A ZONE GROUNDWATER ELEVATION CONTOURS

(SUMMER BASEFLOW, AUGUST 2005)

- ORE BODY
- OUTCROP
- A ZONE UNSATURATED
- EAGLE PROJECT
- ROAD
- HYDROGRAPHY
- GROUNDWATER FLOWLINE
- GROUNDWATER CONTOUR

(10' CONTOUR INTERVAL, DASHED WHERE INFERRED, SUPPLEMENTAL CONTOUR AT 1425')

- MONITORING WELL
- SEEP PIEZOMETER
- SURFACE WATER MONITORING
- WETLAND PIEZOMETER

(1292.49) GROUNDWATER ELEVATION (ft MSL on 8/30/05)

Reference

Data provided by: Kennecott Eagle Minerals,
North Jackson Company
Projection & Datum: UTM NAD 83 Zone 16N

0 0.5 1 Miles

Scale: 1:36,000

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Figure: 23

D ZONE GROUNDWATER ELEVATION CONTOURS

(SUMMER BASEFLOW, AUGUST 2005)

- ORE BODY
- OUTCROP
- EAGLE PROJECT
- D-ZONE DISCONTINUITY
- GROUNDWATER FLOWLINE
- GROUNDWATER CONTOUR

(10' CONTOUR INTERVAL)

- ROAD
- HYDROGRAPHY
- MONITORING WELL
- SEEP PIEZOMETER
- SURFACE WATER MONITORING
- WETLAND PIEZOMETER
- SEEP PIEZOMETER

(1365.32) GROUNDWATER ELEVATION (ft MSL on 8/30/05)

Reference

Data provided by: Kennecott Eagle Minerals,
North Jackson Company
Projection & Datum: UTM NAD 83 Zone 16N

0 0.5 1 Miles

Scale: 1:36,000

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Figure: 24

DETAILED SEEP AND SURFACE WATER MAPPING

- ORE BODY
- OUTCROP
- EAGLE PROJECT
- AREA OF DETAILED SEEP AND SURFACE WATER MONITORING
- A ZONE UNSATURATED
- GROUNDWATER CONTOUR

(20' INTERVAL, A ZONE SPRING SNOWMELT RUNOFF, MAY 2005)

- ROAD
- HYDROGRAPHY
- MONITORING WELL
- SEEP PIEZOMETER

(SEEPS LOCATED OUTSIDE OF DESIGNATED AREA WERE MAPPED DURING GENERAL FEILD RECONNAISSANCE)

- SURFACE WATER MONITORING
- WETLAND PIEZOMETER

Reference

Data provided by: Kennecott Eagle Minerals, North Jackson Company
Projection & Datum: UTM NAD 83 Zone 16N

0 1,500 3,000 Feet

Scale: 1:18,000

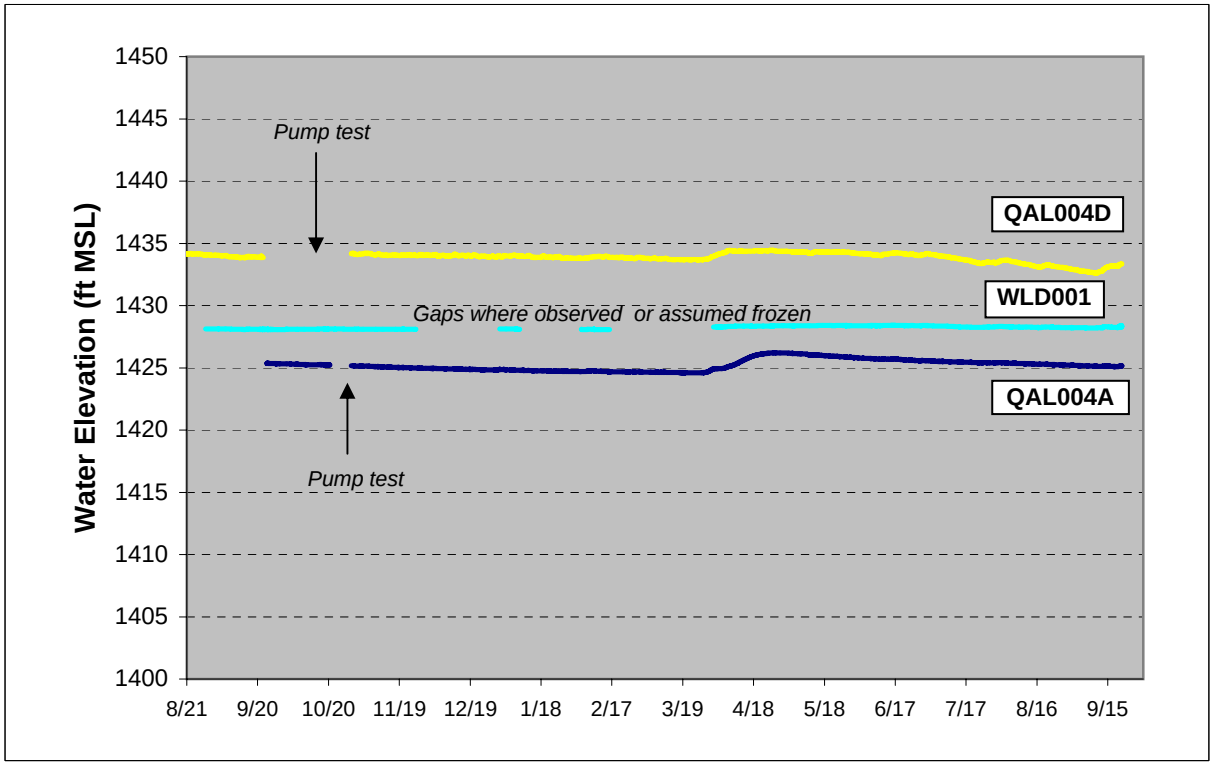
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Figure: 25

Figure 26
Continuous Regional Groundwater Elevation Data
Eagle Project



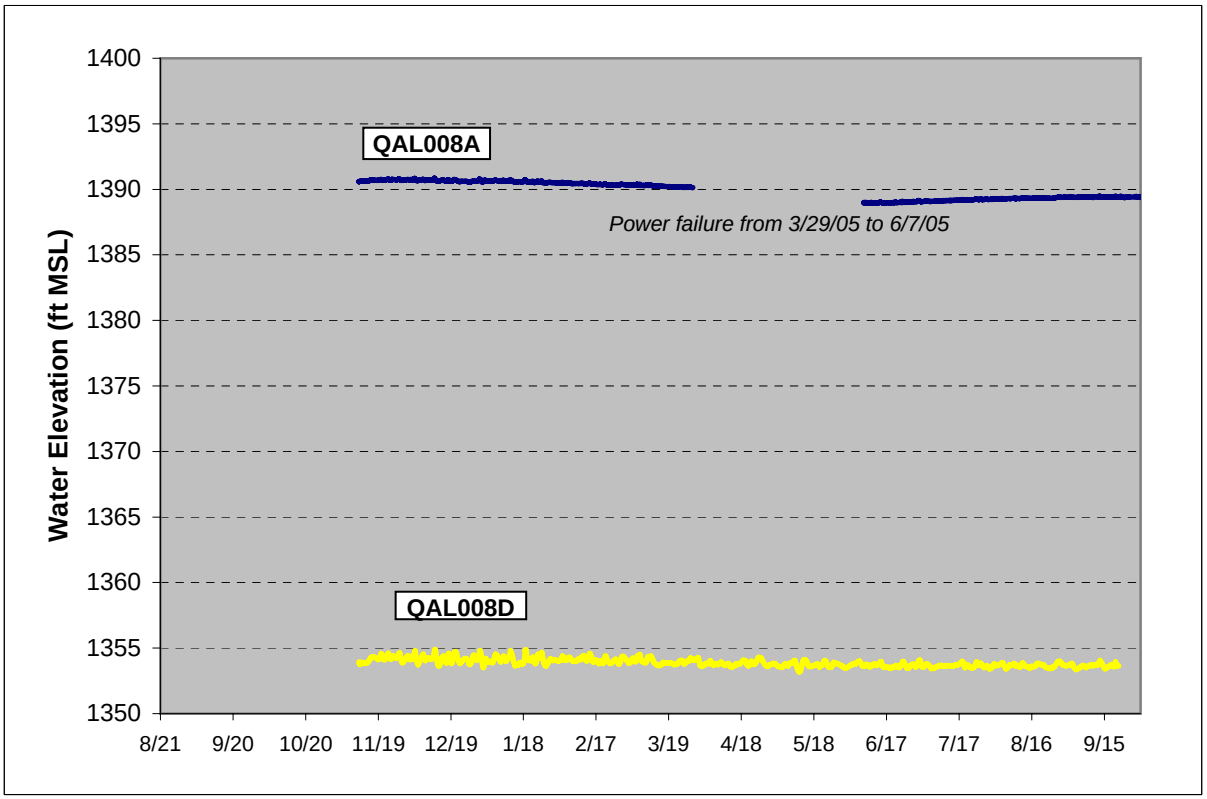


Figure 26: GW Elevation Plot

Figure 26
Continuous Regional Groundwater Elevation Data
Eagle Project

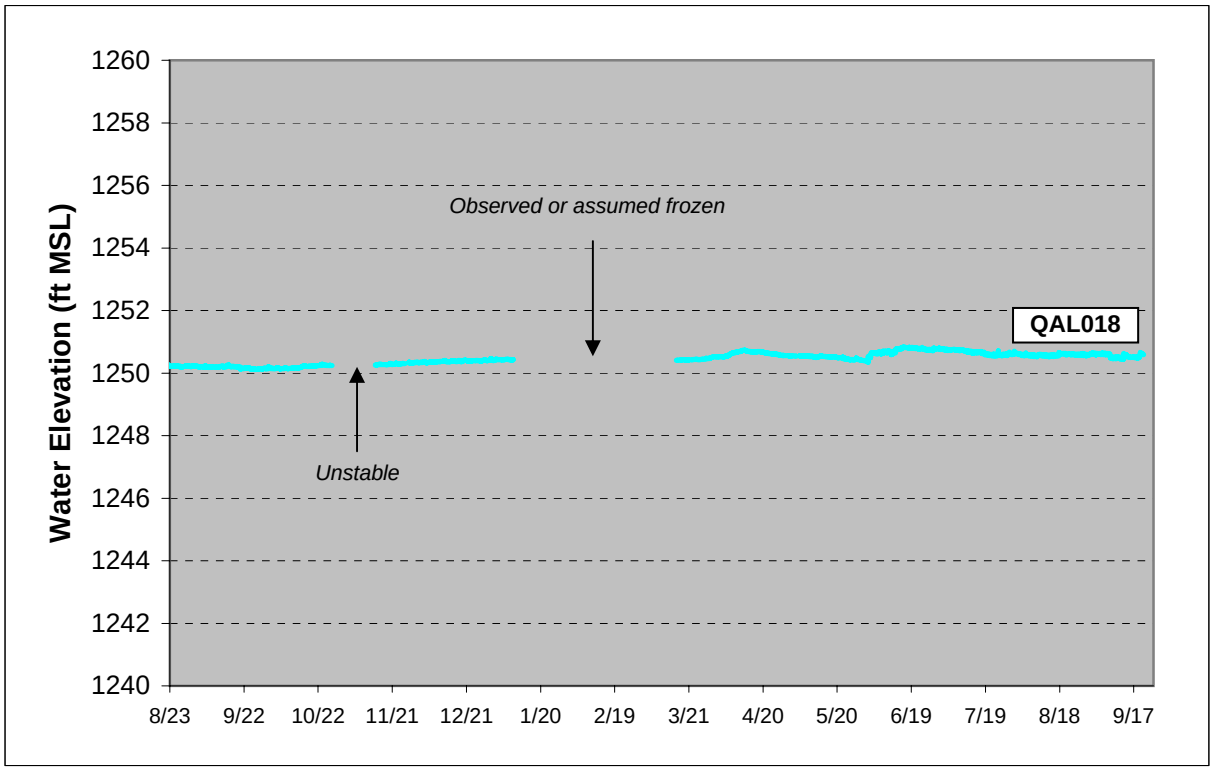
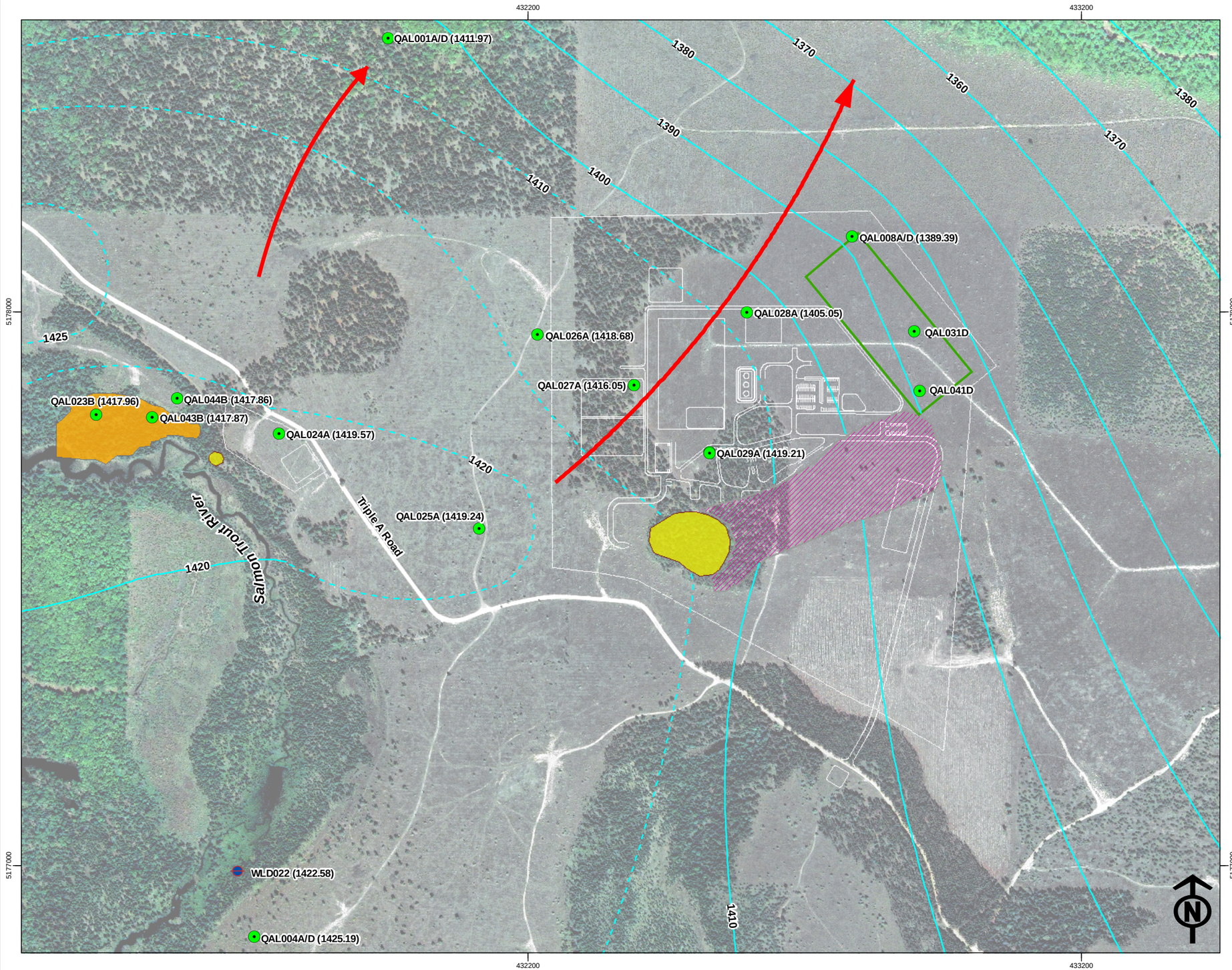


Figure 26: GW Elevation Plot, Cont.



