



March 13, 2009

Mr. Leo Francendese
On-Scene Coordinator
U.S. Environmental Protection Agency
61 Forsyth Street, SW 11th Floor
Atlanta, Georgia 30303

**Subject: Surface Water Sampling Letter Report
Barite Hills Nevada Goldfields Site
McCormick, McCormick County, South Carolina
Contract No. EP-W-05-053
Technical Direction Document (TDD) No.: TNA-05-003-0049**

Dear Mr. Francendese:

T N & Associates, Inc. (TN&A), Superfund Technical Assessment and Response Team (START), prepared this Letter Report detailing activities performed in support of the Barite Hills Nevada Goldfields site (the site) investigation under Contract Number (No.) EP-W-05-053, Technical Direction Document (TDD) No. TNA-05-003-0049. All activities and procedures were performed in accordance with the EPA Science and Ecosystems Support Division (SESD) Region 4 Field Branches Quality System and Technical Procedures dated November 2007, and the EPA-approved site-specific Quality Assurance Project Plan (QAPP).

Under this work assignment, START was tasked with conducting water sampling of the Main Pit lake (the lake) and Hawes Creek tributary (the creek). Two samples were collected from the lake and five samples were collected near seep locations along the creek. Water quality parameters were measured simultaneously to water sampling. The site location map with sample locations and a map of the creek pH changes are provided in Attachment A. Water quality parameters from February 2009 and a comparative table of potentially applicable standards can be found in Attachment B with corresponding graphs. Laboratory analytical data is in Attachment C. The HASP can be found in Attachment D.

Site Background

The site is an abandoned pit mine located approximately 3 miles south of McCormick, McCormick County, South Carolina between US Highway (Hwy) 378 and US Hwy 221

on the northern side of Road 30. The site is located in a relatively remote area; there are no buildings, homes, or commercial buildings within 0.5 mile of the site boundary. The site is located along a topographic high ridge area forming the headwaters of the creek. The topography of the area consists of rolling hills with ridgelines at an elevation of about 500 feet above mean sea level (amsl). Within the site, the ridgeline comprising the site has a high point of about 510 feet amsl and an average elevation of approximately 480 feet amsl.

The Main Pit from the mining operations remains. When the mine was abandoned, the Main Pit flooded. The waste rock stockpiles previously surrounding the eastern and southeastern portions of the Main Pit were a source of acid rock drainage. The pit contains approximately 60 million gallons of water with an historical pH of 2 and a high dissolved metal content.

Field Investigation Activities

On 02/26/09, START conducted surface water sampling. The investigation consisted of measuring water quality and collecting water samples from the lake. A Health and Safety Plan (HASP) was developed for the site prior to fieldwork activities.

START collected two samples from the lake and five samples from the creek (Figure 1). Water quality parameters were measured at each sample location (Table 1). The lake water column was measured every meter from the surface to the bottom. BHR-MPS-010 was collected one meter below the lake water surface and BHR-MPB-010 was collected one meter from the bottom of the lake using a Bacon Bomb. BHR-S1-010, BHR-S2-010, and BHR-S3-010 were collected from pooled water along the creek at Seep 1, Seep 2, and Seep 3, respectively. BHR-S0-010 was collected adjacent the spillway along the creek. BHR-MC-010 was collected from a tributary of McCormick Creek that drains into the creek. Lake samples were analyzed by Analytical Environmental Services, Inc. (AES) for dissolved target analyte list (TAL) metals, total TAL metals, total organic carbon, pH, sulfate, and ferric/ferrous speciation. Creek samples were analyzed for pH, sulfate, and dissolved TAL metals. Aliquots sampled for dissolved TAL metals were filtered on-site using a 0.45 micron filter. Laboratory analytical reports are provided in Attachment C.

Conclusions

Table 2 and 3 are analytical comparisons of the lake surface and lake bottom, respectively, from June 2008 through February 2009 of potentially applicable standards including priority and non-priority pollutants. Dissolved lead analytical results may be cross contaminated due to high winds and high amounts of dust at time of sampling. Graph 1 illustrates the lake surface dissolved metal concentrations overtime. Graph 2 is a close up of Graph 1 detailing lower concentrations. Table 4 is an analytical comparison of Seep 1, Seep 2, and Seep 3 overtime. Graphs 3, 4, and 5 illustrate Seep 1, Seep 2, and Seep 3, respectively, concentrations overtime. Graph 6 compares seep concentrations for

February 2009. Graph 7 is a close up of Graph 6 detailing lower concentrations. Tables and graphs can be found in Attachment B.

If you have any questions or comments regarding this Letter Report or require any additional information, please contact me at (678) 355-5550 ext. 5710 or contact Russell Henderson, Project Manager, at ext. 5707.

Sincerely,

A handwritten signature in black ink, appearing to read "Dannena Bowman". The signature is fluid and cursive, with a large loop at the end.

Dannena Bowman

Junior Geologist

T N & Associates, Inc.

Superfund Technical Assessment and Response Team (START)

Enclosures

Attachment A – Figures

Attachment B – Tables & Graphs

Attachment C – Analytical Data

Attachment D – HASP

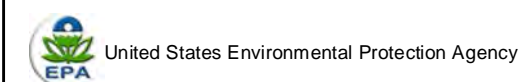
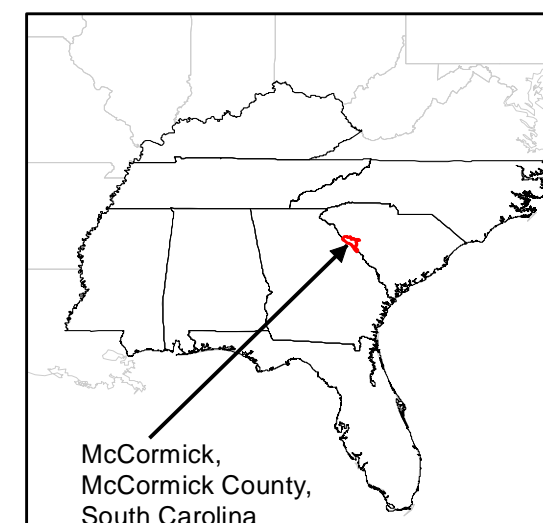
ATTACHEMENT A
FIGURES



Legend

- Sample Locations
- Hawes Creek

0 60 120 240
Feet



BARITE HILLS
MCCORMICK, MCCORMICK
COUNTY, SOUTH CAROLINA
TDD No. TNA-05-003-0049

FIGURE 1
SAMPLE LOCATIONS

TNTN & Associates, Inc.
EPA Region 4 START
in association with Shaw E&I and Aerostar

ATTACHMENT B
TABLES & GRAPHS

Table 1
Water Quality Parameters

Nov. 19/21, 2008 YSI 5200

Main Pit Lake

| Depth (m) | pH | ORP (mV) | DO (mg/L) | Temp (°C) | Conductivity (mS/cm) |
|-----------|------|----------|-----------|-----------|----------------------|
| 1 | 4.38 | 43.8 | 4.74 | 13.41 | 3.327 |
| 2 | 4.6 | -74.5 | 0.9 | 14.83 | 3.607 |
| 3 | 4.73 | -88.3 | 0.63 | 14.88 | 3.575 |
| 4 | 4.81 | -94.2 | 0.6 | 14.87 | 3.559 |
| 5 | 4.76 | -96.5 | 0.47 | 14.87 | 3.537 |
| 6 | 4.81 | -99.4 | 0.43 | 14.87 | 3.534 |
| 7 | 4.82 | -100.1 | 0.4 | 14.87 | 3.529 |
| 8 | 4.82 | -102.8 | 0.38 | 14.81 | 3.527 |
| 9 | 4.72 | -136.9 | 0.39 | 16.12 | 3.818 |
| 10 | 4.65 | -154.9 | 0.3 | 16.71 | 4.009 |
| 11 | 4.8 | -197 | 0.43 | 16.69 | 3.774 |
| 12 | 5.26 | -196.8 | 0.4 | 16.66 | 3.684 |

Creeks

| Location | pH | ORP (mV) | DO (mg/L) | Temp (°C) | Conductivity (mS/cm) |
|----------|------|----------|-----------|-----------|----------------------|
| 1 | | | | | |
| 2 | 3.05 | 452 | 3.1 | 7.91 | 3.568 |
| 3 SE | 6.54 | 232 | 4.17 | 9.24 | 0.429 |
| 3 SW | | | | | |

Dec. 16, 2008 YSI 5200

Main Pit Lake

| Depth (m) | pH | ORP (mV) | DO (mg/L) | Temp (°C) | Conductivity (mS/cm) |
|-----------|------|----------|-----------|-----------|----------------------|
| 1 | 4.9 | -42 | 1.5 | 11.59 | 3.258 |
| 2 | 4.95 | -60 | 1.86 | 11.67 | 3.277 |
| 3 | 4.98 | -64 | 2.39 | 11.66 | 3.278 |
| 4 | 5.02 | -66 | 0.86 | 11.63 | 3.276 |
| 5 | 5.04 | -70 | 0.71 | 11.62 | 3.276 |
| 6 | 5.07 | -71 | 0.67 | 11.63 | 3.279 |
| 7 | 5.07 | -71 | 0.63 | 11.64 | 3.28 |
| 8 | 5.08 | -72 | 0.61 | 11.64 | 3.28 |
| 9 | 5.08 | -72 | 0.6 | 11.63 | 3.28 |
| 10 | 5.1 | -73 | 0.58 | 11.63 | 3.28 |
| 11 | 5.1 | -73 | 0.57 | 11.63 | 3.28 |
| 12 | 5.1 | -73 | 0.56 | 11.63 | 3.28 |
| 13 | 5.08 | -94 | 0.54 | 11.66 | 3.285 |
| 14 | 5.8 | -102 | 0.39 | 11.86 | 2.732 |
| 15 | 5.82 | -113 | 0.41 | 11.85 | 2.721 |

Table 1
Water Quality Parameters

Feb. 7, 2009

Horbia U-22XD
Main Pit Lake

| Depth (m) | pH | ORP (mV) | DO (g/L) | Temp (°C) | Conductivity (mS/cm) |
|-----------|------|----------|----------|-----------|----------------------|
| 1 | 5.27 | -6 | 1.79 | 9.7 | 6.44 |
| 2 | 5.27 | -8 | 1.27 | 9.3 | 7.12 |
| 3 | 5.26 | -9 | 0.79 | 9 | 6.02 |
| 4 | 5.27 | -8 | 0.76 | 9 | 5.82 |
| 5 | 5.27 | -10 | 0.7 | 8.9 | 6.09 |
| 6 | 5.27 | -8 | 0.67 | 8.9 | 8.09 |
| 7 | 5.27 | -35 | 0.58 | 8.9 | 9.3 |
| 8 | 5.27 | -40 | 0.54 | 8.9 | 6.64 |
| 9 | 5.27 | -40 | 0.55 | 9 | 8.12 |
| 10 | 5.27 | -40 | 0.54 | 9 | 9.49 |
| 11 | 5.27 | -10 | 0.74 | 8.9 | 6.9 |
| 12 | 5.98 | -146 | 0 | 10 | 3.88 |
| 13 | 6.08 | -160 | 0 | 10 | 2.56 |
| 14 | 6.09 | -165 | 0 | 10 | 2.26 |
| 15 | 6.1 | -185 | 0 | 10.4 | 1.7 |

Jan. 30, 2009

Creeks

| Location | pH | ORP (mV) | DO (mg/L) | Temp (°C) | Conductivity (mS/cm) |
|----------|------|----------|-----------|-----------|----------------------|
| 1 | 2.6 | | | 8.2 | |
| 2 | 2.68 | | | 8.4 | |
| 3 SE | 5.17 | | | 9.3 | |
| 3 SW | 3.65 | | | 10.2 | |

Feb. 26, 2009

Horbia U-22XD
Main Pit Lake

| Depth (m) | pH | ORP (mV) | DO (g/L) | Temp (°C) | Conductivity (S/cm) |
|-----------|------|----------|----------|-----------|---------------------|
| 1 | 4.76 | 106 | 6.97 | 11.5 | 0.828 |
| 2 | 4.85 | 101 | 5.39 | 9.5 | 0.825 |
| 3 | 5.31 | 29 | 1.48 | 9.6 | 0.982 |
| 4 | 5.38 | 16 | 0.15 | 9.3 | 0.888 |
| 5 | 5.39 | 15 | 0 | 9.3 | 0.864 |
| 6 | 5.4 | 13 | 0 | 9.3 | 0.888 |
| 7 | 5.4 | 14 | 0 | 9.3 | 0.989 |
| 8 | 5.41 | 12 | 0 | 9.3 | 0.987 |
| 9 | 5.41 | 11 | 0 | 9.3 | 1.45 |
| 10 | 5.83 | -59 | 0 | 9.5 | 1.24 |
| 11 | 5.93 | -79 | 0 | 9.7 | 1.16 |
| 12 | 5.96 | -91 | 0 | 9.7 | 1.08 |
| 13 | 5.98 | -98 | 0 | 9.8 | 1.04 |
| 14 | 5.99 | -105 | 0 | 9.8 | 1 |
| 15 | 6 | -107 | 0 | 9.8 | 0.96 |
| 15.5 | 6.17 | -192 | 0 | 10.1 | 0.555 |

Table 1
Water Quality Parameters

SE Corner of Lake

| Depth (m) | pH | ORP (mV) | DO (g/L) | Temp (°C) | Conductivity (S/cm) |
|-----------|------|----------|----------|-----------|---------------------|
| 1 | 4.9 | 97 | 6.63 | 10.5 | 0.452 |
| 2 | 4.9 | 106 | 5.79 | 9.5 | 0.436 |
| 3 | 5.38 | 32 | 2.52 | 9.6 | 0.595 |
| 4 | 5.45 | 24 | 0.29 | 9.3 | 0.712 |
| 5 | 5.45 | 22 | 0 | 9.3 | 0.698 |
| 6 | 5.45 | 19 | 0 | 9.3 | 0.725 |
| 7 | 5.46 | 16 | 0 | 9.3 | 0.73 |
| 8 | 5.45 | 15 | 0 | 9.3 | 0.728 |
| 9 | 5.45 | 16 | 0 | 9.3 | 0.717 |
| 10 | 5.8 | -35 | 0 | 9.5 | 0.709 |
| 11 | 5.97 | -69 | 0 | 9.7 | 0.69 |

