

October 6, 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:

Oneida Total Integrated Enterprises (OTIE), 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), Hawes Creek tributary (the creek), and monitoring wells located on-site, south of the Main Pit lake. A site location map is provided in Attachment A. Two samples were collected from the lake, one sample was collected at seep location 0 along the creek, and samples were collected from monitoring wells (MW) 1 and MW-2. Water quality parameters were prior to water sampling. Water quality parameters from August 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 Health and Safety Plan (HASP) can be found in Attachment D.

Surface Water Sampling Letter Report Barite Hills site Page 2 of 3

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 August 29, 2009, START conducted surface water and monitoring well sampling. The investigation consisted of measuring water quality and collecting water samples from the lake, nearby creek, and monitoring wells. A HASP was developed for the site prior to fieldwork activities.

START collected two samples from the lake, one sample from the creek, and one sample from MW-1 (Figure 1). MW-2 was not available for sampling. 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-015 was collected one meter below the lake water surface and BHR-MPB-015 was collected one meter from the bottom of the lake using a Bacon Bomb. BHR-S0-015 was collected adjacent to the spillway along the creek (Seep 0). Sample BHR-MW1-002 was collected from MW-1, located just south of the lake. Lake samples were analyzed by Analytical Environmental Services, Inc. (AES) for various parameters including dissolved target analyte list (TAL) metals, total TAL metals, total organic carbon, pH, alkalinity, ferric/ferrous speciation, and total dissolved solids (TDS). The creek sample was analyzed for total metals only, and MW-1 was sampled for total metals, pH, ferric/ferrous speciation, TDS, ammonia, nitrate, sulfate, and total acidity. 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

Tables 2, 3, and 4 are analytical comparisons of the lake surface, lake bottom, and creek respectively, from June 2008 through August 2009 of potentially applicable standards, including priority and non-priority pollutants. Table 5 is the analytical comparison of the

Surface Water Sampling Letter Report Barite Hills site Page 3 of 3

monitoring wells. Graph 1 illustrates the lake surface dissolved metal concentrations over time. Graph 2 is a close up of Graph 1, detailing the 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. 5707.

Sincerely,

Russell Henderson Project Manager

Oneida Total Integrated Enterprises (OTIE)

Superfund Technical Assessment and Response Team (START)

Enclosures

Attachment A – Figures

Attachment B – Tables & Graphs

Russell Hond

Attachment C – Analytical Data

Attachment D – HASP

ATTACHMENT A FIGURES



Legend



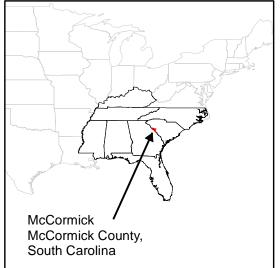
Monitoring Well

Note:

MW - Monitoring Well MPS - Mine Pit Surface MPB - Mine Pit Bottom
BHR - Barite Hills Removal

Feet 140 70

280





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

FIGURE 1 SAMPLE LOCATIONS **AUGUST 2009**



ATTACHMENT B TABLES & GRAPHS

Nov. 19/21, 2008 YSI 5200

Main Pit Lake

| Depth (m) | рН | 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 | рН | pH ORP (mV) | | DRP (mV) DO (mg/L) Temp (°C) (| |
|----------|------|-------------|------|--------------------------------|-------|
| 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) | рН | 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 |

Feb. 7, 2009

Horbia U-22XD

Main Pit Lake

| Depth (m) | рН | ORP (mV) | DO (mg/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 | рН | 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) | pН | ORP (mV) | DO (mg/L) | Temp (°C) | Conductivity (mS/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 |

SE Corner of Lake

| Depth (m) | pН | ORP (mV) | DO (mg/L) | Temp (°C) | Conductivity (mS/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

| OVV COINE OF Lake | | | | | | | | | |
|-------------------|------|----------|-----------|-----------|----------------------|--|--|--|--|
| Depth (m) | рН | ORP (mV) | DO (mg/L) | Temp (°C) | Conductivity (mS/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 | рН | ORP (mV) | DO (mg/L) | Temp (°C) | Conductivity (mS/cm) |
|---|----------|------|----------|-----------|-----------|----------------------|
| Ĭ | 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 |
| ĺ | 2 | 3.09 | 383 | 7.91 | 14.5 | 0.23 |
| ĺ | 3 | 3.77 | 368 | 7.15 | 14 | 64.9 |

Apr. 08, 2009 Horbia U-22XD

Main Pit Lake ORP (mV) DO (mg/L) Temp (°C) Conductivity (mS/cm) Turbidity (NTU) Depth (m) рΗ 0.5 12.9 20.5 3.83 231 6.27 1.15 5.07 -43 19.5 1 5.02 12.8 1.14 2 -43 5.17 1.48 12.6 1.06 13.4 3 -43 0.00 5.22 10.7 1.1 8.9 4 5.24 -45 0.00 10.5 1.13 8.1 5 5.26 -48 0.00 10.4 1.15 9.0 6 5.26 -49 0.00 10.4 1.19 9.3 7 5.26 -49 0.00 10.3 1.25 11.3 8 -51 5.27 0.00 10.3 1.3 11.5 9 5.26 -51 0.00 10.3 1.33 14.5 10 5.27 -52 0.00 10.3 1.38 14.4 0.00 47.4 11 5.31 -57 10.3 1.48 12 -57 0.00 0.999 128 5.31 10.3 offscale 13 5.33 -60 0.00 10.3 0.889 14 5.37 -60 0.00 10.3 0.832 offscale 15 6.13 -182 0.00 10.4 0.777 offscale

Creeks

| Location | рН | ORP (mV) | DO (mg/L) | Temp (°C) | Conductivity (mS/cm) | Turbidity (NTU) |
|----------|------|----------|-----------|-----------|----------------------|-----------------|
| 0 | 4.33 | 207 | 11.63 | 11.4 | 0.181 | 50 |
| 1 | 4.73 | 179 | 11.43 | 11 | 33.7 | 42.9 |
| 2 | 3.36 | 317 | 10.26 | 12.2 | 0.135 | 17.7 |
| 3 | 4.14 | 296 | 9.35 | 11.8 | 50.3 | 22.2 |

May 15, 2009

Horbia U-22

Main Pit Lake

| Depth (m) | pН | ORP (mV) | DO (mg/L) | Temp (°C) | Conductivity (mS/cm) | Turbidity (NTU) |
|-----------|------|----------|-----------|-----------|----------------------|-----------------|
| 1 | 3.14 | 259 | 3.98 | 23.9 | 0.357 | 33.0 |
| 2 | 5.05 | -104 | 0.00 | 17.2 | 0.442 | 32.6 |
| 3 | 5.04 | -92 | 0.00 | 12.6 | 0.447 | 25.3 |
| 4 | 5.03 | -88 | 0.00 | 11.7 | 0.452 | 26.0 |
| 5 | 5.03 | -86 | 0.00 | 11.4 | 0.437 | 27.6 |
| 6 | 5.05 | -88 | 0.00 | 11.3 | 0.463 | 31.0 |
| 7 | 5.04 | -85 | 0.00 | 11.3 | 0.469 | 32.4 |
| 8 | 5.05 | -87 | 0.00 | 11.2 | 0.477 | 32.1 |
| 9 | 5.05 | -86 | 0.00 | 11.2 | 0.485 | 33.8 |
| 10 | 5.06 | -87 | 0.00 | 11.2 | 0.493 | 35.7 |
| 11 | 5.05 | -88 | 0.00 | 11.2 | 0.502 | 35.6 |
| 12 | 5.08 | -90 | 0.00 | 11.2 | 0.515 | 41.4 |
| 13 | 5.10 | -93 | 0.00 | 11.2 | 0.535 | 75.7 |
| 14 | 5.18 | -101 | 0.03 | 11.2 | 0.554 | 269 |
| 15 | 5.94 | -195 | 0.22 | 11.3 | 0.588 | offscale |