A ZONE GROUNDWATER ELEVATION CONTOURS PROJECT VIEW

(SUMMER BASEFLOW, AUGUST 2005)

- ORE BODY
- OUTCROP
- A ZONE UNSATURATED
- PROPOSED SITE PLAN
- PROPOSED DISCHARGE AREA
- GROUNDWATER FLOWLINE
- GROUNDWATER CONTOUR
  (10' CONTOUR INTERVAL, DASHED WHERE INFERRED, SUPPLEMENTAL CONTOUR AT 1425 ft)
- MONITORING WELL
- WETLAND PIEZOMETER

(1365.32) GROUNDWATER ELEVATION (ft MSL on 8/30/05)

Reference

Data provided by: Kennecott Eagle Minerals, North Jackson Company
Projection & Datum: UTM NAD 83 Zone 16N

0 600 1,200 Feet

Scale: 1:7,200

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Comprehensive Study of Hydrogeologic Reports
Kennecott Minerals Company

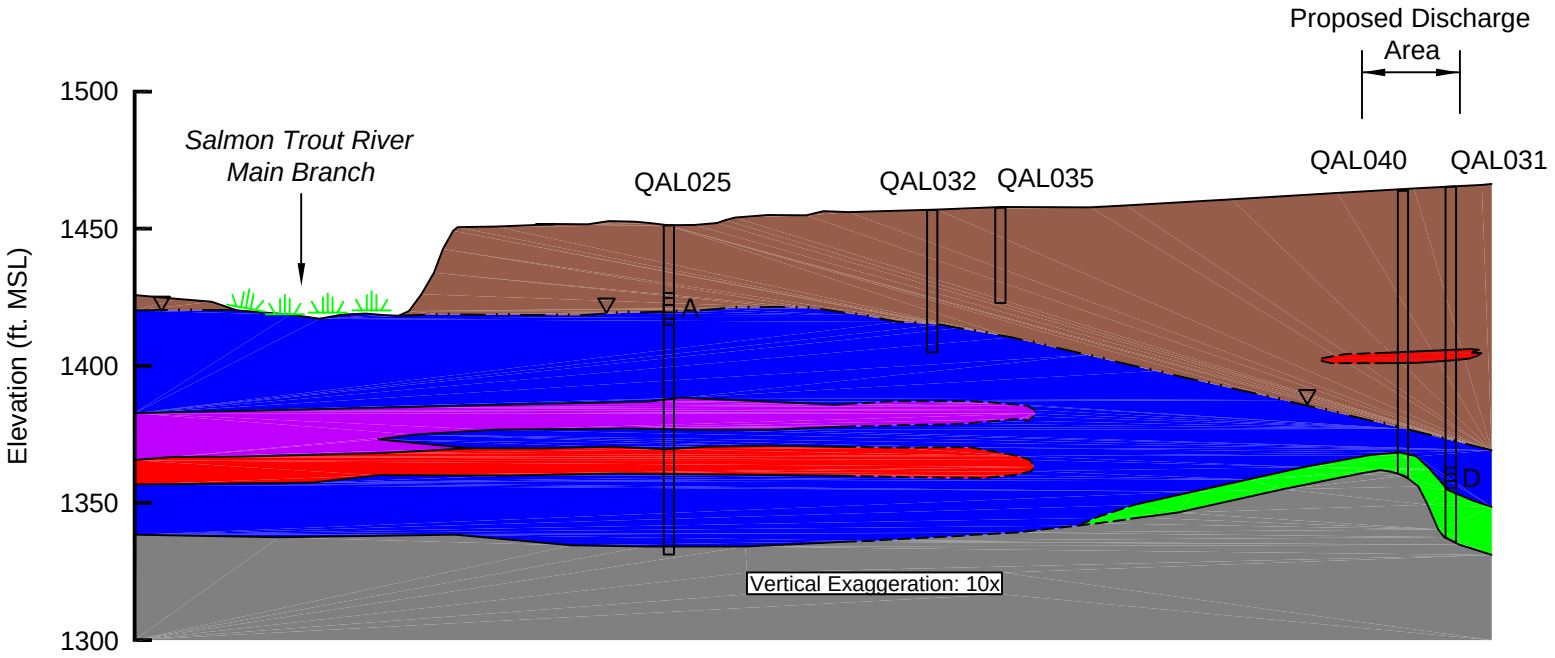
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Figure: 27

Southwest
C

Northeast
C'



LEGEND:

- Water Table
- A — Monitoring Well with Screened Zones
- Unsaturated Sand
- Saturated Sand (upper and lower zones)
- Fine Sand Silt and Clay
- Lean Clay
- Clayey Glacial Till
- Bedrock: Metasedimentary

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1004 Harbor Hills Drive, Suite 102
Marquette, MI 49855

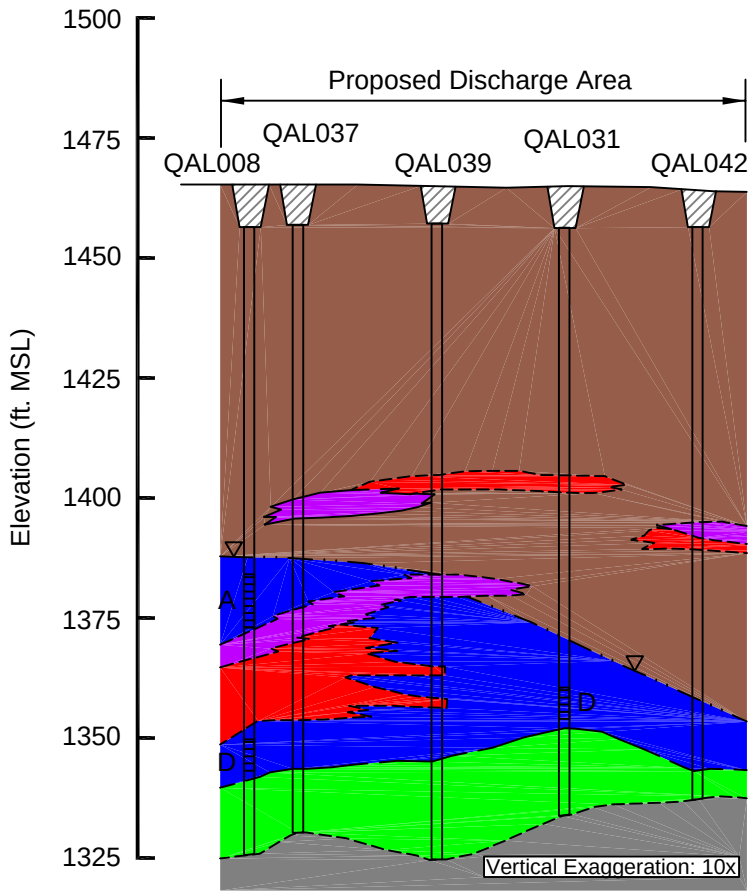
0 — 700
Feet
Vertical Exaggeration: 10x

FIGURE 28

CONCEPTUAL HYDROGEOLOGIC CROSS SECTION C-C'

Eagle Project

Northwest
D



Southeast
D'

LEGEND:

- Water Table
- Monitoring Well with Screened Zones (A)
- Test Pit / Infiltration Test
- Unsaturated Sand
- Saturated Sand (upper and lower zones)
- Fine Sand Silt and Clay
- Lean Clay
- Clayey Glacial Till
- Bedrock: Metasedimentary

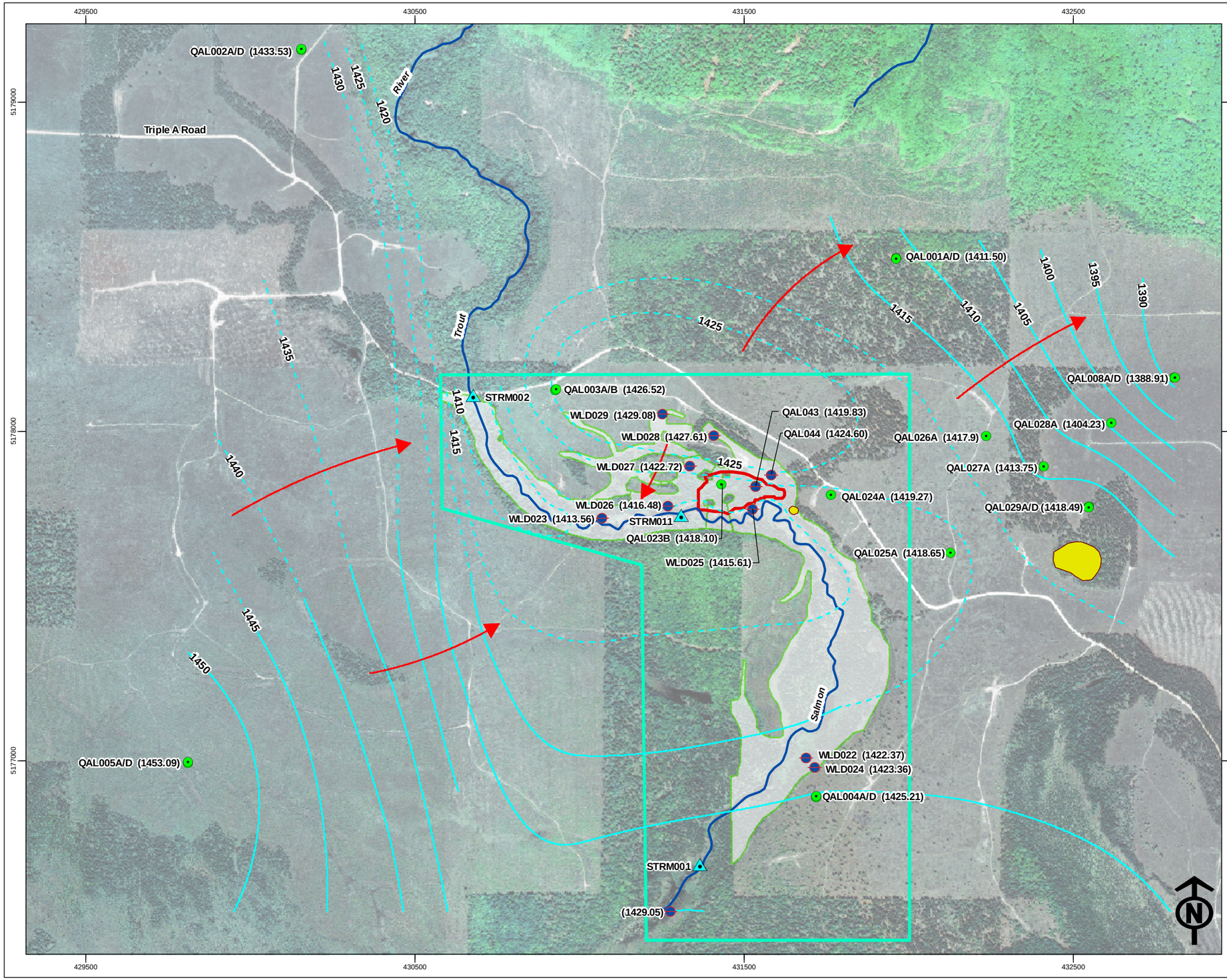
NORTH JACKSON COMPANY
1004 Harbor Hills Drive, Suite 102
Marquette, MI 49855

0 400
Feet
Vertical Exaggeration: 10x

FIGURE 29

CONCEPTUAL HYDROGEOLOGIC CROSS SECTION D-D'

Eagle Project



A ZONE GROUNDWATER ELEVATION CONTOURS WETLAND STUDY AREA

(DECEMBER 2005)

- ORE BODY
- OUTCROP
- WETLAND STUDY AREA
- PROJECT WETLAND
- FLOWLINE
- MONITORING WELL
- SEEP PIEZOMETER
- SURFACE WATER MONITORING
- WETLAND PIEZOMETER
- GROUNDWATER CONTOUR

(5' CONTOUR INTERVAL, DASHED WHERE INFERRED)

(1413.75) GROUNDWATER ELEVATION (ft MSL)

Reference

Data provided by: Kennecott Eagle Minerals,
North Jackson Company
Projection & Datum: UTM NAD 83 Zone 16N

0 1,000 2,000 Feet

Scale: 1:12,000

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Figure: 30

Figure 31
Continuous Groundwater Elevation Data (1413 - 1421 ft MSL)
11-18-05 to 12-5-05
Eagle Project

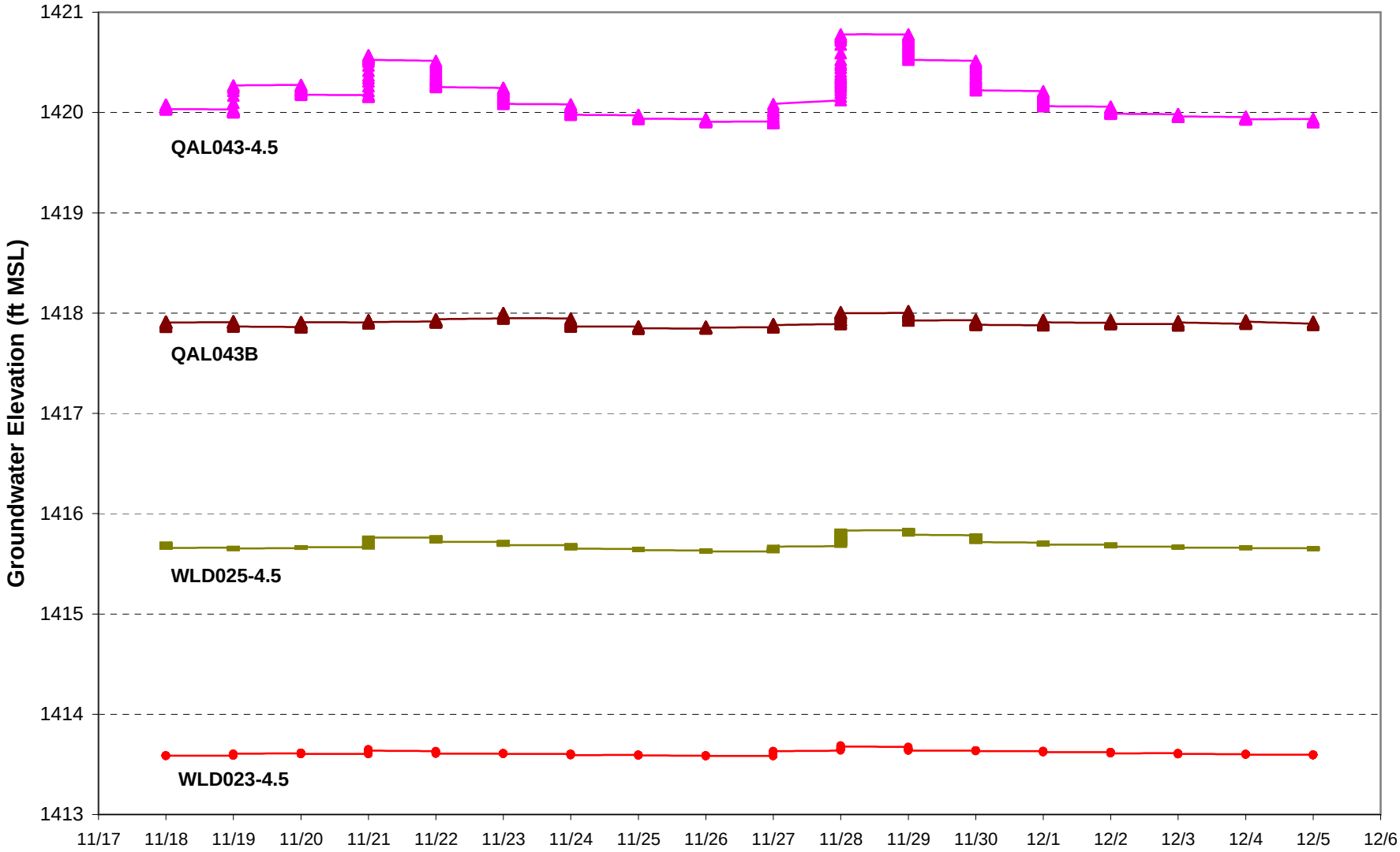


Figure 31: 1413 - 1421 ft MSL

Figure 31
Continuous Groundwater Elevation Data (1422 - 1430 ft MSL)
11-18-05 to 12-5-05
Eagle Project

