NO2-BLANK-7

Matrix: Filter

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	ND	0.03		µg/mL	12/07/2005 2259 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- S Spike Recovery outside accepted recovery limits

Reviewed by:



Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 12/14/2005

Report ID: S0512038001

Work Order: S0512038

Collection Date: 12/2/2005 1:32:00 PM

Date Received: 12/6/2005 11:05:00 AM

Sampler: AD

Project: Eagle Passive Sampling NO2

Lab ID: S0512038-004

Client Sample ID: NO2-02-7

Matrix: Filter

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	0.07	0.03		µg/mL	12/07/2005 2313 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

Date Reported: 12/14/2005
Report ID: S0512038001

Project: Eagle Passive Sampling NO2
Lab ID: S0512038-005
Client Sample ID: NO2-02R-7
Matrix: Filter

Work Order: S0512038
Collection Date: 12/2/2005 1:34:00 PM
Date Received: 12/6/2005 11:05:00 AM
Sampler: AD

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter						
Nitrite	0.07	0.03		µg/mL	12/07/2005 2328 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Curt Dungey
Foth and Van Dyke
2737 South Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012

TEL: (920) 496-6918
FAX (920) 497-8516

RE: Eagle Passive Sampling SO2

Order No.: S0512039

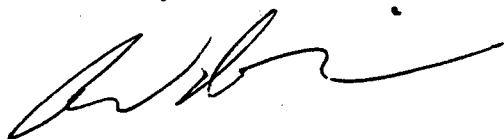
Dear Curt Dungey:

Inter-Mountain Laboratories received 5 sample(s) on 12/6/2005 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read 'Wade Nieuwsma', with a stylized, flowing script.

Wade Nieuwsma
Project Manager

Inter-Mountain Laboratories

Date: 14-Dec-05

CLIENT: Foth and Van Dyke
Project: Eagle Passive Sampling SO2
Lab Order: S0512039

CASE NARRATIVE

Report ID: S0512039001

Samples SO2-01-7, SO2-01R-7, SO2-02-7, SO2-02R-7, and SO2-BLANK-7 were received on December 6, 2005.

All samples were received and analyzed within the EPA recommended holding times, except those noted in this case narrative. Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600 "Methods for Chemical Analysis of Water and Wastes", 1993
"Standard Methods For The Examination of Water and Wastewater", 20th ed., 1995
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 12/14/2005

Report ID: S0512039001

Work Order: S0512039

Collection Date: 12/2/2005 1:05:00 PM

Date Received: 12/6/2005 11:05:00 AM

Sampler: AMD

Project: Eagle Passive Sampling SO2

Lab ID: S0512039-001

Client Sample ID: SO2-01-7

Matrix: Filter

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Sulfate	0.12	0.03		µg/mL	12/08/2005 2146 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road

P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 12/14/2005

Report ID: S0512039001

Work Order: S0512039

Collection Date: 12/2/2005 1:09:00 PM

Date Received: 12/6/2005 11:05:00 AM

Sampler: AMD

Project: Eagle Passive Sampling SO2

Lab ID: S0512039-002

Client Sample ID: SO2-01R-7

Matrix: Filter

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Sulfate	0.05	0.03		µg/mL	12/08/2005 2201 LK	EPA 300.0

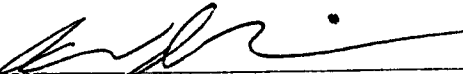
These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road
P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 12/14/2005

Report ID: S0512039001

Project: Eagle Passive Sampling SO2

Lab ID: S0512039-003

Client Sample ID: SO2-BLANK-7

Matrix: Filter

Work Order: S0512039

Collection Date: 12/2/2005

Date Received: 12/6/2005 11:05:00 AM

Sampler: AMD

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Sulfate	ND	0.03		µg/mL	12/08/2005 2215 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road
P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 12/14/2005

Report ID: S0512039001

Project: Eagle Passive Sampling SO2

Lab ID: S0512039-004

Client Sample ID: SO2-02-7

Matrix: Filter

Work Order: S0512039

Collection Date: 12/2/2005 1:32:00 PM

Date Received: 12/6/2005 11:05:00 AM

Sampler: AMD

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Sulfate	0.04	0.03		µg/mL	12/08/2005 2230 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
S Spike Recovery outside accepted recovery limits

Reviewed by:


Wade Nieuwsma, Project Manager

Sample Analysis Report

CLIENT: Foth and Van Dyke

2737 South Ridge Road
P. O. Box 19012

Green Bay, WI 54307-9012

Date Reported: 12/14/2005

Report ID: S0512039001

Project: Eagle Passive Sampling SO2

Lab ID: S0512039-005

Client Sample ID: SO2-02R-7

Matrix: Filter

Work Order: S0512039

Collection Date: 12/2/2005 1:34:00 PM

Date Received: 12/6/2005 11:05:00 AM

Sampler: AMD

Analyses	Result	PQL	Qual	Units	Date Analyzed/Init	Method
General Parameters - Filter Sulfate	0.04	0.03		µg/mL	12/08/2005 2244 LK	EPA 300.0

These results apply only to the samples tested.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- S Spike Recovery outside accepted recovery limits

Reviewed by:



Wade Nieuwsma, Project Manager

Extraction Volume:

Nitrite = 8 mL's
Sulfate = 8.2 mL's

WorkOrder	LabID	SampleID	Sampled	Nitrite µg/mL	Sulfate µg/mL
S0512037	S0512037-001	NOX-01-7	12/2/05	0.10	
S0512037	S0512037-002	NOX-01R-7	12/2/05	0.17	
S0512037	S0512037-003	NOX-BLANK-7	12/2/05	<0.03	
S0512037	S0512037-004	NOX-02-7	12/2/05	0.13	
S0512037	S0512037-005	NOX-02R-7	12/2/05	0.13	
S0512038	S0512038-001	NO2-01-7	12/2/05	0.07	
S0512038	S0512038-002	NO2-01R-7	12/2/05	0.07	
S0512038	S0512038-003	NO2-BLANK-7	12/2/05	<0.03	
S0512038	S0512038-004	NO2-02-7	12/2/05	0.07	
S0512038	S0512038-005	NO2-02R-7	12/2/05	0.07	
S0512039	S0512039-001	SO2-01-7	12/2/05		0.12
S0512039	S0512039-002	SO2-01R-7	12/2/05	-	0.05
S0512039	S0512039-003	SO2-BLANK-7	12/2/05		<0.03
S0512039	S0512039-004	SO2-02-7	12/2/05		0.04
S0512039	S0512039-005	SO2-02R-7	12/2/05		0.04



Inter-Mountain Laboratories, Inc.

Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

This is a LEGAL DOCUMENT. All shaded fields must be completed.

93877

Client Name Edna + Non Dykes		Project Identification Edna + Non Dykes Sampling		Sampler (Signature/Printed) Alicia Dykes		Telephone # (906) 225-5791 ext. 204										
Report Address 2937 Southway, Box 19012 Green Bay WI 54307-9012		Contact Name and Email Edna + Non Dykes		Voice (920) 446-6418		FAX (920) 447-8516										
Invoice Address Shirley Sandoz		Purchase Order # 111A		Quote # 111A												
ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION		Matrix	# of Containers	ANALYSES / PARAMETERS								REMARKS
1		12/02/05	1:05 pm	NO ₂ / NO ₃ - 01-7		OT	1	NO ₂								Organic positive sample results
2		12/02/05	1:09 pm	NO ₂ / NO ₃ - 012-7		OT	1	NO ₂								
3		12/02/05		NO ₂ / NO ₃ - BLANK-7		OT	1	NO ₂								
4																
5		12/02/05	1:32 pm	NO ₂ / NO ₃ - 02-7		OT	1	NO ₂								Organic positive sample results
6		12/02/05	1:34 pm	NO ₂ / NO ₃ - 022-7		OT	1	NO ₂								
7																
8		12/02/05	1:05 pm	SO ₂ - 01-7		OT	1	SO ₂								Organic positive sample results
9		12/02/05	1:09 pm	SO ₂ - 012-7		OT	1	SO ₂								
10		12/02/05		SO ₂ - BLANK-7		OT	1	SO ₂								
11																
12		12/02/05	1:50 pm	SO ₂ - 02-7		OT	1	SO ₂								
13		12/02/05	1:54 pm	SO ₂ - 022-7		OT	1	SO ₂								
14																
LAB COMMENTS Alicia M. Dykes / Alicia Dykes		Relinquished By (Signature/Printed) Alicia M. Dykes		DATE 12/02/05		TIME 1:00 pm		Received By (Signature/Printed) Alicia M. Dykes		DATE 12/02/05		TIME 1:00 pm		Additional Remarks		
SHIPPING INFO		MATRIX CODES		TURN AROUND TIMES		COMPLIANCE INFORMATION		ADDITIONAL REMARKS								
☐ UPS	☐ Fed Express	☐ Water	☐ Soil	☐ Check desired service	☐ Standard turnaround	☐ Compliance Monitoring?	☐ Program (SDWA, NPDES, ...)	☐ Y / ☐ N	☐ Additional Remarks							
☐ US Mail	☐ Hand Carried	☐ Solid	☐ Trip Blank	☒ RUSH - 5 Working Days	☐ URGENT - < 2 Working Days	☐ PWSID / Permit #	☐ Chlorinated?	☐ Y / ☐ N	☐ Additional Remarks							
☐ Other		☐ Other		☐ Rush & Urgent Surcharges will be applied		☐ Sample Disposal: Lab	☒ Client									

NO_x/NO_2 Passive Sampler Field Data Sheet

Note: This page is a cover sheet, only one is required per batch. If more samples are collected then can fit on this sheet, use multiple copies of page 2 and staple all sheets.