Creeks

| Location | рН | ORP (mV) | DO (mg/L) | Temp (°C) | Conductivity (mS/cm) | Turbidity (NTU) |
|----------|------|----------|-----------|-----------|----------------------|-----------------|
| 0 | 2.96 | 374 | 10.02 | 19.0 | 0.112 | 29.9 |
| 1 | 2.36 | 429 | 2.82 | 18.0 | 0.293 | 30.2 |
| 2 | 2.41 | 421 | 5.95 | 18.2 | 0.236 | 23.9 |
| 3 | 2.85 | 351 | 4.64 | 18.0 | 0.128 | 39.7 |

June 18, 2009

Horbia U-22

Main Pit Lake

| Depth (m) | pН | ORP (mV) | DO (mg/L) | Temp (°C) | Conductivity (mS/cm) | Turbidity (NTU) |
|-----------|------|----------|-----------|-----------|----------------------|-----------------|
| Surface | 3.24 | 282 | 7.36 | 30.0 | 3.27 | offscale |
| 0.25 | 3.24 | 280 | 7.20 | 30.0 | 3.27 | offscale |
| 0.50 | 3.23 | 275 | 6.98 | 30.0 | 3.28 | offscale |
| 0.75 | 3.26 | 257 | 6.01 | 29.9 | 3.28 | 15.5 |
| 1 | 5.18 | -63 | 1.36 | 27.9 | 3.57 | 13.5 |
| 2 | 5.17 | -82 | 1.68 | 17.9 | 3.80 | 14.9 |
| 3 | 5.19 | -70 | 1.32 | 14.1 | 3.71 | 15.8 |
| 4 | 5.17 | -54 | 1.42 | 13.2 | 3.73 | 12.3 |
| 5 | 5.17 | -50 | 1.48 | 13.1 | 3.69 | 11.3 |
| 6 | 5.17 | -48 | 1.50 | 12.9 | 3.68 | 13.4 |
| 7 | 5.17 | -48 | 1.54 | 12.9 | 3.68 | 13.7 |
| 8 | 5.17 | -47 | 1.61 | 12.9 | 3.67 | 12 |
| 9 | 5.18 | -47 | 1.60 | 12.9 | 3.67 | 14.5 |
| 10 | 5.19 | -47 | 1.60 | 12.8 | 3.67 | 13.5 |
| 11 | 5.21 | -48 | 1.28 | 12.8 | 3.66 | 15.3 |
| 12 | 5.23 | -50 | 0.00 | 12.8 | 3.65 | 19.6 |
| 13 | 5.65 | -66 | 0.00 | 12.8 | 3.62 | 16.8 |
| 14 | 5.63 | -176 | 0.00 | 12.9 | 3.00 | offscale |
| 15 | 5.58 | -167 | 0.00 | 13.0 | 3.05 | offscale |

Creeks

| Location | рН | ORP (mV) | DO (mg/L) | Temp (°C) | Conductivity (mS/cm) | Turbidity (NTU) |
|----------|------|----------|-----------|-----------|----------------------|-----------------|
| 0 | 3.63 | 244 | 11.18 | 25.2 | 1.55 | offscale |
| 1 | 2.96 | 349 | 11.49 | 21.8 | 0.394 | offscale |
| 2 | 3.31 | 297 | 11.22 | 22.0 | 0.242 | offscale |
| 3 | 4.06 | 158 | 10.1 | 22.1 | 0.163 | offscale |

July 24, 2009

Horbia U-22

Main Pit Lake

| Depth (m) | рΗ | ORP (mV) | DO (mg/L) | Temp (°C) | Conductivity (mS/cm) | Turbidity (NTU) |
|-----------|------|----------|-----------|-----------|----------------------|-----------------|
| Surface | 8.72 | -156 | 2.7 | 29.1 | 3.9 | 1.9 |
| 0.50 | 8.67 | -166 | 2.55 | 28.2 | 3.89 | 2.3 |
| 1 | 8.59 | -180 | 2.51 | 27.9 | 3.9 | 1.0 |
| 2 | 8.35 | -198 | 2.19 | 27.7 | 3.88 | 1.8 |
| 3 | 8.03 | -248 | 1.13 | 27.5 | 3.9 | 2.2 |
| 4 | 6.15 | -171 | 0.00 | 15.7 | 3.93 | 652.0 |
| 5 | 6.16 | -170 | 0.00 | 14.2 | 3.93 | 653.0 |
| 6 | 6.15 | -170 | 0.00 | 14.2 | 3.93 | 652.0 |
| 7 | 6.16 | -170 | 0.00 | 14.2 | 3.93 | 650 |
| 8 | 6.16 | -171 | 0.00 | 14.2 | 3.93 | 671 |
| 9 | 6.17 | -172 | 0.00 | 14.2 | 3.93 | 638 |
| 10 | 6.17 | -172 | 0.00 | 14.2 | 3.93 | 654 |
| 11 | 6.18 | -173 | 0.00 | 14.2 | 3.93 | 634 |
| 12 | 6.18 | -174 | 0.00 | 14.1 | 3.93 | 626 |
| 13 | 6.18 | -174 | 0.00 | 14.1 | 3.94 | 594 |
| 14 | 6.17 | -173 | 0.00 | 14 | 3.97 | 591 |
| 15 | 6.21 | -171 | 0.00 | 13.8 | 4.04 | offscale |

Creeks

| Location | рН | ORP (mV) | DO (mg/L) | Temp (°C) | Conductivity (mS/cm) | Turbidity (NTU) |
|----------|------|----------|-----------|-----------|----------------------|-----------------|
| 0 | 3.03 | 419 | 3.46 | 25.8 | 2.67 | 0.3 |

Monitoring Wells

| Location | рН | ORP (mV) | DO (mg/L) | Temp (°C) | Conductivity (mS/cm) | Turbidity (NTU) |
|----------|------|----------|-----------|-----------|----------------------|-----------------|
| MW-1 | 2.86 | 280 | 2.06 | 20.9 | 10.6 | 0 |
| MW-2 | 3.81 | 205 | 1.58 | 20.1 | 11.4 | 0 |

August 29, 2009

Horbia U-22

Main Pit Lake

| Depth (m) | pН | ORP (mV) | DO (mg/L) | Temp (°C) | Conductivity (mS/cm) | Turbidity (NTU) |
|-----------|------|----------|-----------|-----------|----------------------|-----------------|
| Surface | 6.06 | -62 | 4.46 | 28.1 | 3.86 | 0.2 |
| 1 | 6.04 | -64 | 4.22 | 28 | 3.86 | 9.5 |
| 2 | 6 | -71 | 3.97 | 28 | 3.86 | 0 |
| 3 | 5.7 | -190 | 0.00 | 21.8 | 3.93 | 5.9 |
| 4 | 5.54 | -155 | 0.00 | 16.9 | 3.92 | 11.1 |
| 5 | 5.54 | -149 | 0.00 | 16 | 3.93 | 11.1 |
| 6 | 5.54 | -146 | 0.00 | 15.8 | 3.92 | 10.5 |
| 7 | 5.54 | -144 | 0.00 | 15.7 | 3.92 | 9.4 |
| 8 | 5.55 | -146 | 0.00 | 15.7 | 3.92 | 9.3 |
| 9 | 5.57 | -146 | 0.00 | 15.6 | 3.92 | 10.1 |
| 10 | 5.6 | -149 | 0.00 | 15.6 | 3.92 | 11 |
| 11 | 5.63 | -155 | 0.00 | 15.6 | 3.91 | 9.1 |
| 12 | 5.69 | -170 | 0.00 | 15.6 | 3.9 | 903 |
| 13 | 5.58 | -205 | 0.00 | 15.5 | 3.82 | offscale |
| 14 | 5.53 | -201 | 0.00 | 15.4 | 3.69 | 673 |
| 15 | 5.52 | -199 | 0.00 | 15.3 | 3.37 | offscale |

Creeks

| Location | рН | ORP (mV) | DO (mg/L) | Temp (°C) | Conductivity (mS/cm) | Turbidity (NTU) |
|----------|------|----------|-----------|-----------|----------------------|-----------------|
| 0 | 3.79 | 0.1 | 7.15 | 24.4 | 2.66 | 0 |