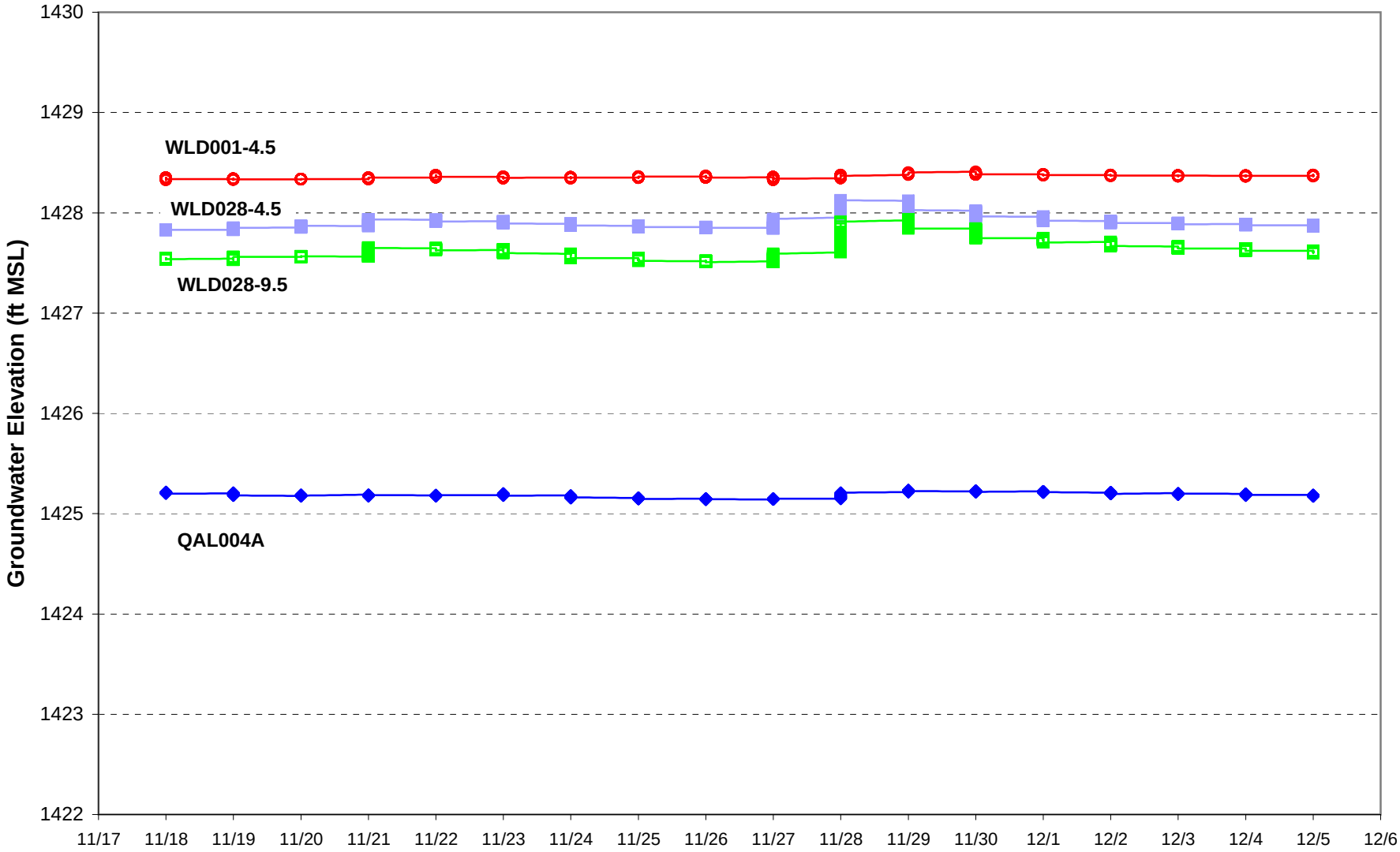


Figure 31: 1422 - 1430 ft MSL

Figure 31
Continuous Groundwater Elevation Data (1431 - 1439 ft MSL)
11-18-05 to 12-5-05
Eagle Project

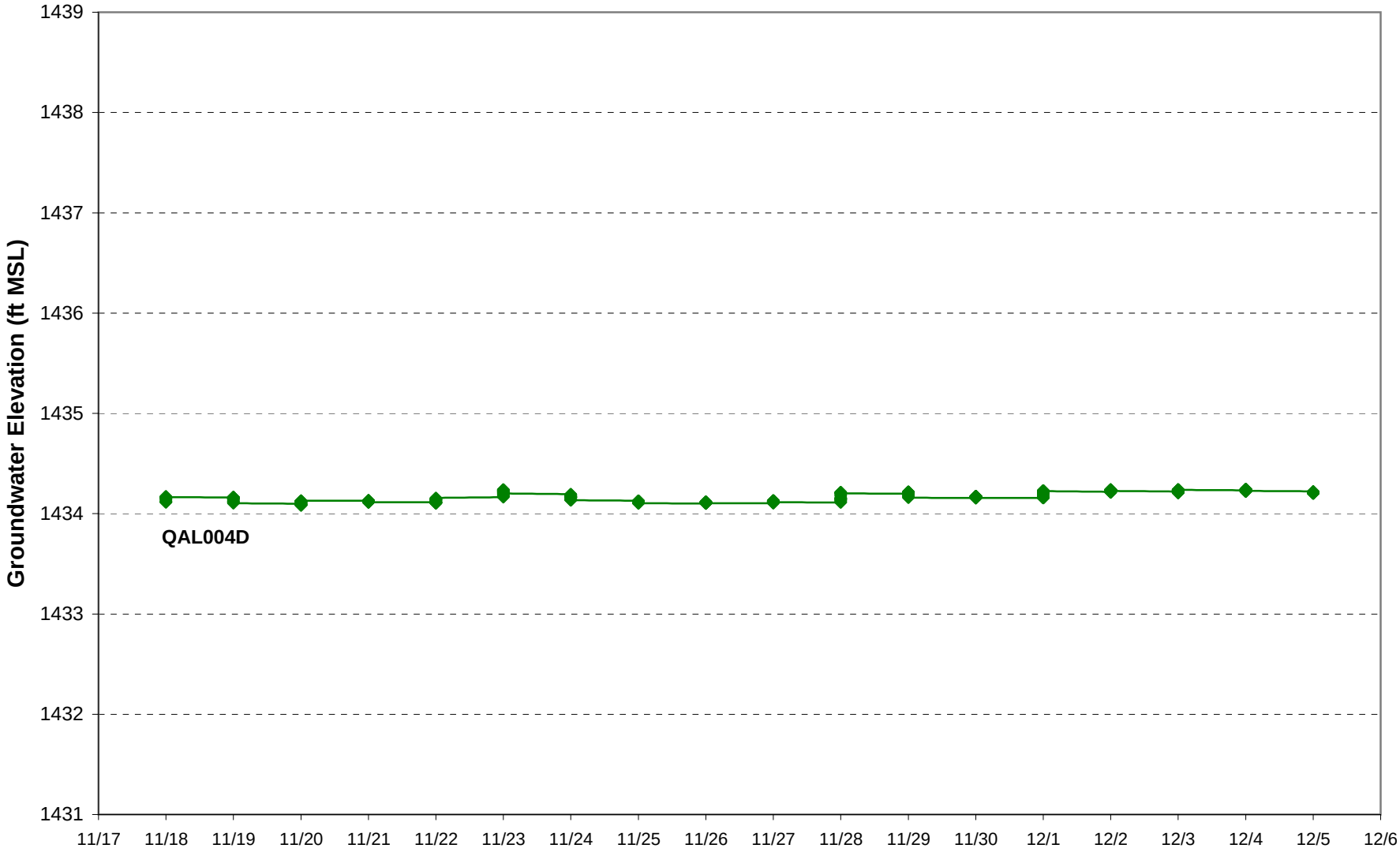


Figure 31: 1431 - 1439 ft MSL

Figure 31
Continuous Groundwater Elevation Data (1450 - 1458 ft MSL)
11-18-05 to 12-5-05
Eagle Project

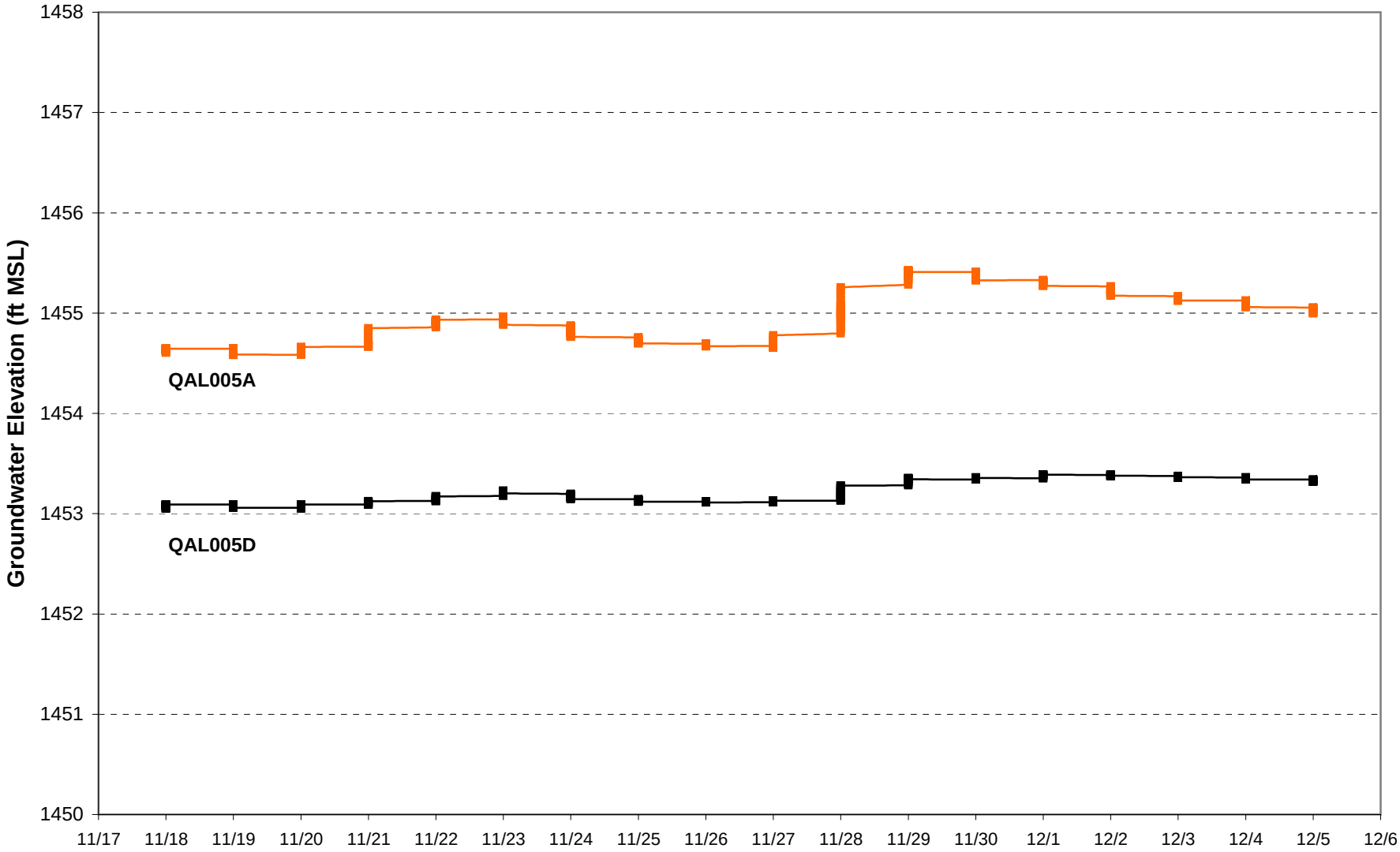
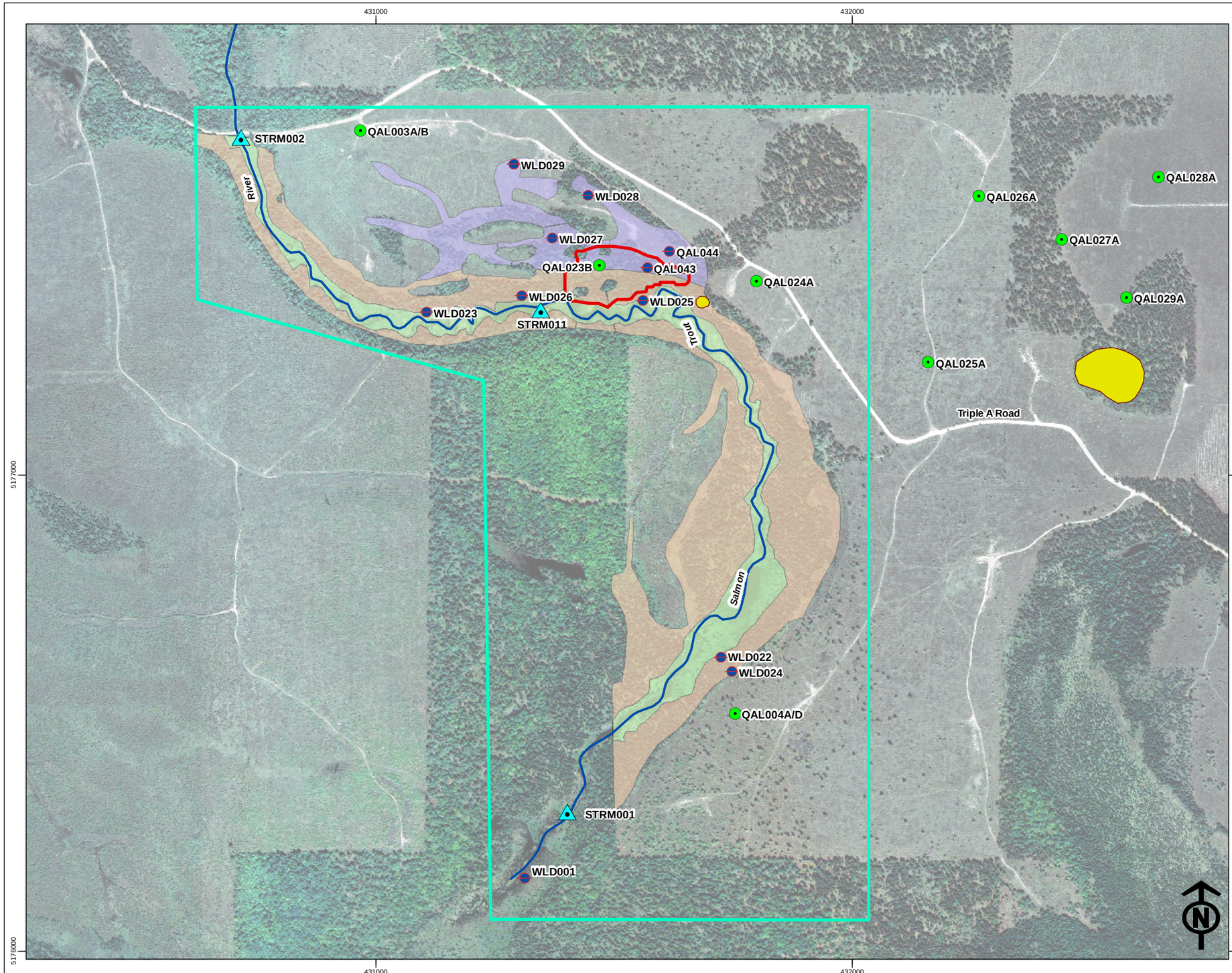


Figure 31: 1450 - 1458 ft MSL



WETLAND HYDROLOGIC CLASSIFICATION

- ORE BODY
- OUTCROP
- WETLAND STUDY AREA

PRIMARY SUPPORT OF PROJECT WETLAND:

- SURFACE WATER STREAM
- GROUNDWATER
- PRECIPITATION
- MONITORING WELL
- PIEZOMETER
- SURFACE WATER MONITORING

Reference

Data provided by: Kennecott Eagle Minerals, North Jackson Company
Projection & Datum: UTM NAD 83 Zone 16N

0 700 1,400 Feet

Scale: 1:8,400

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Figure: 32

A ZONE MODEL EQUIPOTENTIAL SIMULATION with GROUNDWATER BASIN DIVIDES

- ORE BODY
- OUTCROP
- EAGLE PROJECT
- APPROXIMATE LIMIT OF ACTIVE MODEL AREA
- RIVER CELL
- EQUIPOTENTIAL
  (10' CONTOUR INTERVAL, DASHED WHERE INFERRED)
- ROAD
- GROUNDWATER BASIN DIVIDE
  STR - SALMON TROUT RIVER
  YDR - YELLOW DOG RIVER
- MONITORING WELL
- SEEP PIEZOMETER
- SURFACE WATER MONITORING

Reference

Data provided by: Kennecott Eagle Minerals,
North Jackson Company
Projection & Datum: UTM NAD 83 Zone 16N

0 1 2 Miles

Scale: 1:63,360

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Figure: 33

D ZONE MODEL EQUIPOTENTIAL SIMULATION with GROUNDWATER BASIN DIVIDES

- ORE BODY
- OUTCROP
- EAGLE PROJECT
- APPROXIMATE LIMIT OF ACTIVE MODEL AREA
- RIVER CELL
- EQUIPOTENTIAL
  (10' CONTOUR INTERVAL, DASHED WHERE INFERRED)
- ROAD
- GROUNDWATER BASIN DIVIDE

STR - SALMON TROUT RIVER
YDR - YELLOW DOG RIVER

- MONITORING WELL
- SEEP PIEZOMETER
- SURFACE WATER MONITORING

Reference

Data provided by: Kennecott Eagle Minerals,
North Jackson Company
Projection & Datum: UTM NAD 83 Zone 16N

