



December 23, 2010

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

Subject: Final 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 Final 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 providing water sampling of the main pit lake, Hawes Creek tributary (the creek), and monitoring wells at various intervals. These letter reports can be found on the internet at http://www.epaossc.org/site/doc_list.aspx?site_id=2768 under the Barite Hill Nevada Goldfields site name.

In addition, START was also tasked with adding 3,500 gallons of a 50% solution of sodium hydroxide (NaOH) to the main pit lake in order to try and neutralize the acidity of the lake. Water quality parameters collected during various times of the NaOH addition can be found in Table 1. Logbook notes can be found in Attachment A.

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 Activities

On July 13, 2010, START mobilized to the site. Field activities consisted of incrementally adding a 50% solution of NaOH and measuring water quality parameters in the Main Pit lake. A HASP was developed for the site prior to fieldwork activities.

START collected the first set of water quality parameters after the addition of approximately 240 gallons of 50% NaOH at 11:25am on July 13, 2010. The lake water column was measured every meter from the surface to the bottom (see Table 1). Readings were collected again after the addition of approximately 800 gallons of 50% NaOH at 5:35pm on July 13, 2010.

On July 14, 2010, water quality parameters were collected at 9:00am (addition of 800 Gallons of 50% NaOH) as well as 5:30pm (addition of 660 Gallons of 50% NaOH).

The last set of water quality parameters were collected on the morning of July 15, 2010 at 8:35am after a final 1,000 Gallons of 50% NaOH was added overnight. A total of 3,500 gallons of 50% NaOH solution was pumped into the Main Pit lake over a period of 72 hours.

START remobilized back to the site on October 14, 2010 at 10:16am in order to perform a site walk and collect a final set of water quality parameters.

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,

A handwritten signature in black ink, appearing to read "Russell Henderson", with a long horizontal flourish extending to the right.

Russell Henderson
Project Manager
Oneida Total Integrated Enterprises (OTIE)
Superfund Technical Assessment and Response Team (START)

Enclosures
Table 1
Attachment A – Logbook Notes

TABLE 1

Table 1
Barite Hills/Nevada Goldfields
Main Pit Lake Water Quality Readings during Sodium Hydroxide (NaOH) Addition
July 2010

Horbia U-22 (approximately 240 gallons 50% NaOH added)

Main Pit Lake

7/13/2010
11:25 hrs

Depth (m)	pH	ORP (mV)	DO (mg/L)	Temp (°C)	Conductivity (mS/cm)	Turbidity (NTU)
Surface	4.0	145	6.8	30.81	0.33	140
0.5	4.1	140	6.7	30.69	0.80	210
1.0	4.5	97	6.2	30.42	0.84	130
1.5	5.6	47	5.5	30.2	0.83	220
2.0	5.5	-13	4.30	29.82	0.86	270
3.0	6.1	-27	2.20	29.21	0.86	200
4.0	6.2	-221	0.30	21.80	0.41	11.0
5.0	6.2	-226	0.40	13.88	0.45	11.0
6.0	6.2	-226	0.50	11.37	0.46	7.0
7.0	6.2	-226	0.50	10.54	0.47	offscale
8.0	6.2	-227	0.50	10.32	0.46	offscale
9.0	6.2	-228	0.50	10.29	0.45	offscale
10.0	6.2	-228	0.50	10.29	0.45	offscale
11.0	6.1	-227	0.60	10.34	0.46	offscale
12.0	6.1	-222	0.60	10.5	0.45	offscale
13.0	6.1	-193	0.60	11.43	0.42	offscale
14.0	5.9	-189	0.60	12.09	0.39	offscale
15.0	5.9	-185	0.60	12.17	0.37	offscale

Horbia U-22 (approximately 800 gallons 50% NaOH added)