Monitoring Wells

| Location | рН | ORP (mV) | DO (mg/L) | Temp (°C) | Conductivity (mS/cm) | Turbidity (NTU) |
|----------|------|----------|----------------|-----------|----------------------|-----------------|
| MW-1 | 1.71 | 267 | 1.83 19.1 19.3 | | offscale | |
| MW-2 | 3.79 | NR | NR | NR | 2 | NR |

^{*} NR = Not recorded

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 |
|---------------------|---------------------|------------------------|--------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | MCL | CMC | CCC | BHB-005 | BHT-001 | BHR-5-001 | BRR-JR-LAKE | | BHR-MP05-110608 |
| | | • | | Pit Water | Pit water treated |
| Potentially Applic | able Standards (pri | ority pollutants) | | Untreated (mg/L) | (Total, mg/L) | (Dissolved, mg/L) | (Dissolved, mg/L) | (Dissolved, mg/L) | (Dissolved, mg/L) |
| Antimony | 0.006 | NSA | NSA | 0.02 | NA | 0.006 | 0.2 | 0.2 | BRL* |
| Arsenic | 0.01 | 0.34 | 0.15 | 0.968 | NA | BRL† | BRL† | BRL† | BRL† |
| Cadmium | 0.005 | 0.008 | 0.0026 | 1.57 | NA | BRL# | BRL# | BRL# | BRL# |
| Chromium | 0.1 | 0.57 | 0.074 | 0.141 | NA | BRL† | BRL† | BRL† | BRL† |
| Copper | 1 | 0.057 | 0.039 | 287 | NA | BRL† | BRL† | BRL† | BRL† |
| Lead | 0.015 | 0.32 | 0.005 | 0.161 | NA | BRL† | BRL† | BRL† | 0.0381 |
| Nickel | 0.61 | 1.071 | 0.167 | 0.404 | NA | 0.163 | BRL* | BRL* | BRL* |
| Selenium | 0.05 | NSA | 0.005 | 0.23 | NA | 0.022 | 0.028 | 0.01 | BRL* |
| Zinc | 5 | 0.339 | 0.339 | 40.2 | NA | 1.44 | BRL* | BRL* | 0.132 |
| Potentially Applic | able Standards (noi | n-priority pollutants) | | | | | | | |
| Aluminum | 0.2 | 0.75 | 0.087 | 224 | NA | 0.347 | BRL§ | BRL§ | 0.342 |
| Iron | 0.3 | | 1 | 1150 | 121 | 309 | 322 | 287 | 148 |
| Manganese | 0.05-0.1 | | | 13.6 | NA | 10.6 | 11 | 11.7 | 8.96 |
| Ferrous Iron (mg/L) | | | | | | | | | |
| Iron, Ferric (+3) | 0.3 | NSA | 1 | NA | BRL⁰ | NA | NA | NA | BRL⁰ |
| Iron, Ferrous (+2) | 0.3 | NSA | 1 | NA | 145 | NA | NA | NA | 217 |

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 contaminent level

CMC - Criterion maximum concentration

CCC - Criterion continuous concentration

mg/L - Milligrams per liter

NSA - Standard not availabe

BRL - Below reporting limit

* - Reporting limit 0.02

† - Reporting limit 0.01

‡ - Reporting limit 0.05

- Reporting limit 0.005

§ - Reporting limit 0.2

o - Reporting limit 0.1

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

Table 2 Pit Lake Surface Potentially Applicable Standards Comparison

| | Human Health | SCDHEC WQC | under R61-68 | Nov. 19, 2008 | Dec. 16, 2008 | Jan. 30, 2009 | Feb. 26, 2009 | Apr. 08, 2009 | May 15, 2009 |
|--------------------|---------------------|------------------------|--------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | MCL | CMC | CCC | BHR-MPS-001 | BHR-MPS-006 | BHR-MPS-006 | BHR-MPS-010 | BHR-MPS-011 | BHR-MPS-012 |
| | | • | | Pit water treated |
| Potentially Applic | able Standards (pri | ority pollutants) | | (Dissolved, mg/L) |
| Antimony | 0.006 | NSA | NSA | 0.257 | BRL* | BRL* | BRL* | 0.0045 | 0.0039 |
| Arsenic | 0.01 | 0.34 | 0.15 | BRL‡ | BRL‡ | BRL‡ | BRL‡ | BRL‡ | BRL‡ |
| Cadmium | 0.005 | 0.008 | 0.0026 | BRL# | BRL# | BRL# | BRL# | BRL# | BRL# |
| Chromium | 0.1 | 0.57 | 0.074 | BRL† | BRL† | BRL† | BRL† | 0.0013 | 0.0015 |
| Copper | 1 | 0.057 | 0.039 | BRL† | 0.0278 | 0.0293 | BRL† | 0.0572 | 0.138 |
| Lead | 0.015 | 0.32 | 0.005 | 0.0353 | BRL† | BRL† | 0.0427 | BRL† | 0.0024 |
| Nickel | 0.61 | 1.071 | 0.167 | BRL* | BRL* | BRL* | BRL* | 0.005 | 0.0033 |
| Selenium | 0.05 | NSA | 0.005 | BRL* | BRL* | BRL* | BRL* | BRL* | BRL* |
| Zinc | 5 | 0.339 | 0.339 | 0.118 | 0.061 | 0.0628 | 0.0685 | 0.0748 | 0.106 |
| Potentially Applic | able Standards (noi | n-priority pollutants) | | | | | | | |
| Aluminum | 0.2 | 0.75 | 0.087 | 0.257 | 0.314 | BRL§ | BRL§ | 0.177 | 0.459 |
| Iron | 0.3 | | 1 | 169 | 212 | 165 | 186 | 151 | 77.8 |
| Manganese | 0.05-0.1 | | | 9.33 | 11.2 | 10.2 | 10.7 | 10.8 | 10.3 |
| Ferrous Iron (mg/ | Ferrous Iron (mg/L) | | | | | | | | |
| Iron, Ferric (+3) | 0.3 | NSA | 1 | 37.2 | BRL⁰ | BRL⁰ | 28.5 | 55.7 | 2.05 |
| Iron, Ferrous (+2) | 0.3 | NSA | 1 | 191 | 305 | 209 | 194 | 103 | 75.7 |

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 contaminent level

CMC - Criterion maximum concentration

CCC - Criterion continuous concentration

mg/L - Milligrams per liter

NSA - Standard not availabe

BRL - Below reporting limit

* - Reporting limit 0.02

† - Reporting limit 0.01

‡ - Reporting limit 0.05

- Reporting limit 0.005

§ - Reporting limit 0.2

o - Reporting limit 0.1

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

Table 2 Pit Lake Surface Potentially Applicable Standards Comparison

| | Human Health | SCDHEC WQC | under R61-68 | June 18, 2009 | July 24, 2009 | August 29, 2009 |
|--------------------|----------------------|------------------------|--------------|-------------------|-------------------|-------------------|
| | MCL | CMC | CCC | BHR-MPS-013 | BHR-MPS-014 | BHR-MPS-015 |
| | | | | Pit water treated | Pit water treated | Pit water treated |
| Potentially Applic | able Standards (pric | ority pollutants) | | (Dissolved, mg/L) | (Dissolved, mg/L) | (Dissolved, mg/L) |
| Antimony | 0.006 | NSA | NSA | 0.0051 | | |
| Arsenic | 0.01 | 0.34 | 0.15 | BRL‡ | | |
| Cadmium | 0.005 | 0.008 | 0.0026 | BRL# | | |
| Chromium | 0.1 | 0.57 | 0.074 | BRL† | | |
| Copper | 1 | 0.057 | 0.039 | 0.145 | BRL† | 0.00603 |
| Lead | 0.015 | 0.32 | 0.005 | 0.0049 | | |
| Nickel | 0.61 | 1.071 | 0.167 | 0.0026 | | |
| Selenium | 0.05 | NSA | 0.005 | BRL* | BRL* | BRL# |
| Zinc | 5 | 0.339 | 0.339 | 0.117 | BRL* | BRL† |
| Potentially Applic | able Standards (noi | n-priority pollutants) | | | | |
| Aluminum | 0.2 | 0.75 | 0.087 | 0.622 | | |
| Iron | 0.3 | | 1 | 64.8 | BRL⁰ | BRL⁰ |
| Manganese | 0.05-0.1 | | | 9.27 | 3.48 | 5.91 |
| Ferrous Iron (mg/ | L) | | | | | |
| Iron, Ferric (+3) | 0.3 | NSA | 1 | 102 | 0.475 | BRL⁰ |
| Iron, Ferrous (+2) | 0.3 | NSA | 1 | 68.2 | BRL⁰ | BRL⁰ |