Company/Agency: Foth + Van Dyke
 Contact name: Curt Dungey
 Address: 2737 South Ridge Rd, Green Bay, WI 54307
 Telephone: (920) 496-6918
 email address: cdungey@Foth.com

Return samples to:
 Inter-Mountain Labs
 1633 Terra Avenue
 Sheridan, WY USA 82801
 (307) 672-8945

Project name: Eagle
 Project location: Michiganme Township, MI
 Sampling technician: Alicia Dux
 Batch description: passive Samplers (pads) for (NO_x/NO_2) round

sample description or ID	sampler bar code number (IML supplied)	start date	start time	stop date	stop time	elapsed time	average sample temp.	average sample humidity (%)	circle temp. units	sample blank?	Notes
NO_x/NO_2 -01-7		11/18/05	11:16am	12/02/05	1:05pm	332hr 47min	-4.16	87.76	°F	N	located on (L) side of tree #1 W.S.
NO_x/NO_2 -01A-7		11/18/05	11:20am		1:09pm	332hr 49min	-4.16	87.76	°F		located on (L) side of tree #2 W.S.
NO_x/NO_2 -BLANK-7		11/18/05							°C	Y	
NO_x/NO_2 -02-7		11/18/05	12:36pm	12/02/05	1:32pm	336hr 56min	-4.15	87.76	°C		located on tree #7 away from the road.
NO_x/NO_2 -02B-7		11/18/05	12:41pm		1:34pm	336hr 53min	-4.15	87.76	°C		located on tree #2 - looking from road (L) side of tree.

SO₂ Passive Sampler Field Data Sheet

Note: This page is a cover sheet, only one is required per batch. If more samples are collected then can fit on this sheet, use multiple copies of page 2 and staple all sheets.

Company/Agency: Foth + Van Dyke

Contact name: Curt Dungey

Address: 7737 South Ridge Rd, Green Bay, WI 54307

Telephone: (920) 496-6918

email address: cdungey@foth.com

Project name: Eagle

Project location: Michigan Township, MI

Sampling technician: Alicia Drex

Batch description: passive samplers (pods) for (SO₂) round

Return samples to:

Inter-Mountain Labs

1633 Terra Avenue

Sheridan, WY USA 82801

(307) 672 - 8945

sample description or ID	sampler bar code number (IML supplied)	start date	start time	stop date	stop time	elapsed time	average sample temp.	average sample humidity (%)	circle temp. units	sample blank?	Notes
SO ₂ -01-7		11/19/05	11:16 am	12/02/05	1:05 pm	33 hr 49 min	-4.16	87.76	°F	N	located on (R) side of tree # 2. W.S. if returned sample had some moisture on it.
SO ₂ -01R-7		11/18/05	11:20 am		1:09 pm	33 hr 49 min	-4.16	87.76	°F		located on (R) side of tree # 2. W.S.
SO ₂ -BLANK-7		11/19/05							°C	Y	
SO ₂ -02-7		11/18/05	12:36 pm	12/02/05	1:32 pm	33 hr 56 min	-4.15	87.76	°C		located in tree # 1 toward the road
SO ₂ -02R-7		11/18/05	12:41 pm		1:34 pm	33 hr 53 min	-4.15	87.76	°C		located in tree # 2 looking from road (R) side of tree.

**Metals Laboratory Report and Field Sheets
Round 1**

ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.



8100 North Austin Avenue • Morton Grove, IL 60053-3203
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July 27, 2005

Curt Dungey
Foth and Van Dyke
2737 South Ridge
P.O. Box 19012
Green Bay, WI 54307-9012

RE: Eagle Metals

Lab Orders:
05060153

Dear Mr. Dungey:

Enclosed are the analytical reports for the EMT Lab Order listed. To ensure proper custody procedures, please attach this report to the previously submitted Chain of Custody. If you have any questions, please contact me at 847-324-3320.

Sincerely,

Shawn D. Lane
Project Manager

Approved by,

Mitchell Ostrowski
Laboratory Director

The Contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety.

State of Illinois Chemical Analysis in Drinking Water Accredited Lab. No. 100256
State of Wisconsin Wastewater and Hazardous Waste No. 99988890

environmental laboratory and testing services

water	soil	air	product	waste
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CLIENT: Foth and Van Dyke

Date: 27-Jul-05

Project: Eagle Metals

CASE NARRATIVE

Lab Order: 05060153

Unless otherwise noted, samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

Unless otherwise noted, all method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

Sample results relate only to the analytes of interest tested and to the sample received at the laboratory.

All results are reported on a wet weight basis, unless otherwise noted. Dry weight adjusted results are indicated by the notation "dry" in the Units column.

Accreditation by the State of Illinois or Wisconsin not an endorsement or a guarantee of the validity of data generated. For specific information regarding EMT's scope of accreditation, please contact your EMT project manager.

The Reporting Limit listed on the Report of Laboratory Analysis is EMT's reporting limit for the analyte reported. For most test methods this reporting limit is primarily based upon the lowest point in the calibration curve.

Method References:

SW=USEPA, Test Methods for Evaluating Solid Waste, SW-846.

E=USEPA Methods for the Determination of Inorganic Substances in Environmental Samples; Methods for Chemical Analysis of Water and Wastes; Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, 40 CFR Part 136, App A; Methods for the Determination of Metals in Environmental Samples; Methods for the Determination of Organic Compounds in Drinking Water.

SM= APHA, Standard Methods for the Examination of Water and Wastewater.

D=ASTM, Annual Book of Standards

environmental laboratory and testing services

water | soil | air | product | waste



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Report of Laboratory Analysis

CLIENT: Foth and Van Dyke
Lab Order: 05060153
Project: Eagle Metals
Lab ID: 05060153-01

Client Sample ID: FT-ALL-01
Report Date: 7/27/2005
Collection Date: 5/27/2005 10:18:00 AM
Matrix: Air

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
ICP-MS Metals, Total.		Method: SW6020A / SW3050B				
Antimony	< 0.180	0.180	ug/m ³	6/13/05	25266	AG
Arsenic	< 0.0371	0.0371	ug/m ³	6/13/05	25266	AG
Barium	113	0.0361	ug/m ³	6/13/05	25266	AG
Beryllium	< 0.00332	0.00332	ug/m ³	6/14/05	25266	AG
Cadmium	< 0.00829	0.00829	ug/m ³	6/14/05	25266	AG
Chromium	< 0.238	0.238	ug/m ³	6/13/05	25266	AG
Cobalt	< 0.0112	0.0112	ug/m ³	6/13/05	25266	AG
Copper	< 0.215	0.215	ug/m ³	6/13/05	25266	AG
Lead	0.0623	0.0233	ug/m ³	6/13/05	25266	AG
Magnesium	6.23	0.744	C ug/m ³	6/13/05	25266	AG
Manganese	0.159	0.0980	ug/m ³	6/13/05	25266	AG

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time
C - Laboratory not accredited for this parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quantitation limits

3

environmental laboratory and testing services

water | soil | air | product | waste



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Report of Laboratory Analysis

CLIENT: Foth and Van Dyke
Lab Order: 05060153
Project: Eagle Metals
Lab ID: 05060153-02

Client Sample ID: FT-MER-01
Report Date: 7/27/2005
Collection Date: 6/2/2005 2:05:00 PM
Matrix: Air

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Mercury, Total		Method: SW7471A				
Mercury	< 0.00181	0.00181	ug/m ³	6/13/05	25267	IG

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time
C - Laboratory not accredited for this parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quantitation limits

4

environmental laboratory and testing services

water | soil | air | product | waste



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Report of Laboratory Analysis

CLIENT: Foth and Van Dyke
Lab Order: 05060153
Project: Eagle Metals
Lab ID: 05060153-03

Client Sample ID: FT-BLANK-01
Report Date: 7/27/2005
Collection Date: 6/9/2005
Matrix: Air

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
ICP-MS Metals, Total.		Method: SW6020A / SW3050B				
Antimony	< 3.58	3.58	ug/strip	6/13/05	25266	AG
Arsenic	< 0.738	0.738	ug/strip	6/13/05	25266	AG
Barium	1930	0.719	ug/strip	6/14/05	25266	AG
Beryllium	< 0.0660	0.0660	ug/strip	6/14/05	25266	AG
Cadmium	< 0.165	0.165	ug/strip	6/14/05	25266	AG
Chromium	4.76	4.74	ug/strip	6/13/05	25266	AG
Cobalt	< 0.223	0.223	ug/strip	6/13/05	25266	AG
Copper	< 4.28	4.28	ug/strip	6/13/05	25266	AG
Lead	1.00	0.464	ug/strip	6/13/05	25266	AG
Magnesium	121	14.8	C ug/strip	6/13/05	25266	AG
Manganese	2.99	1.95	ug/strip	6/13/05	25266	AG

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time
C - Laboratory not accredited for this parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quantitation limits

5

environmental laboratory and testing services

water | soil | air | product | waste



Kennecott Minerals Company Filter Tape Analysis Field Worksheet

Unique Sample Number	FT-ALL-01
----------------------	-----------

Date Filter Tape First Marked in Field:	5-20-05
Time Filter Tape First Marked in Field:	1:20 pm

End Date for Filter Tape Sample in Field:	5-27-05
End Time for Filter Tape Sample in Field:	10:18 am

One-Hour Section Number	Flow (m ³)
1	.83
2	.829
3	.829
4	.829
5	.829
6	.829
7	.829
8	.829
9	.829
10	.829
11	.829
12	.829

One-Hour Section Number	Flow (m ³)
13	.829
14	.829
15	.829
16	.829
17	.829
18	.828
19	.829
20	.829
21	.83
22	.829
23	.83
24	.83
Total Flow	19.90(m ³)

Comments:

5-20 Sunny, temp $\approx 18.3^{\circ}\text{C}$, RH% $\approx 31\%$ - day tape marked
 5-27, drizzle, temp $\approx 8.4^{\circ}\text{C}$, RH% $\approx 83\%$ - day tape taken out