SW Corner of Lake

| Depth (m) | pH | ORP (mV) | DO (g/L) | Temp (°C) | Conductivity (S/cm) |
|-----------|------|----------|----------|-----------|---------------------|
| 1 | 4.88 | 105 | 6.92 | 10.4 | 0.425 |
| 2 | 4.9 | 108 | 5.86 | 9.5 | 0.424 |
| 3 | 5.43 | 35 | 2.14 | 9.4 | 0.518 |
| 4 | 5.45 | 31 | 0.71 | 9.3 | 0.6 |
| 5 | 5.46 | 29 | 0.26 | 9.3 | 0.616 |
| 6 | 5.46 | 27 | 0 | 9.3 | 0.628 |
| 7 | 5.47 | 26 | 0 | 9.3 | 0.655 |
| 8 | 5.46 | 26 | 0 | 9.2 | 0.652 |
| 9 | 5.85 | -24 | 0 | 9.5 | 0.69 |
| 10 | 5.9 | -43 | 0 | 9.6 | 0.693 |

Creeks

| Location | pH | ORP (mV) | DO (mg/L) | Temp (°C) | Conductivity (S/cm) |
|----------|------|----------|-----------|-----------|---------------------|
| 0 | 3.96 | 305 | 10.82 | 12.2 | 83.3 |
| MC | 6.32 | 45 | 9.74 | 12.9 | 18.5 |
| 1 | 2.93 | 386 | 6.98 | 12.4 | 0.287 |
| 2 | 3.09 | 383 | 7.91 | 14.5 | 0.23 |
| 3 | 3.77 | 368 | 7.15 | 14 | 64.9 |

Table 2
Pit Lake Surface Potentially Applicable Standards Comparison

| | Human Health | SCDHEC WQC under R61-68 | | Oct. 2007 | May 2, 2008 | Jun. 10, 2008 | Jul. 30, 2008 | Aug. 22, 2008 | Nov. 6, 2008 | Nov. 19, 2008 | Dec. 16, 2008 | Jan. 30, 2009 | Feb. 26, 2009 |
|---|--------------|-------------------------|--------|----------------------------|---------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| | MCL | CMC | CCC | BHB-005 | BHT-001 | BHR-5-001 | BRR-JR-LAKE | | BHR-MP05-110608 | BHR-MPS-001 | BHR-MPS-006 | BHR-MPS-006 | BHR-MPS-010 |
| | | | | Pit Water Untreated (mg/L) | Pit water treated (Total, mg/L) | Pit water treated (Dissolved, mg/L) | Pit water treated (Dissolved, mg/L) | Pit water treated (Dissolved, mg/L) | Pit water treated (Dissolved, mg/L) | Pit water treated (Dissolved, mg/L) | Pit water treated (Dissolved, mg/L) | Pit water treated (Dissolved, mg/L) | Pit water treated (Dissolved, mg/L) |
| Potentially Applicable Standards (priority pollutants) | | | | | | | | | | | | | |
| Antimony | 0.006 | NSA | NSA | 0.02 | NA | 0.006 | 0.2 | 0.2 | BRL* | 0.257 | BRL* | BRL* | BRL* |
| Arsenic | 0.01 | 0.34 | 0.15 | 0.968 | NA | BRL† | BRL† | BRL† | BRL† | BRL‡ | BRL‡ | BRL‡ | BRL‡ |
| Cadmium | 0.005 | 0.008 | 0.0026 | 1.57 | NA | BRL# | BRL# | BRL# | BRL# | BRL# | BRL# | BRL# | BRL# |
| Chromium | 0.1 | 0.57 | 0.074 | 0.141 | NA | BRL† | BRL† | BRL† | BRL† | BRL† | BRL† | BRL† | BRL† |
| Copper | 1 | 0.057 | 0.039 | 287 | NA | BRL† | BRL† | BRL† | BRL† | BRL† | 0.0278 | 0.0293 | BRL† |
| Lead | 0.015 | 0.32 | 0.005 | 0.161 | NA | BRL† | BRL† | BRL† | 0.0381 | 0.0353 | BRL† | BRL† | 0.0427 |
| Nickel | 0.61 | 1.071 | 0.167 | 0.404 | NA | 0.163 | BRL* | BRL* | BRL* | BRL* | BRL* | BRL* | BRL* |
| Selenium | 0.05 | NSA | 0.005 | 0.23 | NA | 0.022 | 0.028 | 0.01 | BRL* | BRL* | BRL* | BRL* | BRL* |
| Zinc | 5 | 0.339 | 0.339 | 40.2 | NA | 1.44 | BRL* | BRL* | 0.132 | 0.118 | 0.061 | 0.0628 | 0.0685 |
| Potentially Applicable Standards (non-priority pollutants) | | | | | | | | | | | | | |
| Aluminum | 0.2 | 0.75 | 0.087 | 224 | NA | 0.347 | BRL§ | BRL§ | 0.342 | 0.257 | 0.314 | BRL§ | BRL§ |
| Iron | 0.3 | | 1 | 1150 | 121 | 309 | 322 | 287 | 148 | 169 | 212 | 165 | 186 |
| Manganese | 0.05-0.1 | | | 13.6 | NA | 10.6 | 11 | 11.7 | 8.96 | 9.33 | 11.2 | 10.2 | 10.7 |
| Ferrous Iron (mg/L) | | | | | | | | | | | | | |
| Iron, Ferric (+3) | 0.3 | NSA | 1 | NA | BRL° | NA | NA | NA | BRL° | 37.2 | BRL° | BRL° | 28.5 |
| Iron, Ferrous (+2) | 0.3 | NSA | 1 | NA | 145 | NA | NA | NA | 217 | 191 | 305 | 209 | 194 |

Notes:

- SCDHEC - South Carolina Department of Health and Environmental Control
- a - South Carolina Regulation 61-68, Water Classifications and Standards, adopted June 2004 and adjusted for water hardness of 400 mg/L.
- MCL - Maximum contaminant level
- CMC - Criterion maximum concentration
- CCC - Criterion continuous concentration
- mg/L - Milligrams per liter
- NSA - Standard not available
- BRL - Below reporting limit
- * - Reporting limit 0.02
- † - Reporting limit 0.01
- ‡ - Reporting limit 0.05
- # - Reporting limit 0.005
- § - Reporting limit 0.2
- ° - Reporting limit 0.1
- Yellow - Exceeds one criteria (Human Health Standard or SCDHEC WQC)
- Red - Exceeds all criteria (both Human Health Standard and SCDHEC WQC)

Table 3
Pit Lake Bottom Potentially Applicable Standards Comparison

| | Human Health | SCDHEC WQC under R61-68 | | Oct. 2007 | Dec. 16, 2008 | Feb. 26, 2009 |
|--|--------------|-------------------------|--------|-------------------------------|--|--|
| | MCL | CMC | CCC | BHB-005 | BHR-MPSB-008 | BHR-MPB-010 |
| Potentially Applicable Standards (priority pollutants) | | | | Pit Water Untreated (mg/L) | Pit water treated (Dissolved, mg/L) | Pit water treated (Dissolved, mg/L) |
| Antimony | 0.006 | NSA | NSA | 0.02 | BRL* | BRL* |
| Arsenic | 0.01 | 0.34 | 0.15 | 0.968 | BRL‡ | BRL‡ |
| Cadmium | 0.005 | 0.008 | 0.0026 | 1.57 | BRL# | BRL# |
| Chromium | 0.1 | 0.57 | 0.074 | 0.141 | BRL† | BRL† |
| Copper | 1 | 0.057 | 0.039 | 287 | 0.0189 | 0.0284 |
| Lead | 0.015 | 0.32 | 0.005 | 0.161 | BRL† | 0.036 |
| Nickel | 0.61 | 1.071 | 0.167 | 0.404 | BRL* | BRL* |
| Selenium | 0.05 | NSA | 0.005 | 0.23 | BRL* | BRL* |
| Zinc | 5 | 0.339 | 0.339 | 40.2 | 0.0676 | 0.0601 |
| Potentially Applicable Standards (non-priority pollutants) | | | | | | |
| Aluminum | 0.2 | 0.75 | 0.087 | 224 | 0.38 | BRL§ |
| Iron | 0.3 | | 1 | 1150 | 217 | 178 |
| Manganese | 0.05-0.1 | | | 13.6 | 11.4 | 10.6 |
| Ferrous Iron (mg/L) | | | | | | |
| Iron, Ferric | 0.3 | NSA | 1 | | BRL° | 0.52 |
| Iron, Ferrous | 0.3 | NSA | 1 | | 285 | 186 |

Notes:

SCDHEC - South Carolina Department of Health and Environmental Control
a - South Carolina Regulation 61-68, Water Classifications and Standards,
adopted June 2004 and adjusted for water hardness of 400 mg/L.

MCL - Maximum contaminant level

CMC - Criterion maximum concentration

CCC - Criterion continuous concentration

mg/L - Milligrams per liter

NSA - Standard not available

BRL - Below reporting limit

* - Reporting limit 0.02

† - Reporting limit 0.01

‡ - Reporting limit 0.05

- Reporting limit 0.005

§ - Reporting limit 0.2

° - Reporting limit 0.1

Yellow - Exceeds one criteria (Human Health Standard or SCDHEC WQC)

Red - Exceeds all criteria (both Human Health Standard and SCDHEC WQC)

Table 4
Creek Potentially Applicable Standards Comparison

| Seep 1 | Human Health | SCDHEC WQC under R61-68 | Bucket #2 | Bucket #2 | Nov. 19, 2008 | Dec. 16, 2008 | Jan. 30, 2009 | Feb. 26, 2009 |
|---|--------------|-------------------------|-----------|---------------|---------------|---------------|---------------|---------------|
| | MCL | CMC | CCC | Jul. 30, 2008 | Aug. 22, 2008 | BHR-P1-005 | BHR-S1-006 | BHR-S1-010 |
| Potentially Applicable Standards (priority pollutants) | | | | | | | | |
| Antimony | 0.006 | NSA | NSA | NA | NA | BRL* | BRL* | BRL* |
| Arsenic | 0.01 | 0.34 | 0.15 | NA | NA | BRL‡ | BRL‡ | BRL‡ |
| Cadmium | 0.005 | 0.008 | 0.0026 | 5.05 | 0.005 | 0.353 | 0.456 | 0.582 |
| Chromium | 0.1 | 0.57 | 0.074 | NA | NA | 0.0136 | BRL‡ | 0.0104 |
| Copper | 1 | 0.057 | 0.039 | 84.3 | 0.138 | 13.7 | 14.7 | 19.3 |
| Lead | 0.015 | 0.32 | 0.005 | NA | NA | 0.0432 | 0.0322 | 0.0473 |
| Nickel | 0.61 | 1.071 | 0.167 | NA | NA | 0.0851 | 0.102 | 0.138 |
| Selenium | 0.05 | NSA | 0.005 | NA | NA | 0.0286 | BRL* | 0.0238 |
| Zinc | 5 | 0.339 | 0.339 | 45.6 | 0.157 | 10.3 | 13.9 | 19.1 |
| Potentially Applicable Standards (non-priority pollutants) | | | | | | | | |
| Aluminum | 0.2 | 0.75 | 0.087 | NA | NA | 36.4 | 35.4 | 41.7 |
| Iron | 0.3 | | 1 | 1070 | 493 | 58.9 | 159 | 200 |
| Manganese | 0.05-0.1 | | | 23.6 | 6.93 | 13.4 | 15.7 | 19.6 |

| Seep 2 | Human Health | SCDHEC WQC under R61-68 | Bucket #2 | Bucket #2 | Nov. 19, 2008 | Dec. 16, 2008 | Jan. 30, 2009 | Feb. 26, 2009 |
|---|--------------|-------------------------|-----------|---------------|---------------|---------------|---------------|---------------|
| | MCL | CMC | CCC | Jul. 30, 2008 | Aug. 22, 2008 | BHR-P2-005 | BHR-S2-006 | BHR-S2-010 |
| Potentially Applicable Standards (priority pollutants) | | | | | | | | |
| Antimony | 0.006 | NSA | NSA | NA | NA | BRL* | BRL* | BRL* |
| Arsenic | 0.01 | 0.34 | 0.15 | NA | NA | BRL‡ | BRL‡ | BRL‡ |
| Cadmium | 0.005 | 0.008 | 0.0026 | 5.05 | 0.005 | 0.894 | 0.271 | 0.385 |
| Chromium | 0.1 | 0.57 | 0.074 | NA | NA | 0.013 | BRL‡ | BRL‡ |
| Copper | 1 | 0.057 | 0.039 | 84.3 | 0.138 | 27.7 | 9.27 | 12.4 |
| Lead | 0.015 | 0.32 | 0.005 | NA | NA | 0.0323 | 0.0109 | 0.0193 |
| Nickel | 0.61 | 1.071 | 0.167 | NA | NA | 0.215 | 0.0704 | 0.102 |
| Selenium | 0.05 | NSA | 0.005 | NA | NA | 0.0562 | BRL* | BRL* |
| Zinc | 5 | 0.339 | 0.339 | 45.6 | 0.157 | 31.2 | 9.62 | 14.1 |
| Potentially Applicable Standards (non-priority pollutants) | | | | | | | | |
| Aluminum | 0.2 | 0.75 | 0.087 | NA | NA | 48.6 | 18.1 | 22.3 |
| Iron | 0.3 | | 1 | 1070 | 493 | 171 | 87.5 | 115 |
| Manganese | 0.05-0.1 | | | 23.6 | 6.93 | 53.3 | 15.3 | 26.6 |

| Seep 3 | Human Health | SCDHEC WQC under R61-68 | Bucket #2 | Bucket #2 | Nov. 19, 2008 | Dec. 16, 2008 | Jan. 30, 2009 | Feb. 26, 2009 |
|---|--------------|-------------------------|-----------|---------------|---------------|---------------|---------------|---------------|
| | MCL | CMC | CCC | Jul. 30, 2008 | Aug. 22, 2008 | BHR-P3-005 | BHR-S3-006 | BHR-S3-010 |
| Potentially Applicable Standards (priority pollutants) | | | | | | | | |
| Antimony | 0.006 | NSA | NSA | NA | NA | BRL* | BRL* | BRL* |
| Arsenic | 0.01 | 0.34 | 0.15 | NA | NA | BRL‡ | BRL‡ | BRL‡ |
| Cadmium | 0.005 | 0.008 | 0.0026 | 5.05 | 0.005 | BRL# | BRL# | 0.0224 |
| Chromium | 0.1 | 0.57 | 0.074 | NA | NA | BRL‡ | BRL‡ | 0.0499 |
| Copper | 1 | 0.057 | 0.039 | 84.3 | 0.138 | 0.0192 | 0.011 | 0.0973 |
| Lead | 0.015 | 0.32 | 0.005 | NA | NA | BRL‡ | BRL‡ | 0.0935 |
| Nickel | 0.61 | 1.071 | 0.167 | NA | NA | BRL‡ | BRL‡ | BRL‡ |
| Selenium | 0.05 | NSA | 0.005 | NA | NA | BRL* | BRL* | 0.0216 |
| Zinc | 5 | 0.339 | 0.339 | 45.6 | 0.157 | 0.349 | 0.0987 | BRL* |
| Potentially Applicable Standards (non-priority pollutants) | | | | | | | | |
| Aluminum | 0.2 | 0.75 | 0.087 | NA | NA | BRL§ | BRL§ | 0.948 |
| Iron | 0.3 | | 1 | 1070 | 493 | 0.172 | 0.153 | 0.473 |
| Manganese | 0.05-0.1 | | | 23.6 | 6.93 | 0.414 | 0.0826 | 2.27 |