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 contaminent level

CMC - Criterion maximum concentration

CCC - Criterion continuous concentration

mg/L - Milligrams per liter

NSA - Standard not availabe

BRL - Below reporting limit

* - Reporting limit 0.02

† - Reporting limit 0.01

‡ - Reporting limit 0.05

- Reporting limit 0.005

§ - Reporting limit 0.2

o - Reporting limit 0.1

Yellow - Exceeds one criteria (Human Health Standard or 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 | Apr. 08, 2009 |
|--------------------|----------------------|------------------------|--------------|------------------|-------------------|-------------------|-------------------|
| | MCL | CMC | CCC | BHB-005 | BHR-MPSB-008 | BHR-MPB-010 | BHR-MPB-011 |
| | | | | Pit Water | Pit water treated | Pit water treated | Pit water treated |
| Potentially Applic | cable Standards (pri | ority pollutants) | | Untreated (mg/L) | (Dissolved, mg/L) | (Dissolved, mg/L) | (Dissolved, mg/L) |
| Antimony | 0.006 | NSA | NSA | 0.02 | BRL* | BRL* | BRL* |
| Arsenic | 0.01 | 0.34 | 0.15 | 0.968 | BRL‡ | BRL‡ | BRL‡ |
| Cadmium | 0.005 | 0.008 | 0.0026 | 1.57 | BRL# | BRL# | BRL# |
| Chromium | 0.1 | 0.57 | 0.074 | 0.141 | BRL† | BRL† | 0.0019 |
| Copper | 1 | 0.057 | 0.039 | 287 | 0.0189 | 0.0284 | 0.0052 |
| Lead | 0.015 | 0.32 | 0.005 | 0.161 | BRL† | 0.036 | BRL† |
| Nickel | 0.61 | 1.071 | 0.167 | 0.404 | BRL* | BRL* | 0.0067 |
| Selenium | 0.05 | NSA | 0.005 | 0.23 | BRL* | BRL* | BRL* |
| Zinc | 5 | 0.339 | 0.339 | 40.2 | 0.0676 | 0.0601 | 0.112 |
| Potentially Applic | cable Standards (noi | n-priority pollutants) | | | | | |
| Aluminum | 0.2 | 0.75 | 0.087 | 224 | 0.38 | BRL§ | 0.193 |
| Iron | 0.3 | | 1 | 1150 | 217 | 178 | 187 |
| Manganese | 0.05-0.1 | | | 13.6 | 11.4 | 10.6 | 11.1 |
| Ferrous Iron (mg | /L) | | | | | | |
| Iron, Ferric | 0.3 | NSA | 1 | | BRL⁰ | 0.52 | 5.83 |
| Iron, Ferrous | 0.3 | NSA | 1 | | 285 | 186 | 188 |

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 contaminent level

CMC - Criterion maximum concentration

CCC - Criterion continuous concentration

mg/L - Milligrams per liter

NSA - Standard not availabe

BRL - Below reporting limit

* - Reporting limit 0.02

† - Reporting limit 0.01

‡ - Reporting limit 0.05

- Reporting limit 0.005

§ - Reporting limit 0.2

o - 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 | May 15, 2009 | June 18, 2009 | July 24, 2009 | August 29, 2009 |
|--------------------|----------------------|------------------------|--------------|-------------------|-------------------|-------------------|-------------------|
| | MCL | CMC | CCC | BHR-MPB-012 | BHR-MPB-013 | BHR-MPB-014 | BHR-MPB-015 |
| | | | | Pit water treated | Pit water treated | Pit water treated | Pit water treated |
| Potentially Applic | cable Standards (pri | ority pollutants) | | (Dissolved, mg/L) | (Dissolved, mg/L) | (Dissolved, mg/L) | (Dissolved, mg/L) |
| Antimony | 0.006 | NSA | NSA | 0.0082 | 0.0056 | | |
| Arsenic | 0.01 | 0.34 | 0.15 | BRL‡ | BRL‡ | | |
| Cadmium | 0.005 | 0.008 | 0.0026 | BRL# | BRL# | | |
| Chromium | 0.1 | 0.57 | 0.074 | 0.0015 | BRL† | | |
| Copper | 1 | 0.057 | 0.039 | BRL† | BRL† BRL† | | 0.00553 |
| Lead | 0.015 | 0.32 | 0.005 | BRL† | 0.0058 | | |
| Nickel | 0.61 | 1.071 | 0.167 | 0.0059 | 0.0065 | | |
| Selenium | 0.05 | NSA | 0.005 | 0.0106 | 0.01 | BRL* | 0.00533 |
| Zinc | 5 | 0.339 | 0.339 | 0.127 | 0.055 | BRL* | BRL† |
| Potentially Applic | cable Standards (no | n-priority pollutants) | | | | | |
| Aluminum | 0.2 | 0.75 | 0.087 | 0.06 | 0.156 | | |
| Iron | 0.3 | | 1 | 149 | 157 | 74.4 | 62.1 |
| Manganese | 0.05-0.1 | | | 11.4 | 9.79 | 10.6 | 10.2 |
| Ferrous Iron (mg | /L) | | | | | | |
| Iron, Ferric | 0.3 | NSA | 1 | BRL⁰ | BRL⁰ | 48.1 | BRL⁰ |
| Iron, Ferrous | 0.3 | NSA | 1 | 163 | 173 | 101 | 71.9 |

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 contaminent level

CMC - Criterion maximum concentration

CCC - Criterion continuous concentration

mg/L - Milligrams per liter

NSA - Standard not availabe

BRL - Below reporting limit

* - Reporting limit 0.02

† - Reporting limit 0.01

Troporting innit 0.01

‡ - Reporting limit 0.05

- Reporting limit 0.005

§ - Reporting limit 0.2

o - Reporting limit 0.1

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

Table 4
Creek Potentially Applicable Standards Comparison (Total)

| Seep 0 | Human Health | SCDHEC WQ | C under R61-68 | July 24, 2009 | August 29, 2009 |
|--------------------|-------------------|--------------------|----------------|---------------|-----------------|
| | MCL | CMC CCC | | BHR-S0-014 | BHR-S0-015 |
| Potentially Applic | able Standards (p | riority pollutants | s) | | |
| Copper | 1 | 0.057 | 0.039 | 20.2 | 1.68 |
| Selenium | 0.05 | NSA | 0.005 | 0.053 | 0.00726 |
| Zinc | 5 | 0.339 0.339 | | 11.4 | 1.32 |
| Potentially Applic | able Standards (n | on-priority pollu | ıtants) | | |
| Iron | 0.3 | NSA | 1 | 93 | 6.72 |
| Manganese | 0.05-0.1 | NSA | NSA | 13.8 | 5.96 |
| Potassium | NSA | NSA | NSA | 11.6 | 27.7 |
| Sodium | NSA | NSA | NSA | 44.3 | 205 |