Kennecott Minerals Company Filter Tape Analysis Field Worksheet

Date Filter Tape First Marked in Field:	5-27-05
Time Filter Tape First Marked in Field:	10:25 am

End Date for Filter Tape Sample in Field:	6-02-05
End Time for Filter Tape Sample in Field:	2:05 am

Unique Sample Number	KT-MER-01
----------------------	-----------

One-Hour Section Number	Flow (m ³)
1	.829
2	.829
3	.829
4	.83
5	.829
6	.829
7	.829
8	.83
9	.829
10	.829
11	.829
12	.829

One-Hour Section Number	Flow (m ³)
13	.829
14	.829
15	.828
16	.828
17	.828
18	.829
19	.828
20	.828
21	.829
22	.829
23	.829
24	.829
Total Flow	19.89(m ³)

Comments:

5-27, drizzle, temp $\approx 8.4^{\circ}\text{C}$, RH% $\approx 83\%$ - day tape marked
6-02, sunny, temp $\approx 24.9^{\circ}\text{C}$, RH% $\approx 24\%$ - day tape taken out

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Curt Dungey
Foth and Van Dyke
2737 South Ridge
P.O. Box 19012
Green Bay, WI 54307-9012

June 17, 2005

RE: Eagle Metals

Lab Orders:
05060153

Dear Mr. Dungey:

Enclosed are the analytical reports for the EMT Lab Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me at 847-324-3320.

Sincerely,

Shawn D. Lane
Project Manager

Approved by,

Mitchell Ostrowski
Laboratory Director

The Contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety.

State of Illinois Chemical Analysis in Drinking Water Accredited Lab. No. 100256
State of Wisconsin Wastewater and Hazardous Waste No. 999888890

environmental laboratory and testing services

| water | soil | air | product | waste |



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CLIENT: Foth and Van Dyke

Date: 17-Jun-05

Project: Eagle Metals

CASE NARRATIVE

Lab Order: 05060153

Unless otherwise noted, samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

Unless otherwise noted, all method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

Sample results relate only to the analytes of interest tested and to the sample received at the laboratory.

All results are reported on a wet weight basis, unless otherwise noted. Dry weight adjusted results are indicated by the notation "dry" in the Units column.

Accreditation by the State of Illinois or Wisconsin not an endorsement or a guarantee of the validity of data generated. For specific information regarding EMT's scope of accreditation, please contact your EMT project manager.

The Reporting Limit listed on the Report of Laboratory Analysis is EMT's reporting limit for the analyte reported. For most test methods this reporting limit is primarily based upon the lowest point in the calibration curve.

Method References:

SW=USEPA, Test Methods for Evaluating Solid Waste, SW-846.

E=USEPA Methods for the Determination of Inorganic Substances in Environmental Samples; Methods for Chemical Analysis of Water and Wastes; Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, 40 CFR Part 136, App A; Methods for the Determination of Metals in Environmental Samples; Methods for the Determination of Organic Compounds in Drinking Water.

SM= APHA, Standard Methods for the Examination of Water and Wastewater.

D=ASTM, Annual Book of Standards

environmental laboratory and testing services

water

soil

air

product

waste

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Report of Laboratory Analysis

CLIENT: Foth and Van Dyke
Lab Order: 05060153
Project: Eagle Metals
Lab ID: 05060153-01

Client Sample ID: FT-ALL-01
Report Date: 6/17/2005
Collection Date: 5/27/2005 10:18:00 AM
Matrix: Air

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
ICP-MS Metals, Total.						
Method: SW6020A / SW3050B						
Antimony	< 0.538	0.538	ug/m ³	6/13/05	25266	AG
Arsenic	< 0.111	0.111	ug/m ³	6/13/05	25266	AG
Barium	113	0.109	ug/m ³	6/13/05	25266	AG
Beryllium	< 0.0100	0.0100	ug/m ³	6/14/05	25266	AG
Cadmium	< 0.0249	0.0249	ug/m ³	6/14/05	25266	AG
Chromium	< 0.714	0.714	ug/m ³	6/13/05	25266	AG
Cobalt	< 0.0336	0.0336	ug/m ³	6/13/05	25266	AG
Copper	< 0.643	0.643	ug/m ³	6/13/05	25266	AG
Lead	< 0.0698	0.0698	ug/m ³	6/13/05	25266	AG
Magnesium	6.23	2.23	C ug/m ³	6/13/05	25266	AG
Manganese	< 0.293	0.293	ug/m ³	6/13/05	25266	AG

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time
C - Laboratory not accredited for this parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quantitation limits

3

environmental laboratory and testing services

| water | soil | air | product | waste |



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Report of Laboratory Analysis

CLIENT: Foth and Van Dyke
Lab Order: 05060153
Project: Eagle Metals
Lab ID: 05060153-02

Client Sample ID: FT-MER-01
Report Date: 6/17/2005
Collection Date: 6/2/2005 2:05:00 PM
Matrix: Air

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Mercury, Total		Method: SW7471A				
Mercury	< 0.00181	0.00181	ug/m ³	6/13/05	25267	IG

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time
C - Laboratory not accredited for this parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quantitation limits

4

environmental laboratory and testing services

water | soil | air | product | waste





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Report of Laboratory Analysis

CLIENT: Foth and Van Dyke
Lab Order: 05060153
Project: Eagle Metals
Lab ID: 05060153-03

Client Sample ID: FT-BLANK-01
Report Date: 6/17/2005
Collection Date: 6/9/2005
Matrix: Air

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
ICP-MS Metals, Total.		Method: SW6020A / SW3050B				
Antimony	< 10.7	10.7	ug/strip	6/13/05	25266	AG
Arsenic	< 2.21	2.21	ug/strip	6/13/05	25266	AG
Barium	1930.	2.16	ug/strip	6/14/05	25266	AG
Beryllium	< 0.199	0.199	ug/strip	6/14/05	25266	AG
Cadmium	< 0.496	0.496	ug/strip	6/14/05	25266	AG
Chromium	< 14.2	14.2	ug/strip	6/13/05	25266	AG
Cobalt	< 0.669	0.669	ug/strip	6/13/05	25266	AG
Copper	< 12.8	12.8	ug/strip	6/13/05	25266	AG
Lead	< 1.39	1.39	ug/strip	6/13/05	25266	AG
Magnesium	121.	44.4	C ug/strip	6/13/05	25266	AG
Manganese	< 5.84	5.84	ug/strip	6/13/05	25266	AG

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time
C - Laboratory not accredited for this parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quantitation limits

5

environmental laboratory and testing services

water | soil | air | product | waste



Kennecott Minerals Company **Filter Tape Analysis Field Worksheet**

Date Filter Tape First Marked in Field:	5-20-05
Time Filter Tape First Marked in Field:	1:20 pm

End Date for Filter Tape Sample in Field:	5-27-05
End Time for Filter Tape Sample in Field:	10:18 am

Unique Sample Number	FT-ALL-01
----------------------	-----------

One-Hour Section Number	Flow (m ³)
1	.83
2	.829
3	.829
4	.829
5	.829
6	.829
7	.829
8	.829
9	.829
10	.829
11	.829
12	.829

One-Hour Section Number	Flow (m ³)
13	.829
14	.829
15	.829
16	.829
17	.829
18	.828
19	.829
20	.829
21	.83
22	.829
23	.83
24	.83
Total Flow	19.90(m ³)

Comments:

5-20, Sunny, temp $\approx 18.3^{\circ}\text{C}$, RH% $\approx 31\%$ - day tape marked
 5-27, drizzle, temp $\approx 8.4^{\circ}\text{C}$, RH% $\approx 83\%$ - day tape taken out.

Kennecott Minerals Company **Filter Tape Analysis Field Worksheet**

Date Filter Tape First Marked in Field:	5-27-05
Time Filter Tape First Marked in Field:	10:25 a.m.

End Date for Filter Tape Sample in Field:	6-02-05
End Time for Filter Tape Sample in Field:	2:05 a.m.

Unique Sample Number	KT-MER-01
----------------------	-----------

One-Hour Section Number	Flow (m ³)
1	.829
2	.829
3	.829
4	.83
5	.829
6	.829
7	.829
8	.83
9	.829
10	.829
11	.829
12	.829

One-Hour Section Number	Flow (m ³)
13	.829
14	.829
15	.828
16	.828
17	.828
18	.829
19	.828
20	.828
21	.829
22	.829
23	.829
24	.829
Total Flow	19.89(m ³)

Comments:

5-27, drizzle, temp $\approx 8.4^{\circ}\text{C}$, RH% $\approx 83\%$ - day tape marked
 6-02, sunny, temp $\approx 24.9^{\circ}\text{C}$, RH% $\approx 24\%$ - day tape taken out

[Handwritten signature]



847-967-6666
FAX: 847-967-6735
www.emt.com

Chain of Custody Record

TURNAROUND TIME:
☐ RUSH _____ day turnaround
☒ ROUTINE

Due Date: - - - - - COC #: 04596

Company: Foth and Van Dyke

Address: 2737 South Ridge

PO Box 19012

Greenburg, WI 54307-9012

Phone #: (920) 496-6918

PO. #: N/A

Client Contact: Curt Duragen, cduragen@foth.com

Project ID / Location: Engle metals

7. Groundwater (filtered)

8. Other

9. Filter type

1. Waste Water

2. Drinking Water

3. Soil

4. Sludge

5. Oil

6. Groundwater

7. VOC Vial

8. Other

9. Other

Container Type:

1. Plastic

2. Glass

3. B - Tedlar Bag

4. NaOH

5. HCl

6. MeOH

7. Zn Ace

8. Other

9. Other

Preservative:

1. None

2. H2SO4

3. HNO3

4. NaOH

5. HCl

6. MeOH

7. Zn Ace

8. Other

9. Other

Sample Type

Container

Size

Type

No.