Main Pit Lake

7/13/2010
17:35 hrs

Depth (m)	pH	ORP (mV)	DO (mg/L)	Temp (°C)	Conductivity (mS/cm)	Turbidity (NTU)
Surface	5.4	137	7.4	32.70	0.41	880
0.5	6.7	109	7.4	32.64	0.45	870
1.0	6.8	-42	7.0	31.74	0.48	910
1.5	7.0	-50	5.6	30.72	1.00	920
2.0	6.0	-52	4.8	30.46	1.20	950
3.0	6.2	-37	3.4	29.56	0.64	offscale
4.0	6.1	-198	0.40	22.53	0.57	offscale
5.0	6.1	-199	0.40	14.52	0.63	offscale
6.0	6.1	-198	0.40	11.39	0.64	offscale
7.0	6.1	-200	0.50	10.45	0.63	offscale
8.0	6.1	-200	0.60	10.32	0.62	offscale
9.0	6.1	-199	0.60	10.29	0.61	offscale
10.0	6.1	-194	0.60	10.33	0.59	offscale
11.0	6.1	-199	0.60	10.47	0.39	offscale
12.0	5.9	-199	0.60	11.10	0.54	offscale
13.0	5.9	-183	0.60	11.74	0.47	offscale
14.0	5.8	-183	0.60	12.18	0.40	offscale
15.0	5.9	-186	0.60	12.15	0.63	offscale

Table 1
Barite Hills/Nevada Goldfields
Main Pit Lake Water Quality Readings during Sodium Hydroxide (NaOH) Addition
July 2010

Horbia U-22 (approximately 800 gallons 50% NaOH added)

Main Pit Lake

7/14/2010
09:00 hrs

Depth (m)	pH	ORP (mV)	DO (mg/L)	Temp (°C)	Conductivity (mS/cm)	Turbidity (NTU)
Surface	8.7	-71	5.5	30.52	1.00	890
0.5	8.7	-74	5.3	30.44	1.00	910
1.0	8.6	-78	5.3	30.35	1.00	920
1.5	8.6	-87	5.0	30.31	1.00	960
2.0	8.6	-92	4.3	30.28	1.00	980
3.0	8.6	-103	4.7	30.17	1.10	offscale
4.0	8.4	-116	3.5	29.99	1.20	offscale
5.0	6.1	-187	0.8	17.99	1.50	offscale
6.0	6.1	-185	0.8	12.64	1.60	offscale
7.0	6.1	-182	0.8	10.78	1.70	offscale
8.0	6	-182	0.8	10.36	1.60	offscale
9.0	6	-183	0.8	10.29	1.60	990
10.0	5.9	-182	0.8	10.25	1.50	990
11.0	5.8	-182	0.9	10.34	0.97	970
12.0	5.7	-179	0.6	10.38	0.96	980
13.0	5.8	-153	0.6	10.82	0.85	980
14.0	5.9	-47	0.6	11.86	0.62	offscale
15.0	6.4	-99	0.6	12.57	offscale	offscale

Horbia U-22 (approximately 660 gallons 50% NaOH added)

Main Pit Lake

7/14/2010
17:30 hrs

Depth (m)	pH	ORP (mV)	DO (mg/L)	Temp (°C)	Conductivity (mS/cm)	Turbidity (NTU)
Surface	8.8	-65	7.2	34.01	0.71	520
0.5	9.2	-75	6.3	33.35	2.2	530
1.0	9.5	-82	6.0	33.86	1.3	880
1.5	9.5	-111	5.2	30.94	1.3	930
2.0	9.3	-123	4.5	30.65	1.4	970
3.0	7.8	-142	2.9	29.99	1.6	offscale
4.0	6.5	-224	0.6	20.92	1.7	offscale
5.0	6.5	-194	0.7	12.85	1.8	970
6.0	6.4	-187	0.8	10.82	1.7	940
7.0	6.4	-185	0.8	10.44	1.6	930
8.0	6.4	-186	0.9	10.32	0.98	930
9.0	6.4	-185	0.9	10.28	0.95	930
10.0	6.3	-185	0.9	10.29	0.90	930
11.0	6.3	-183	0.9	10.32	0.86	940
12.0	6.1	-180	1.0	10.33	0.77	940
13.0	5.8	-170	1.0	10.38	0.70	940
14.0	4.9	-134	1.2	10.61	0.59	990
15.0	6.8	-19	2.0	11.81	0.66	650

Table 1
Barite Hills/Nevada Goldfields
Main Pit Lake Water Quality Readings during Sodium Hydroxide (NaOH) Addition
July 2010

Horbia U-22 (approximately 1,000 gallons 50% NaOH added)