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 contaminent level

CMC - Criterion maximum concentration

CCC - Criterion continuous concentration

mg/L - Milligrams per liter

NSA - Standard not availabe

NA - Not analyzed

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

Table 5 Monitoring Wells Potentially Applicable Standards Comparison

| | Drinking Water | National Reco | mmended WQC | SCDH | EC WQC ^a | MW | /-01 | MV | <i>I</i> -02 | MW | -01 |
|-----------------------------------|----------------|---------------|---------------|-------------|---------------------|--------|---------|--------|--------------|--------|----------|
| | Federal MCL | NOAEL Acute | NOAEL Chronic | NOAEL Acute | NOAEL Chronic | July 2 | 4, 2009 | July 2 | 4, 2009 | August | 29, 2009 |
| Wet Chem (mg/L) | • | | | | • | | | | | | |
| Residue, Total (wt%) | | | | | | | | | | | |
| Residue, Dissolved (TDS) | 500 | | | | | 15,000 | 100 | 16,000 | 100 | 19,200 | 100 |
| Chloride | 250 | 860 | NSA | NSA | 230 | | | | | | |
| Nitrogen, Nitrate (As N) | 10 | NSA | NSA | NSA | NSA | BRL | 2.5 | BRL | 2.5 | BRL | 250 |
| Sulfate | 250 | NSA | NSA | NSA | NSA | 14,800 | 1000 | 10,800 | 1000 | 14,400 | 1000 |
| Organic Carbon, Total | | | | | | | | | | | |
| Alkalinity | | | | | | | | | | | |
| Acidity | NSA | NSA | NSA | NSA | NSA | 8210 | 10 | 7,200 | 10 | 11900 | 10 |
| Ammonia | | | | | | 5.81 | 0.2 | 4.74 | 0.2 | 6.64 | 0.4 |
| Cyanide, Amenable to Chlorination | | | | | | | | | | | |
| Cyanide, Total | | | | | | | | | | | |
| Phosphorus, Total (As P) | NSA | NSA | NSA | NSA | NSA | | | | | | |
| pH (pH units) | 6.5-8.5 | NSA | 6.5 - 8.5 | NSA | 6.5 - 9.0 | 3.03 | 0.01 | 3.40 | 0.01 | 2.34 | 0.01 |
| Metals, Total (mg/L) | - | - | | | - | | | | | | |
| Copper | 1 | 0.013 | 0.009 | 0.0038 | 0.0029 | 257 | 0.1 | 174 | 0.1 | 734 | 1 |
| Iron | 0.3 | NSA | 1 | NSA | 1 | 2820 | 10 | 3020 | 10 | 5430 | 50 |
| Manganese | 0.05 | NSA | NSA | NSA | NSA | 12.1 | 0.015 | 14.9 | 0.015 | 26.1 | 2.5 |
| Potassium | NSA | NSA | NSA | NSA | NSA | 47.5 | 0.5 | 24.3 | 0.5 | BRL | 10 |
| Selenium | 0.05 | NSA | 0.005 | NSA | 0.005 | 0.0355 | 0.02 | BRL | 0.02 | BRL | 2.5 |
| Sodium | NSA | NSA | NSA | NSA | NSA | 34.5 | 1 | | 100 | BRL | 250 |
| Zinc | 5 | 0.12 | 0.12 | 0.037 | 0.037 | 57.6 | 0.2 | 48.2 | 0.2 | 93.7 | 5 |
| Ferrous Iron (mg/L) | | | | • | | | | | | | |
| Iron, Ferric | 0.3 | NSA | 1 | NSA | 1 | 67.6 | 0.1 | BRL | 0.1 | 1590 | 0.1 |
| Iron, Ferrous | 0.3 | NSA | 1 | NSA | 1 | 2760 | 500 | 3140 | 500 | 3840 | 500 |
| Notes: | | | | | | | | | | | |

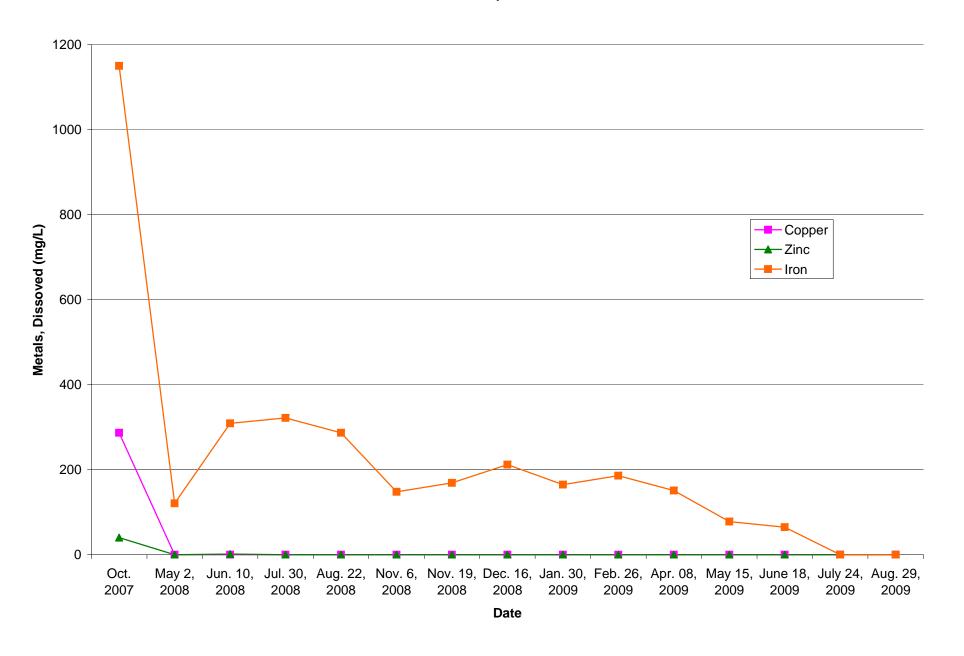
a - South Carolina Regulation 61-68, Water Classifications and Standards

NSA - Standard not availabe mg/L - Milligrams per liter BRL - Below Reporting Limit

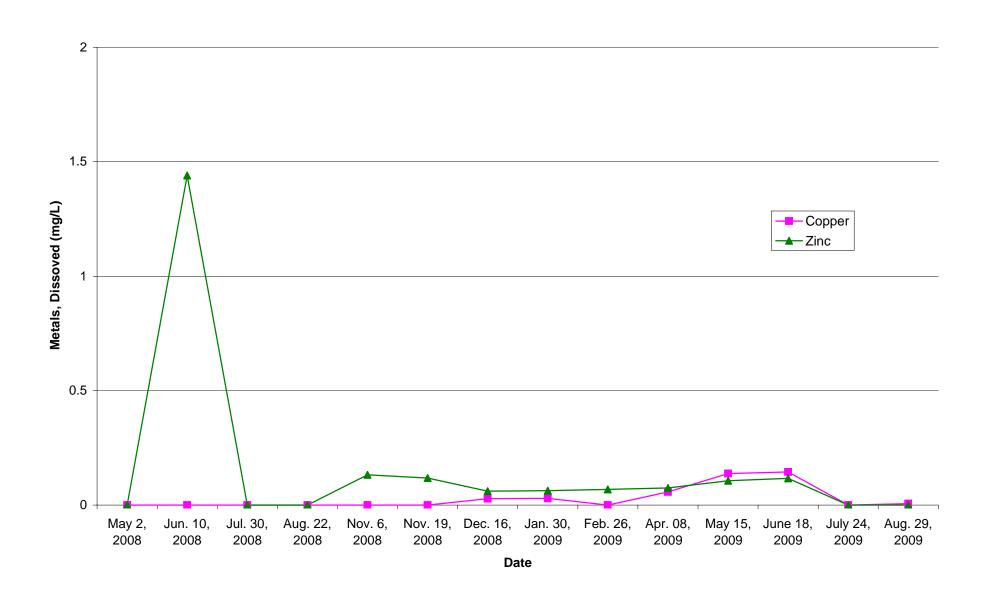
Yellow - Exceeds one criteria (Federal Drinking Water Standard or SCDHEC WQC)

Red - Exceeds all criteria (both Federal Drinking Water Standard and SCDHEC WQC)

Graph 1
Pit Lake Comparison



Graph 2
Pit Lake Comparison Detailed
(Iron is not included since it is detailed on Graph 1)