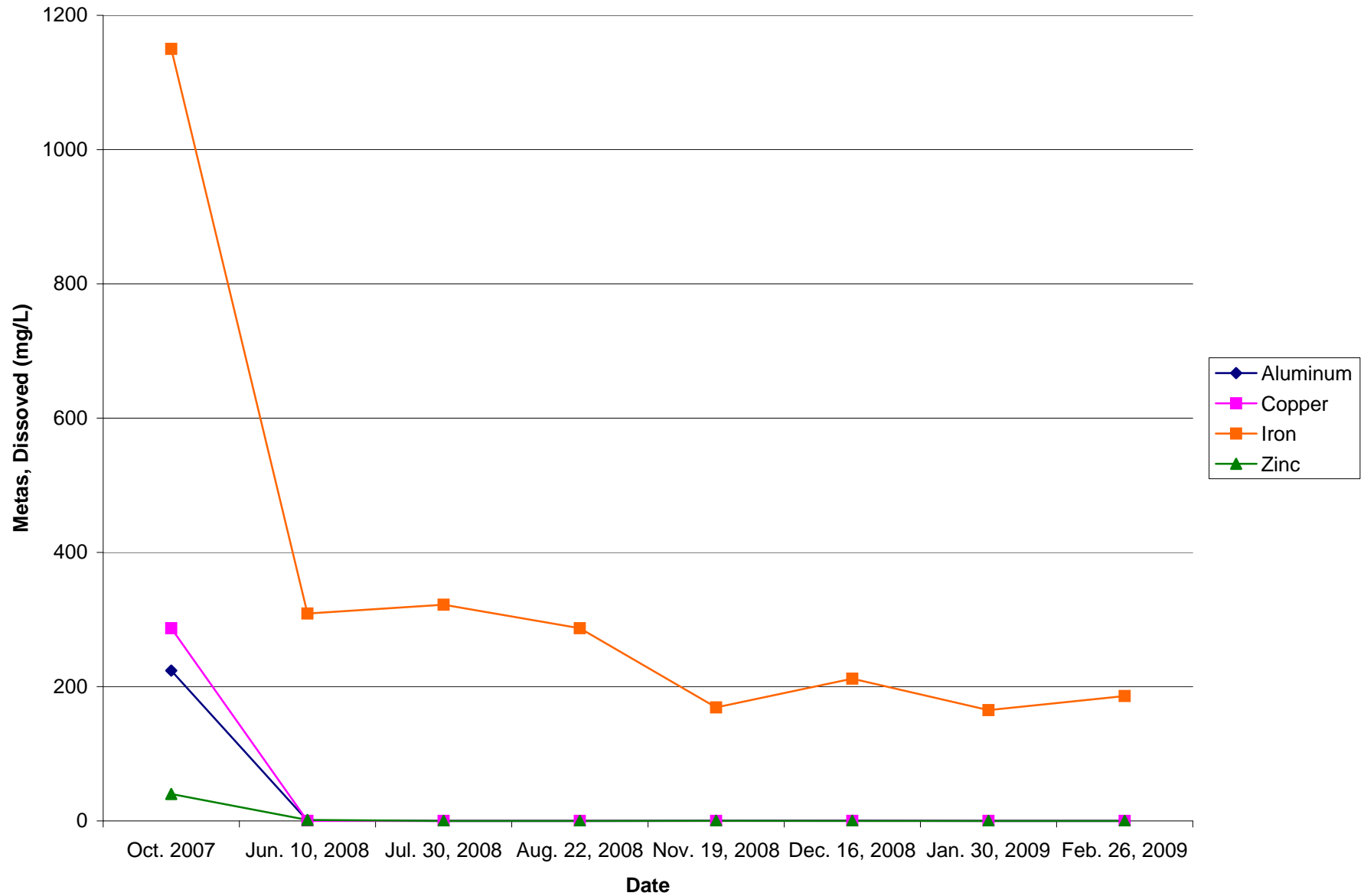
Notes:

- SCDHEC - South Carolina Department of Health and Environmental Control
 - a - South Carolina Regulation 61-68, Water Classifications and Standards, adopted June 2004 and adjusted for water hardness of 400 mg/L.
- MCL - Maximum contaminant level
- CMC - Criterion maximum concentration
- CCC - Criterion continuous concentration
- mg/L - Milligrams per liter
- NSA - Standard not available
- NA - Not analyzed
- BRL - Below reporting limit
 - * - Reporting limit 0.02
 - † - Reporting limit 0.01
 - ‡ - Reporting limit 0.05
 - # - Reporting limit 0.005
 - § - Reporting limit 0.2

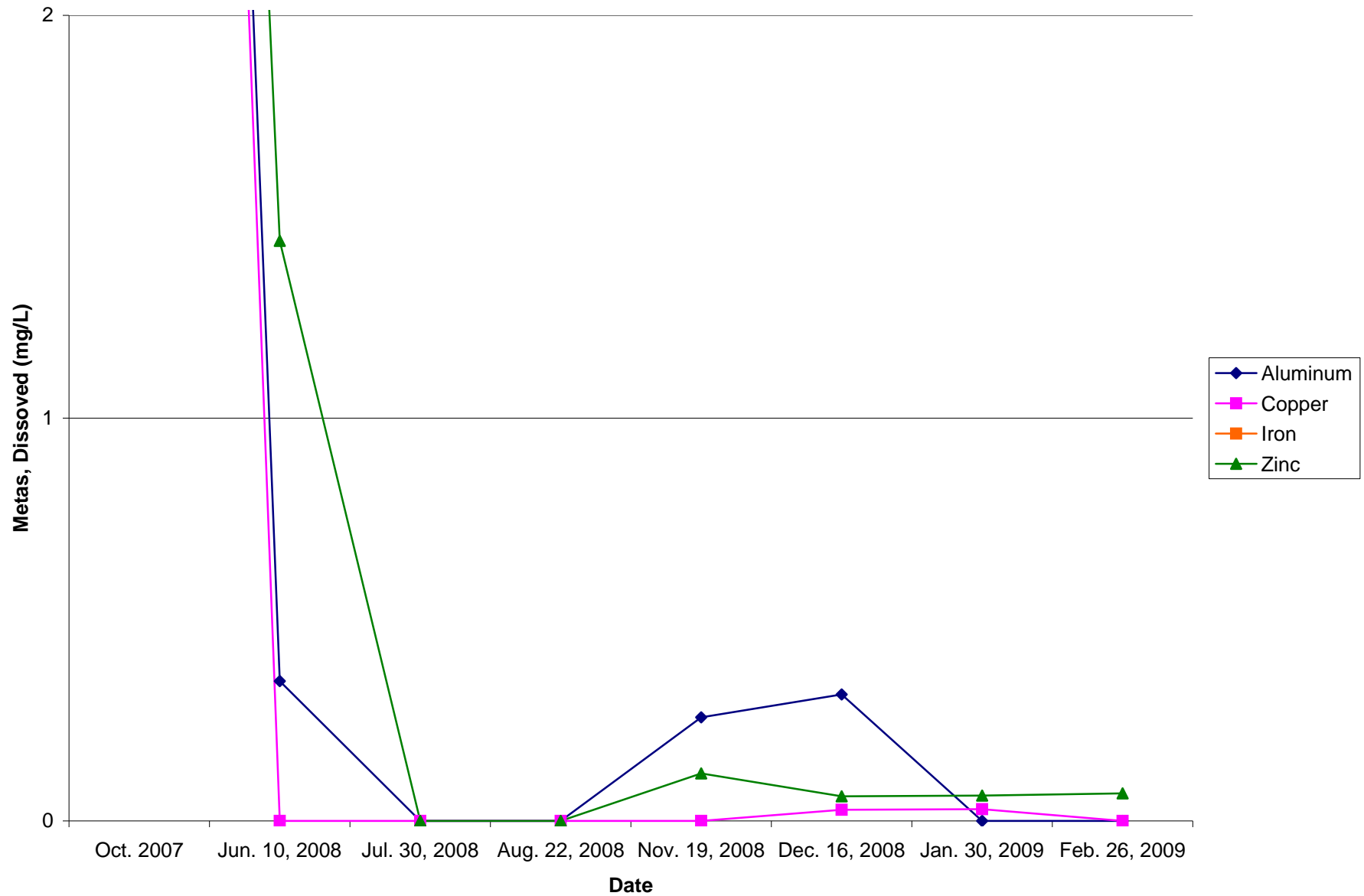
Yellow - Exceeds one criteria (Human Health Standard or SCDHEC WQC)

Red - Exceeds all criteria (both Human Health Standard and SCDHEC WQC)