Date

By

Time

pH

Temp.

Field

Lab

Sample I.D.

8

P

1

AD

5/27/05

10:18 am

N/A

N/A

FT-ALL-01

FT-AE

Antimony

Asenic

Barium

Beryllium

Cadmium

Chromium

Cobalt

Copper

Lead

Magnesium

Manganese

EMT USE ONLY

EMT WORKORDER #05060153

Relinquished By: Alicia Dues

Relinquished By: Alicia M. Dues

Relinquished By:

Date: 6-6-05

Date: 9:00 am

Date: -

Received By:

Received By:

Received For Lab By: [Signature]

EMT USE ONLY

EMT Project I.D.

Jar Lot No.

DATE RECEIVED

ON ICE

TEMPERATURE

(Must be recorded if sampling was greater than 6 hrs. prior to sample receipt)

EMT SAMPLE RETURN POLICY ON BACK

SPECIAL INSTRUCTIONS: 24 ~~hour~~ one-hour section of the filter tape will need to be composited into one sample for digestion and analysis. * 24 hr period from 5/20 1:30 PM - 5/22 1:30 PM



Chain of Custody Record

TURNAROUND TIME: ☐ RUSH ☒ 3 day turnaround ☒ ROUTINE

8100 North Austin Avenue
Morton Grove, Illinois 60053-3203

847-967-6666
FAX: 847-967-6735
www.emt.com

Due Date: ____-____-____ COC #: 04598

Company: Foth and Van Dyke
Address: 2737 South Ridge
PO Box 19012
Green Bay, WI 54307-9012
Phone #: (920) 496-6918 Fax #: (920) 497-8516
PO. #: N/A Proj. #: -
Client Contact: Curt Dungey, cdungey@foth.com
Project ID / Location: Eagle Metals

Sample Type:

1. Waste Water
2. Drinking Water
3. Soil
4. Sludge
5. Oil
6. Groundwater
7. Groundwater (filtered)
8. Other Filter Tape

Container Type:
☒ P - Plastic V - VOC Vial O - Other
☐ G - Glass B - Tedlar Bag

Preservative:

1. None	4. NaOH	7. Zn Ace
2. H ₂ SO ₄	5. HCl	8. Other
3. HNO ₃	6. MeOH	

WORKORDER
#05064153

Analyses

Sample I.D.	Sample Type	Container			Sampling				Preservation		
		Size	Type	No.	Bv	Date	Time	pH	Temp.	Field	
										Lab	

[illegible][illegible]

SPECIAL INSTRUCTIONS: 'Blank' section of filter tape will need to be composited into one sample for digestion and analysis.

Kennecott Minerals Company **Filter Tape Analysis Field Worksheet**

Unique Sample Number	FT-ALL-01
----------------------	-----------

Date Filter Tape First Marked in Field:	5-20-05
Time Filter Tape First Marked in Field:	1:20 pm

End Date for Filter Tape Sample in Field:	5-27-05
End Time for Filter Tape Sample in Field:	10:18 am

One-Hour Section Number	Flow (m ³)
1	.83
2	.829
3	.829
4	.829
5	.829
6	.829
7	.829
8	.829
9	.829
10	.829
11	.829
12	.829

One-Hour Section Number	Flow (m ³)
13	.829
14	.829
15	.829
16	.829
17	.829
18	.828
19	.829
20	.829
21	.83
22	.829
23	.83
24	.83
Total Flow	
19.90(m ³)	

Comments:

S-20, Sunny, temp $\approx 18.3^{\circ}\text{C}$, RH% $\approx 31\%$ - day tape marked
 S-27, drizzle, temp $\approx 8.4^{\circ}\text{C}$, RH% $\approx 83\%$ - day tape taken out

**Metals Laboratory Report and Field Sheets
Round 2**

ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.



8100 North Austin Avenue • Morton Grove, IL 60053-3203
847.967.6666 • 800.246.0663 • fax: 847.967.6735 • www.emt.com

August 08, 2005

Curt Dungey
Foth and Van Dyke
2737 South Ridge
P.O. Box 19012
Green Bay, WI 54307-9012

RE: Eagle Metals

Lab Orders:
05070702

Dear Mr. Dungey:

Enclosed are the analytical reports for the EMT Lab Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me at 847-324-3320.

Sincerely,

Shawn D. Lane
Project Manager

Approved by,

Mitchell Ostrowski
Laboratory Director

The Contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety.

State of Illinois Chemical Analysis in Drinking Water Accredited Lab. No. 100256
State of Wisconsin Wastewater and Hazardous Waste No. 999888890

environmental laboratory and testing services

| water | soil | air | product | waste |



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CLIENT: Foth and Van Dyke

Date: 08-Aug-05

Project: Eagle Metals

CASE NARRATIVE

Lab Order: 05070702

Unless otherwise noted, samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

Unless otherwise noted, all method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

Sample results relate only to the analytes of interest tested and to the sample received at the laboratory.

All results are reported on a wet weight basis, unless otherwise noted. Dry weight adjusted results are indicated by the notation "dry" in the Units column.

Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated. For specific information regarding EMT's scope of accreditation, please contact your EMT project manager.

The Reporting Limit listed on the Report of Laboratory Analysis is EMT's reporting limit for the analyte reported. For most test methods this reporting limit is primarily based upon the lowest point in the calibration curve.

Method References:

SW=USEPA, Test Methods for Evaluating Solid Waste, SW-846.

E=USEPA Methods for the Determination of Inorganic Substances in Environmental Samples; Methods for Chemical Analysis of Water and Wastes; Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, 40 CFR Part 136, App A; Methods for the Determination of Metals in Environmental Samples; Methods for the Determination of Organic Compounds in Drinking Water.

SM= APHA, Standard Methods for the Examination of Water and Wastewater.

D=ASTM, Annual Book of Standards

environmental laboratory and testing services

water | soil | air | product | waste



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847.967.6666 • 800.246.0663 • fax: 847.967.6735 • www.emt.com

CLIENT: Foth and Van Dyke

Project: Eagle Metals

Lab Order: 05070702

Date: 08-Aug-05

CASE NARRATIVE

Analytical Comments for METHOD 6020_S_LIST, 05070702-02A: Some analytes were greater than the highest points in calibration but within the Linear Dynamic Range.

environmental laboratory and testing services

| water | soil | air | product | waste |



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Report of Laboratory Analysis

CLIENT: Foth and Van Dyke
Lab Order: 05070702
Project: Eagle Metals
Lab ID: 05070702-01

Client Sample FT-ALL-02
Report Date: 8/8/2005
Collection 7/19/2005 11:40:00 AM
Matrix: Solid

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
ICP-AES Metals, Total		Method: SW6010B / SW3050B				
Antimony	< 0.0838	0.0838	ug/m ³	8/5/05	26079	ES
ICP-MS Metals, Total		Method: SW6020A / SW3050B				
Arsenic	< 0.0370	0.0370	ug/m ³	8/3/05	26079	AG
Barium	112	0.241	ug/m ³	8/2/05 16:52	26079	AG
Beryllium	< 0.00333	0.00333	ug/m ³	8/3/05	26079	AG
Cadmium	< 0.00831	0.00831	ug/m ³	8/3/05	26079	AG
Chromium	< 0.238	0.238	ug/m ³	8/3/05	26079	AG
Cobalt	< 0.0112	0.0112	ug/m ³	8/3/05	26079	AG
Copper	< 0.214	0.214	ug/m ³	8/3/05	26079	AG
Lead	0.0412	0.0233	ug/m ³	8/3/05	26079	AG
Magnesium	5.51	4.96	C ug/m ³	8/2/05 16:52	26079	AG
Manganese	< 0.0978	0.0978	ug/m ³	8/3/05	26079	AG

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time
C - Laboratory not accredited for this parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quantitation limits

environmental laboratory and testing services

| water | soil | air | product | waste |



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Report of Laboratory Analysis

CLIENT: Foth and Van Dyke
Lab Order: 05070702
Project: Eagle Metals
Lab ID: 05070702-02

Client Sample FT-BLANK-02A
Report Date: 8/8/2005
Collection 7/27/2005
Matrix: Solid

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
ICP-AES Metals, Total		Method: SW6010B / SW3050B				
Antimony	< 5.00	5.00	ug/sample	8/5/05	26079	ES
ICP-MS Metals, Total		Method: SW6020A / SW3050B				
Arsenic	< 2.21	2.21	ug/sample	8/3/05	26079	AG
Barium	1560	14.4	ug/sample	8/2/05 17:02	26079	AG
Beryllium	< 0.199	0.199	ug/sample	8/3/05	26079	AG
Cadmium	< 0.496	0.496	ug/sample	8/3/05	26079	AG
Chromium	< 14.2	14.2	ug/sample	8/3/05	26079	AG
Cobalt	< 0.669	0.669	ug/sample	8/3/05	26079	AG
Copper	< 12.8	12.8	ug/sample	8/3/05	26079	AG
Lead	< 1.39	1.39	ug/sample	8/3/05	26079	AG
Magnesium	63.9	44.4	C ug/sample	8/3/05	26079	AG
Manganese	< 5.84	5.84	ug/sample	8/3/05	26079	AG

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time
C - Laboratory not accredited for this parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quantitation limits

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| water | soil | air | product | waste |



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Report of Laboratory Analysis

CLIENT: Foth and Van Dyke
Lab Order: 05070702
Project: Eagle Metals
Lab ID: 05070702-03

Client Sample FT-MER-02
Report Date: 8/8/2005
Collection 7/27/2005 10:40:00 AM
Matrix: Solid

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Mercury, Total Mercury	< 0.000604	Method: SW7471A 0.000604	ug/m ³	8/2/05	26089	IG