ATTACHMENT C ANALYTICAL DATA

CLIENT: Oneida Total Integrated Enterprises Client Sample ID: BHR-MPS-015

Project: Barite Hills Removal Collection Date: 8/29/2009 10:00:00 AM

Lab ID: 0908M00-001 Matrix: AQUEOUS

| Analyses | Result | Reporting Limit | Qual Units | BatchID Dilut Fact | |
|-------------------------------------|---------|--------------------|------------|-----------------------|--------------------|
| T. ORGANIC CARBON(TOC)(E415.1/SM5 | 310B) | | | | Analyst: GAR |
| Organic Carbon, Total | 33.6 | 1.0 | mg/L | 1 | 9/1/2009 12:11 PM |
| CARBON DIOXIDE SM4500-CO2 | | | | | Analyst: TL |
| Bicarbonate Alkalinity | 143 | 3.00 | mg/L | 1 | 9/2/2009 12:00 AM |
| TOTAL METALS BY ICP/MS SW6020A | | | (| SW3005A) | Analyst: DJ |
| Copper | 0.0157 | 0.00200 | mg/L | 117885 1 | 9/4/2009 2:27 PM |
| Iron | 3.06 | 0.100 | mg/L | 117885 1 | 9/4/2009 2:27 PM |
| Manganese | 6.60 | 0.0500 | mg/L | 117885 10 | 9/3/2009 10:44 PM |
| Potassium | 42.6 | 0.100 | mg/L | 117885 1 | 9/3/2009 10:26 PM |
| Selenium | BRL | 0.00500 | mg/L | 117885 1 | 9/4/2009 2:27 PM |
| Sodium | 277 | 5.00 | mg/L | 117885 10 | 9/3/2009 10:44 PM |
| Zinc | BRL | 0.0100 | mg/L | 117885 1 | 9/4/2009 2:27 PM |
| DISSOLVED METALS BY ICP/MS SW6 | 020A | | (| SAMP_FILT) | Analyst: DJ |
| Copper | 0.00603 | 0.00200 | mg/L | 117890 1 | 9/2/2009 6:44 PM |
| Iron | BRL | 0.100 | mg/L | 117890 1 | 9/2/2009 6:44 PM |
| Manganese | 5.91 | 0.0100 | mg/L | 117890 2 | 9/3/2009 4:45 PM |
| Selenium | BRL | 0.00500 | mg/L | 117890 1 | 9/2/2009 6:44 PM |
| Zinc | BRL | 0.0100 | mg/L | 117890 1 | 9/2/2009 6:44 PM |
| HYDROGEN ION (PH)(E150.1/SM4500 H- | - B) | | | | Analyst: CG |
| рН | 6.96 | 0.01 | H pH Units | 1 | 9/1/2009 10:50 AM |
| RESIDUE, DISS.(TDS)(E160.1/SM2540C) | | | (| E160.1) | Analyst: ML |
| Residue, Dissolved (TDS) | 3260 | 20 | mg/L | 118146 1 | 9/3/2009 3:00 PM |
| FERROUS IRON SM3500-FE-D | | | | | Analyst: CG |
| Iron, as Ferric (Fe+3) | BRL | 0.100 | H mg/L | 1 | 9/1/2009 11:15 AM |
| Iron, as Ferrous (Fe+2) | BRL | 0.100 | H mg/L | 1 | 9/1/2009 11:15 AM |
| , , , , , | | | 3 | | |

Qualifiers:

* Value exceeds Maximum Contaminant Level

BRL Below Reporting Limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated Method Blank

> Greater than Result value

E Estimated (Value above quantitation range)

Date: 15-Sep-09

S Spike Recovery outside limits due to matrix

Narr See Case Narrative

NC Not Confirmed

CLIENT: Oneida Total Integrated Enterprises Client Sample ID: BHR-MPB-015

Project: Barite Hills Removal Collection Date: 8/29/2009 9:20:00 AM

Lab ID: 0908M00-002 Matrix: AQUEOUS

| Analyses | Result | Reporting Limit | Qual U | nits BatchID | Dilution Factor | Date Analyzed |
|-------------------------------------|---------|--------------------|--------|--------------|--------------------|--------------------|
| T. ORGANIC CARBON(TOC)(E415.1/SM | - | 4.0 | | | | Analyst: GAR |
| Organic Carbon, Total | 34.8 | 1.0 | mg | /L | 1 | 9/1/2009 12:44 PM |
| CARBON DIOXIDE SM4500-CO2 | | | | | | Analyst: TL |
| Bicarbonate Alkalinity | 104 | 3.00 | mg | /L | 1 | 9/2/2009 12:00 AM |
| TOTAL METALS BY ICP/MS SW6020A | \ | | | (SW3005A) | | Analyst: DJ |
| Copper | 0.0171 | 0.00200 | mg | • | 1 | 9/4/2009 2:33 PM |
| Iron | 118 | 1.00 | mg | /L 117885 | 10 | 9/3/2009 10:50 PM |
| Manganese | 10.9 | 0.0500 | mg | /L 117885 | 10 | 9/3/2009 10:50 PM |
| Potassium | 41.6 | 0.100 | mg | /L 117885 | 1 | 9/3/2009 10:32 PM |
| Selenium | 0.00570 | 0.00500 | mg | /L 117885 | 1 | 9/4/2009 2:33 PM |
| Sodium | 199 | 5.00 | mg | /L 117885 | 10 | 9/3/2009 10:50 PM |
| Zinc | 0.0131 | 0.0100 | mg | /L 117885 | 1 | 9/4/2009 2:33 PM |
| DISSOLVED METALS BY ICP/MS SWE | 6020A | | | (SAMP_FILT) | | Analyst: DJ |
| Copper | 0.00553 | 0.00200 | mg | /L 117890 | 1 | 9/2/2009 6:50 PM |
| Iron | 62.1 | 0.500 | mg | /L 117890 | 5 | 9/3/2009 4:51 PM |
| Manganese | 10.2 | 0.0250 | mg | /L 117890 | 5 | 9/3/2009 4:51 PM |
| Selenium | 0.00533 | 0.00500 | mg | /L 117890 | 1 | 9/2/2009 6:50 PM |
| Zinc | BRL | 0.0100 | mg | /L 117890 | 1 | 9/2/2009 6:50 PM |
| HYDROGEN ION (PH)(E150.1/SM4500 H | + B) | | | | | Analyst: CG |
| рН | 5.35 | 0.01 | Н рН | Units | 1 | 9/1/2009 11:05 AM |
| RESIDUE, DISS.(TDS)(E160.1/SM2540C) | | | | (E160.1) | | Analyst: ML |
| Residue, Dissolved (TDS) | 3740 | 20 | mg | • | 1 | 9/3/2009 3:00 PM |
| FERROUS IRON SM3500-FE-D | | | | | | Analyst: CG |
| Iron, as Ferric (Fe+3) | BRL | 0.100 | H mg | /L | 1 | 9/1/2009 11:15 AM |
| Iron, as Ferrous (Fe+2) | 71.9 | 5.00 | H mg | /L | 50 | 9/1/2009 11:15 AM |

Qualifiers:

E Estimated (Value above quantitation range)

Date: 15-Sep-09

S Spike Recovery outside limits due to matrix

Narr See Case Narrative

NC Not Confirmed

^{*} Value exceeds Maximum Contaminant Level

BRL Below Reporting Limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated Method Blank

> Greater than Result value

CLIENT: Oneida Total Integrated Enterprises Client Sample ID: BHR-SO-015

Project: Barite Hills Removal Collection Date: 8/29/2009 10:45:00 AM

Lab ID: 0908M00-003 Matrix: AQUEOUS

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed |
|-------------------------------------|---------|--------------------|------|----------|-----------|--------------------|--------------------|
| TOTAL METALS BY ICP/MS SW6020A | | | | (| (SW3005A) | | Analyst: DJ |
| Copper | 1.68 | 0.00200 | | mg/L | 117885 | 1 | 9/4/2009 2:39 PM |
| Iron | 6.72 | 0.100 | | mg/L | 117885 | 1 | 9/4/2009 2:39 PM |
| Manganese | 5.96 | 0.0500 | | mg/L | 117885 | 10 | 9/3/2009 10:55 PM |
| Potassium | 27.7 | 0.100 | | mg/L | 117885 | 1 | 9/3/2009 10:38 PM |
| Selenium | 0.00726 | 0.00500 | | mg/L | 117885 | 1 | 9/4/2009 2:39 PM |
| Sodium | 205 | 5.00 | | mg/L | 117885 | 10 | 9/3/2009 10:55 PM |
| Zinc | 1.32 | 0.0100 | | mg/L | 117885 | 1 | 9/4/2009 2:39 PM |
| HYDROGEN ION (PH)(E150.1/SM4500 H+ | - В) | | | | | | Analyst: CG |
| рН | 4.97 | 0.01 | Н | pH Units | i | 1 | 9/1/2009 11:20 AM |
| RESIDUE, DISS.(TDS)(E160.1/SM2540C) | | | | (| E160.1) | | Analyst: ML |
| Residue, Dissolved (TDS) | 2600 | 20 | | mg/L | 118146 | 1 | 9/3/2009 3:00 PM |