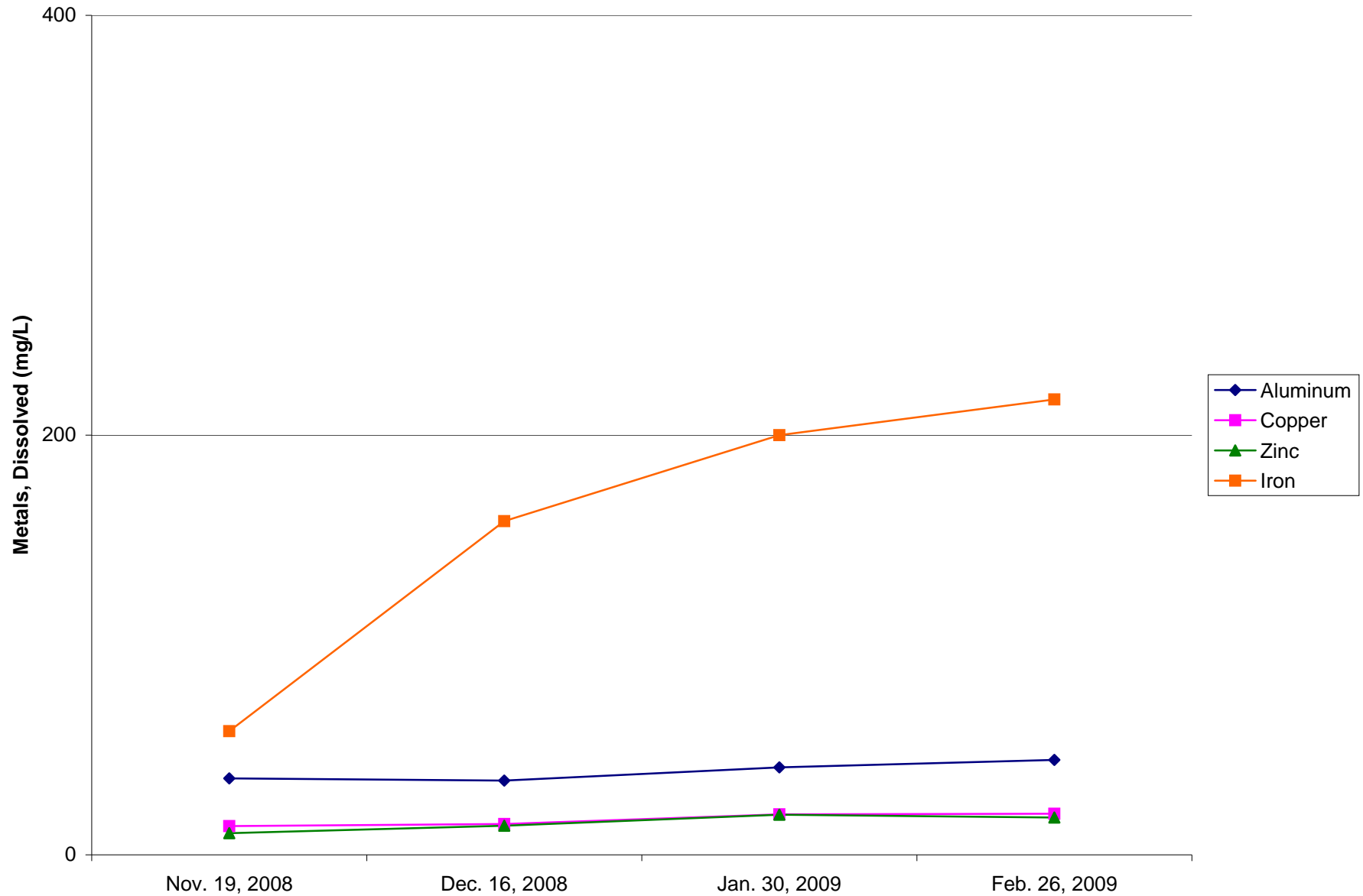
Graph 1
Pit Lake Comparison



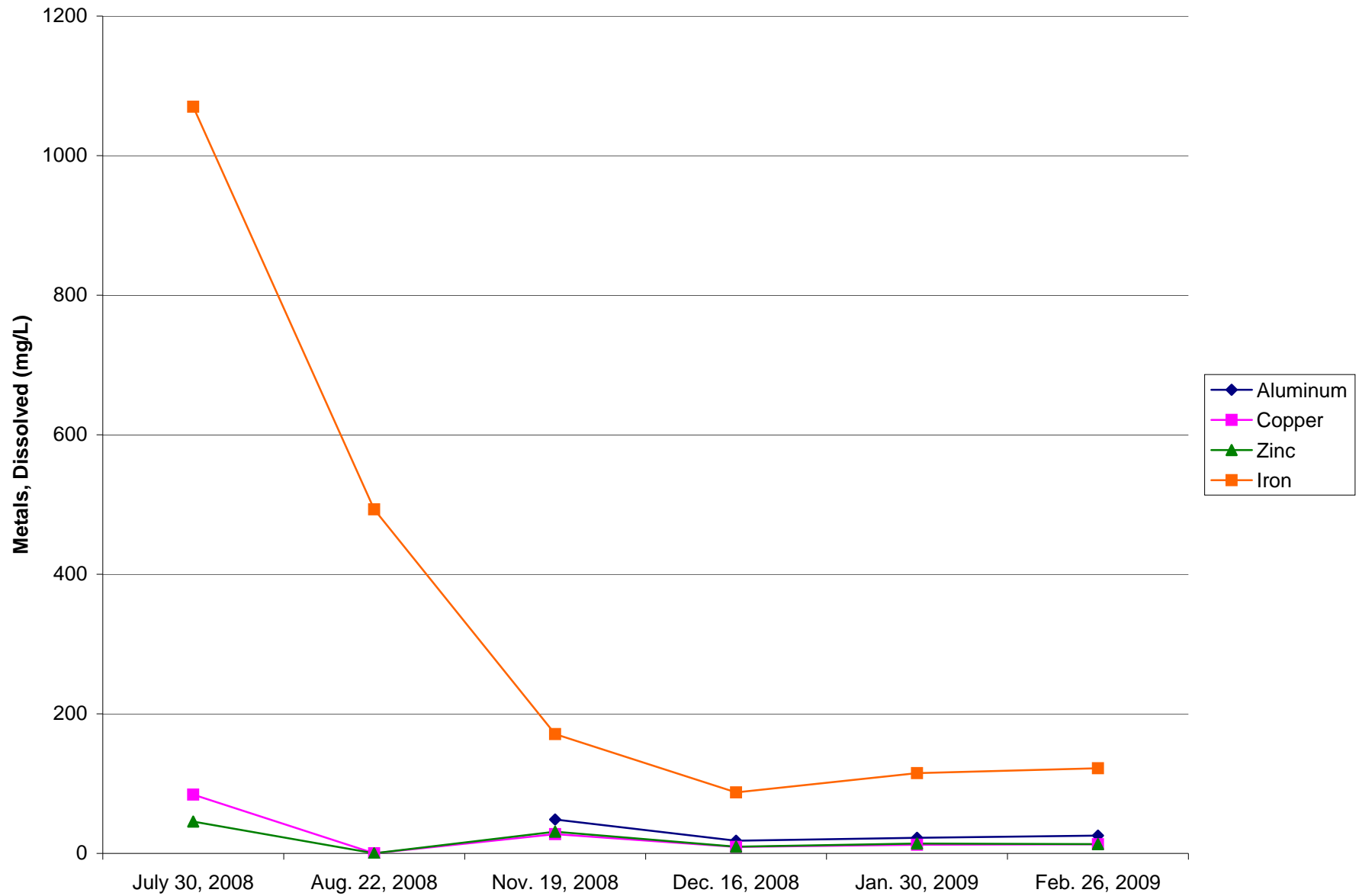
Graph 2
Pit Lake Comparison Detailed



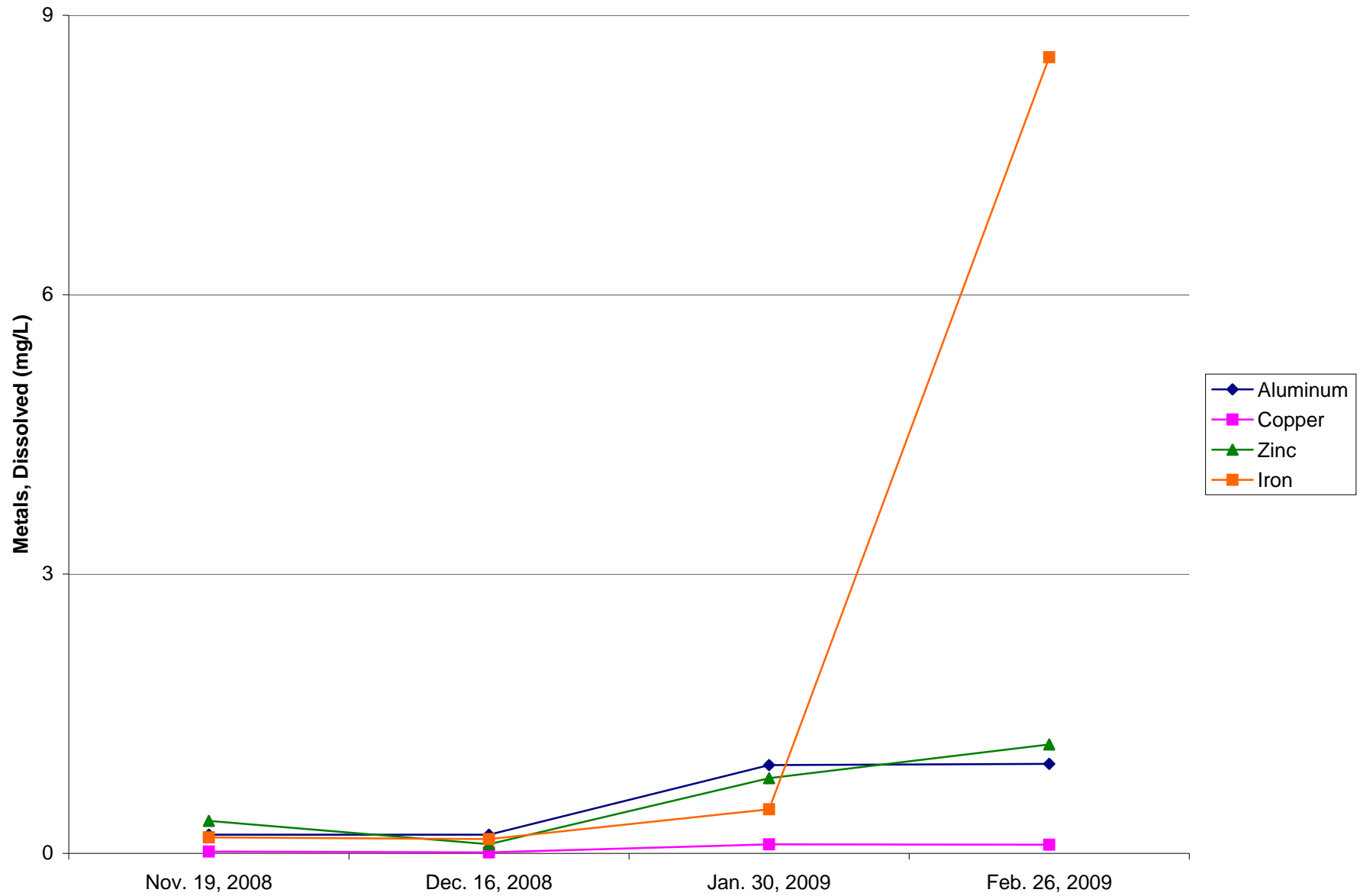
Graph 3
Seep 1 Comparison



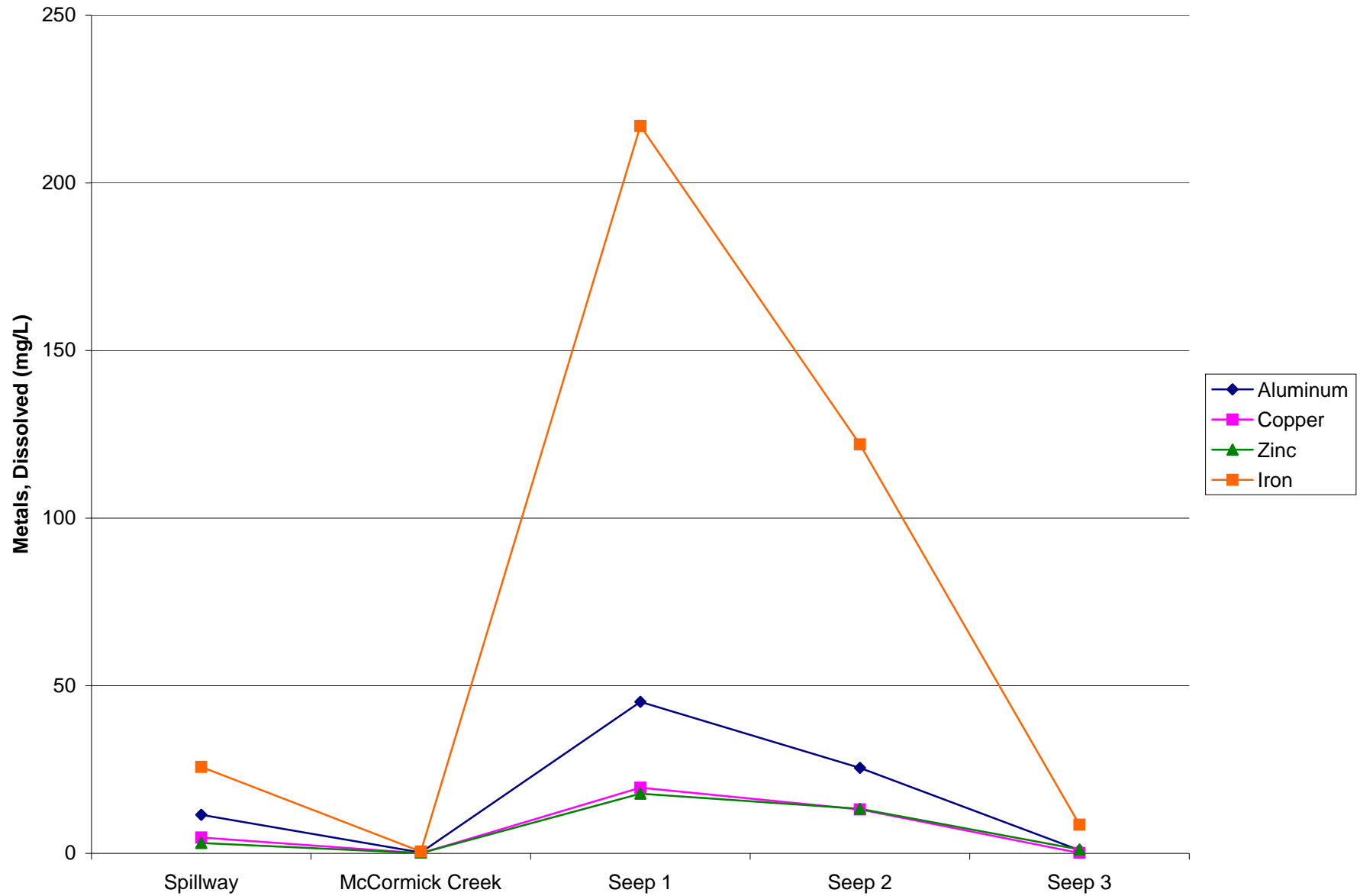
Graph 4
Seep 2 Comparison



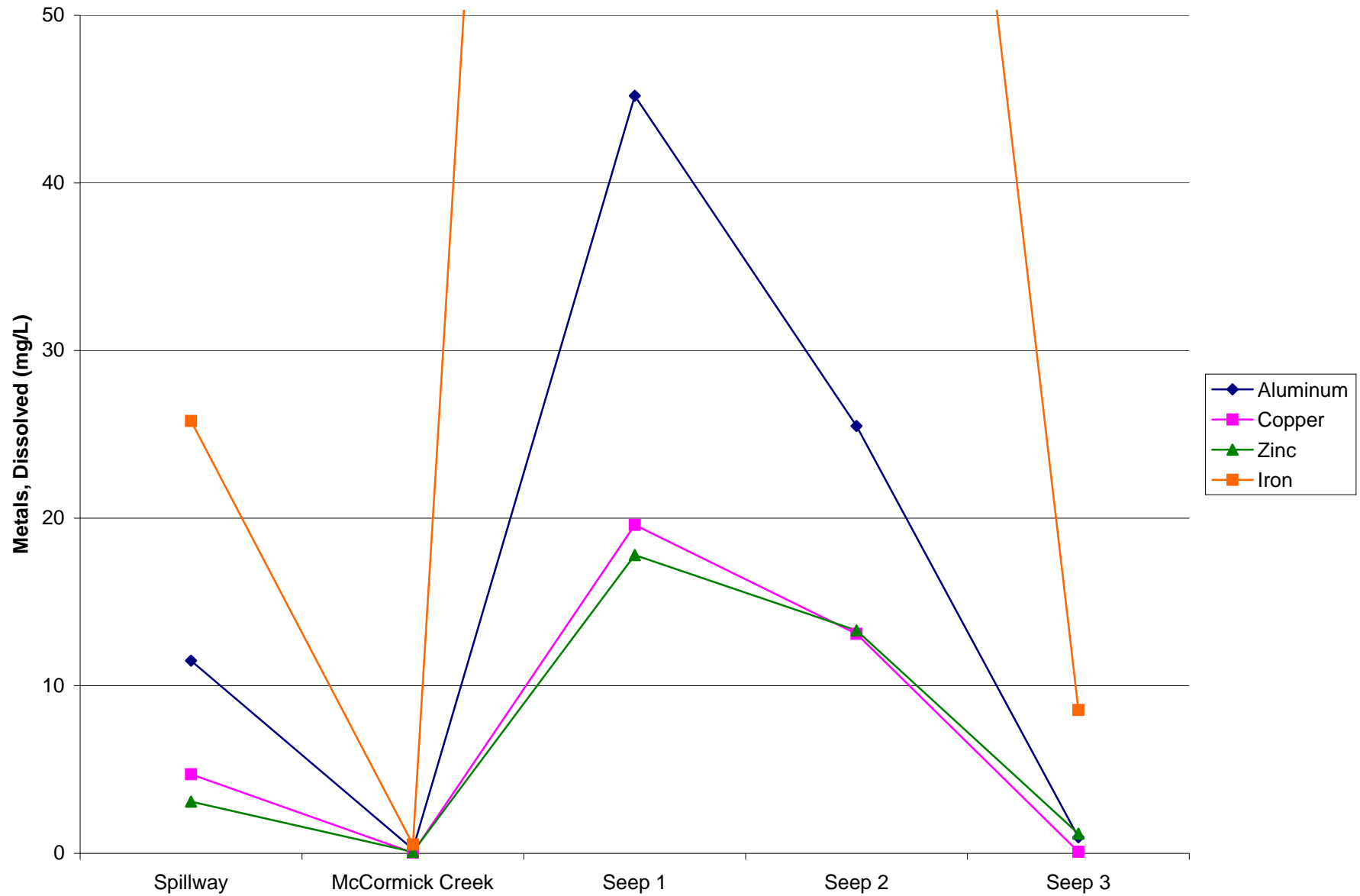
Graph 5
Seep 3 Comparison



Graph 6
Seep Comparison for 02/26/2009



Graph 7
Seep Comparison Detailed for 02/26/2009



ATTACHMENT C
ANALYTICAL DATA

Analytical Environmental Services, Inc.**Date:** 09-Mar-09**CLIENT:** TN and Associates**Client Sample ID:** BHR-MPS-010**Lab Order:** 0902H36**Tag Number:****Project:** Barite Hills**Collection Date:** 2/26/2009 11:30:00 AM**Lab ID:** 0902H36-001A**Matrix:** SURFACE WATER

| Analyses | Result | Limit Qual | Units | BatchID | DF | Date Analyzed |
|-----------------------------------|--------|---------------|-------|---------|----|---------------------|
| TOTAL ORGANIC CARBON (TOC) | | SW9060 | | | | Analyst: GAR |
| Organic Carbon, Total | 85.4 | 1.00 | mg/L | | 1 | 3/2/2009 6:02:31 PM |

| | | | | |
|--------------------|---|--|---------|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| BRL | | Below Reporting Limit | E | Estimated value above quantitation range |
| H | | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| N | | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| S | | Spike Recovery outside limits due to matrix | | |

Analytical Environmental Services, Inc.