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time
C - Laboratory not accredited for this parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quantitation limits

environmental laboratory and testing services

water | soil | air | product | waste



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Report of Laboratory Analysis

CLIENT: Foth and Van Dyke
Lab Order: 05070702
Project: Eagle Metals
Lab ID: 05070702-04

Client Sample MER BLANK
Report Date: 8/8/2005
Collection 7/27/2005
Matrix: Solid

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Mercury, Total Mercury	< 0.0360	Method: SW7471A 0.0360	ug/sample	8/2/05	26089	IG

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time
C - Laboratory not accredited for this parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quantitation limits

environmental laboratory and testing services

| water | soil | air | product | waste |



Kennecott Minerals Company **Filter Tape Analysis Field Worksheet**

Unique Sample Number	FT-ALL-02
----------------------	-----------

Date Filter Tape First Marked in Field:	7-12-05
Time Filter Tape First Marked in Field:	10:50 am

End Date for Filter Tape Sample in Field:	7-11-05
End Time for Filter Tape Sample in Field:	11:40 am

24 hours

One-Hour Section Number	Flow (m ³)
13	0.828
14	0.828
15	0.829
16	0.829
17	0.829
18	0.829
19	0.829
20	0.829
21	0.829
22	0.829
23	0.829
24	0.829
Total Flow	19.89 (m ³)

One-Hour Section Number	Flow (m ³)
1	0.83
2	0.829
3	0.83
4	0.829
5	0.829
6	0.829
7	0.829
8	0.829
9	0.829
10	0.828
11	0.828
12	0.828

Comments:

7/12, Warm ~ 27.6°C, 48% RH

7/19, Cloudy ~ 16.6°C, 68% RH

Kennecott Minerals Company **Filter Tape Analysis Field Worksheet**

Date Filter Tape First Marked in Field:	7-12-05
Time Filter Tape First Marked in Field:	10:50am

End Date for Filter Tape Sample in Field:	7-19-05
End Time for Filter Tape Sample in Field:	11:40am

Unique Sample Number	FT-ALL-02
----------------------	-----------

48 hours

One-Hour Section Number	Flow (m ³)
1	.829
2	.829
3	.829
4	.829
5	.829
6	.829
7	.829
8	.829
9	.829
10	.828
11	.828
12	.829

One-Hour Section Number	Flow (m ³)
13	.829
14	.829
15	.829
16	.829
17	.829
18	.829
19	.828
20	.829
21	.829
22	.829
23	.83
24	.83
Total Flow	19.90(m ³)

Comments:

Same as sheet 1 for ALL metals.

Kennecott Minerals Company **Filter Tape Analysis Field Worksheet**

Date Filter Tape First Marked in Field:	7-12-05
Time Filter Tape First Marked in Field:	10:50am

End Date for Filter Tape Sample in Field:	7-19-05
End Time for Filter Tape Sample in Field:	11:40am

Unique Sample Number	FT-ALL-02
----------------------	-----------

72 Hours

One-Hour Section Number	Flow (m ³)
1	.829
2	.829
3	.829
4	.829
5	.829
6	.829
7	.829
8	.828
9	.829
10	.829
11	.829
12	.829

One-Hour Section Number	Flow (m ³)
13	.828
14	.829
15	.829
16	.828
17	.829
18	.829
19	.829
20	.829
21	.83
22	.83
23	.83
24	.83
Total Flow	19.90(m ³)

Comments:

Same as from Sheet 1 for ALL metals.

Kennecott Minerals Company Filter Tape Analysis Field Worksheet

Date Filter Tape First Marked in Field:	7-19-05
Time Filter Tape First Marked in Field:	11:45 am

End Date for Filter Tape Sample in Field:	7-27-05
End Time for Filter Tape Sample in Field:	10:40 am

One-Hour Section Number	Flow (m ³)
1	.829
2	.829
3	.829
4	.829
5	.829
6	.828
7	.828
8	.826
9	.827
10	.827
11	.827
12	.828

24 hours

One-Hour Section Number	Flow (m ³)
13	.828
14	.828
15	.828
16	.828
17	.828
18	.828
19	.827
20	.828
21	.828
22	.829
23	.829
24	.829
Total Flow	19.87 m ³

Unique Sample Number	FT-MER-02
----------------------	-----------

Comments:

7/19, cloudy, $\approx 16.6^{\circ}\text{C}$, 68% RH - day tape was marked

7/27, Sunny, light breeze $\approx 15.6^{\circ}\text{C}$, 57% RH - day tape was removed

Kennecott Minerals Company Filter Tape Analysis Field Worksheet

Date Filter Tape First Marked in Field:	7-19-05
Time Filter Tape First Marked in Field:	11:45 am

End Date for Filter Tape Sample in Field:	7-27-05
End Time for Filter Tape Sample in Field:	10:40 am

One-Hour Section Number	Flow (m ³)
1	.829
2	.829
3	.828
4	.829
5	.828
6	.829
7	.829
8	.827
9	.827
10	.827
11	.828
12	.828

48 hours

One-Hour Section Number	Flow (m ³)
13	.827
14	.829
15	.827
16	.828
17	.828
18	.828
19	.827
20	.828
21	.829
22	.83
23	.829
24	.829
Total Flow	19.88(m ³)

Unique Sample Number	FT-MER-02
----------------------	-----------

Comments:

Same as from sheet 1 for mercury.

Kennecott Minerals Company Filter Tape Analysis Field Worksheet

Date Filter Tape First Marked in Field:	7-19-05
Time Filter Tape First Marked in Field:	11:45 am

End Date for Filter Tape Sample in Field:	7-27-05
End Time for Filter Tape Sample in Field:	10:40 am

One-Hour Section Number	Flow (m ³)
1	.829
2	.829
3	.828
4	.828
5	.827
6	.828
7	.827
8	.827
9	.828
10	.827
11	.827
12	.827

72 hours.

One-Hour Section Number	Flow (m ³)
13	.827
14	.828
15	.829
16	.828
17	.828
18	.828
19	.828
20	.829
21	.829
22	.829
23	.829
24	.829
Total Flow	19.87 (m ³)

Unique Sample Number	FT-MER-02
----------------------	-----------

Comments:

Same as from Sheet 1 for mercury



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FAX: 847-967-6735

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Chain of Custody Record

TURNAROUND TIME:
☐ RUSH
____ day turnaround
☒ ROUTINE

Due Date: _____ COC #: **04599**

Analyses

Sample Type:
1. Waste Water
2. Drinking Water
3. Soil
4. Sludge
5. Oil
6. Groundwater
7. Groundwater (filtered)
8. Other

Container Type:

P - Plastic V - VOC Vial O - Other
G - Glass B - Tedlar Bag

Preservative:

1. None 4. NaOH 7. Zn Ace
2. H₂SO₄ 5. HCl 8. Other
3. HNO₃ 6. MeOH

Company: Foth and Van Dyke
Address: 2737 South Ridge
PO Box 19012
Green Bay, WI 54307-9012
Phone #: (920) 496-6918 Fax #: (920) 497-8516
PO #: N/A Proj. #: _____
Client Contact: Curt Dungey, cdungey@foth.com
Project ID / Location: Eagle Metals

Preservation

Sampling Time Date By

Temp. pH

Field Lab

Analysis

Antimony

Arsenic

Barium

Beryllium

Cadmium

Chromium

Cobalt

Copper

Lead

Manganese

Mercury

Nickel

Selenium

Silver

Sulfate

Sulfide

Tin

Tungsten

Vanadium

Zinc

Zirconium

Other

EMT USE ONLY

EMT WORK ORDER

#05070702

Sample I.D.

Sample Type

Size

Container Type

No.

By

Date

Time

pH

Temp.

Field

Lab

Analysis

Antimony

Arsenic

Barium

Beryllium

Cadmium

Chromium

Cobalt

Copper

Lead

Manganese

Mercury

Nickel

Selenium

Silver

Sulfate

Sulfide

Tin

Tungsten

Vanadium

Zinc

Relinquished By: Alicia Duxey

Date: 7-28-05

Time: 1:00 PM

Received By:

Date:

Time:

Received By:

Date:

Time:

Received For Lab By:

Date:

Time:

Relinquished By: Alicia M. Duxey

Date: 7-28-05

Time: 1:00 PM

Received By:

Date:

Time:

Received By:

Date:

Time:

Received For Lab By:

Date:

Time:

EMT USE ONLY

EMT WORK ORDER

#05070702

Antimony

Arsenic

Barium

Beryllium

Cadmium

Chromium

Cobalt

Copper

Lead

Manganese

Mercury

Nickel

Selenium

Silver

Sulfate

Sulfide

Tin

Tungsten

Vanadium

Zinc

Zirconium

Other

EMT USE ONLY

EMT WORK ORDER

#05070702

Antimony

Arsenic

Barium

Beryllium

Cadmium

Chromium

Cobalt

Copper

Lead

Manganese

Mercury

Nickel

Selenium

Silver

Sulfate

Sulfide

Tin

Tungsten

Vanadium

Zinc

Zirconium

Other

EMT USE ONLY

EMT WORK ORDER

#05070702

Antimony

Arsenic

Barium

Beryllium

Cadmium

Chromium

Cobalt

Copper

Lead

Manganese

Mercury

Nickel

Selenium

Silver

Sulfate

Sulfide

Tin

Tungsten

Vanadium

Zinc

Zirconium

Other

EMT USE ONLY

EMT WORK ORDER

#05070702

Antimony

Arsenic

Barium

Beryllium

Cadmium

Chromium

Cobalt

Copper

Lead

Manganese

Mercury

Nickel

Selenium

Silver

Sulfate

Sulfide

Tin

Tungsten

Vanadium

Zinc

Zirconium

Other

EMT USE ONLY

EMT WORK ORDER

#05070702

Antimony

Arsenic

Barium

Beryllium

Cadmium

Chromium

Cobalt

Copper

Lead

Manganese

Mercury

Nickel

Selenium

Silver

Sulfate

Sulfide

Tin

Tungsten

Vanadium

Zinc

Zirconium

Other

EMT USE ONLY

EMT WORK ORDER

#05070702

Antimony

Arsenic

Barium

Beryllium

Cadmium

Chromium

Cobalt

Copper

Lead

Manganese

Mercury

Nickel

Selenium

Silver

Sulfate

Sulfide

Tin

Tungsten

Vanadium

Zinc

Zirconium

Other

EMT USE ONLY

EMT WORK ORDER

#05070702

Antimony

Arsenic

Barium

Beryllium

Cadmium

Chromium

Cobalt

Copper

Lead

Manganese

Mercury

Nickel

Selenium

Silver

Sulfate

Sulfide

Tin

Tungsten

Vanadium

Zinc

Zirconium

Other

EMT USE ONLY

EMT WORK ORDER

#05070702

Antimony

Arsenic

Barium

Beryllium

Cadmium

Chromium

Cobalt

Copper

Lead

Manganese

Mercury

Nickel

Selenium

Silver

Sulfate

Sulfide

Tin

Tungsten

Vanadium

Zinc

Zirconium

Other

EMT USE ONLY

EMT WORK ORDER

#05070702

Antimony

Arsenic

Barium

Beryllium

Cadmium

Chromium

Cobalt

Copper

Lead

Manganese

Mercury

Nickel

Selenium

Silver

Sulfate

Sulfide



Chain of Custody Record

TURNAROUND TIME: _____ day turnaround
☐ RUSH
☒ ROUTINE

8100 North Austin Avenue
Morton Grove, Illinois 60053-3203

847-967-6666
FAX: 847-967-6735
www.emt.com

Due Date: ____-____-____ COC #: 04600

Company: Foth and Van Dyke
Address: 2737 South Ridge
PO Box 1901Z
Green Bay, WI 54307-901Z
Phone #: (920) 596-6918 Fax #: (920) 497-8516
PO. #: N/A Proj. #: _____
Client Contact: Curt Dungey, Cdungey@Foth.com
Project ID / Location: Eagle metals

Proj.#:

Client Contact: Curt Dungey, CDungey@Foth.Com

Project ID / Location: Eagle Metals

[illegible]

SPECIAL INSTRUCTIONS: 3-24 hr sections of filter tape representing a 72 hr period. The three strips will need to be composited into one sample for digestion and analysis. * 72 hr period from (7/19/11:45am - 7/22 2:00 pm)

Kennecott Minerals Company **Filter Tape Analysis Field Worksheet**

Unique Sample Number	FT-ALL-02
----------------------	-----------

Date Filter Tape First Marked in Field:	7-12-05
Time Filter Tape First Marked in Field:	10:50 am

End Date for Filter Tape Sample in Field:	7-19-05
End Time for Filter Tape Sample in Field:	11:40 am

24 hours

One-Hour Section Number	Flow (m ³)	One-Hour Section Number	Flow (m ³)
1	0.83	13	0.828
2	0.829	14	0.828
3	0.83	15	0.829
4	0.829	16	0.829
5	0.829	17	0.829
6	0.829	18	0.829
7	0.829	19	0.829
8	0.829	20	0.829
9	0.829	21	0.829
10	0.828	22	0.829
11	0.828	23	0.829
12	0.828	24	0.829
		Total Flow	19.89 (m ³)

Comments:

7/12, Warm ~ 27.6°C, 48% RH

7/19, Cloudy ~ 16.6°C, 68% RH

Kennecott Minerals Company **Filter Tape Analysis Field Worksheet**

Date Filter Tape First Marked in Field:	7-12-05
Time Filter Tape First Marked in Field:	10:50am

End Date for Filter Tape Sample in Field:	7-19-05
End Time for Filter Tape Sample in Field:	11:40am

Unique Sample Number	FT-ALL-02
----------------------	-----------

48 hours

One-Hour Section Number	Flow (m ³)
1	.829
2	.829
3	.829
4	.829
5	.829
6	.829
7	.829
8	.829
9	.829
10	.828
11	.828
12	.829

One-Hour Section Number	Flow (m ³)
13	.829
14	.829
15	.829
16	.829
17	.829
18	.829
19	.828
20	.829
21	.829
22	.829
23	.83
24	.83
Total Flow	19.90(m ³)

Comments:

Same as sheet 1 for ALL metals.

Kennecott Minerals Company
Filter Tape Analysis Field Worksheet

Date Filter Tape First Marked in Field:	7-12-05
Time Filter Tape First Marked in Field:	10:50am

Unique Sample Number	FT-ALL-02
----------------------	-----------

End Date for Filter Tape Sample in Field:	7-19-05
End Time for Filter Tape Sample in Field:	11:40am

72 Hours

One-Hour Section Number	Flow (m ³)
1	.829
2	.829
3	.829
4	.829
5	.829
6	.829
7	.829
8	.828
9	.829
10	.829
11	.829
12	.829

One-Hour Section Number	Flow (m ³)
13	.828
14	.829
15	.829
16	.828
17	.829
18	.829
19	.829
20	.829
21	.83
22	.83
23	.83
24	.83
Total Flow	19.90(m ³)

Comments:

Same as from Sheet 1 for ALL metals.

Kennecott Minerals Company **Filter Tape Analysis Field Worksheet**

Date Filter Tape First Marked in Field:	7-19-05
Time Filter Tape First Marked in Field:	11:45 am

End Date for Filter Tape Sample in Field:	7-27-05
End Time for Filter Tape Sample in Field:	10:40 am

Unique Sample Number	FT-MER-02-1
----------------------	-------------

24 hours

One-Hour Section Number	Flow (m ³)
1	.829
2	.829
3	.829
4	.829
5	.829
6	.828
7	.828
8	.826
9	.827
10	.827
11	.827
12	.828

One-Hour Section Number	Flow (m ³)
13	.828
14	.828
15	.828
16	.828
17	.828
18	.828
19	.827
20	.828
21	.828
22	.829
23	.829
24	.829
Total Flow	19.87 m ³

Comments:

7/19, cloudy, $\approx 16.6^{\circ}\text{C}$, 68% RH - day tape was marked
 7/27, sunny, light breeze $\approx 15.6^{\circ}\text{C}$, 57% RH - day tape was removed

Kennecott Minerals Company **Filter Tape Analysis Field Worksheet**

Date Filter Tape First Marked in Field:	7-19-05
Time Filter Tape First Marked in Field:	11:45am

End Date for Filter Tape Sample in Field:	7-27-05
End Time for Filter Tape Sample in Field:	10:40am

Unique Sample Number	FT-MER-02
----------------------	-----------

48 hours

One-Hour Section Number	Flow (m ³)
1	.829
2	.829
3	.828
4	.829
5	.828
6	.829
7	.829
8	.827
9	.827
10	.827
11	.828
12	.828

One-Hour Section Number	Flow (m ³)
13	.827
14	.829
15	.827
16	.828
17	.828
18	.828
19	.827
20	.828
21	.829
22	.83
23	.829
24	.829
Total Flow	19.88(m ³)

Comments:

Same as from Sheet 1 for mercury.

Kennecott Minerals Company **Filter Tape Analysis Field Worksheet**

Date Filter Tape First Marked in Field:	7-19-05
Time Filter Tape First Marked in Field:	11:45am

End Date for Filter Tape Sample in Field:	7-27-05
End Time for Filter Tape Sample in Field:	10:40am

Unique Sample Number	FT-MER-02
----------------------	-----------

72 hours

One-Hour Section Number	Flow (m ³)
1	.829
2	.829
3	.828
4	.828
5	.827
6	.828
7	.827
8	.827
9	.828
10	.827
11	.827
12	.827

One-Hour Section Number	Flow (m ³)
13	.827
14	.828
15	.829
16	.828
17	.828
18	.828
19	.828
20	.829
21	.829
22	.829
23	.829
24	.829
Total Flow	19.87 (m ³)

Comments:

Same as from Sheet 1 for mercury

**Metals Laboratory Report and Field Sheets
Round 3**

ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.



8100 North Austin Avenue • Morton Grove, IL 60053-3203
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Curt Dungey
Foth and Van Dyke
2737 South Ridge
P.O. Box 19012
Green Bay, WI 54307-9012

December 14, 2005

RE: Foth Van Dyke Metals

Lab Orders:
05110307

Dear Mr. Dungey:

Enclosed are the analytical reports for the EMT Lab Order listed. To ensure proper custody procedures, please attach this report to the previously submitted Chain of Custody. If you have any questions, please contact me at 847-324-3320.

Sincerely,


Shawn D. Lane
Project Manager

Approved by,


Mitchell Ostrowski
Laboratory Director

This Report Contains 6 pages

The Contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety.

State of Illinois Chemical Analysis in Drinking Water Accredited Lab. No. 100256
State of Wisconsin Wastewater and Hazardous Waste No. 999888890

environmental laboratory and testing services

water | soil | air | product | waste





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CLIENT: Foth and Van Dyke
Project: Foth Van Dyke Metals
Lab Order: 05110307

Date: 14-Dec-05

CASE NARRATIVE

Unless otherwise noted, samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

Unless otherwise noted, all method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

Sample results relate only to the analytes of interest tested and to the sample received at the laboratory.

All results are reported on a wet weight basis, unless otherwise noted. Dry weight adjusted results are indicated by the notation "dry" in the Units column.

Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated. For specific information regarding EMT's scope of accreditation, please contact your EMT project manager.

The Reporting Limit listed on the Report of Laboratory Analysis is EMT's reporting limit for the analyte reported. For most test methods this reporting limit is primarily based upon the lowest point in the calibration curve.