Qualifiers:

* Value exceeds Maximum Contaminant Level

BRL Below Reporting Limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated Method Blank

> Greater than Result value

E Estimated (Value above quantitation range)

Date: 15-Sep-09

S Spike Recovery outside limits due to matrix

Narr See Case Narrative

NC Not Confirmed

CLIENT: Oneida Total Integrated Enterprises Client Sample ID: BHR-MW1-002

Project: Barite Hills Removal Collection Date: 8/29/2009 10:30:00 AM

Lab ID: 0908M00-004 Matrix: AQUEOUS

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed |
|-------------------------------------|--------|--------------------|------|----------|---------|--------------------|---------------------------------------|
| INORGANIC ANIONS BY IC E300.0 | | | | | | | Analyst: GAR |
| Nitrogen, Nitrate (As N) | BRL | 250 | Н | mg/L | | 1000 | 9/1/2009 10:53 AM |
| Sulfate | 14400 | 1000 | | mg/L | | 1000 | 9/1/2009 10:53 AM |
| NITROGEN, AMMONIA (AS N) E350.1 | | | | (E: | 350.1) | | Analyst: LAV |
| Nitrogen, Ammonia (As N) | 6.64 | 0.400 | | mg/L | 118010 | 1 | 9/2/2009 4:41 PM |
| TOTAL METALS BY ICP/MS SW6020A | | | | (S) | W3005A) | | Analyst: DJ |
| Copper | 734 | 1.00 | | mg/L | 117885 | 500 | 9/4/2009 2:45 PM |
| Iron | 5430 | 50.0 | | mg/L | 117885 | 500 | 9/4/2009 2:45 PM |
| Manganese | 26.1 | 2.50 | | mg/L | 117885 | 500 | 9/4/2009 2:45 PM |
| Potassium | BRL | 10.0 | | mg/L | 117885 | 100 | 9/3/2009 11:07 PM |
| Selenium | BRL | 2.50 | | mg/L | 117885 | 500 | 9/4/2009 2:45 PM |
| Sodium | BRL | 250 | | mg/L | 117885 | 500 | 9/4/2009 2:45 PM |
| Zinc | 93.7 | 5.00 | | mg/L | 117885 | 500 | 9/4/2009 2:45 PM |
| HYDROGEN ION (PH)(E150.1/SM4500 H+ | В) | | | | | | Analyst: CG |
| рН | 2.34 | 0.01 | Н | pH Units | | 1 | 9/1/2009 11:30 AM |
| RESIDUE, DISS.(TDS)(E160.1/SM2540C) | | | | (E | 160.1) | | Analyst: ML |
| Residue, Dissolved (TDS) | 19200 | 100 | | mg/L | 118146 | 1 | 9/3/2009 3:00 PM |
| ACIDITY (E305.1/SM2310 B) Acidity | 11900 | 10.0 | | mg/L | | 1 | Analyst: MAS 9/4/2009 11:45 AM |
| FERROUS IRON SM3500-FE-D | | | | | | | Analyst: CG |
| Iron, as Ferric (Fe+3) | 1590 | 0.100 | Н | mg/L | | 1 | 9/1/2009 11:15 AM |
| Iron, as Ferrous (Fe+2) | 3840 | 500 | Н. | mg/L | | - | 9/1/2009 11:15 AM |

Qualifiers:

* Value exceeds Maximum Contaminant Level

BRL Below Reporting Limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated Method Blank

> Greater than Result value

E Estimated (Value above quantitation range)

Date: 15-Sep-09

S Spike Recovery outside limits due to matrix

Narr See Case Narrative

NC Not Confirmed

ATTACHMENT D HASP

| HEALTH AND S | AFETY PLAN FORM | This doci | ıment is for the | exclusive | | TN & ASSO | CIATES | |
|--|--|---|---|--|---|--|--|---|
| TN&Associates Heal | th and Safety Program use of | TN&Associ | ates its subcon | tractors, an | d EPA. | Site Name: I | Barite Hill Nevada | Goldfields |
| PROJECT NAME: PROJECT#: | Barite Hill Nevada Goldfields 2005148 | _ | DATE: | | 6/10/2008 | 3 | | |
| LOCATION: | McCormick, South Carolina | | CLIENT: | | | EPA | | |
| | | | EPA CONT | АСТ/РНО | NE #: | Leo Fr | ancendese, 404-562 | 2-8772 |
| | | | LOCAL/SI | TE CONTA | ACT PHONE #: | | | |
| INCIDENT DESCRI | | | SOURCE C | | | | | |
| | RT with conducting water sampling of the main pit monitor metal concentrations and water quality | | INFORMA | TION: | ER Action Memo/ | initial POLRE | P from epaosc.net w | vebsite |
| ANTICIPATED TAS | SKS: | TYPE: | Check as man | v as applical | ble | | | |
| (e.g. collect surface so | | | | | | | | |
| Take water quality me and creek. | asurements and samples of the liquid in the main pi | Active | | () | Landfill | () | Spill | () |
| | | Inactive | | (X) | Uncontrolled | () | Fire | () |
| | | Secure | | (X) | Industrial | () | Military | () |
| | | Unsecu | re | () | Recovery | (X) | Unknown | () |
| | | Enclose | d space | () | Well Field | () | Other (specify) | () |
| site is relatively remot topographic high ridge Within the site, the rid | D FEATURES: Include principal operations and a a Goldfields site is located approximately 3 miles so e; there are no buildings, homes, or commercial built area forming the headwaters of an unnamed tributa geline comprising the site has a high point of about mining operations remains. The pit contains approximately 3 miles so e; there are no buildings, homes, or commercial built area forming the headwaters of an unnamed tributa geline comprising the site has a high point of about mining operations remains. The pit contains approximately 3 miles so e; there are no buildings, homes, or commercial built area forming the headwaters of an unnamed tributa geline comprising the site has a high point of about mining operations remains. | outh of McC dings withing ry to Hawes 510 feet and | ormick, SC bein 0.5 miles of to Creek. The to | tween US 3' he boundary pography of evation of a | 78 and US 221 on the y. The site actively m f the area consists of pproximately 480 fee | e northern side ined gold from rolling hills wit t. Storm water | 1991 to 1995. The th ridgelines at an elerun on and runoff a | site is located along a levation of about 500 feet. are not controlled at the site. |
| SURROUNDING PO | OPULATION: () Residential () Industria | l () Com | mercial (| (X) Rural | () Urban | () Other: | | |