0 1 2 Miles

Scale: 1:63,360

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Figure: 34

Figure 35 Piper Diagram

Surface Water Quality (Winter Baseflow 2005)

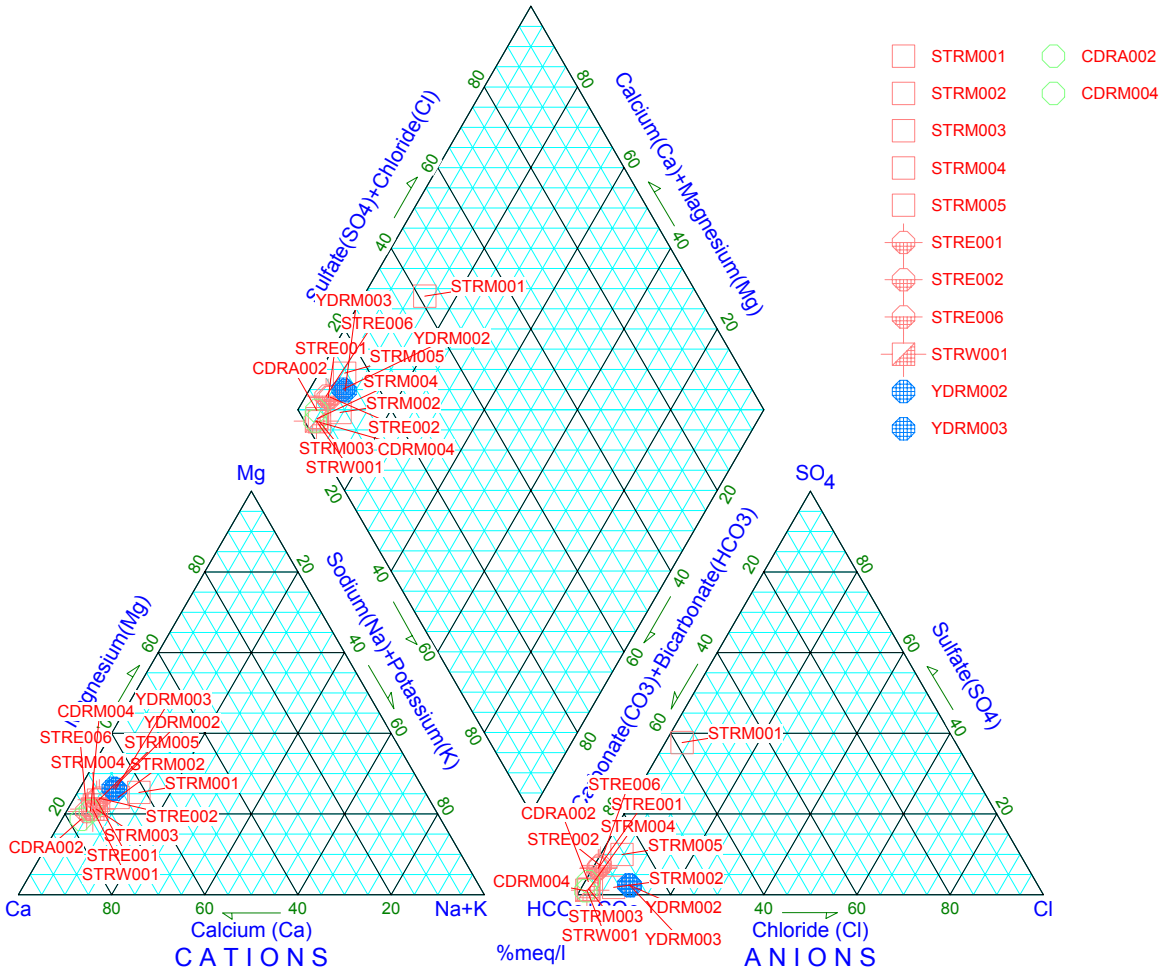


Figure 36
Mean Daily Surface Water Temperature
(September 2004 - September 2005)
Eagle Project

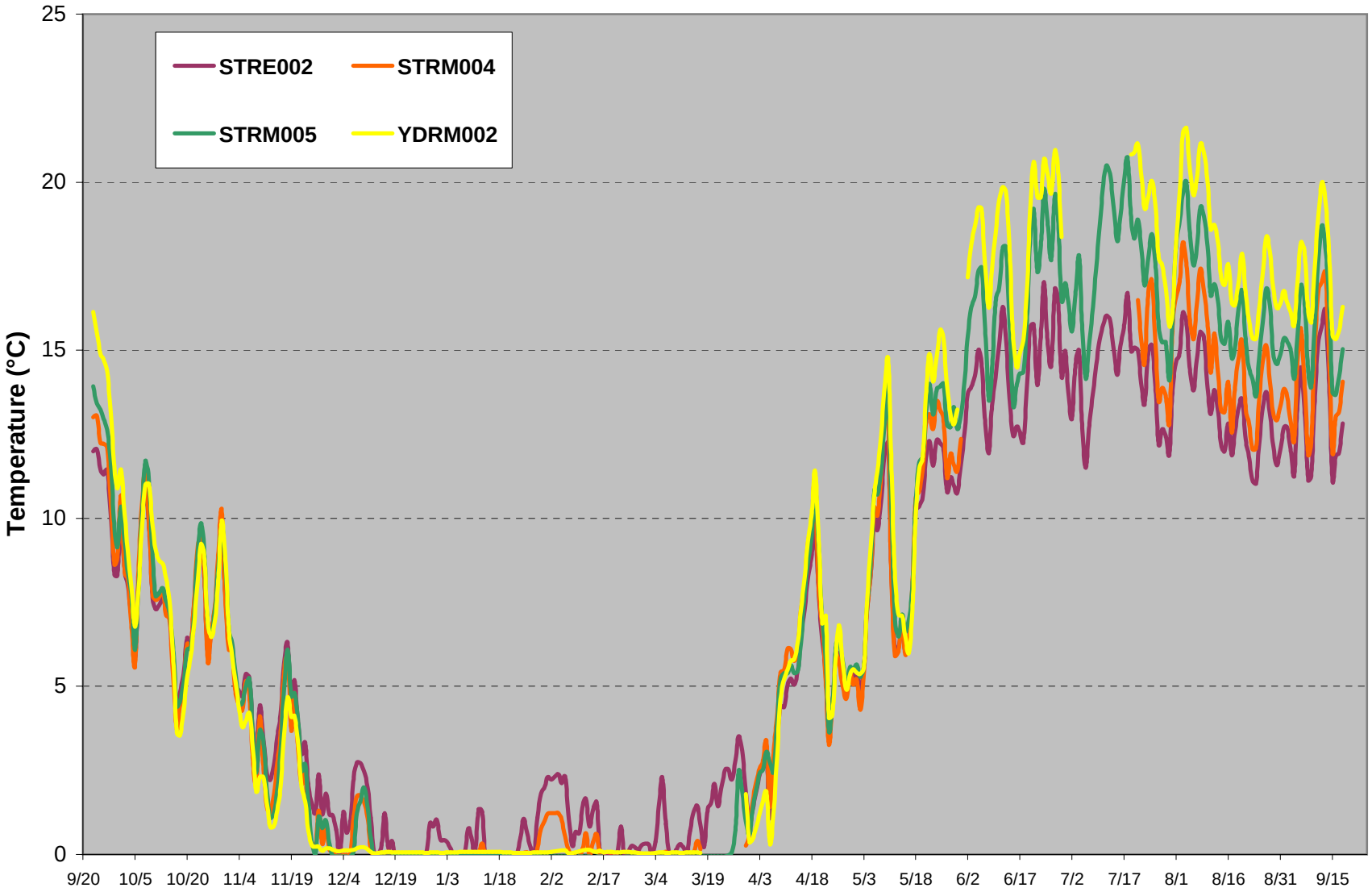


Figure 36: Temperature Plot

Figure 37
Mean Daily Specific Conductance
(September 2004 - May 2005)
Eagle Project

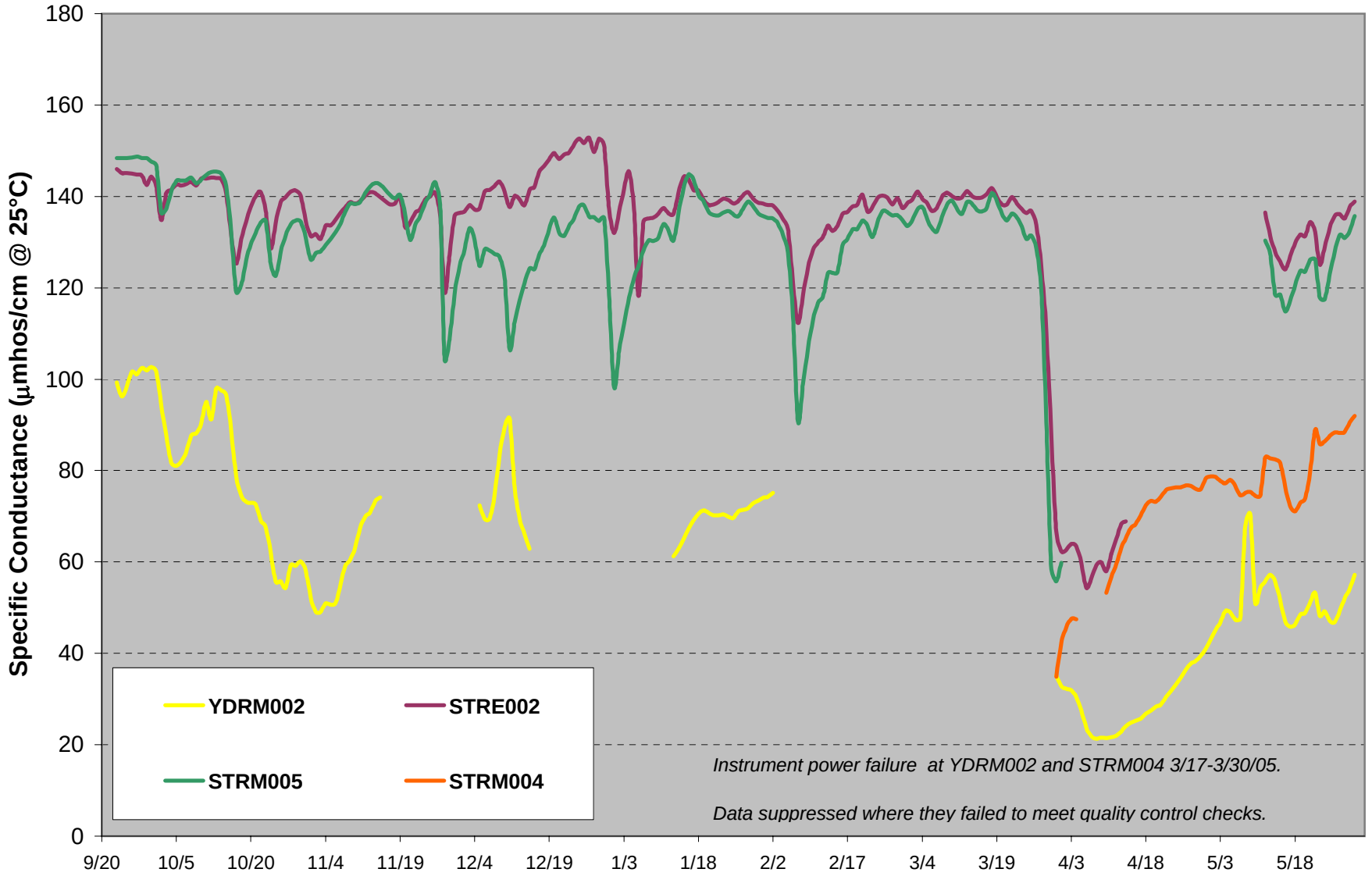


Figure 37: Mean Daily Spec Cond Plot

Figure 38
Hardness at Selected Surface Water Monitoring Locations
(Fall Rain Runoff 2004)
Eagle Project

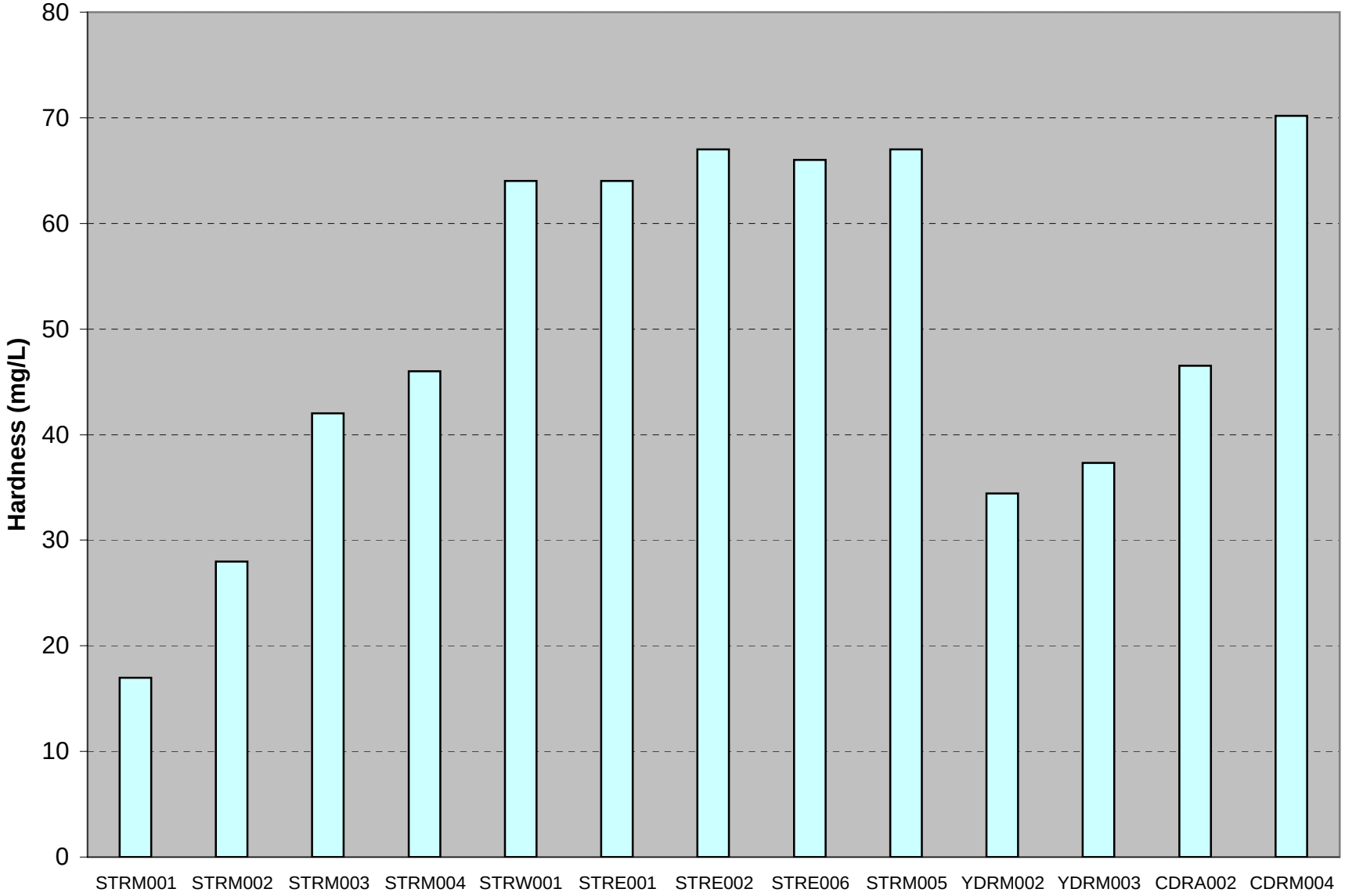


Figure 38: Hardness at SW Stations

Figure 39
Seasonal Variation of Hardness at Selected
Surface Water Monitoring Locations
Eagle Project