Method References:

SW=USEPA, Test Methods for Evaluating Solid Waste, SW-846.

E=USEPA Methods for the Determination of Inorganic Substances in Environmental Samples; Methods for Chemical Analysis of Water and Wastes; Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, 40 CFR Part 136, App A; Methods for the Determination of Metals in Environmental Samples; Methods for the Determination of Organic Compounds in Drinking Water.

SM= APHA, Standard Methods for the Examination of Water and Wastewater.

D=ASTM, Annual Book of Standards

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Report of Laboratory Analysis

CLIENT: Foth and Van Dyke
Lab Order: 05110307
Project: Foth Van Dyke Metals
Lab ID: 05110307-01

Client Sample FT-ALL-03
Report Date: 12/14/2005
Collection 11/4/2005 11:00:00 AM
Matrix: Solid

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
ICP-MS Metals, Total. Method: SW6020A / SW3050B						
Antimony	< 0.382	0.382	ug/m ³	11/16/05 23:34	27798	AG
Arsenic	< 0.0321	0.0321	ug/m ³	11/16/05 23:34	27798	AG
Barium	16.1	0.382	ug/m ³	11/16/05 23:34	27798	AG
Beryllium	< 0.00306	0.00306	ug/m ³	11/16/05 23:34	27798	AG
Cadmium	< 0.382	0.382	ug/m ³	11/16/05 23:34	27798	AG
Chromium	< 0.382	0.382	ug/m ³	11/16/05 23:34	27798	AG
Cobalt	< 0.382	0.382	ug/m ³	11/16/05 23:34	27798	AG
Copper	< 0.382	0.382	ug/m ³	11/16/05 23:34	27798	AG
Lead	0.0130	0.382	J ug/m ³	11/16/05 23:34	27798	AG
Magnesium	0.734	0.764	JC ug/m ³	11/16/05 23:34	27798	AG
Manganese	< 0.382	0.382	ug/m ³	11/16/05 23:34	27798	AG

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time
C - Laboratory not accredited for this parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quantitation limits

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Report of Laboratory Analysis

CLIENT: Foth and Van Dyke
Lab Order: 05110307
Project: Foth Van Dyke Metals
Lab ID: 05110307-02

Client Sample FT-BLANK-3A
Report Date: 12/14/2005
Collection 11/9/2005 10:20:00 AM
Matrix: Solid

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
ICP-MS Metals, Total.						
Method: SW6020A / SW3050B						
Antimony	< 50.0	50.0	ug/sample	11/16/05 23:39	27798	AG
Arsenic	< 4.20	4.20	ug/sample	11/16/05 23:39	27798	AG
Barium	1920	50.0	ug/sample	11/16/05 23:39	27798	AG
Beryllium	< 0.400	0.400	ug/sample	11/16/05 23:39	27798	AG
Cadmium	< 50.0	50.0	ug/sample	11/16/05 23:39	27798	AG
Chromium	< 50.0	50.0	ug/sample	11/16/05 23:39	27798	AG
Cobalt	< 50.0	50.0	ug/sample	11/16/05 23:39	27798	AG
Copper	< 50.0	50.0	ug/sample	11/16/05 23:39	27798	AG
Lead	1.40	50.0	J ug/sample	11/16/05 23:39	27798	AG
Magnesium	67.0	100	JC ug/sample	11/16/05 23:39	27798	AG
Manganese	< 50.0	50.0	ug/sample	11/16/05 23:39	27798	AG

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time
C - Laboratory not accredited for this parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quantitation limits

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Report of Laboratory Analysis

CLIENT: Foth and Van Dyke
Lab Order: 05110307
Project: Foth Van Dyke Metals
Lab ID: 05110307-03

Client Sample FT-MER-03
Report Date: 12/14/2005
Collection 11/4/2005 11:00:00 AM
Matrix: Solid

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Mercury, Total		Method: SW7471A				
Mercury	0.00102	0.000181	ug/m ³	11/16/05	27846	IG

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time
C - Laboratory not accredited for this parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quantitation limits

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Report of Laboratory Analysis

CLIENT: Foth and Van Dyke
Lab Order: 05110307
Project: Foth Van Dyke Metals
Lab ID: 05110307-04

Client Sample FT-BLANK-03M
Report Date: 12/14/2005
Collection 11/9/2005 10:20:00 AM
Matrix: Solid

Analyses	Result	EMT Reporting Limit	Units	Date Analyzed	Batch	Analyst
Mercury, Total		Method: SW7471A				
Mercury	0.176	0.0250	ug/sample	11/16/05	27846	IG

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time
C - Laboratory not accredited for this parameter

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quantitation limits

environmental laboratory and testing services

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Kennecott Minerals Company **Filter Tape Analysis Field Worksheet**

Unique Sample Number	FT - ALL-03
----------------------	-------------

Date Filter Tape First Marked in Field:	10-21-05
Time Filter Tape First Marked in Field:	11:00am

End Date for Filter Tape Sample in Field:	11-04-05
End Time for Filter Tape Sample in Field:	11:00am

24-Hour - Day 7

One-Hour Section Number	Flow (m ³)
1	.829
2	.829
3	.829
4	.829
5	.829
6	.829
7	.828
8	.928
9	.828
10	.827
11	.828
12	.829

One-Hour Section Number	Flow (m ³)
13	.828
14	.828
15	.828
16	.828
17	.829
18	.828
19	.828
20	.827
21	.828
22	.828
23	0
24	0
Total Flow	18.22 (m ³)

Comments:

Total 168-hr Flow = 130.85 m³

Kennecott Minerals Company
Filter Tape Analysis Field Worksheet

Date Filter Tape First Marked in Field:	10-21-05
Time Filter Tape First Marked in Field:	11:00am

End Date for Filter Tape Sample in Field:	11-04-05
End Time for Filter Tape Sample in Field:	11:00am

Unique Sample Number	FT-ALL-03
----------------------	-----------

48-Hours - Day 2

One-Hour Section Number	Flow (m ³)
1	.829
2	.829
3	.829
4	.829
5	.829
6	.828
7	0
8	.829
9	.829
10	.826
11	.828
12	.828

One-Hour Section Number	Flow (m ³)
13	.828
14	.827
15	.827
16	.827
17	.827
18	.827
19	0
20	.827
21	.828
22	.827
23	.828
24	.829
Total Flow	18.22m ³

Comments:

Kennecott Minerals Company

Filter Tape Analysis Field Worksheet

Date Filter Tape First Marked in Field:	10-21-05
Time Filter Tape First Marked in Field:	11:00am

End Date for Filter Tape Sample in Field:	11-04-05
End Time for Filter Tape Sample in Field:	11:00am

Unique Sample Number	FT-ALL-03
----------------------	-----------

72-hours - Day 3

One-Hour Section Number	Flow (m ³)
1	.828
2	.828
3	.828
4	.828
5	.828
6	.829
7	.828
8	.828
9	.828
10	.828
11	.828
12	.828

One-Hour Section Number	Flow (m ³)
13	.828
14	.828
15	.827
16	.827
17	.828
18	.827
19	.828
20	0
21	.828
22	.828
23	.828
24	.828
Total Flow	19.04 m ³

Comments:

Kennecott Minerals Company
Filter Tape Analysis Field Worksheet

Date Filter Tape First Marked in Field:	10-21-05
Time Filter Tape First Marked in Field:	11:00am

End Date for Filter Tape Sample in Field:	11-04-05
End Time for Filter Tape Sample in Field:	11:00am

Unique Sample Number	FT-ALL-03
----------------------	-----------

96 Hours - Day 4

One-Hour Section Number	Flow (m ³)
1	.828
2	0
3	.828
4	.828
5	.829
6	.828
7	.828
8	.828
9	.829
10	.828
11	.828
12	.828

One-Hour Section Number	Flow (m ³)
13	.829
14	.828
15	.828
16	.827
17	.828
18	.828
19	.828
20	.828
21	.827
22	.828
23	.829
24	.828
Total Flow	19.05 m ³

Comments:

Kennecott Minerals Company **Filter Tape Analysis Field Worksheet**

Date Filter Tape First Marked in Field:	10-21-05
Time Filter Tape First Marked in Field:	11:00am

End Date for Filter Tape Sample in Field:	11-04-05
End Time for Filter Tape Sample in Field:	11:00am

Unique Sample Number	FT-ALL-03
----------------------	-----------

120 Hours - Day 5

One-Hour Section Number	Flow (m ³)
1	.828
2	.829
3	.829
4	.829
5	.829
6	.828
7	.829
8	.828
9	.828
10	.828
11	.827
12	.828

One-Hour Section Number	Flow (m ³)
13	.828
14	.828
15	.828
16	.828
17	.828
18	.828
19	.828
20	.828
21	.827
22	.828
23	0
24	.828
Total Flow	19.05 m ³

Comments:

Kennecott Minerals Company
Filter Tape Analysis Field Worksheet

Date Filter Tape First Marked in Field:	10-21-05
Time Filter Tape First Marked in Field:	11:00am

End Date for Filter Tape Sample in Field:	11-04-05
End Time for Filter Tape Sample in Field:	11:00am

Unique Sample Number	FT-ALL-03
----------------------	-----------

144 Hours - Day 6

One-Hour Section Number	Flow (m ³)
1	.828
2	.828
3	.828
4	.828
5	0
6	.829
7	.828
8	.828
9	.828
10	.827
11	.828
12	.828

One-Hour Section Number	Flow (m ³)
13	.829
14	.828
15	.828
16	.828
17	.828
18	.828
19	0
20	.828
21	.828
22	.827
23	.828
24	.828
Total Flow	18.22 m ³

Comments:

Kennecott Minerals Company **Filter Tape Analysis Field Worksheet**

Date Filter Tape First Marked in Field:	10-21-05
Time Filter Tape First Marked in Field:	11:00am