| HEALTH AND | HEALTH AND SAFETY PLAN FORM | | | document is for the | exclusive | TN & ASSOCIATES |
|---|---|--|---|--|--|---|
| TN & Associates H | ealth and Safety Pr | ogram | use of TN&Assoc | riates its subcontraci | ors, and EPA. | Site Name: Barite Hill Nevada Goldfields |
| Goldfields. On July from ore. There are rock pile has the pot 60 million gallons o | ned gold from 1991 t 7, 1999 Nevada Gold 7 processing ponds of tential for producing f water with a pH of | o 1995. From 1995 unti dfields handed the facili ensite containing an unk- acid. Storm water run of | I Nevada Goldfields f ty's keys to SCDHEC nown amount of free- n and runoff are not colved metal content. So | iled for Chapter 7 B and abandoned the liquids. Three large, ontrolled at the site. | ankruptcy in 19 site. The facili multi-acre, wa The Main Pit fi | ncy actions, known injuries, etc. 199, the reclamation of the site was being addressed by Nevada ty used a cyanide solution in a heap leach process to extract gold ste rock piles contaminated with cyanide are left onsite. Each waste from the mining operations remains. The pit contains approximately edic water with high dissolved metal content are being released to |
| WASTE TYPES: | (X) Liquid | (X) Solid | () Sludge | () Gas (|) Unknown | () Other: |
| WASTE CHARAC (X) Corrosive (X) Toxic () Inert Gas | CTERISTICS: Checome () Flammable () Volatile () Unknown | () Radioactive (X) Reactive () Other, Specify: | | WORK ZONES: | | Describe the Exclusion, Contamination Reduction, and Support Zones in terms on-site personnel will recognize |
| HAZARDS OF CO (X) Heat Stress (X) Cold Stress () Explosive/Flam () Oxygen Deficie () Radiological () Biological () Other, Specify: | attach guidelines attach guidelines mable | () Noise (X) Inorganic Chemica () Organic Chemica () Motorized Traffic () Heavy Machiner (X) Slips, Trips, & Fa | als c y | FACILITY'S PAS AND PRACTICES None found | | ENT DISPOSAL METHODS |

Page 2 of 8

| HEALTH AND SAFE | TY PLAN FORM | This document is | for the exclusive | TN & ASSOCIATES | | | |
|--------------------------------|--|--|--------------------------------|-------------------------|-------------------------|--|--|
| TN&Associates Healt | h and Safety Program | use of TN&Associates its | subcontractors, and EPA. | Site Name: Barite Hill | Nevada Goldfields | | |
| HAZARDOUS MATE | RIAL SUMMARY: | Circle waste type and estin | nate amounts by category. | | | | |
| CHEMICALS: Amount/Units: | SOLIDS: Amount/Units: | SLUDGES: Amount/Units: | SOLVENTS: Amount/Units: | OILS: Amount/Units: | OTHER: Amount/Units: | | |
| | Metals unknown | Inorganic unknown | | | | | |
| OVERALL HAZA JUSTIFICATION: | RD EVALUATION: Stabiliziation of Main P | ()High (X)Medium it lake for pyrite contact | ()Low ()Unknown with liquid. | | | | |
| FIRE/EXPLOSION P | OTENTIAL: | ()High ()Medium | ()Low (X)Unknown | | | | |
| INFORMATION COM | MPLETE: | ()Complete | ()Incomplete | (X)Best Available at Cu | rrent Time | | |

| HEALTH AND SAF | | | This document is | s for the exclusive use of TN&Associates its subcontractors, and EPA | | | |
|------------------------|--|---|-------------------------------|---|--|--|--|
| TN & Associates Health | | OCITA | | | 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 | | |
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| NA | AID AI DAN | | ** ** * | An I a di la Mana a la | | | |
| NA = Not Available | NE = None Establis | hed | U = Unknown | Attach, to this plan, an MSDS for each chemical you will use at the site. | | | |
| S = Soil | SW = Surface Water | T = Tailings | | SD = Sediment | | | |
| A = Air | GW = Ground Water | SL = Sludge | D = Drums | OFF = Off-Site | | | |

| HEALTH A | AND SAFI | ETY PLAN | FORM | | This document is f | ive use of | TN & ASSOCIATES | | |
|-----------------------|---------------|----------------|--------------|----------------|------------------------|---------------|-----------------|-----------------------|---------------------------|
| TN & Associa | ates Health a | and Safety Pr | ogram | TNc | &Associates its subcon | tractors, and | l EPA. | Site Name: Bari | te Hill Nevada Goldfields |
| Tasl | k Descriptio | n / PPE / Pers | sonnel & Res | sponsibilities | (attach additio | nal sheets as | necessary) | | |
| Task 1 Description | Site liquid s | ampling/In-sit | u monitoring | | | | | Type Intrusive | Hazard Schedule High |
| Primary | Respiratory | APR | combo | | Contingency | Respiratory: | APR | combo | |
| Level | | Safety Glasses | s Hard Hat | | Level | | Safety Glasses | Hard Hat | |
| Modified D | Boots: | Steel-Toe | Latex Booti | e | Modified D | Boots: | Steel-Toe | Latex Bootie | |
| | Gloves: | Inner: Nitrile | Outer: | | То С | Gloves: | Inner: Nitrile | Outer: | |
| PPE: | Clothing: | Tyvek Coveral | 1 | | PPE: | Clothing: | Tyvek Coverall | | |
| Task 2 Description | | | | | | | | Туре | Hazard Schedule |
| Primary | Respiratory: | | | | Contingency | Respiratory: | | 1 | 1 |
| Level | Evewear: | | | | Level | | | | |
| | Boots: | | | | | Boots: | | | |
| | Gloves: | | | | | Gloves: | | | |
| PPE: | Clothing: | | | | PPE: | Clothing: | | | |
| Task 3 Description | | | | | | | | Туре | Hazard Schedule |
| Primary | Respiratory: | | | | Contingency | Respiratory: | | 1 | |
| Level | Evewear. | | | | Level | Evewear. | | | |
| 20,01 | Boots: | | | | 20,61 | Boots. | | | |
| | Gloves: | | | | | Gloves: | | | |
| PPE: | Clothing: | | | | PPE: | 2 | | | |
| Task 4 Description | | | | | 1 1120 | | | Type | Hazard Schedule |
| Primary | Respiratory: | | | | Contingency | Respiratory: | | 1 | - |
| Level | Evewear: | | | | Level | Evewear: | | | |
| | Boots: | | | | | Boots: | | | |
| | Gloves: | | | | | Gloves: | | | |
| PPE: | Clothing: | | | | PPE: | 2 | | | |
| PERSONNE | | PONSIBILIT | TIES | | | <u>C</u> - | | | |
| Name | | Company/Ag | gency | Training | | | Responsibilit | | |
| Jorge Sanchez | | TN&A | | OSHA | | | Safety and He | | |
| Russell Hende | | TN&A | | OSHA | | | Safety and He | | |
| Dannena Bow | man | TN&A | | OSHA | | | Safety and He | alth | |
| | | | | | | | | | |

| 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 | |
|---|-------------------------|--------|---|--|--|
| | | | | | |
| Tasks: 1 | Instrument: pH Meter | Level: | Action Guidelines: | Comments: | |
| Tasks: | Instrument: | Level: | Action Guidelines: | Comments: | |
| Tasks: | Instrument: | Level: | Action Guidelines: | Comments: | |
| Tasks: | Instrument: | Level: | Action Guidelines: | Comments: | |
| Tasks: | Instrument: | Level: | Action Guidelines: | Comments: | |
| Tasks: | Instrument: | Level: | Action Guidelines: | Comments: | |
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| HEALTH AND SAFETY PLAN FORM This document is for the exc | lusive use of TN&Associates its TN & A | SSOCIATES | | |
|---|--|--|---|--|
| TN&Associates Health and Safety Program subcontract | tors, and EPA. Site Nai | | | |
| EMERGENCY CONTACTS | EMERGENCY CONTACTS | NAME | PHONE | |
| Site Telephone EPA Release Report # TN&Assoc 24-Hr Emergency # 678-255-5538 Facility Management Other (specify) CHEMTREC Emergency #: 1-800-424-9300 CONTINGENCY PLANS: Summarize below Contact corporate Health and Saftey officer, William Fink, at 414-234-7845 | Health and Safety Manager Project Manager Site Safety Coordinator Client Contact (EPA RPM) Other (EPA HRS coordinator) State Agency State Spill Number Fire Department Police Department State Police Health Department Poison Control Center Occupational Physician MEDICAL EMERGENCY Hospital Name: | Bill Fink Russell Henderson Jorge Sanchez Dr. Jerry Berke, Health Resources | 911 911 911 911 911 911 PHONE | |
| HEALTH AND SAFETY PLAN APPROVALS Prepared by Date Date Date Date | | ched sheet) | | |
| HSM Signature Date | | | | |

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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