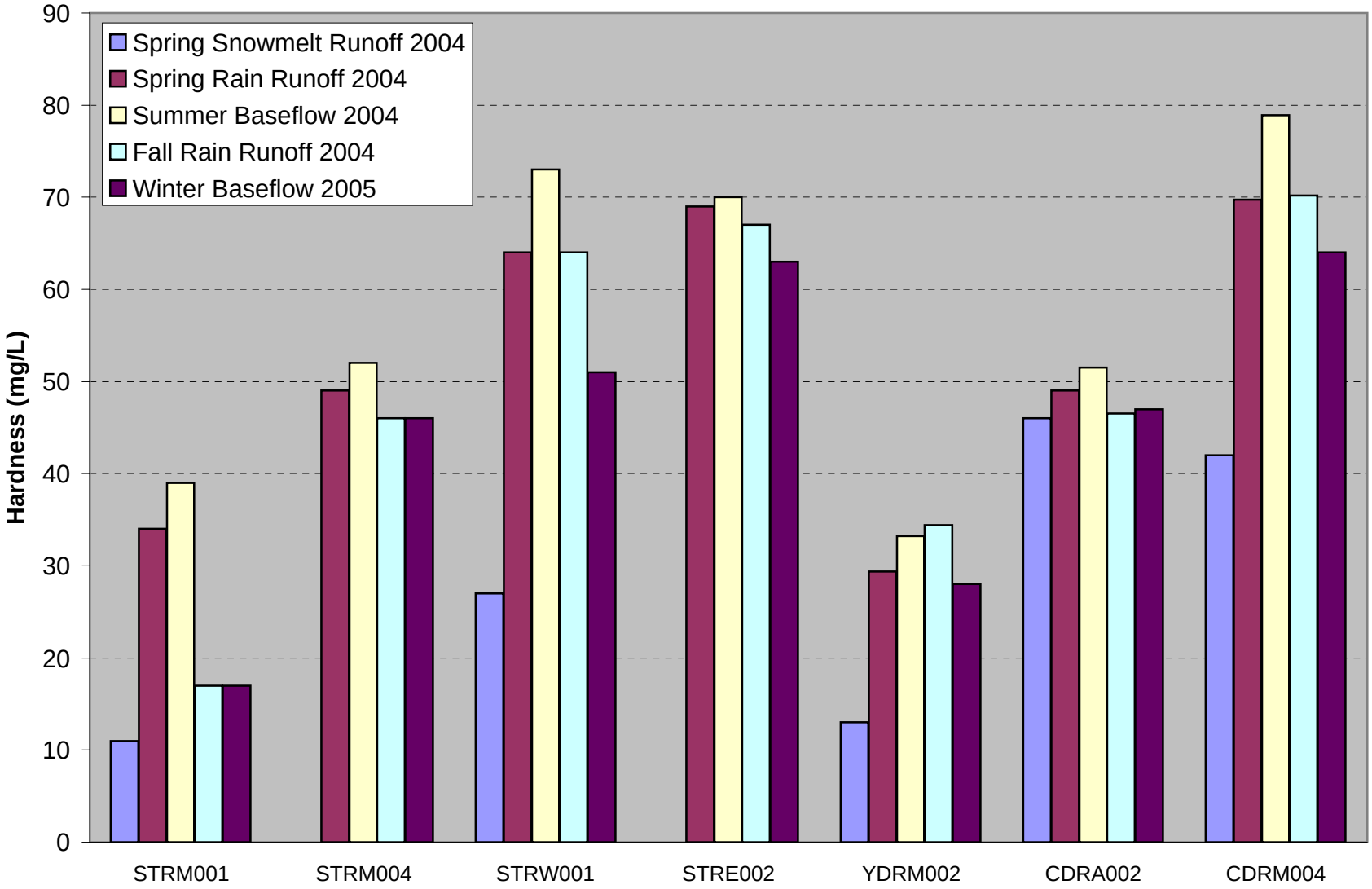


Figure 39: Hardness at Selected Stns

Figure 40
Seasonal Variation of Flow and Mercury Concentration
in the Salmon Trout River Watershed
Eagle Project

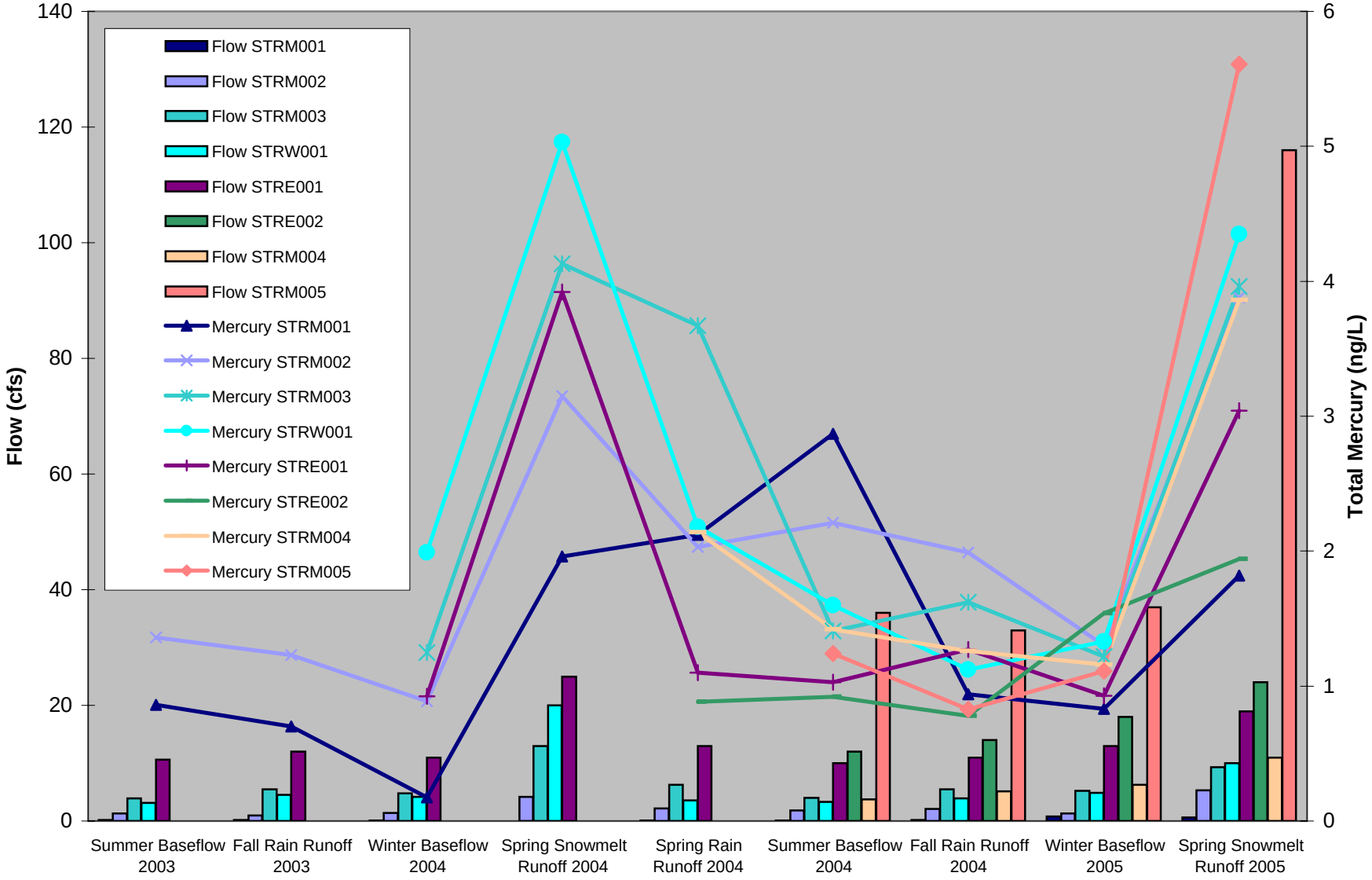


Figure 40: Mercury and Flow

Figure 41 Piper Diagram

Quaternary Aquifer Groundwater Quality (Winter Baseflow 2005)

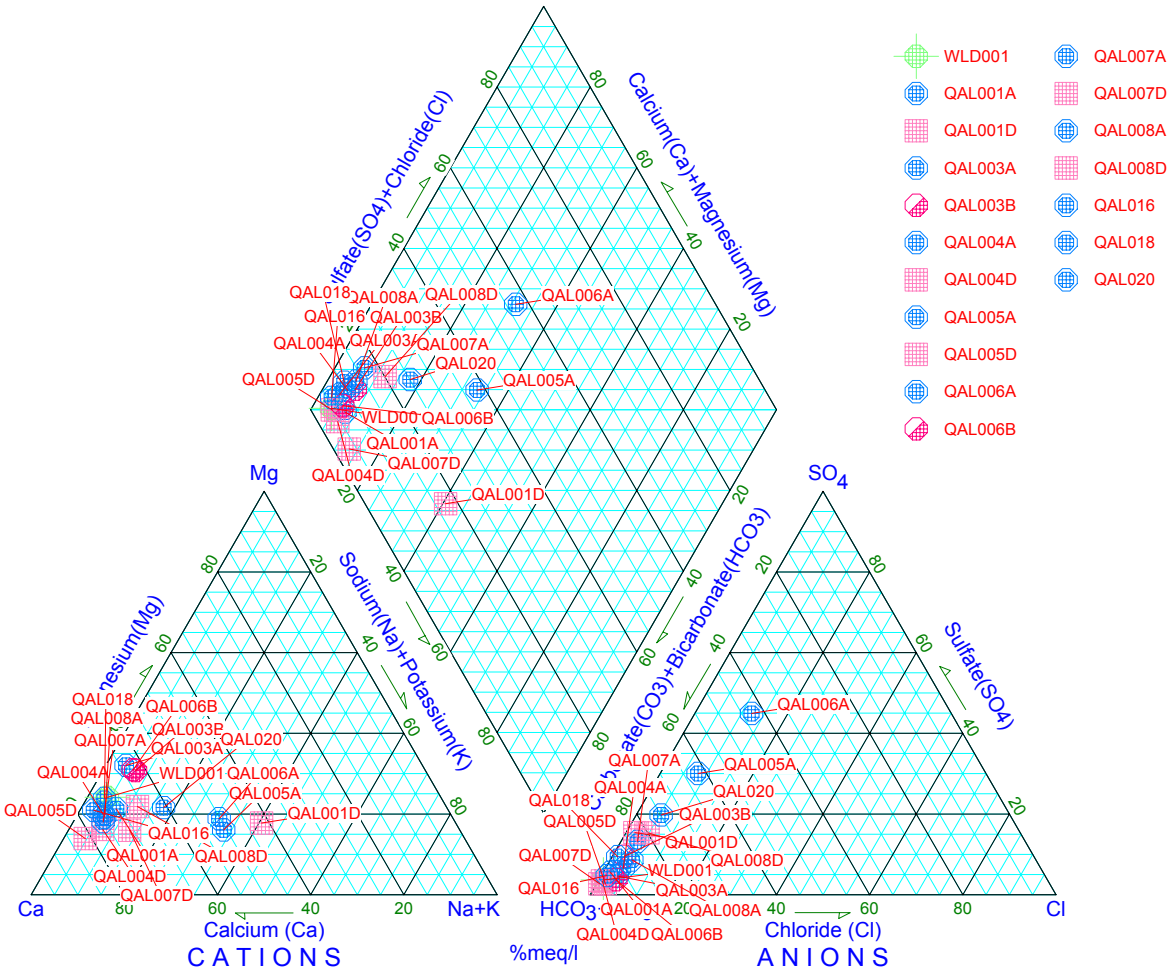


Figure 42 Piper Diagram

Wetland Water Quality (December 2005)

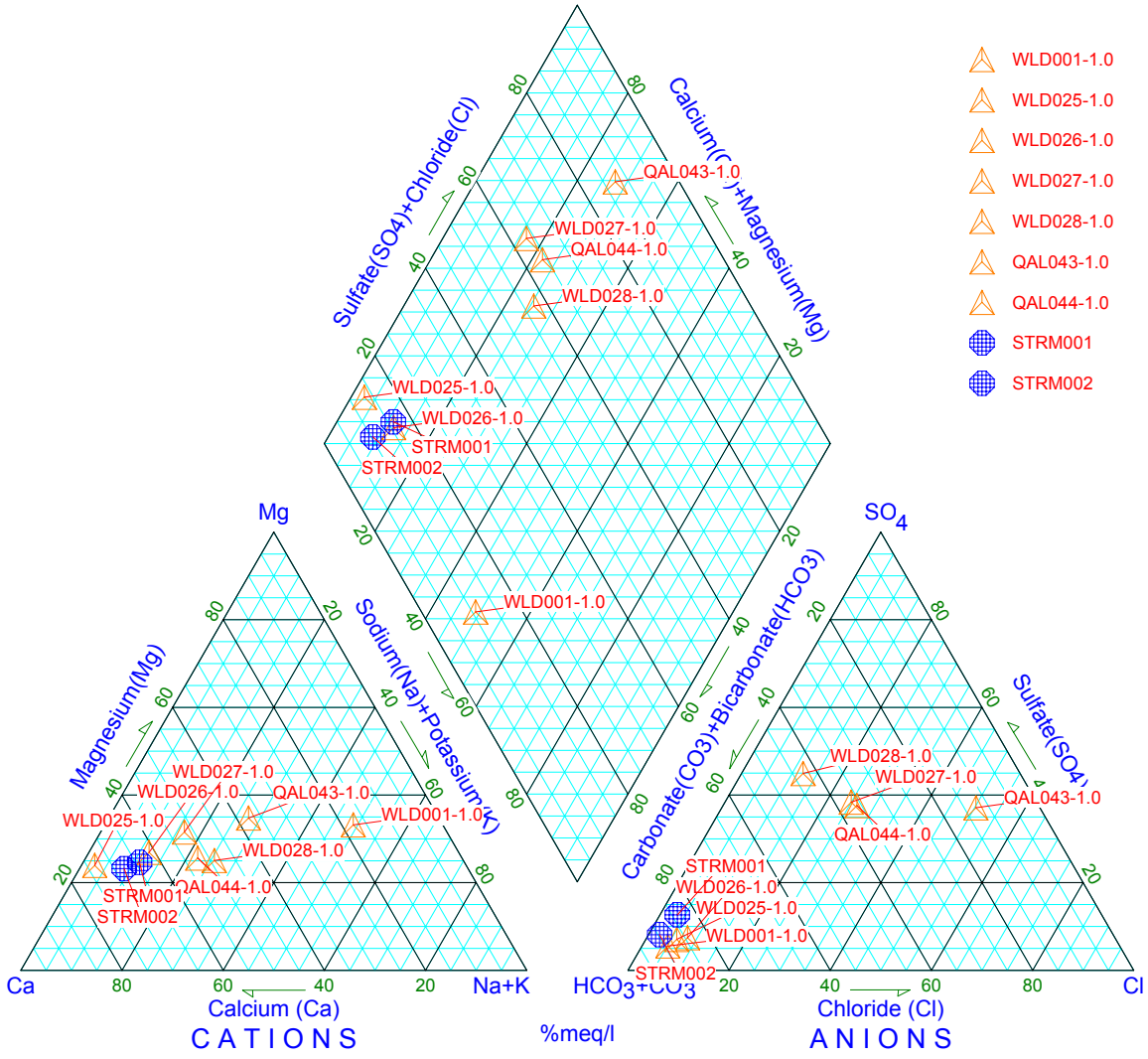


Figure 43 Piper Diagram

Bedrock Groundwater Quality (September 2005)