End Date for Filter Tape Sample in Field:	11-04-05
End Time for Filter Tape Sample in Field:	11:00am

Unique Sample Number	FT-ALL-03
----------------------	-----------

168 Hours - Day 7

One-Hour Section Number	Flow (m ³)
1	.829
2	.828
3	.829
4	.83
5	0
6	.829
7	.829
8	.828
9	.827
10	.828
11	.828
12	.828

One-Hour Section Number	Flow (m ³)
13	.827
14	.828
15	.828
16	.828
17	.828
18	.828
19	.827
20	.827
21	.828
22	.828
23	.829
24	.83
Total Flow	
19.05 m ³	

Comments:



Chain of Custody Record

TURNAROUND TIME: ☐ RUSH ☒ ROUTINE _____ day turnaround

8100 North Austin Avenue
Morton Grove, Illinois 60053-3203

847-967-6666
FAX: 847-967-6735
www.emt.com

Due Date: - - - - - COC #: 04602

Company: Foth + Van Dyke

Address: 2737 South Ridge

PO Box 19012

Green Bay, WI 54307-9012

Phone #: (920) 496-6918 Fax #: (920) 447-8516

PO #: N/A Proj. #: -

Client Contact: Curt Dungey, cdungey@foth.com

Project ID / Location: Eagle metals

Sample Type: 1. Waste Water 4. Sludge 7. Groundwater (filtered) Other

2. Drinking Water 5. Oil 6. Groundwater Filter tape

3. Soil

Container Type: 1. Plastic V - VOC Vial O - Other

2. Glass B - Tedlar Bag

Preservative: 1. None 4. NaOH 7. Zn Ace

2. H2SO4 5. HCl 8. Other

3. HNO3 6. MeOH

Sample I.D.

Sample Type

Container

Size

Type

No.

By

Date

Time

pH

Temp.

Field

Lab

FT-ALL-03

8

gallon

P

7

AD

11/4/05

11:00am

NA

NA

FT-BLANK-03A

8

gallon

P

1

AD

11/9/05

10:20am

NA

NA

Relinquished By: Alvin M. Dungey

Date: 11-09-05

Time: 12:00pm

Relinquished By:

Date: -

Time: -

Relinquished By:

Date: -

Time: -

Received By:

Date: -

Time: -

Received By:

Date: -

Time: -

Received For Lab By:

Date: 11-10-05

Time: 10:30

EMT USE ONLY

EMT USE ONLY

Antimony

As

Barium

B

Beryllium

Bi

Cadmium

Cd

Chromium

Cr

Cobalt

Co

Copper

Cu

Lead

Pb

Magnesium

Mg

Manganese

Mn

WORKORDER #0510307

EMT USE ONLY

SAMPLE RECEIVED ON ICE

TEMPERATURE (Must be recorded if sampling was greater than 6 hrs. prior to sample receipt)

EMT SAMPLE RETURN POLICY ON BACK

SPECIAL INSTRUCTIONS: 7-24 hr sections of filter tape representing a 168 hr. period. The 7 strips will need to be composited into one sample for digestion + analysis, & 168 hr period from 10/21 - 10/28).
-Bottle: 550 representing 168 hour period in length will need to be composited for digestion + analysis.

Kennecott Minerals Company **Filter Tape Analysis Field Worksheet**

Date Filter Tape First Marked in Field:	10-28-05
Time Filter Tape First Marked in Field:	10:47 am

End Date for Filter Tape Sample in Field:	11-04-05
End Time for Filter Tape Sample in Field:	11:00 am

Unique Sample Number	FT-ME2-03
----------------------	-----------

24 Hours - Day 1

One-Hour Section Number	Flow (m ³)
1	.829
2	.829
3	0
4	.83
5	.829
6	.829
7	.829
8	.828
9	.829
10	.828
11	.828
12	.829

One-Hour Section Number	Flow (m ³)
13	.829
14	.829
15	.828
16	.829
17	.828
18	.828
19	.828
20	.828
21	.828
22	.828
23	.829
24	.829
Total Flow	19.06 m ³

Comments:

Total 168-hr Flow = 138.27

Kennecott Minerals Company **Filter Tape Analysis Field Worksheet**

Date Filter Tape First Marked in Field:	10-28-05
Time Filter Tape First Marked in Field:	10:47 am

End Date for Filter Tape Sample in Field:	11-04-05
End Time for Filter Tape Sample in Field:	11:00 am

Unique Sample Number	FT-ME2-03
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48-Hours - Day 2

One-Hour Section Number	Flow (m ³)
1	.829
2	.83
3	.829
4	.83
5	.829
6	.829
7	.829
8	.827
9	.828
10	.829
11	.828
12	.828

One-Hour Section Number	Flow (m ³)
13	.828
14	.828
15	.828
16	.827
17	.828
18	.828
19	.828
20	.828
21	.828
22	.827
23	.828
24	.828
Total Flow	19.88 m ³

Comments:

Kennecott Minerals Company **Filter Tape Analysis Field Worksheet**

Date Filter Tape First Marked in Field:	10-28-05
Time Filter Tape First Marked in Field:	10:47 am

End Date for Filter Tape Sample in Field:	11-04-05
End Time for Filter Tape Sample in Field:	11:00 am

Unique Sample Number	FT-MER-03
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72 Hours - Day 3

One-Hour Section Number	Flow (m ³)
1	.828
2	.829
3	.828
4	.828
5	.828
6	.827
7	.828
8	.829
9	.827
10	.827
11	.828
12	.828

One-Hour Section Number	Flow (m ³)
13	.827
14	.828
15	.828
16	.827
17	.828
18	.827
19	.828
20	.827
21	.827
22	.827
23	.827
24	.827
Total Flow	19.86 m ³

Comments:

Kennecott Minerals Company **Filter Tape Analysis Field Worksheet**

Date Filter Tape First Marked in Field:	10-28-05
Time Filter Tape First Marked in Field:	10:47am

End Date for Filter Tape Sample in Field:	11-04-05
End Time for Filter Tape Sample in Field:	11:00 am

Unique Sample Number	FT-ME2-03
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96 Hours - Day 4

One-Hour Section Number	Flow (m ³)
1	.827
2	.828
3	.828
4	.828
5	.829
6	.828
7	.828
8	.828
9	.828
10	.828
11	.828
12	.829

One-Hour Section Number	Flow (m ³)
13	.828
14	.828
15	.828
16	.828
17	.828
18	.827
19	.828
20	.828
21	.828
22	.827
23	.828
24	.829
Total Flow	19.87 m ³

Comments:

Kennecott Minerals Company **Filter Tape Analysis Field Worksheet**

Date Filter Tape First Marked in Field:	10-18-05
Time Filter Tape First Marked in Field:	10:47am

End Date for Filter Tape Sample in Field:	11-04-05
End Time for Filter Tape Sample in Field:	11:00 am

Unique Sample Number	FT-ME2-03
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120 Hours - Day 5

One-Hour Section Number	Flow (m ³)
1	.829
2	.829
3	.829
4	.829
5	.829
6	.829
7	.829
8	.827
9	.828
10	.826
11	.827
12	.828

One-Hour Section Number	Flow (m ³)
13	.828
14	.827
15	.828
16	.828
17	.827
18	.828
19	.828
20	.828
21	.827
22	.827
23	.829
24	.83
Total Flow	19.87 m ³

Comments:

Kennecott Minerals Company **Filter Tape Analysis Field Worksheet**

Date Filter Tape First Marked in Field:	10-28-05
Time Filter Tape First Marked in Field:	10:47 am

End Date for Filter Tape Sample in Field:	11-04-05
End Time for Filter Tape Sample in Field:	11:00 am

Unique Sample Number	FT-ME2-03
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144 Hour - Day 6

One-Hour Section Number	Flow (m ³)
1	.829
2	.829
3	.829
4	.829
5	.829
6	.829
7	.828
8	.828
9	.827
10	.828
11	.828
12	.828

One-Hour Section Number	Flow (m ³)
13	.828
14	.828
15	.828
16	.827
17	.827
18	.827
19	.828
20	.828
21	.828
22	.827
23	.827
24	.827
Total Flow	19.87 m ³

Comments:

Kennecott Minerals Company **Filter Tape Analysis Field Worksheet**

Date Filter Tape First Marked in Field:	10-28-05
Time Filter Tape First Marked in Field:	10:47am

End Date for Filter Tape Sample in Field:	11-04-05
End Time for Filter Tape Sample in Field:	11:00 am

Unique Sample Number	FT-ME2-03
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168 Hours - Day 7

One-Hour Section Number	Flow (m ³)
1	.827
2	.828
3	.828
4	.828
5	.828
6	.828
7	.828
8	.827
9	.827
10	.828
11	.828
12	.827

One-Hour Section Number	Flow (m ³)
13	.828
14	.827
15	.827
16	.827
17	.828
18	.827
19	.828
20	.827
21	.828
22	.828
23	.828
24	.828
Total Flow	19.86 m ³

Comments:



TURNAROUND TIME: ☐ RUSH ☒ ROUTINE _____ day turnaround

COC #: 04601

Company: Foth + Van Dyke
Address: 2737 South Ridge
PO Box 19012
Green Bay, WI 54307-9012
Phone #: (920) 496-6918 Fax #: (920) 497-8516
PO. #: N/A Proj. #: -
Client Contact: Curt Dwyer, cdwyer@Foth.com
Project ID / Location: Eagle metals

SPECIAL INSTRUCTIONS: 7-24 hour sections of filter tape representing a 168 hr period. The 4 strips will need to be composited into one sample for digestion and analysis. * 168 hr period from (10/28 - 11/04)

1-BLANK strip representing 168 hour length will need to be composited for digestion + analysis.