Date: 09-Mar-09

CLIENT: TN and Associates
Lab Order: 0902H36
Project: Barite Hills
Lab ID: 0902H36-001B

Client Sample ID: BHR-MPS-010
Tag Number:
Collection Date: 2/26/2009 11:30:00 AM
Matrix: SURFACE WATER

| Analyses | Result | Limit | Qual | Units | BatchID | DF | Date Analyzed |
|-----------------------|--------|----------------|------|-------|------------------|----|---------------------|
| METALS, TOTAL | | SW6010B | | | (SW3010A) | | Analyst: TAA |
| Aluminum | 0.937 | 0.200 | | mg/L | 110489 | 1 | 3/4/2009 1:39:39 PM |
| Antimony | BRL | 0.0200 | | mg/L | 110489 | 1 | 3/4/2009 1:39:39 PM |
| Arsenic | BRL | 0.0500 | | mg/L | 110489 | 1 | 3/4/2009 1:39:39 PM |
| Barium | 0.126 | 0.0200 | | mg/L | 110489 | 1 | 3/4/2009 1:39:39 PM |
| Beryllium | BRL | 0.0100 | | mg/L | 110489 | 1 | 3/4/2009 1:39:39 PM |
| Cadmium | BRL | 0.0050 | | mg/L | 110489 | 1 | 3/4/2009 1:39:39 PM |
| Calcium | 669 | 0.500 | | mg/L | 110489 | 5 | 3/4/2009 2:16:58 PM |
| Chromium | BRL | 0.0100 | | mg/L | 110489 | 1 | 3/4/2009 1:39:39 PM |
| Cobalt | 0.0265 | 0.0200 | | mg/L | 110489 | 1 | 3/4/2009 1:39:39 PM |
| Copper | 0.0863 | 0.0100 | | mg/L | 110489 | 1 | 3/4/2009 1:39:39 PM |
| Iron | 222 | 0.500 | | mg/L | 110489 | 5 | 3/4/2009 2:16:58 PM |
| Lead | 0.0559 | 0.0100 | | mg/L | 110489 | 1 | 3/4/2009 1:39:39 PM |
| Magnesium | 98.1 | 0.100 | | mg/L | 110489 | 1 | 3/4/2009 1:39:39 PM |
| Manganese | 11.6 | 0.0150 | | mg/L | 110489 | 1 | 3/4/2009 1:39:39 PM |
| Nickel | BRL | 0.0200 | | mg/L | 110489 | 1 | 3/4/2009 1:39:39 PM |
| Potassium | 49.7 | 0.500 | | mg/L | 110489 | 1 | 3/4/2009 1:39:39 PM |
| Selenium | BRL | 0.0200 | | mg/L | 110489 | 1 | 3/6/2009 4:14:51 PM |
| Silver | BRL | 0.0100 | | mg/L | 110489 | 1 | 3/4/2009 1:39:39 PM |
| Sodium | 143 | 1.00 | | mg/L | 110489 | 1 | 3/4/2009 1:39:39 PM |
| Thallium | BRL | 0.100 | | mg/L | 110489 | 5 | 3/4/2009 2:16:58 PM |
| Vanadium | BRL | 0.0100 | | mg/L | 110489 | 1 | 3/4/2009 1:39:39 PM |
| Zinc | 0.129 | 0.0200 | | mg/L | 110489 | 1 | 3/4/2009 1:39:39 PM |
| MERCURY, TOTAL | | SW7470A | | | (SW7470) | | Analyst: JY |
| Mercury | BRL | 0.00020 | | mg/L | 110466 | 1 | 3/2/2009 5:21:20 PM |

| | | | | |
|--------------------|---|--|---------|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| BRL | | Below Reporting Limit | E | Estimated value above quantitation range |
| H | | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| N | | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| S | | Spike Recovery outside limits due to matrix | | |

Analytical Environmental Services, Inc.

Date: 09-Mar-09

CLIENT: TN and Associates
Lab Order: 0902H36
Project: Barite Hills
Lab ID: 0902H36-001C

Client Sample ID: BHR-MPS-010
Tag Number:
Collection Date: 2/26/2009 11:30:00 AM
Matrix: SURFACE WATER

| Analyses | Result | Limit | Qual | Units | BatchID | DF | Date Analyzed |
|---|--------|--------------------|------|----------|---------|-----|----------------------|
| INORGANIC ANIONS BY IC | | E300 | | | | | Analyst: GAR |
| Sulfate | 2450 | 100 | | mg/L | | 100 | 3/3/2009 11:05:00 AM |
| HYDROGEN ION (PH)(150.1/SM4500 H+ B) | | E150.1 | | | | | Analyst: CG |
| pH | 5.65 | 0.01 | H | pH Units | | 1 | 2/27/2009 4:45:00 PM |
| FERROUS IRON | | SM3500-FE-D | | | | | Analyst: CG |
| Iron, as Ferric (Fe+3) | 28.5 | 0.100 | H | mg/L | | 1 | 2/27/2009 5:30:00 PM |
| Iron, as Ferrous (Fe+2) | 194 | 20.0 | H | mg/L | | 200 | 2/27/2009 5:30:00 PM |

| | | | | |
|--------------------|---|--|---------|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| BRL | | Below Reporting Limit | E | Estimated value above quantitation range |
| H | | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| N | | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| S | | Spike Recovery outside limits due to matrix | | |

Analytical Environmental Services, Inc.

Date: 09-Mar-09

CLIENT: TN and Associates
Lab Order: 0902H36
Project: Barite Hills
Lab ID: 0902H36-001D

Client Sample ID: BHR-MPS-010
Tag Number:
Collection Date: 2/26/2009 11:30:00 AM
Matrix: SURFACE WATER

| Analyses | Result | Limit | Qual | Units | BatchID | DF | Date Analyzed |
|---------------------------|--------|----------------|------|--------------------|---------|----|----------------------|
| METALS, DISSOLVED | | SW6010B | | (SAMP_FILT) | | | Analyst: TAA |
| Aluminum | BRL | 0.200 | | mg/L | 110321 | 1 | 3/4/2009 4:13:08 PM |
| Antimony | BRL | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:13:08 PM |
| Arsenic | BRL | 0.0500 | | mg/L | 110321 | 1 | 3/4/2009 4:13:08 PM |
| Barium | 0.0759 | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:13:08 PM |
| Beryllium | BRL | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:13:08 PM |
| Cadmium | BRL | 0.0050 | | mg/L | 110321 | 1 | 3/4/2009 4:13:08 PM |
| Calcium | 648 | 0.500 | | mg/L | 110321 | 5 | 3/6/2009 10:06:09 AM |
| Chromium | BRL | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:13:08 PM |
| Cobalt | 0.0217 | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:13:08 PM |
| Copper | BRL | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:13:08 PM |
| Iron | 186 | 0.500 | | mg/L | 110321 | 5 | 3/6/2009 10:06:09 AM |
| Lead | 0.0427 | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:13:08 PM |
| Magnesium | 90.8 | 0.100 | | mg/L | 110321 | 1 | 3/4/2009 4:13:08 PM |
| Manganese | 10.7 | 0.0150 | | mg/L | 110321 | 1 | 3/4/2009 4:13:08 PM |
| Nickel | BRL | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:13:08 PM |
| Potassium | 45.0 | 0.500 | | mg/L | 110321 | 1 | 3/4/2009 4:13:08 PM |
| Selenium | BRL | 0.0200 | | mg/L | 110321 | 1 | 3/6/2009 10:43:15 AM |
| Silver | BRL | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:13:08 PM |
| Sodium | 131 | 1.00 | | mg/L | 110321 | 1 | 3/4/2009 4:13:08 PM |
| Thallium | BRL | 0.100 | | mg/L | 110321 | 5 | 3/6/2009 10:06:09 AM |
| Vanadium | BRL | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:13:08 PM |
| Zinc | 0.0685 | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:13:08 PM |
| MERCURY, DISSOLVED | | SW7470A | | (SW7470) | | | Analyst: JY |
| Mercury | BRL | 0.00020 | | mg/L | 110465 | 1 | 3/2/2009 4:15:05 PM |

| | | | | |
|--------------------|---|--|---------|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| BRL | | Below Reporting Limit | E | Estimated value above quantitation range |
| H | | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| N | | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| S | | Spike Recovery outside limits due to matrix | | |

Analytical Environmental Services, Inc.**Date:** 09-Mar-09**CLIENT:** TN and Associates**Client Sample ID:** BHR-MPB-010**Lab Order:** 0902H36**Tag Number:****Project:** Barite Hills**Collection Date:** 2/26/2009 11:40:00 AM**Lab ID:** 0902H36-002A**Matrix:** SURFACE WATER

| Analyses | Result | Limit | Qual | Units | BatchID | DF | Date Analyzed |
|-----------------------------------|--------|-------|---------------|-------|---------|----|---------------------|
| TOTAL ORGANIC CARBON (TOC) | | | SW9060 | | | | Analyst: GAR |
| Organic Carbon, Total | 83.0 | 1.00 | | mg/L | | 1 | 3/2/2009 7:00:24 PM |

| | | | | |
|--------------------|---|--|---------|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| BRL | | Below Reporting Limit | E | Estimated value above quantitation range |
| H | | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| N | | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| S | | Spike Recovery outside limits due to matrix | | |

Analytical Environmental Services, Inc.

Date: 09-Mar-09

CLIENT: TN and Associates
Lab Order: 0902H36
Project: Barite Hills
Lab ID: 0902H36-002B

Client Sample ID: BHR-MPB-010
Tag Number:
Collection Date: 2/26/2009 11:40:00 AM
Matrix: SURFACE WATER

| Analyses | Result | Limit | Qual | Units | BatchID | DF | Date Analyzed |
|-----------------------|--------|----------------|------|-------|------------------|----|---------------------|
| METALS, TOTAL | | SW6010B | | | (SW3010A) | | Analyst: TAA |
| Aluminum | BRL | 0.200 | | mg/L | 110489 | 1 | 3/4/2009 1:43:48 PM |
| Antimony | BRL | 0.0200 | | mg/L | 110489 | 1 | 3/4/2009 1:43:48 PM |
| Arsenic | BRL | 0.0500 | | mg/L | 110489 | 1 | 3/4/2009 1:43:48 PM |
| Barium | 0.0832 | 0.0200 | | mg/L | 110489 | 1 | 3/4/2009 1:43:48 PM |
| Beryllium | BRL | 0.0100 | | mg/L | 110489 | 1 | 3/4/2009 1:43:48 PM |
| Cadmium | BRL | 0.0050 | | mg/L | 110489 | 1 | 3/4/2009 1:43:48 PM |
| Calcium | 654 | 0.500 | | mg/L | 110489 | 5 | 3/4/2009 2:21:04 PM |
| Chromium | BRL | 0.0100 | | mg/L | 110489 | 1 | 3/4/2009 1:43:48 PM |
| Cobalt | 0.0227 | 0.0200 | | mg/L | 110489 | 1 | 3/4/2009 1:43:48 PM |
| Copper | 0.0340 | 0.0100 | | mg/L | 110489 | 1 | 3/4/2009 1:43:48 PM |
| Iron | 187 | 0.500 | | mg/L | 110489 | 5 | 3/4/2009 2:21:04 PM |
| Lead | 0.0459 | 0.0100 | | mg/L | 110489 | 1 | 3/4/2009 1:43:48 PM |
| Magnesium | 98.3 | 0.100 | | mg/L | 110489 | 1 | 3/4/2009 1:43:48 PM |
| Manganese | 11.5 | 0.0150 | | mg/L | 110489 | 1 | 3/4/2009 1:43:48 PM |
| Nickel | BRL | 0.0200 | | mg/L | 110489 | 1 | 3/4/2009 1:43:48 PM |
| Potassium | 48.3 | 0.500 | | mg/L | 110489 | 1 | 3/4/2009 1:43:48 PM |
| Selenium | BRL | 0.0200 | | mg/L | 110489 | 1 | 3/6/2009 4:19:07 PM |
| Silver | BRL | 0.0100 | | mg/L | 110489 | 1 | 3/4/2009 1:43:48 PM |
| Sodium | 138 | 1.00 | | mg/L | 110489 | 1 | 3/4/2009 1:43:48 PM |
| Thallium | BRL | 0.100 | | mg/L | 110489 | 5 | 3/4/2009 2:21:04 PM |
| Vanadium | BRL | 0.0100 | | mg/L | 110489 | 1 | 3/4/2009 1:43:48 PM |
| Zinc | 0.0673 | 0.0200 | | mg/L | 110489 | 1 | 3/4/2009 1:43:48 PM |
| MERCURY, TOTAL | | SW7470A | | | (SW7470) | | Analyst: JY |
| Mercury | BRL | 0.00020 | | mg/L | 110466 | 1 | 3/2/2009 5:23:16 PM |

| | | | | |
|--------------------|---|--|---------|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| BRL | | Below Reporting Limit | E | Estimated value above quantitation range |
| H | | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| N | | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| S | | Spike Recovery outside limits due to matrix | | |

Analytical Environmental Services, Inc.**Date:** 09-Mar-09

CLIENT: TN and Associates
Lab Order: 0902H36
Project: Barite Hills
Lab ID: 0902H36-002C

Client Sample ID: BHR-MPB-010
Tag Number:
Collection Date: 2/26/2009 11:40:00 AM
Matrix: SURFACE WATER

| Analyses | Result | Limit Qual | Units | BatchID | DF | Date Analyzed |
|---|--------|--------------------|----------|---------|-----|----------------------|
| INORGANIC ANIONS BY IC | | E300 | | | | Analyst: GAR |
| Sulfate | 2140 | 100 | mg/L | | 100 | 3/3/2009 11:19:42 AM |
| HYDROGEN ION (PH)(150.1/SM4500 H+ B) | | E150.1 | | | | Analyst: CG |
| pH | 5.04 | 0.01 H | pH Units | | 1 | 2/27/2009 4:51:00 PM |
| FERROUS IRON | | SM3500-FE-D | | | | Analyst: CG |
| Iron, as Ferric (Fe+3) | 0.520 | 0.100 H | mg/L | | 1 | 2/27/2009 5:30:00 PM |
| Iron, as Ferrous (Fe+2) | 186 | 20.0 H | mg/L | | 200 | 2/27/2009 5:30:00 PM |

| | | | | |
|--------------------|---|--|---------|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| BRL | | Below Reporting Limit | E | Estimated value above quantitation range |
| H | | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| N | | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| S | | Spike Recovery outside limits due to matrix | | |

Analytical Environmental Services, Inc.