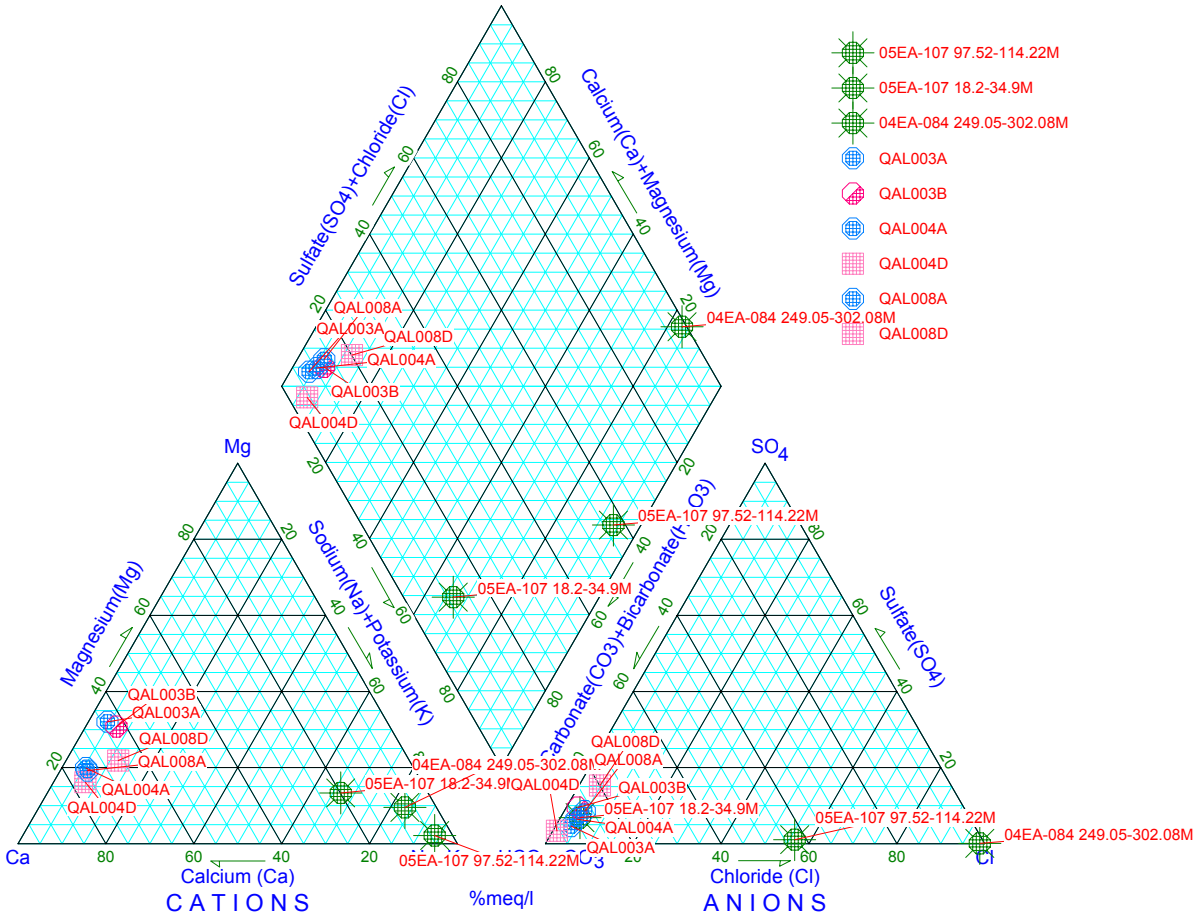


Figure 44
Mine Inflow Rate Time Series
Eagle Project

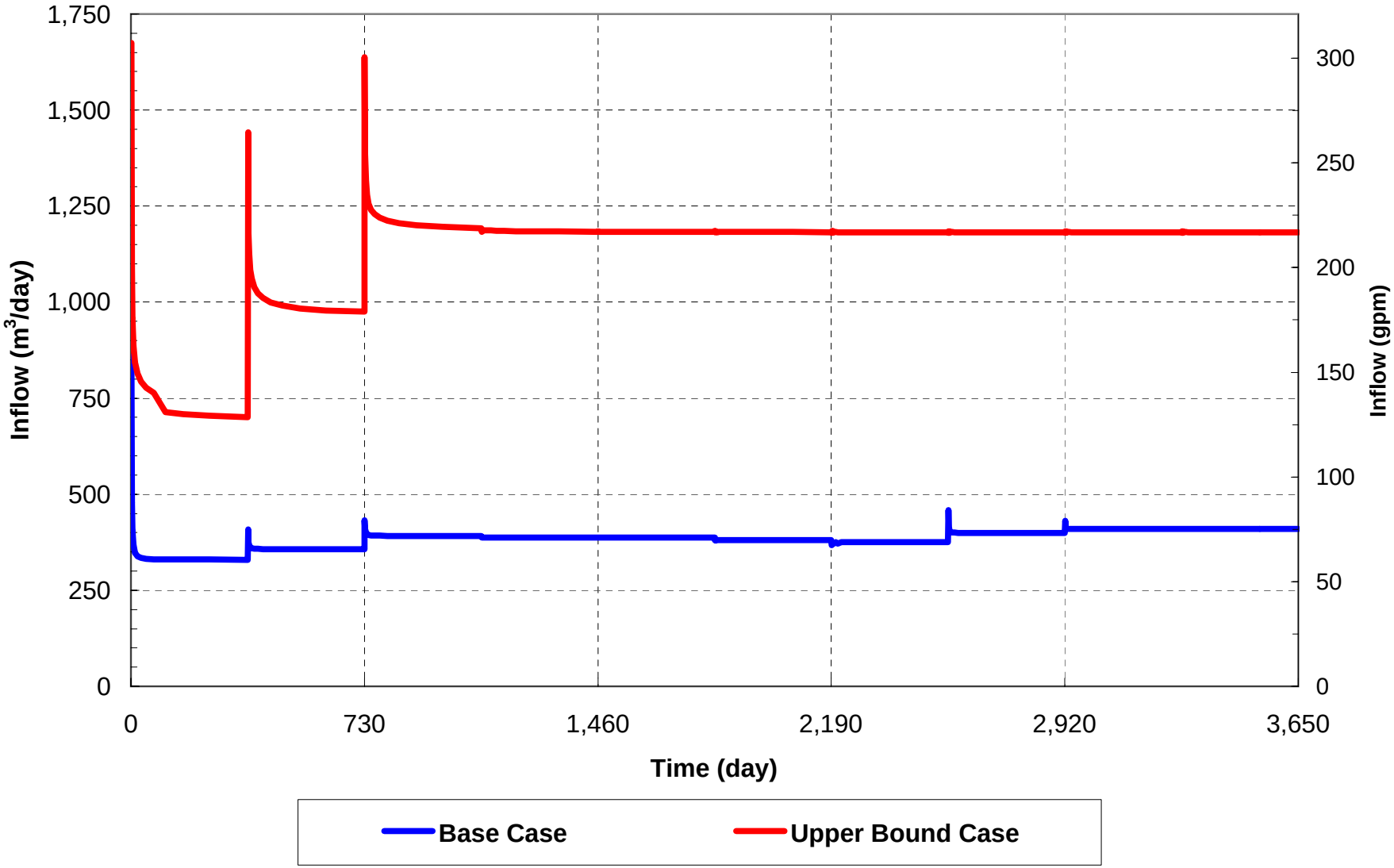
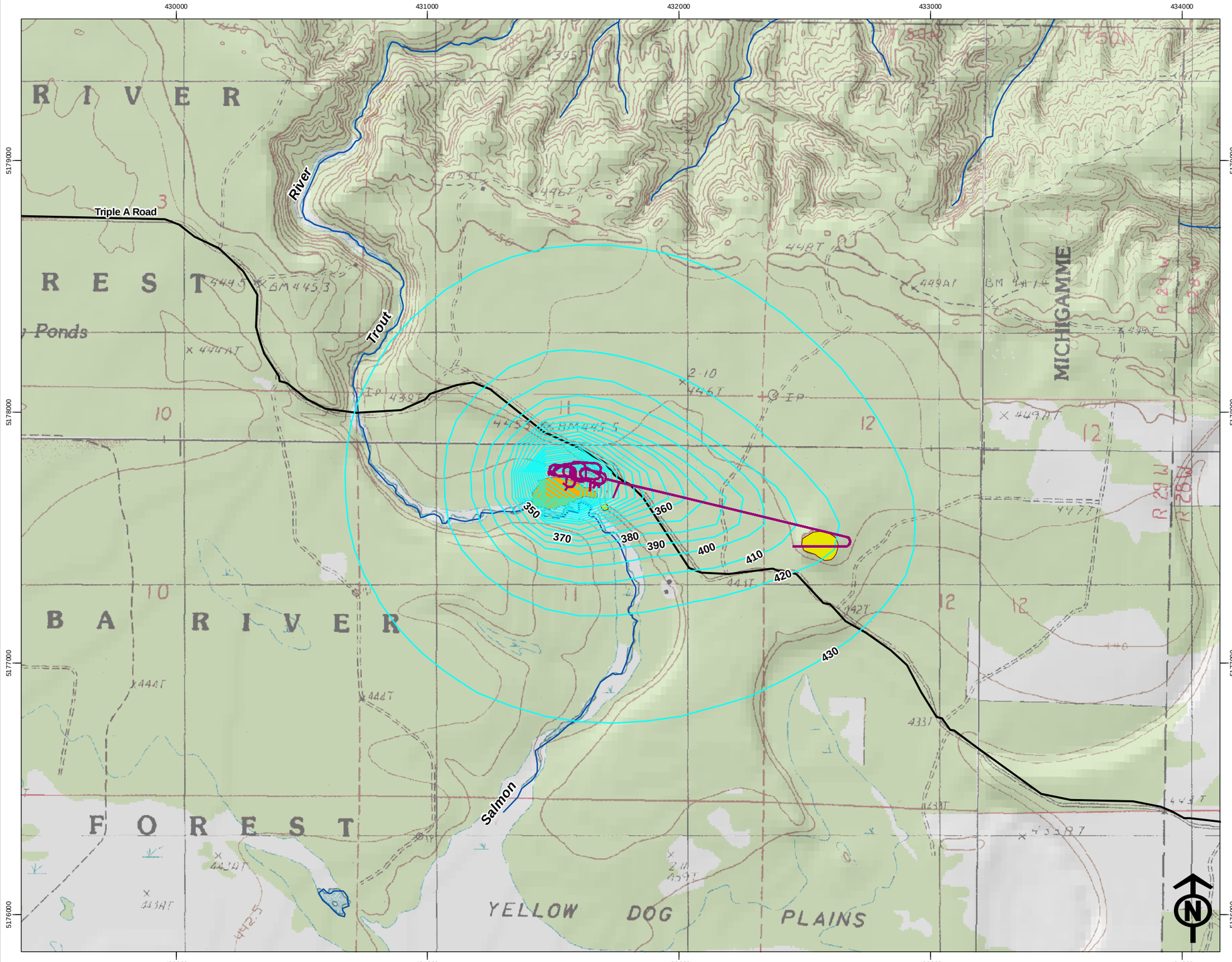


Figure 44: Mine Inflow Rate Time Series
Modified from Golder 2006b.

MINE INFLOW PREDICTED BEDROCK POTENTIOMETRIC SURFACE - BASE CASE



- ORE BODY
- OUTCROP
- ROAD
- HYDROGRAPHY
- PROPOSED MINE WORKINGS
- HYDRAULIC HEAD CONTOUR (m)

10 m CONTOUR INTERVAL

Reference

Data provided by: Kennecott Eagle Minerals,
North Jackson Company
Projection & Datum: UTM NAD 83 Zone 16N

0 1,320 2,640 Feet

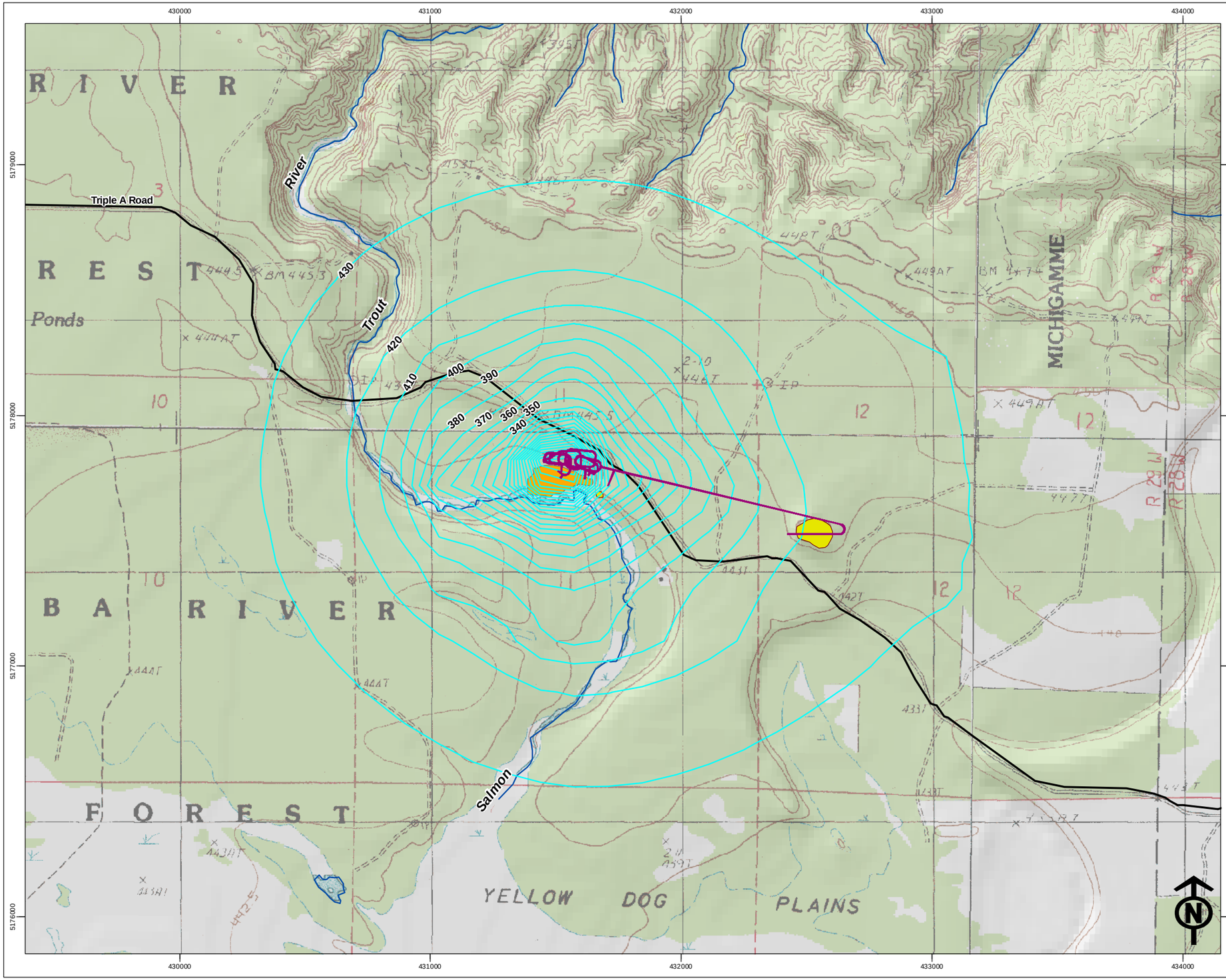
Scale: 1:15,840

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Figure: 45



MINE INFLOW PREDICTED BEDROCK POTENTIOMETRIC SURFACE - UPPER BOUND

- ORE BODY
- OUTCROP
- ROAD
- HYDROGRAPHY
- PROPOSED MINE WORKINGS
- HYDRAULIC HEAD CONTOUR (m)

10 m CONTOUR INTERVAL

Reference

Data provided by: Kennecott Eagle Minerals,
North Jackson Company
Projection & Datum: UTM NAD 83 Zone 16N

0 1,320 2,640 Feet

Scale: 1:15,840

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Figure: 46

Figure 47
Simulated Head Versus Time in QAL023B - Base Case
Eagle Project

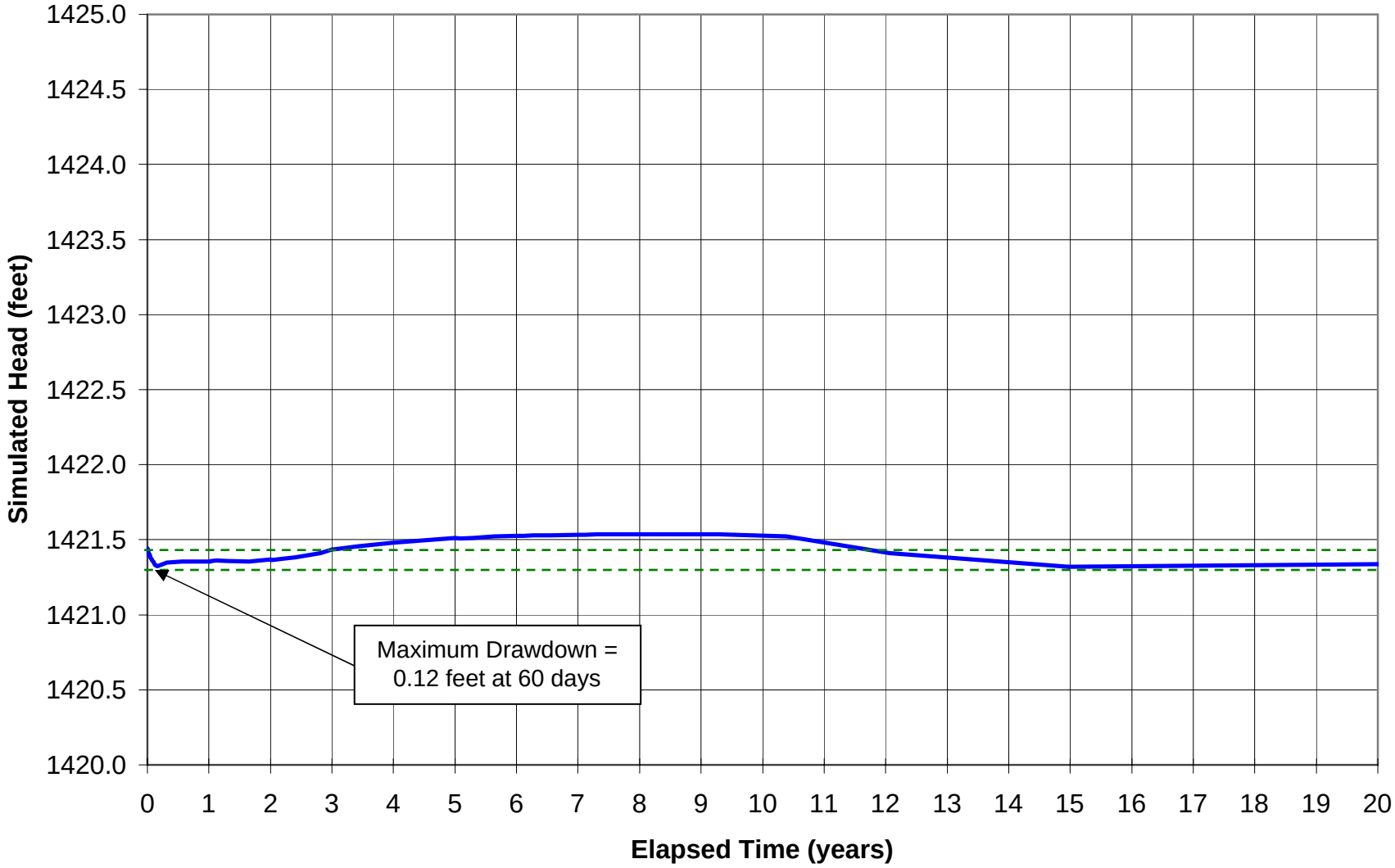
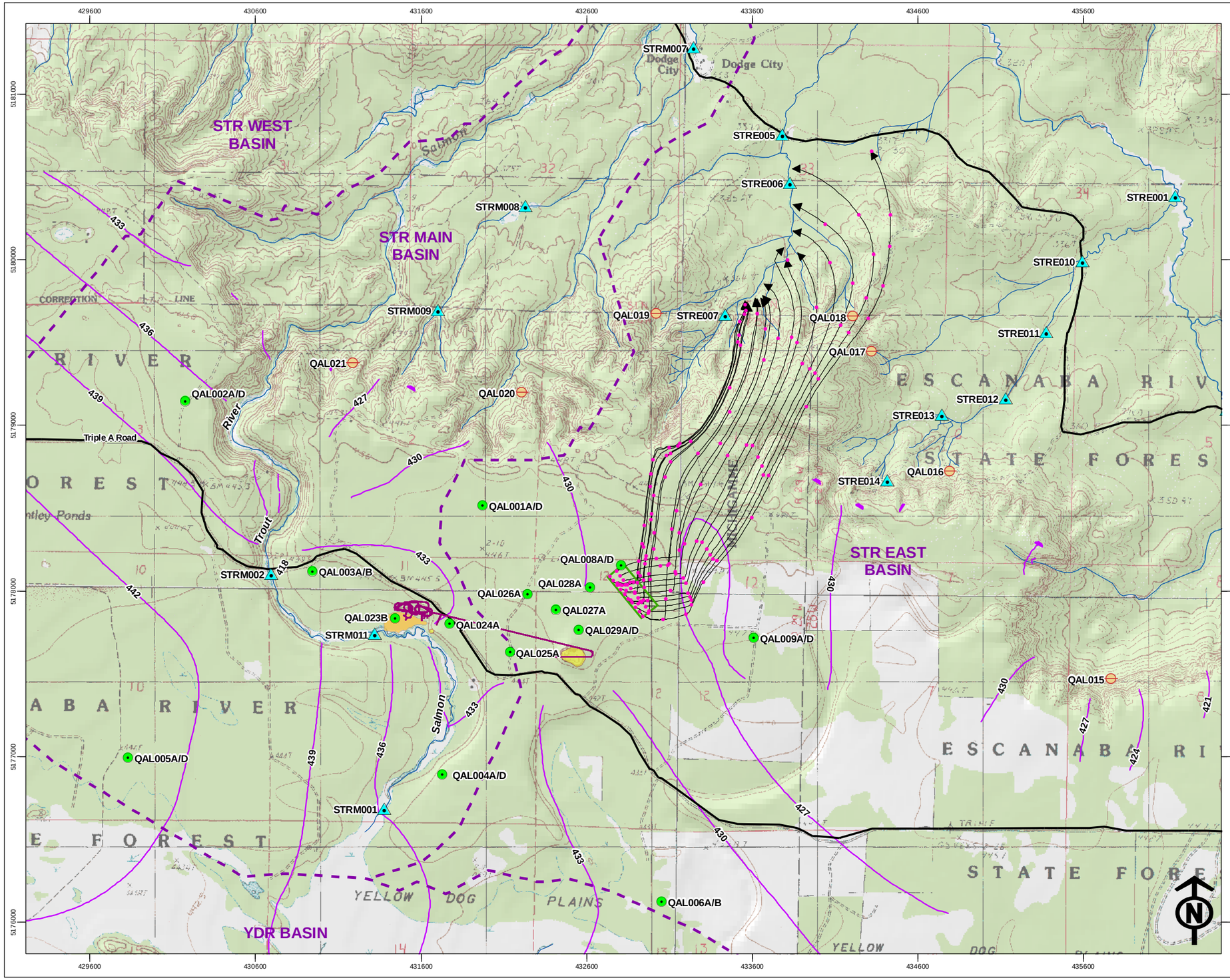


Figure 47: QAL023B Head vs Time - Base
Modified from FDA 2006.

SIMULATED A ZONE HYDROSTRATIGRAPHIC UNIT POTENTIOMETRIC SURFACE END OF MINING CONDITIONS - BASE CASE



- ORE BODY
- OUTCROP
- HYDROGRAPHY
- ROAD
- PROPOSED DISCHARGE AREA
- MONITORING WELL
- SEEP PIEZOMETER
- SURFACE WATER MONITORING
- TIME MARKER (1 YEAR FLOW INTERVAL)
- GROUNDWATER PARTICLE TRACK
- GROUNDWATER BASIN DIVIDE
- GROUNDWATER EQUIPOTENTIAL
- PROPOSED MINE WORKINGS

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Figure: 48

Figure 49
Hydraulic Components of Average Mine Inflow - Base Case
Eagle Project

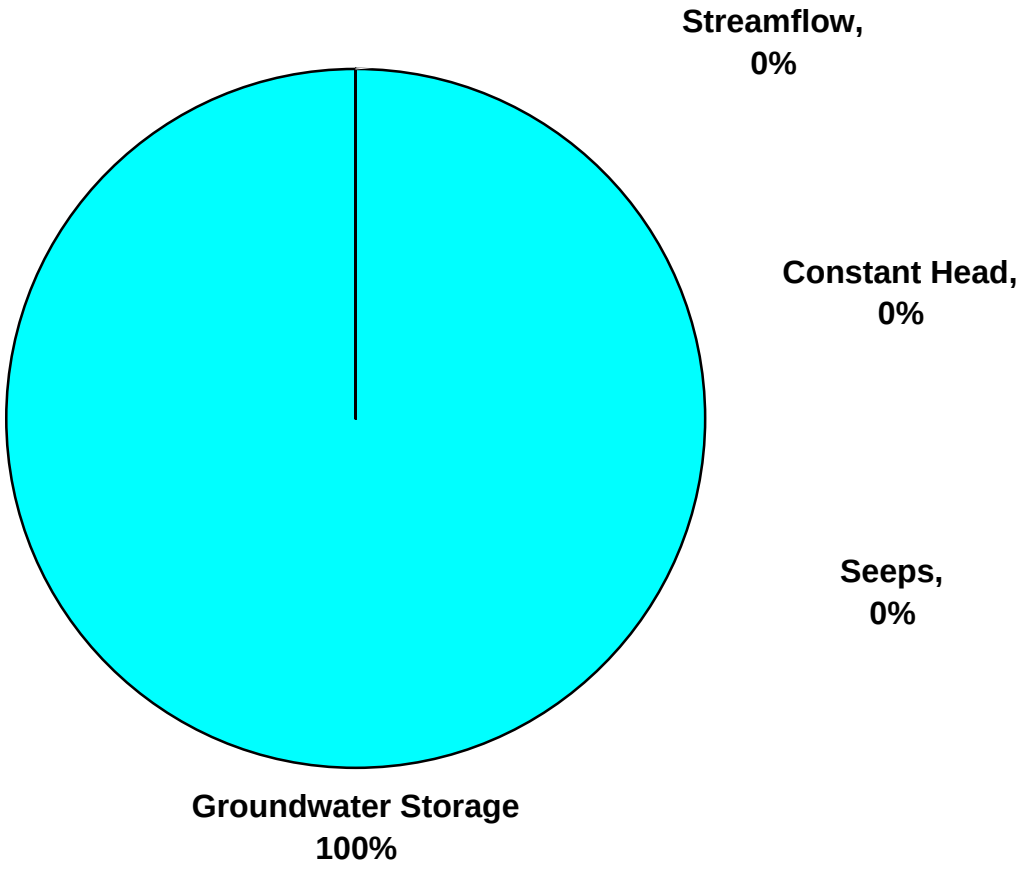


Figure 49: Components of Inflow Base Case
Modified from FDA 2006.

Figure 50
Simulated Head Versus Time in QAL023B - Upper Bound
Eagle Project

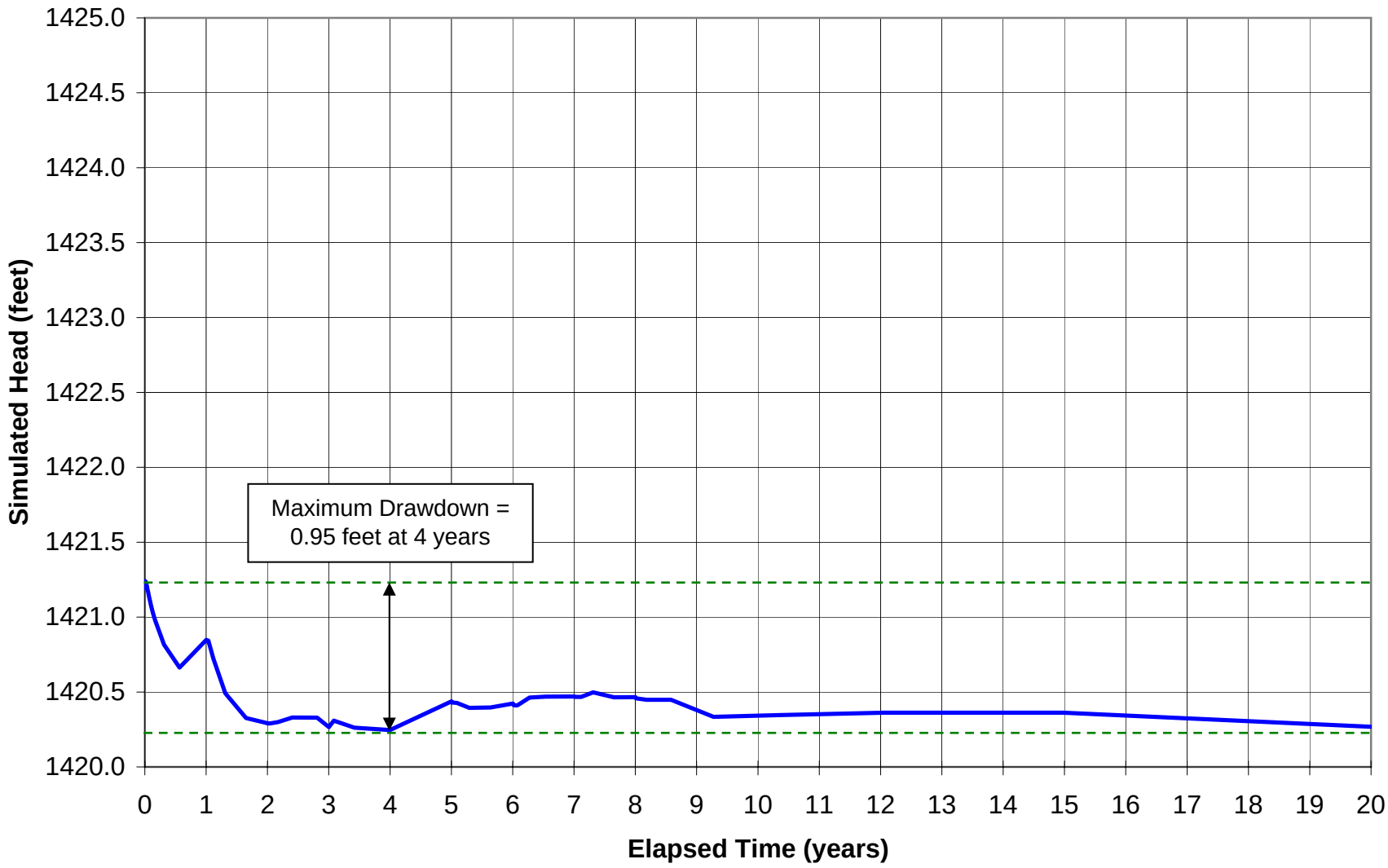
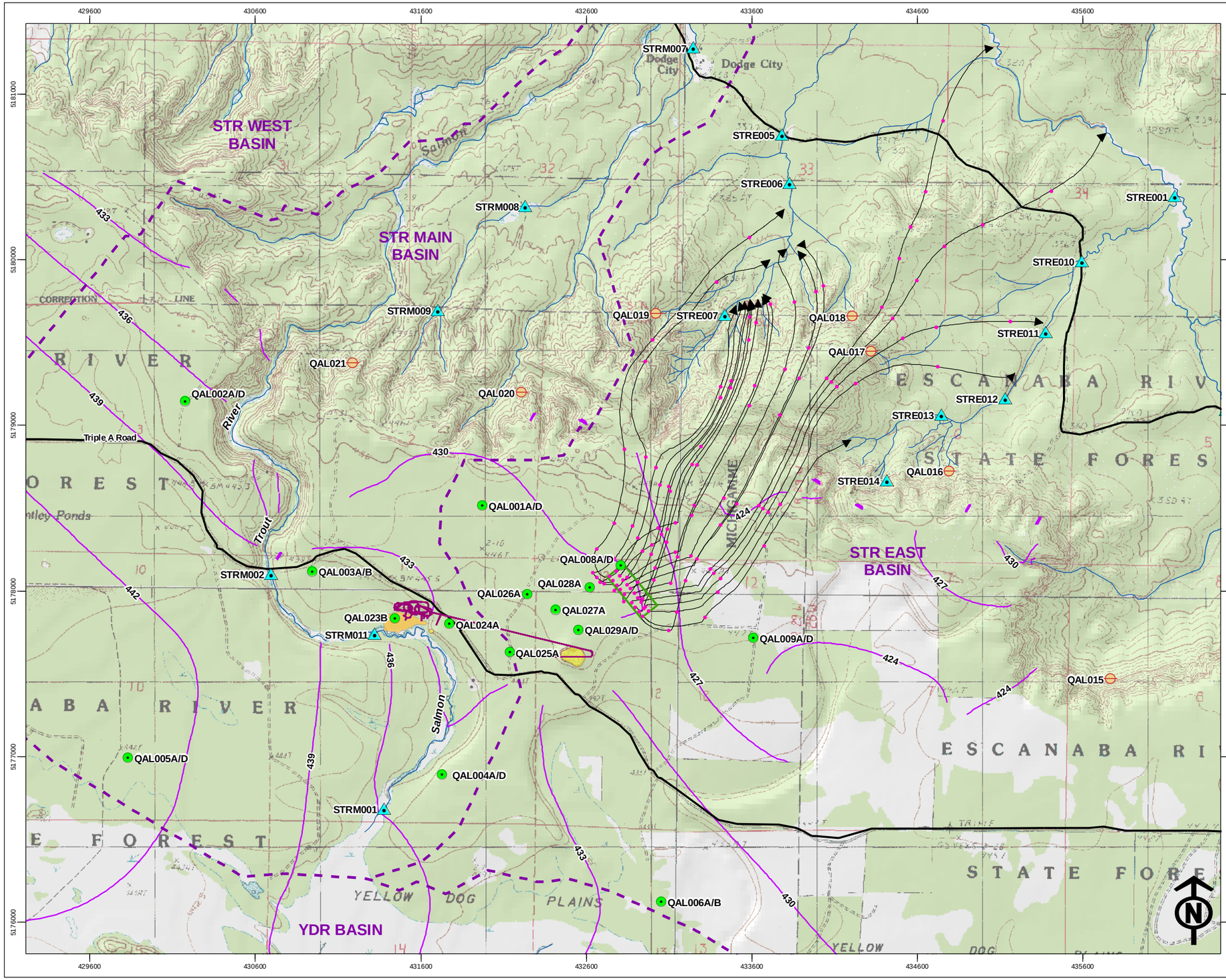


Figure 50: QAL023B Head vs Time - Upper
Modified from FDA 2006.