Date: 09-Mar-09

CLIENT: TN and Associates
Lab Order: 0902H36
Project: Barite Hills
Lab ID: 0902H36-002D

Client Sample ID: BHR-MPB-010
Tag Number:
Collection Date: 2/26/2009 11:40:00 AM
Matrix: SURFACE WATER

| Analyses | Result | Limit | Qual | Units | BatchID | DF | Date Analyzed |
|---------------------------|--------|----------------|------|--------------------|---------|----|----------------------|
| METALS, DISSOLVED | | SW6010B | | (SAMP_FILT) | | | Analyst: TAA |
| Aluminum | BRL | 0.200 | | mg/L | 110321 | 1 | 3/4/2009 4:17:19 PM |
| Antimony | BRL | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:17:19 PM |
| Arsenic | BRL | 0.0500 | | mg/L | 110321 | 1 | 3/4/2009 4:17:19 PM |
| Barium | 0.0713 | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:17:19 PM |
| Beryllium | BRL | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:17:19 PM |
| Cadmium | BRL | 0.0050 | | mg/L | 110321 | 1 | 3/4/2009 4:17:19 PM |
| Calcium | 666 | 0.500 | | mg/L | 110321 | 5 | 3/6/2009 10:10:18 AM |
| Chromium | BRL | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:17:19 PM |
| Cobalt | 0.0201 | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:17:19 PM |
| Copper | 0.0284 | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:17:19 PM |
| Iron | 178 | 0.500 | | mg/L | 110321 | 5 | 3/6/2009 10:10:18 AM |
| Lead | 0.0360 | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:17:19 PM |
| Magnesium | 86.5 | 0.100 | | mg/L | 110321 | 1 | 3/4/2009 4:17:19 PM |
| Manganese | 10.6 | 0.0150 | | mg/L | 110321 | 1 | 3/4/2009 4:17:19 PM |
| Nickel | BRL | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:17:19 PM |
| Potassium | 45.0 | 0.500 | | mg/L | 110321 | 1 | 3/4/2009 4:17:19 PM |
| Selenium | BRL | 0.0200 | | mg/L | 110321 | 1 | 3/6/2009 10:47:24 AM |
| Silver | BRL | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:17:19 PM |
| Sodium | 116 | 1.00 | | mg/L | 110321 | 1 | 3/4/2009 4:17:19 PM |
| Thallium | BRL | 0.100 | | mg/L | 110321 | 5 | 3/6/2009 10:10:18 AM |
| Vanadium | BRL | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:17:19 PM |
| Zinc | 0.0601 | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:17:19 PM |
| MERCURY, DISSOLVED | | SW7470A | | (SW7470) | | | Analyst: JY |
| Mercury | BRL | 0.00020 | | mg/L | 110465 | 1 | 3/2/2009 4:17:01 PM |

| | | | | |
|--------------------|---|--|---------|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| BRL | | Below Reporting Limit | E | Estimated value above quantitation range |
| H | | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| N | | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| S | | Spike Recovery outside limits due to matrix | | |

Analytical Environmental Services, Inc.**Date:** 09-Mar-09

CLIENT: TN and Associates
Lab Order: 0902H36
Project: Barite Hills
Lab ID: 0902H36-003A

Client Sample ID: BHR-S0-010
Tag Number:
Collection Date: 2/26/2009 1:15:00 PM
Matrix: SURFACE WATER

| Analyses | Result | Limit Qual | Units | BatchID | DF | Date Analyzed |
|-----------------------------------|--------|---------------|-------|---------|----|---------------------|
| TOTAL ORGANIC CARBON (TOC) | | SW9060 | | | | Analyst: GAR |
| Organic Carbon, Total | 3.99 | 1.00 | mg/L | | 1 | 3/2/2009 7:18:25 PM |

| | | | | |
|--------------------|---|--|---------|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| BRL | | Below Reporting Limit | E | Estimated value above quantitation range |
| H | | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| N | | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| S | | Spike Recovery outside limits due to matrix | | |

Analytical Environmental Services, Inc.**Date:** 09-Mar-09

CLIENT: TN and Associates
Lab Order: 0902H36
Project: Barite Hills
Lab ID: 0902H36-003B

Client Sample ID: BHR-S0-010
Tag Number:
Collection Date: 2/26/2009 1:15:00 PM
Matrix: SURFACE WATER

| Analyses | Result | Limit | Qual | Units | BatchID | DF | Date Analyzed |
|---|--------|-------|---------------|----------|---------|----|----------------------|
| INORGANIC ANIONS BY IC | | | E300 | | | | Analyst: GAR |
| Sulfate | 331 | 10.0 | | mg/L | | 10 | 3/3/2009 10:50:17 AM |
| HYDROGEN ION (PH)(150.1/SM4500 H+ B) | | | E150.1 | | | | Analyst: CG |
| pH | 4.25 | 0.01 | H | pH Units | | 1 | 2/27/2009 4:53:00 PM |

| | | | | |
|--------------------|---|--|---------|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| BRL | | Below Reporting Limit | E | Estimated value above quantitation range |
| H | | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| N | | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| S | | Spike Recovery outside limits due to matrix | | |

Analytical Environmental Services, Inc.

Date: 09-Mar-09

CLIENT: TN and Associates
Lab Order: 0902H36
Project: Barite Hills
Lab ID: 0902H36-003C

Client Sample ID: BHR-S0-010
Tag Number:
Collection Date: 2/26/2009 1:15:00 PM
Matrix: SURFACE WATER

| Analyses | Result | Limit | Qual | Units | BatchID | DF | Date Analyzed |
|---------------------------|--------|----------------|------|--------------------|---------|----|---------------------|
| METALS, DISSOLVED | | SW6010B | | (SAMP_FILT) | | | Analyst: TAA |
| Aluminum | 11.5 | 0.200 | | mg/L | 110321 | 1 | 3/4/2009 4:21:27 PM |
| Antimony | BRL | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:21:27 PM |
| Arsenic | BRL | 0.0500 | | mg/L | 110321 | 1 | 3/4/2009 4:21:27 PM |
| Barium | 0.0420 | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:21:27 PM |
| Beryllium | BRL | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:21:27 PM |
| Cadmium | 0.0974 | 0.0050 | | mg/L | 110321 | 1 | 3/4/2009 4:21:27 PM |
| Calcium | 44.3 | 0.100 | | mg/L | 110321 | 1 | 3/4/2009 4:21:27 PM |
| Chromium | BRL | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:21:27 PM |
| Cobalt | 0.146 | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:21:27 PM |
| Copper | 4.72 | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:21:27 PM |
| Iron | 25.8 | 0.100 | | mg/L | 110321 | 1 | 3/4/2009 4:21:27 PM |
| Lead | 0.0133 | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:21:27 PM |
| Magnesium | 15.6 | 0.100 | | mg/L | 110321 | 1 | 3/4/2009 4:21:27 PM |
| Manganese | 3.94 | 0.0150 | | mg/L | 110321 | 1 | 3/4/2009 4:21:27 PM |
| Nickel | 0.0278 | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:21:27 PM |
| Potassium | 1.78 | 0.500 | | mg/L | 110321 | 1 | 3/4/2009 4:21:27 PM |
| Selenium | BRL | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:21:27 PM |
| Silver | BRL | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:21:27 PM |
| Sodium | 15.7 | 1.00 | | mg/L | 110321 | 1 | 3/4/2009 4:21:27 PM |
| Thallium | BRL | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:21:27 PM |
| Vanadium | BRL | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:21:27 PM |
| Zinc | 3.09 | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:21:27 PM |
| MERCURY, DISSOLVED | | SW7470A | | (SW7470) | | | Analyst: JY |
| Mercury | BRL | 0.00020 | | mg/L | 110465 | 1 | 3/2/2009 4:18:57 PM |

| | | | | |
|--------------------|---|--|---------|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| BRL | | Below Reporting Limit | E | Estimated value above quantitation range |
| H | | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| N | | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| S | | Spike Recovery outside limits due to matrix | | |

Analytical Environmental Services, Inc.**Date:** 09-Mar-09

CLIENT: TN and Associates
Lab Order: 0902H36
Project: Barite Hills
Lab ID: 0902H36-004A

Client Sample ID: BHR-S1-010
Tag Number:
Collection Date: 2/26/2009 1:40:00 PM
Matrix: SURFACE WATER

| Analyses | Result | Limit Qual | Units | BatchID | DF | Date Analyzed |
|-----------------------------------|--------|---------------|-------|---------|----|---------------------|
| TOTAL ORGANIC CARBON (TOC) | | SW9060 | | | | Analyst: GAR |
| Organic Carbon, Total | 4.87 | 1.00 | mg/L | | 1 | 3/2/2009 7:36:58 PM |

| | | | | |
|--------------------|---|--|---------|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| BRL | | Below Reporting Limit | E | Estimated value above quantitation range |
| H | | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| N | | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| S | | Spike Recovery outside limits due to matrix | | |

Analytical Environmental Services, Inc.**Date:** 09-Mar-09

CLIENT: TN and Associates
Lab Order: 0902H36
Project: Barite Hills
Lab ID: 0902H36-004B

Client Sample ID: BHR-S1-010
Tag Number:
Collection Date: 2/26/2009 1:40:00 PM
Matrix: SURFACE WATER

| Analyses | Result | Limit | Qual | Units | BatchID | DF | Date Analyzed |
|---|--------|---------------|------|----------|---------|-----|----------------------|
| INORGANIC ANIONS BY IC | | E300 | | | | | Analyst: GAR |
| Sulfate | 1390 | 100 | | mg/L | | 100 | 3/3/2009 11:34:24 AM |
| HYDROGEN ION (PH)(150.1/SM4500 H+ B) | | E150.1 | | | | | Analyst: CG |
| pH | 3.27 | 0.01 | H | pH Units | | 1 | 2/27/2009 4:56:00 PM |

| | | | | |
|--------------------|---|--|---------|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| BRL | | Below Reporting Limit | E | Estimated value above quantitation range |
| H | | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| N | | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| S | | Spike Recovery outside limits due to matrix | | |

Analytical Environmental Services, Inc.

Date: 09-Mar-09

CLIENT: TN and Associates
Lab Order: 0902H36
Project: Barite Hills
Lab ID: 0902H36-004C

Client Sample ID: BHR-S1-010
Tag Number:
Collection Date: 2/26/2009 1:40:00 PM
Matrix: SURFACE WATER

| Analyses | Result | Limit | Qual | Units | BatchID | DF | Date Analyzed |
|---------------------------|--------|----------------|------|--------------------|---------|----|----------------------|
| METALS, DISSOLVED | | SW6010B | | (SAMP_FILT) | | | Analyst: TAA |
| Aluminum | 45.2 | 0.200 | | mg/L | 110321 | 1 | 3/4/2009 4:25:36 PM |
| Antimony | BRL | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:25:36 PM |
| Arsenic | BRL | 0.0500 | | mg/L | 110321 | 1 | 3/4/2009 4:25:36 PM |
| Barium | 0.0409 | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:25:36 PM |
| Beryllium | BRL | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:25:36 PM |
| Cadmium | 0.582 | 0.0050 | | mg/L | 110321 | 1 | 3/4/2009 4:25:36 PM |
| Calcium | 207 | 0.100 | | mg/L | 110321 | 1 | 3/4/2009 4:25:36 PM |
| Chromium | 0.0103 | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:25:36 PM |
| Cobalt | 0.872 | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:25:36 PM |
| Copper | 19.6 | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:25:36 PM |
| Iron | 217 | 0.500 | | mg/L | 110321 | 5 | 3/6/2009 10:14:25 AM |
| Lead | 0.0899 | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:25:36 PM |
| Magnesium | 55.6 | 0.100 | | mg/L | 110321 | 1 | 3/4/2009 4:25:36 PM |
| Manganese | 20.1 | 0.0150 | | mg/L | 110321 | 1 | 3/4/2009 4:25:36 PM |
| Nickel | 0.135 | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:25:36 PM |
| Potassium | 5.97 | 0.500 | | mg/L | 110321 | 1 | 3/4/2009 4:25:36 PM |
| Selenium | 0.0440 | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:25:36 PM |
| Silver | BRL | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:25:36 PM |
| Sodium | 42.0 | 1.00 | | mg/L | 110321 | 1 | 3/4/2009 4:25:36 PM |
| Thallium | BRL | 0.100 | | mg/L | 110321 | 5 | 3/6/2009 10:14:25 AM |
| Vanadium | 0.0117 | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:25:36 PM |
| Zinc | 17.8 | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:25:36 PM |
| MERCURY, DISSOLVED | | SW7470A | | (SW7470) | | | Analyst: JY |
| Mercury | BRL | 0.00020 | | mg/L | 110465 | 1 | 3/2/2009 4:20:53 PM |

| | | | | |
|--------------------|---|--|---------|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| BRL | | Below Reporting Limit | E | Estimated value above quantitation range |
| H | | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| N | | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| S | | Spike Recovery outside limits due to matrix | | |

Analytical Environmental Services, Inc.**Date:** 09-Mar-09

CLIENT: TN and Associates
Lab Order: 0902H36
Project: Barite Hills
Lab ID: 0902H36-005A

Client Sample ID: BHR-S2-010
Tag Number:
Collection Date: 2/26/2009 1:47:00 PM
Matrix: SURFACE WATER

| Analyses | Result | Limit Qual | Units | BatchID | DF | Date Analyzed |
|-----------------------------------|---------------|-------------------|--------------|----------------|-----------|----------------------|
| TOTAL ORGANIC CARBON (TOC) | | SW9060 | | | | Analyst: GAR |
| Organic Carbon, Total | 3.97 | 1.00 | mg/L | | 1 | 3/2/2009 7:55:31 PM |

| | | | | |
|--------------------|---|--|---------|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| BRL | | Below Reporting Limit | E | Estimated value above quantitation range |
| H | | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| N | | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| S | | Spike Recovery outside limits due to matrix | | |

Analytical Environmental Services, Inc.**Date:** 09-Mar-09

CLIENT: TN and Associates
Lab Order: 0902H36
Project: Barite Hills
Lab ID: 0902H36-005B

Client Sample ID: BHR-S2-010
Tag Number:
Collection Date: 2/26/2009 1:47:00 PM
Matrix: SURFACE WATER

| Analyses | Result | Limit | Qual | Units | BatchID | DF | Date Analyzed |
|---|--------|---------------|------|----------|---------|-----|----------------------|
| INORGANIC ANIONS BY IC | | E300 | | | | | Analyst: GAR |
| Sulfate | 943 | 100 | | mg/L | | 100 | 3/3/2009 11:49:07 AM |
| HYDROGEN ION (PH)(150.1/SM4500 H+ B) | | E150.1 | | | | | Analyst: CG |
| pH | 3.33 | 0.01 | H | pH Units | | 1 | 2/27/2009 4:59:00 PM |

| | | | | |
|--------------------|---|--|---------|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| BRL | | Below Reporting Limit | E | Estimated value above quantitation range |
| H | | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| N | | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| S | | Spike Recovery outside limits due to matrix | | |

Analytical Environmental Services, Inc.