SIMULATED A ZONE HYDROSTRATIGRAPHIC UNIT POTENTIOMETRIC SURFACE END OF MINING CONDITIONS - UPPER BOUND



- ORE BODY
- OUTCROP
- HYDROGRAPHY
- ROAD
- PROPOSED DISCHARGE AREA
- MONITORING WELL
- SEEP PIEZOMETER
- SURFACE WATER MONITORING
- TIME MARKER (1 YEAR FLOW INTERVAL)
- GROUNDWATER PARTICLE TRACK
- GROUNDWATER BASIN DIVIDE
- GROUNDWATER EQUIPOTENTIAL
- PROPOSED MINE WORKINGS

Reference

Data provided by: Kennecott Eagle Minerals, North Jackson Company
Projection & Datum: UTM NAD 83 Zone 16N

0 2,000 4,000 Feet

Scale: 1:24,000

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Kennecott Eagle Minerals

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Figure: 51

Figure 52
Hydraulic Components of Average Mine Inflow - Upper Bound Case
Eagle Project

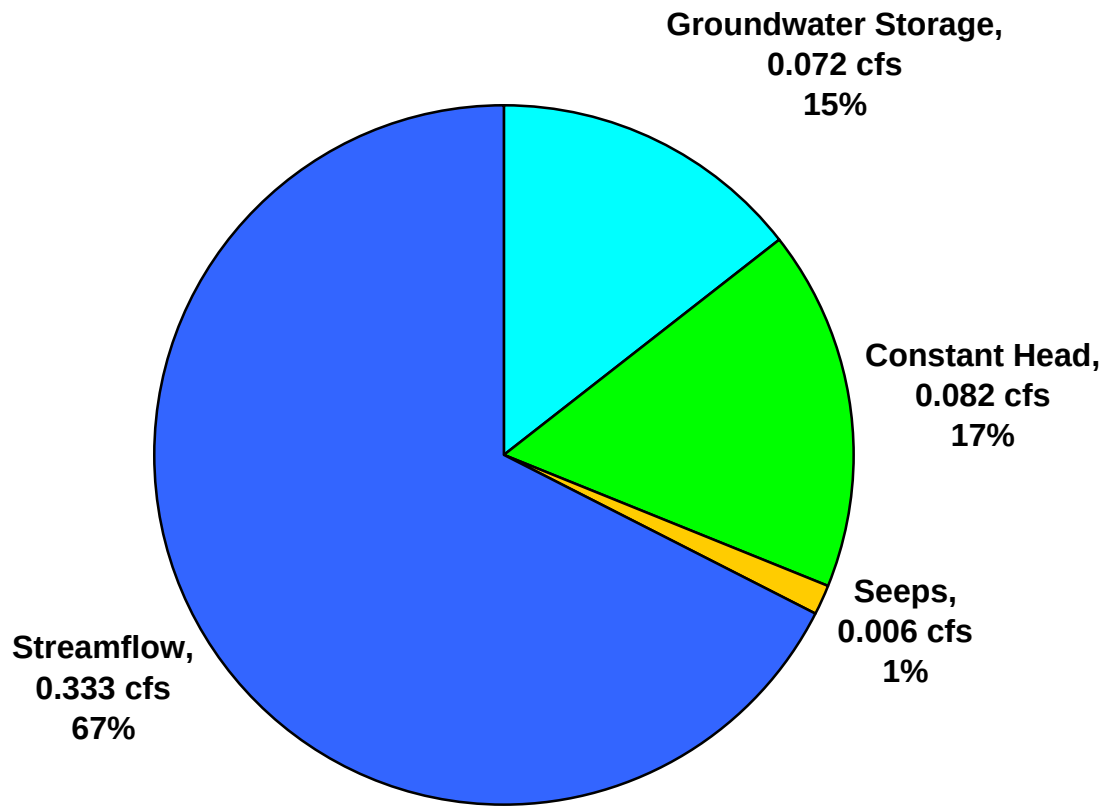
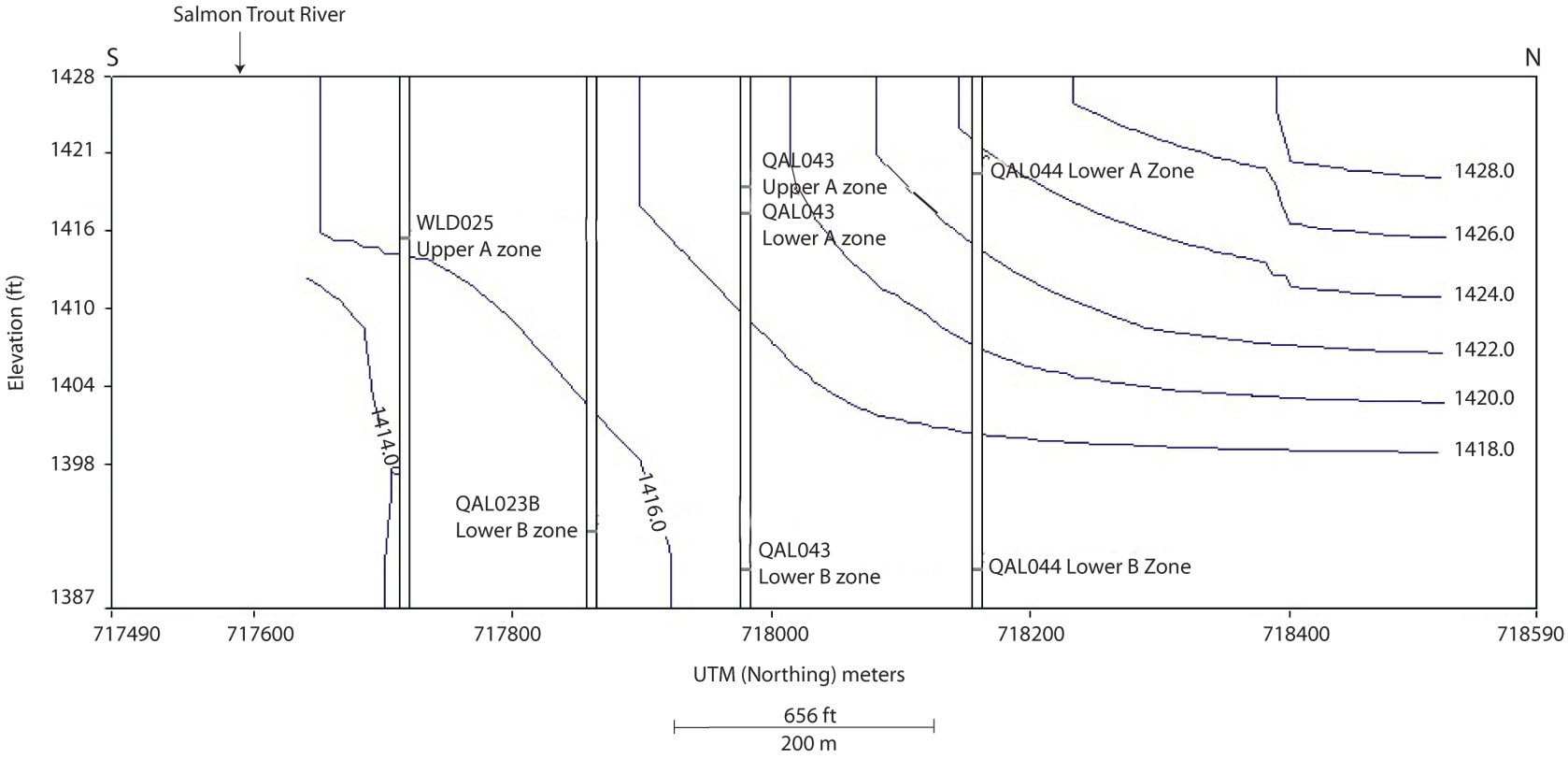


Figure 52: Components Inflow-Upper Bnd
Modified from FDA 2006.



WETLAND POTENTIOMETRIC SURFACE SLICE MODEL

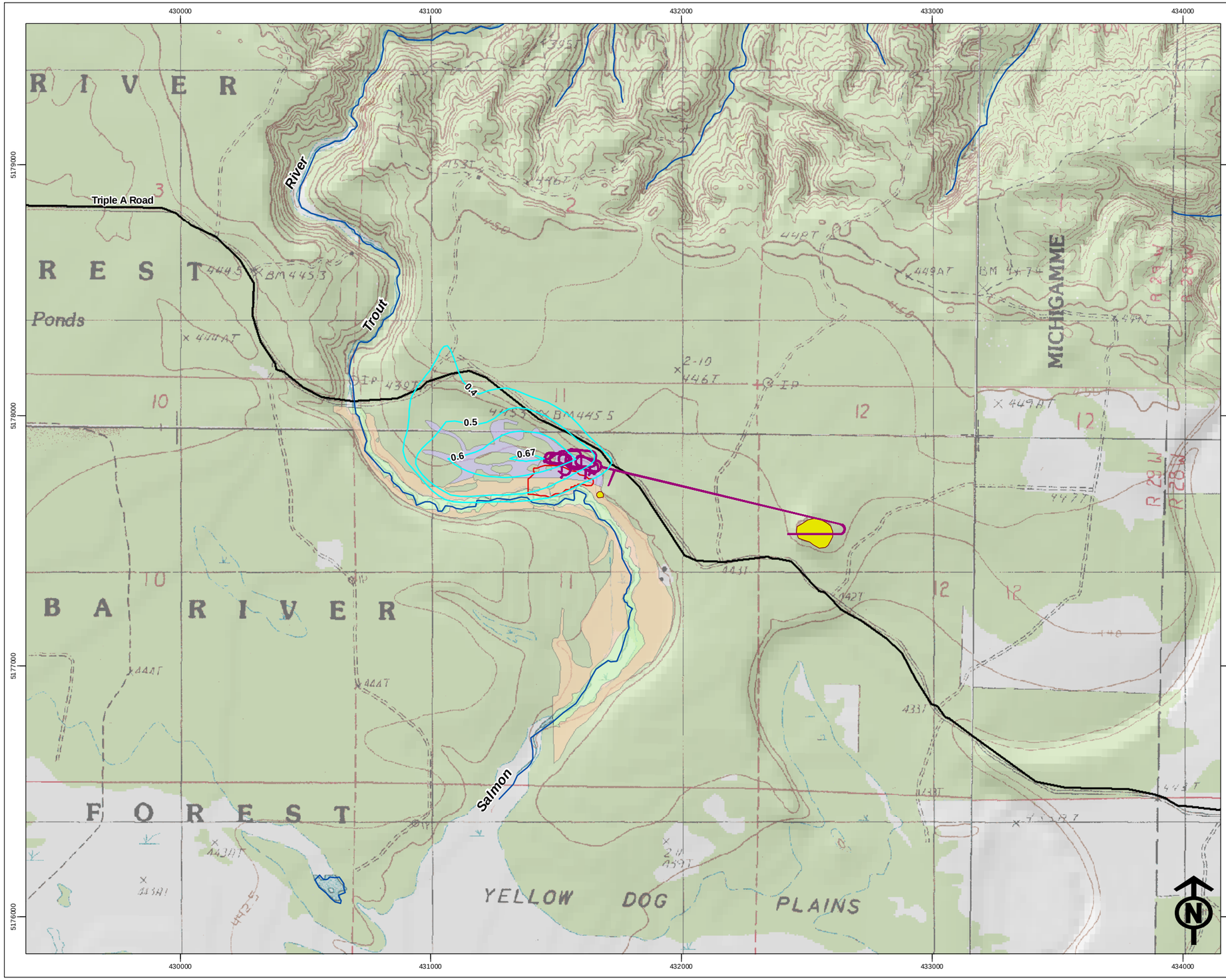
Reference: Figure source FDA 2006

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Figure: 53



SIMULATED A ZONE DRAWDOWN in WETLANDS over ORE BODY - UPPER BOUND

- ORE BODY
- OUTCROP
- ROAD
- PROPOSED MINE WORKINGS
- HYDROGRAPHY

PRIMARY SUPPORT OF WETLAND:

- SURFACE WATER STREAM
- GROUNDWATER
- PRECIPITATION
- A ZONE DRAWDOWN CONTOUR (ft)

Reference

Data provided by: Kennecott Eagle Minerals,
North Jackson Company
Projection & Datum: UTM NAD 83 Zone 16N

0 1,320 2,640 Feet

Scale: 1:15,840

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Figure: 54

Figure 55
Time Series Simulated Streamflow Changes - Upper Bound Case
Eagle Project

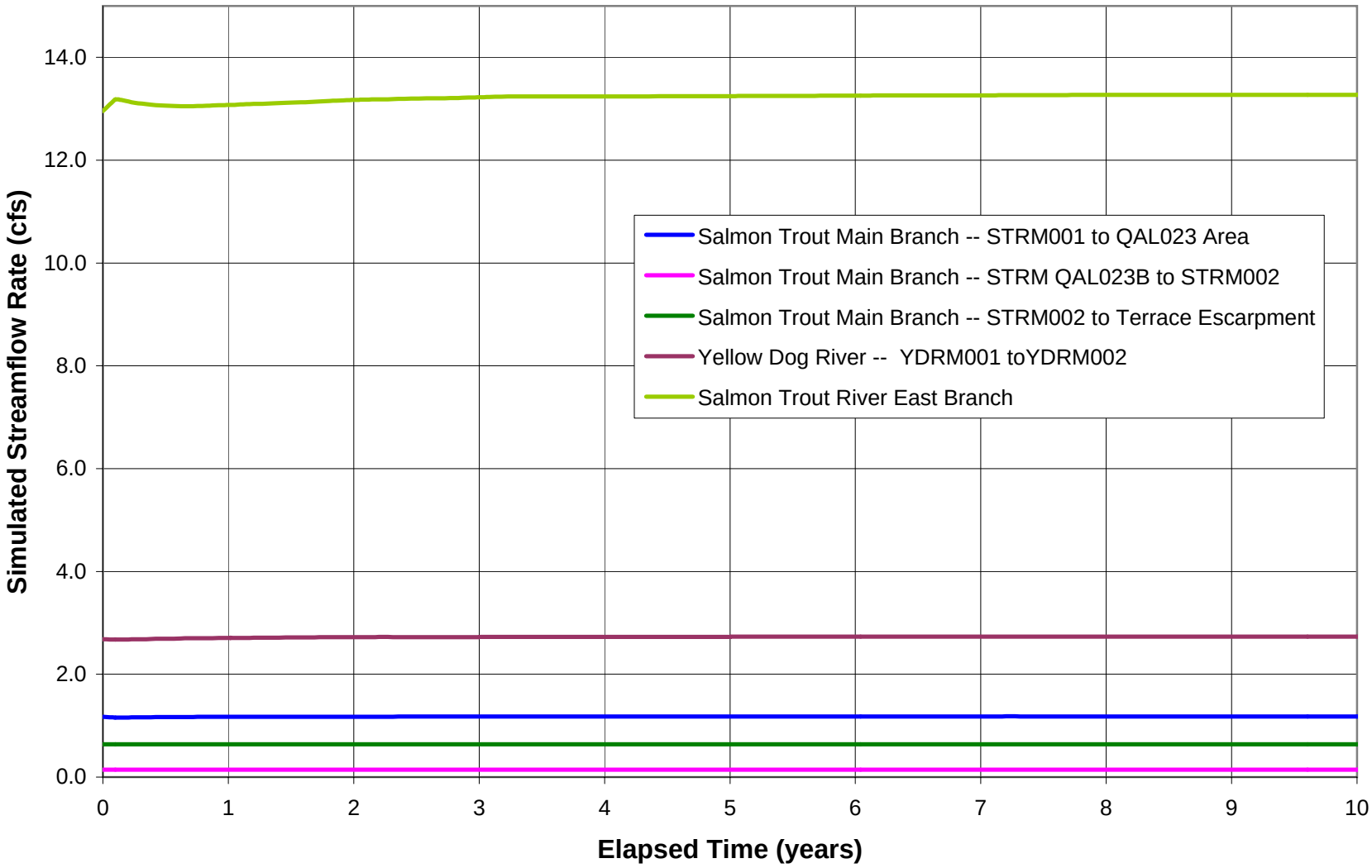


Figure 55: Fig. 11_Over 1% Change
Modified from FDA 2006.