Date: 09-Mar-09

CLIENT: TN and Associates
Lab Order: 0902H36
Project: Barite Hills
Lab ID: 0902H36-005C

Client Sample ID: BHR-S2-010
Tag Number:
Collection Date: 2/26/2009 1:47:00 PM
Matrix: SURFACE WATER

| Analyses | Result | Limit | Qual | Units | BatchID | DF | Date Analyzed |
|---------------------------|--------|----------------|------|--------------------|---------|----|----------------------|
| METALS, DISSOLVED | | SW6010B | | (SAMP_FILT) | | | Analyst: TAA |
| Aluminum | 25.5 | 0.200 | | mg/L | 110321 | 1 | 3/4/2009 4:29:47 PM |
| Antimony | BRL | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:29:47 PM |
| Arsenic | BRL | 0.0500 | | mg/L | 110321 | 1 | 3/4/2009 4:29:47 PM |
| Barium | 0.0577 | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:29:47 PM |
| Beryllium | BRL | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:29:47 PM |
| Cadmium | 0.394 | 0.0050 | | mg/L | 110321 | 1 | 3/4/2009 4:29:47 PM |
| Calcium | 141 | 0.100 | | mg/L | 110321 | 1 | 3/4/2009 4:29:47 PM |
| Chromium | BRL | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:29:47 PM |
| Cobalt | 0.878 | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:29:47 PM |
| Copper | 13.1 | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:29:47 PM |
| Iron | 122 | 0.500 | | mg/L | 110321 | 5 | 3/6/2009 10:18:30 AM |
| Lead | 0.0534 | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:29:47 PM |
| Magnesium | 40.7 | 0.100 | | mg/L | 110321 | 1 | 3/4/2009 4:29:47 PM |
| Manganese | 20.9 | 0.0150 | | mg/L | 110321 | 1 | 3/4/2009 4:29:47 PM |
| Nickel | 0.105 | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:29:47 PM |
| Potassium | 2.80 | 0.500 | | mg/L | 110321 | 1 | 3/4/2009 4:29:47 PM |
| Selenium | 0.0338 | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:29:47 PM |
| Silver | BRL | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:29:47 PM |
| Sodium | 30.4 | 1.00 | | mg/L | 110321 | 1 | 3/4/2009 4:29:47 PM |
| Thallium | BRL | 0.100 | | mg/L | 110321 | 5 | 3/6/2009 10:18:30 AM |
| Vanadium | BRL | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:29:47 PM |
| Zinc | 13.3 | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:29:47 PM |
| MERCURY, DISSOLVED | | SW7470A | | (SW7470) | | | Analyst: JY |
| Mercury | BRL | 0.00020 | | mg/L | 110465 | 1 | 3/2/2009 4:22:49 PM |

| | | | | |
|--------------------|---|--|---------|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| BRL | | Below Reporting Limit | E | Estimated value above quantitation range |
| H | | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| N | | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| S | | Spike Recovery outside limits due to matrix | | |

Analytical Environmental Services, Inc.**Date:** 09-Mar-09**CLIENT:** TN and Associates**Client Sample ID:** BHR-S3-010**Lab Order:** 0902H36**Tag Number:****Project:** Barite Hills**Collection Date:** 2/26/2009 1:54:00 PM**Lab ID:** 0902H36-006A**Matrix:** SURFACE WATER

| Analyses | Result | Limit | Qual | Units | BatchID | DF | Date Analyzed |
|-----------------------------------|--------|-------|---------------|-------|---------|----|---------------------|
| TOTAL ORGANIC CARBON (TOC) | | | SW9060 | | | | Analyst: GAR |
| Organic Carbon, Total | 2.05 | 1.00 | | mg/L | | 1 | 3/2/2009 8:13:54 PM |

| | | | | |
|--------------------|---|--|---------|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| BRL | | Below Reporting Limit | E | Estimated value above quantitation range |
| H | | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| N | | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| S | | Spike Recovery outside limits due to matrix | | |

Analytical Environmental Services, Inc.**Date:** 09-Mar-09**CLIENT:** TN and Associates**Client Sample ID:** BHR-S3-010**Lab Order:** 0902H36**Tag Number:****Project:** Barite Hills**Collection Date:** 2/26/2009 1:54:00 PM**Lab ID:** 0902H36-006B**Matrix:** SURFACE WATER

| Analyses | Result | Limit Qual | Units | BatchID | DF | Date Analyzed |
|---|--------|---------------|----------|---------|----|----------------------|
| INORGANIC ANIONS BY IC | | E300 | | | | Analyst: GAR |
| Sulfate | 272 | 10.0 | mg/L | | 10 | 3/2/2009 8:51:46 PM |
| HYDROGEN ION (PH)(150.1/SM4500 H+ B) | | E150.1 | | | | Analyst: CG |
| pH | 3.74 | 0.01 H | pH Units | | 1 | 2/27/2009 5:02:00 PM |

| | | | | |
|--------------------|---|--|---------|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| BRL | | Below Reporting Limit | E | Estimated value above quantitation range |
| H | | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| N | | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| S | | Spike Recovery outside limits due to matrix | | |

Analytical Environmental Services, Inc.

Date: 09-Mar-09

CLIENT: TN and Associates
Lab Order: 0902H36
Project: Barite Hills
Lab ID: 0902H36-006C

Client Sample ID: BHR-S3-010
Tag Number:
Collection Date: 2/26/2009 1:54:00 PM
Matrix: SURFACE WATER

| Analyses | Result | Limit | Qual | Units | BatchID | DF | Date Analyzed |
|---------------------------|--------|----------------|------|--------------------|---------|----|---------------------|
| METALS, DISSOLVED | | SW6010B | | (SAMP_FILT) | | | Analyst: TAA |
| Aluminum | 0.961 | 0.200 | | mg/L | 110321 | 1 | 3/4/2009 4:50:27 PM |
| Antimony | BRL | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:50:27 PM |
| Arsenic | BRL | 0.0500 | | mg/L | 110321 | 1 | 3/4/2009 4:50:27 PM |
| Barium | 0.110 | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:50:27 PM |
| Beryllium | BRL | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:50:27 PM |
| Cadmium | 0.0499 | 0.0050 | | mg/L | 110321 | 1 | 3/4/2009 4:50:27 PM |
| Calcium | 49.5 | 0.100 | | mg/L | 110321 | 1 | 3/4/2009 4:50:27 PM |
| Chromium | BRL | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:50:27 PM |
| Cobalt | 0.0624 | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:50:27 PM |
| Copper | 0.0935 | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:50:27 PM |
| Iron | 8.55 | 0.100 | | mg/L | 110321 | 1 | 3/6/2009 1:23:11 PM |
| Lead | BRL | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:50:27 PM |
| Magnesium | 19.8 | 0.100 | | mg/L | 110321 | 1 | 3/4/2009 4:50:27 PM |
| Manganese | 2.80 | 0.0150 | | mg/L | 110321 | 1 | 3/4/2009 4:50:27 PM |
| Nickel | 0.0216 | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:50:27 PM |
| Potassium | 1.19 | 0.500 | | mg/L | 110321 | 1 | 3/4/2009 4:50:27 PM |
| Selenium | BRL | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:50:27 PM |
| Silver | BRL | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:50:27 PM |
| Sodium | 17.7 | 1.00 | | mg/L | 110321 | 1 | 3/4/2009 4:50:27 PM |
| Thallium | BRL | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:50:27 PM |
| Vanadium | BRL | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:50:27 PM |
| Zinc | 1.17 | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:50:27 PM |
| MERCURY, DISSOLVED | | SW7470A | | (SW7470) | | | Analyst: JY |
| Mercury | BRL | 0.00020 | | mg/L | 110465 | 1 | 3/2/2009 4:24:45 PM |

| | | | | |
|--------------------|---|--|---------|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| BRL | | Below Reporting Limit | E | Estimated value above quantitation range |
| H | | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| N | | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| S | | Spike Recovery outside limits due to matrix | | |

Analytical Environmental Services, Inc.**Date:** 09-Mar-09

CLIENT: TN and Associates
Lab Order: 0902H36
Project: Barite Hills
Lab ID: 0902H36-007A

Client Sample ID: BHR-MC-010
Tag Number:
Collection Date: 2/26/2009 1:31:00 PM
Matrix: SURFACE WATER

| Analyses | Result | Limit Qual | Units | BatchID | DF | Date Analyzed |
|-----------------------------------|--------|---------------|-------|---------|----|---------------------|
| TOTAL ORGANIC CARBON (TOC) | | SW9060 | | | | Analyst: GAR |
| Organic Carbon, Total | 8.19 | 1.00 | mg/L | | 1 | 3/2/2009 8:32:21 PM |

| | | | | |
|--------------------|---|--|---------|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| BRL | | Below Reporting Limit | E | Estimated value above quantitation range |
| H | | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| N | | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| S | | Spike Recovery outside limits due to matrix | | |

Analytical Environmental Services, Inc.**Date:** 09-Mar-09

CLIENT: TN and Associates
Lab Order: 0902H36
Project: Barite Hills
Lab ID: 0902H36-007B

Client Sample ID: BHR-MC-010
Tag Number:
Collection Date: 2/26/2009 1:31:00 PM
Matrix: SURFACE WATER

| Analyses | Result | Limit | Qual | Units | BatchID | DF | Date Analyzed |
|---|--------|-------|---------------|----------|---------|----|----------------------|
| INORGANIC ANIONS BY IC | | | E300 | | | | Analyst: GAR |
| Sulfate | 19.6 | 1.00 | | mg/L | | 1 | 3/2/2009 9:06:29 PM |
| HYDROGEN ION (PH)(150.1/SM4500 H+ B) | | | E150.1 | | | | Analyst: CG |
| pH | 6.93 | 0.01 | H | pH Units | | 1 | 2/27/2009 5:15:00 PM |

| | | | | |
|--------------------|---|--|---------|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| BRL | | Below Reporting Limit | E | Estimated value above quantitation range |
| H | | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| N | | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| S | | Spike Recovery outside limits due to matrix | | |

Analytical Environmental Services, Inc.

Date: 09-Mar-09

CLIENT: TN and Associates
Lab Order: 0902H36
Project: Barite Hills
Lab ID: 0902H36-007C

Client Sample ID: BHR-MC-010
Tag Number:
Collection Date: 2/26/2009 1:31:00 PM
Matrix: SURFACE WATER

| Analyses | Result | Limit | Qual | Units | BatchID | DF | Date Analyzed |
|---------------------------|--------|----------------|------|--------------------|---------|----|----------------------|
| METALS, DISSOLVED | | SW6010B | | (SAMP_FILT) | | | Analyst: TAA |
| Aluminum | 0.246 | 0.200 | | mg/L | 110321 | 1 | 3/6/2009 10:30:52 AM |
| Antimony | BRL | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:54:42 PM |
| Arsenic | BRL | 0.0500 | | mg/L | 110321 | 1 | 3/4/2009 4:54:42 PM |
| Barium | 0.0463 | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:54:42 PM |
| Beryllium | BRL | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:54:42 PM |
| Cadmium | BRL | 0.0050 | | mg/L | 110321 | 1 | 3/4/2009 4:54:42 PM |
| Calcium | 12.2 | 0.100 | | mg/L | 110321 | 1 | 3/4/2009 4:54:42 PM |
| Chromium | BRL | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:54:42 PM |
| Cobalt | BRL | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:54:42 PM |
| Copper | 0.0386 | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:54:42 PM |
| Iron | 0.533 | 0.100 | | mg/L | 110321 | 1 | 3/6/2009 10:30:52 AM |
| Lead | BRL | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:54:42 PM |
| Magnesium | 6.34 | 0.100 | | mg/L | 110321 | 1 | 3/4/2009 4:54:42 PM |
| Manganese | 0.166 | 0.0150 | | mg/L | 110321 | 1 | 3/4/2009 4:54:42 PM |
| Nickel | BRL | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:54:42 PM |
| Potassium | 0.707 | 0.500 | | mg/L | 110321 | 1 | 3/6/2009 10:30:52 AM |
| Selenium | BRL | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:54:42 PM |
| Silver | BRL | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:54:42 PM |
| Sodium | 7.56 | 1.00 | | mg/L | 110321 | 1 | 3/4/2009 4:54:42 PM |
| Thallium | BRL | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:54:42 PM |
| Vanadium | BRL | 0.0100 | | mg/L | 110321 | 1 | 3/4/2009 4:54:42 PM |
| Zinc | 0.0858 | 0.0200 | | mg/L | 110321 | 1 | 3/4/2009 4:54:42 PM |
| MERCURY, DISSOLVED | | SW7470A | | (SW7470) | | | Analyst: JY |
| Mercury | BRL | 0.00020 | | mg/L | 110465 | 1 | 3/2/2009 4:30:38 PM |

| | | | | |
|--------------------|---|--|---------|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| BRL | | Below Reporting Limit | E | Estimated value above quantitation range |
| H | | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| N | | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| S | | Spike Recovery outside limits due to matrix | | |

ATTACHMENT D
HASP

| HEALTH AND SAFETY PLAN FORM | | This document is for the exclusive use of TN&Associates its subcontractors, and EPA. | | TN & ASSOCIATES | | | |
|---|-------------------------------|---|-------------------------------|--|-----|-----------------|-----|
| TN&Associates Health and Safety Program | | | | Site Name: Barite Hill Nevada Goldfields | | | |
| PROJECT NAME: | Barite Hill Nevada Goldfields | DATE: | 6/10/2008 | | | | |
| PROJECT#: | 2005148 | CLIENT: | EPA | | | | |
| LOCATION: | McCormick, South Carolina | EPA CONTACT/PHONE #: | Leo Francendese, 404-562-8772 | | | | |
| | | LOCAL/SITE CONTACT PHONE #: | | | | | |
| INCIDENT DESCRIPTION: | | SOURCE OF PRELIMINARY INFORMATION: | | | | | |
| The OSC tasked START with conducting water sampling of the main pit lake and the creek to monitor metal concentrations and water quality parameters. | | ER Action Memo/ initial POLREP from epaosc.net website | | | | | |
| ANTICIPATED TASKS: | | TYPE: Check as many as applicable | | | | | |
| (e.g. collect surface soil samples): | | | | | | | |
| Take water quality measurements and samples of the liquid in the main pit and creek. | | Active | () | Landfill | () | Spill | () |
| | | Inactive | (X) | Uncontrolled | () | Fire | () |
| | | Secure | (X) | Industrial | () | Military | () |
| | | Unsecure | () | Recovery | (X) | Unknown | () |
| | | Enclosed space | () | Well Field | () | Other (specify) | () |
| DESCRIPTION AND FEATURES: | | Include principal operations and unusual features (containers, buildings, dikes, power lines, hillslopes, rivers, etc.) | | | | | |
| <p>The Barite Hill Nevada Goldfields site is located approximately 3 miles south of McCormick, SC between US 378 and US 221 on the northern side of Road 30 in McCormick County, SC. The mine site is relatively remote; there are no buildings, homes, or commercial buildings within 0.5 miles of the boundary. The site actively mined gold from 1991 to 1995. The site is located along a topographic high ridge area forming the headwaters of an unnamed tributary to Hawes Creek. The topography of the area consists of rolling hills with ridgelines at an elevation of about 500 feet. Within the site, the ridgeline comprising the site has a high point of about 510 feet and an average elevation of approximately 480 feet. Storm water run on and runoff are not controlled at the site. The Main Pit from the mining operations remains. The pit contains approximately 60 million gallons of water with an historic low pH of 2 and high dissolved metal content.</p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> | | | | | | | |
| SURROUNDING POPULATION: | | () Residential () Industrial () Commercial (X) Rural () Urban () Other: | | | | | |

HEALTH AND SAFETY PLAN FORM**TN & Associates Health and Safety Program**

*This document is for the exclusive
use of TN&Associates its subcontractors, and EPA.*

TN & ASSOCIATES**Site Name: Barite Hill Nevada Goldfields****HISTORY:**

Summarize conditions that relate to hazard. Include citizen complaints, spills, previous investigations or agency actions, known injuries, etc.

The site actively mined gold from 1991 to 1995. From 1995 until Nevada Goldfields filed for Chapter 7 Bankruptcy in 1999, the reclamation of the site was being addressed by Nevada Goldfields. On July 7, 1999 Nevada Goldfields handed the facility's keys to SCDHEC and abandoned the site. The facility used a cyanide solution in a heap leach process to extract gold from ore. There are 7 processing ponds onsite containing an unknown amount of free-liquids. Three large, multi-acre, waste rock piles contaminated with cyanide are left onsite. Each waste rock pile has the potential for producing acid. Storm water run on and runoff are not controlled at the site. The Main Pit from the mining operations remains. The pit contains approximately 60 million gallons of water with a pH of 2 ~ 2.2 and a high dissolved metal content. Seeps from the main pit containing acidic water with high dissolved metal content are being released to the northern unnamed tributaries of Hawes Creek which borders the pit. □

WASTE TYPES: (X) Liquid (X) Solid () Sludge () Gas () Unknown () Other:

WASTE CHARACTERISTICS: *Check as many as applicable.*

(X) Corrosive () Flammable () Radioactive

(X) Toxic () Volatile (X) Reactive

() Inert Gas () Unknown () Other, Specify: _____

WORK ZONES:

*Describe the Exclusion, Contamination Reduction, and Support
Zones in terms on-site personnel will recognize*

HAZARDS OF CONCERN:

(X) Heat Stress *attach guidelines* () Noise
(X) Cold Stress *attach guidelines* (X) Inorganic Chemicals
() Explosive/Flammable () Organic Chemicals
() Oxygen Deficient () Motorized Traffic
() Radiological () Heavy Machinery
() Biological (X) Slips, Trips, & Falls
() Other, Specify: _____

**FACILITY'S PAST AND PRESENT DISPOSAL METHODS
AND PRACTICES:**

None found

| | | | | | |
|--|---|---|--|---|---------------------------------------|
| HEALTH AND SAFETY PLAN FORM | | <i>This document is for the exclusive</i> | | TN & ASSOCIATES | |
| TN&Associates Health and Safety Program | | <i>use of TN&Associates its subcontractors, and EPA.</i> | | Site Name: Barite Hill Nevada Goldfields | |
| HAZARDOUS MATERIAL SUMMARY: <i>Circle waste type and estimate amounts by category.</i> | | | | | |
| CHEMICALS: <i>Amount/Units:</i> | SOLIDS: <i>Amount/Units:</i> Metals unknown | SLUDGES: <i>Amount/Units:</i> Inorganic unknown | SOLVENTS: <i>Amount/Units:</i> | OILS: <i>Amount/Units:</i> | OTHER: <i>Amount/Units:</i> |
| OVERALL HAZARD EVALUATION: <input type="checkbox"/> High <input checked="" type="checkbox"/> Medium <input type="checkbox"/> Low <input type="checkbox"/> Unknown JUSTIFICATION: Stabilization of Main Pit lake for pyrite contact with liquid. | | | | | |
| FIRE/EXPLOSION POTENTIAL: <input type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low <input checked="" type="checkbox"/> Unknown | | | | | |
| INFORMATION COMPLETE: <input type="checkbox"/> Complete <input type="checkbox"/> Incomplete <input checked="" type="checkbox"/> Best Available at Current Time | | | | | |

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|---|--|--|-----------------------------------|---|----------------------------------|
| HEALTH AND SAFETY PLAN FORM | | This document is for the exclusive use of TN&Associates its subcontractors, and EPA. | | TN & ASSOCIATES | |
| TN & Associates Health and Safety Program | | Site Name: Barite Hill Nevada Goldfields | | | |
| KNOWN CONTAMINANTS | NIOSH REL (ST if Available) ppm or mg/m3 (specify) | OSHA PEL (ST if Available) ppm or mg/m3 (specify) | IDLH ppm or mg/m3 (specify) | SYMPTOMS & EFFECTS OF ACUTE EXPOSURE | PHOTO IONIZATION POTENTIAL |
| | | | | | |
| NA = Not Available | | NE = None Established | | U = Unknown | |
| S = Soil | | SW = Surface Water | | T = Tailings | |
| A = Air | | GW = Ground Water | | SL = Sludge | |
| | | W = Waste | | SD = Sediment | |
| | | D = Drums | | OFF = Off-Site | |
| Attach, to this plan, an MSDS for each chemical you will use at the site. | | | | | |

| HEALTH AND SAFETY PLAN FORM | | This document is for the exclusive use of TN&Associates its subcontractors, and EPA. | | TN & ASSOCIATES Site Name: Barite Hill Nevada Goldfields | |
|---|---|---|---|---|--------------------------------|
| Task Description / PPE / Personnel & Responsibilities (attach additional sheets as necessary) | | | | | |
| Task 1 Description | Site liquid sampling/In-situ monitoring | | | Type Intrusive | Hazard Schedule High |
| Primary Level Modified D | Respiratory: APR combo Eyewear: Safety Glasses Hard Hat Boots: Steel-Toe Latex Bootie Gloves: Inner: Nitrile Outer: | Contingency Level Modified D To C | Respiratory: APR combo Eyewear: Safety Glasses Hard Hat Boots: Steel-Toe Latex Bootie Gloves: Inner: Nitrile Outer: | | |
| PPE: | Clothing: Tyvek Coverall | PPE: | Clothing: Tyvek Coverall | | |
| Task 2 Description | | | | Type | Hazard Schedule |
| Primary Level | Respiratory: _____ Eyewear: _____ Boots: _____ Gloves: _____ | Contingency Level | Respiratory: _____ Eyewear: _____ Boots: _____ Gloves: _____ | | |
| PPE: | Clothing: _____ | PPE: | Clothing: _____ | | |
| Task 3 Description | | | | Type | Hazard Schedule |
| Primary Level | Respiratory: _____ Eyewear: _____ Boots: _____ Gloves: _____ | Contingency Level | Respiratory: _____ Eyewear: _____ Boots: _____ Gloves: _____ | | |
| PPE: | Clothing: _____ | PPE: | Clothing: _____ | | |
| Task 4 Description | | | | Type | Hazard Schedule |
| Primary Level | Respiratory: _____ Eyewear: _____ Boots: _____ Gloves: _____ | Contingency Level | Respiratory: _____ Eyewear: _____ Boots: _____ Gloves: _____ | | |
| PPE: | Clothing: _____ | PPE: | Clothing: _____ | | |
| PERSONNEL AND RESPONSIBILITIES | | | | | |
| Name | Company/Agency | Training | Responsibilities | | |
| Jorge Sanchez | TN&A | OSHA | Safety and Health | | |
| Russell Henderson | TN&A | OSHA | Safety and Health | | |
| Dannena Bowman | TN&A | OSHA | Safety and Health | | |
| | | | | | |
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| HEALTH AND SAFETY PLAN FORM | | <i>This document is for the exclusive use of TN&Associates its subcontractors, and EPA</i> | | TN & ASSOCIATES |
|--|--------------------------------|--|---------------------------|----------------------------|
| TN & Associates Health and Safety Program | | Site Name: Barite Hill Nevada Goldfields | | |
| Monitoring Equipment: | | Specify by task. Indicate type as necessary. Attach additional sheets if needed. | | |
| Tasks: 1 | Instrument: pH Meter | Level: | Action Guidelines: | Comments: |
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| Tasks: | Instrument: | Level: | Action Guidelines: | Comments: |
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| Tasks: | Instrument: | Level: | Action Guidelines: | Comments: |
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| HEALTH AND SAFETY PLAN FORM | | <i>This document is for the exclusive use of TN&Associates its subcontractors, and EPA.</i> | | TN & ASSOCIATES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------------------------------|--|--|----------------------------|--|--------------------|-------|----------------|---------------------------|------------------|--------------|------------------------------|-------------------|----------------------------|-------------------------|--------------------|----------------------|--------------------------|--|--|-----------------------------|--|--|--------------|--|--|--------------------|--|--|-----------------|--|-----|-------------------|--|-----|--------------|--|-----|-------------------|--|--|-----------------------|--|--------------|------------------------|--------------------------------------|--------------|
| TN&Associates Health and Safety Program | | Site Name: Barite Hill Nevada Goldfields | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EMERGENCY CONTACTS Site Telephone _____ EPA Release Report # _____ TN&Assoc 24-Hr Emergency # 678-255-5538 Facility Management _____ Other (specify) _____ CHEMTREC Emergency #: 1-800-424-9300 | | <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left; width: 60%;">EMERGENCY CONTACTS</th> <th style="text-align: left; width: 20%;">NAME</th> <th style="text-align: left; width: 20%;">PHONE</th> </tr> <tr> <td>Health and Safety Manager</td> <td>Bill Fink</td> <td>414-234-7845</td> </tr> <tr> <td>Project Manager</td> <td>Russell Henderson</td> <td>678-255-6156</td> </tr> <tr> <td>Site Safety Coordinator</td> <td>Jorge Sanchez</td> <td>678-255-5538</td> </tr> <tr> <td>Client Contact (EPA RPM)</td> <td></td> <td></td> </tr> <tr> <td>Other (EPA HRS coordinator)</td> <td></td> <td></td> </tr> <tr> <td>State Agency</td> <td></td> <td></td> </tr> <tr> <td>State Spill Number</td> <td></td> <td></td> </tr> <tr> <td>Fire Department</td> <td></td> <td>911</td> </tr> <tr> <td>Police Department</td> <td></td> <td>911</td> </tr> <tr> <td>State Police</td> <td></td> <td>911</td> </tr> <tr> <td>Health Department</td> <td></td> <td></td> </tr> <tr> <td>Poison Control Center</td> <td></td> <td>800-848-6946</td> </tr> <tr> <td>Occupational Physician</td> <td>Dr. Jerry Berke, Health Resources</td> <td>800-350-4511</td> </tr> </table> | | | | EMERGENCY CONTACTS | NAME | PHONE | Health and Safety Manager | Bill Fink | 414-234-7845 | Project Manager | Russell Henderson | 678-255-6156 | Site Safety Coordinator | Jorge Sanchez | 678-255-5538 | Client Contact (EPA RPM) | | | Other (EPA HRS coordinator) | | | State Agency | | | State Spill Number | | | Fire Department | | 911 | Police Department | | 911 | State Police | | 911 | Health Department | | | Poison Control Center | | 800-848-6946 | Occupational Physician | Dr. Jerry Berke, Health Resources | 800-350-4511 |
| EMERGENCY CONTACTS | NAME | PHONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Health and Safety Manager | Bill Fink | 414-234-7845 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Manager | Russell Henderson | 678-255-6156 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site Safety Coordinator | Jorge Sanchez | 678-255-5538 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Client Contact (EPA RPM) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Other (EPA HRS coordinator) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| State Agency | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| State Spill Number | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fire Department | | 911 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Police Department | | 911 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| State Police | | 911 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Health Department | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Poison Control Center | | 800-848-6946 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Occupational Physician | Dr. Jerry Berke, Health Resources | 800-350-4511 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONTINGENCY PLANS: <i>Summarize below</i> Contact corporate Health and Safety officer, William Fink, at 414-234-7845 | | <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left; width: 80%;">MEDICAL EMERGENCY</th> <th style="text-align: left; width: 20%;">PHONE</th> </tr> <tr> <td>Hospital Name:</td> <td></td> </tr> <tr> <td>Hospital Address</td> <td></td> </tr> <tr> <td>Name of Contact at Hospital:</td> <td></td> </tr> <tr> <td>Name of 24-Hour Ambulance:</td> <td></td> </tr> <tr> <td>Route to Hospital:</td> <td>(see attached sheet)</td> </tr> </table> | | | | MEDICAL EMERGENCY | PHONE | Hospital Name: | | Hospital Address | | Name of Contact at Hospital: | | Name of 24-Hour Ambulance: | | Route to Hospital: | (see attached sheet) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEDICAL EMERGENCY | PHONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hospital Name: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hospital Address | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Name of Contact at Hospital: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Name of 24-Hour Ambulance: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Route to Hospital: | (see attached sheet) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HEALTH AND SAFETY PLAN APPROVALS Prepared by _____ Date _____ DHSC Signature _____ Date _____ HSM Signature _____ Date _____ | | Distance to Hospital _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

HEALTH AND SAFETY PLAN SIGNATURE FORM

TN & Associates Health and Safety Program

All site personnel must sign this form indicating receipt of the H&SP. Keep this original on site. It becomes part of the permanent project files. Send a copy to the Health and Safety Manager (HSM).

SITE NAME/NUMBER: Barite Hill Nevada Goldfields / 2005148

DIVISION/LOCATION: T N & Associates, Marietta, GA.

DATE: _____

I understand, and agree to comply with, the provisions of the above referenced H&SP for work activities on this project. I agree to report any injuries, illnesses or exposure incidents to the site Health and Safety Coordinator (SHSC). I agree to inform the SHSC about any drugs (legal and illegal) that I take within three days of site work.

| PRINTED NAME | SIGNATURE | DATE |
|--------------|-----------|------|
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