Main Pit Lake

**7/15/2010
08:35 hrs**

Depth (m)	pH	ORP (mV)	DO (mg/L)	Temp (°C)	Conductivity (mS/cm)	Turbidity (NTU)
Surface	9.4	-62	9.3	30.40	33	offscale
0.5	9.5	-66	4.4	30.53	6.1	25
1.0	9.5	-73	5.3	30.51	4.8	24
1.5	9.4	-85	5.1	30.45	5.0	25
2.0	9.3	-98	5.2	30.38	3.8	26
3.0	8.8	-113	4.1	30.10	3.2	31
4.0	6.4	-197	0.8	17.42	1.7	26
5.0	6.3	-179	0.8	13.81	1.8	offscale
6.0	6.3	-171	0.9	11.93	1.8	offscale
7.0	6.2	-165	0.9	10.92	1.8	offscale
8.0	6.2	-164	1.0	10.37	1.7	960
9.0	6.1	-163	1.0	10.30	1.6	960
10.0	6.1	-160	1.1	10.28	0.98	950
11.0	6.0	-158	1.1	10.30	0.93	990
12.0	5.9	-154	1.2	10.32	0.89	offscale
13.0	5.7	-149	1.3	10.39	0.82	offscale
14.0	5.2	-129	1.4	10.64	0.70	offscale
15.0	6.1	-7	1.6	11.76	0.78	920

**7/15/2010
07:55 hrs**

bottom	6.8
mid	7.0
surface	8.8

These points collected at shallow end of pit lake, near 6" pump intake, 35' out.

Horbia U-22

Main Pit Lake

**10/14/2010
10:16 hrs**

Depth (m)	pH	ORP (mV)	DO (mg/L)	Temp (°C)	Conductivity (mS/cm)	Turbidity (NTU)
Surface	6.5	5	6.50	22.46	0.33	19
0.5	6.5	-6	6.40	22.33	0.33	34
1.0	6.4	-15	6.40	21.88	0.33	80
2.0	6.4	-28	4.40	20.64	0.34	offscale
3.0	6.3	-49	2.40	19.11	0.35	110
4.0	6.1	-180	0.22	15.55	0.38	offscale
5.0	6.0	-151	0.00	12.11	0.38	offscale
6.0	6.0	-145	0.00	11.50	0.38	offscale
7.0	6.0	-142	0.00	11.18	0.39	offscale
8.0	6.0	-135	0.00	11.15	0.39	750
9.0	6.0	-133	0.00	11.24	0.40	offscale
10.0	6.0	-134	0.00	11.37	0.40	offscale
11.0	6.0	-133	0.00	11.68	0.43	92
12.0	5.9	-132	0.00	12.03	0.49	130
13.0	5.9	-130	0.00	12.31	0.48	88
14.0	5.8	-126	0.00	12.74	0.47	130
15.0	5.7	-124	0.00	12.93	0.43	48

ATTACHMENT A
LOGBOOK NOTES

Location Barite Hills Rem Date 7/13/10
 Project / Client EPA START
 Lot 82° F Clear

10:00 Arrive on site meet with J. Harrington of Alexco & Kenny from CMC. System is already pumping NOOR into 6" pump recirculating in the pit lake. Approximately 1.5 gallons per minute being discharged to lake at this time.
 10:15 Joe Harrington off site for conference calls. Kenny Smith of CMC & myself go for first round of readings from pit lake.

11:25

Depth	pH	Cond	Turb	DO	Temp	ORP
15	5.9	0.37	off scale	0.60	12.17	-185
14	5.9	0.39	" "	0.60	12.09	-189
13	6.1	0.42	" "	0.60	11.43	-193
12	6.1	0.45	" "	0.60	10.5	-222
11	6.1	0.46	" "	0.60	10.34	-227
10	6.2	0.45	" "	0.50	10.29	-228
9	6.2	0.45	" "	0.50	10.29	-228
8	6.2	0.46	" "	0.50	10.32	-227
7	6.2	0.47	" "	0.60	10.54	-226

Location Barite Hills Rem Date 7/13/10
 Project / Client EPA STA
 Hot Sunny 93°F

Depth	pH	Cond	Turb	DO	Temp	ORP
6	6.2	0.46	7.0	0.5	11.37	-226
5	6.2	0.45	11.0	0.40	13.88	-226
4	6.2	0.41	11.0	0.30	21.80	-221
3	6.1	0.86	200	2.2	29.21	-27
2	5.5	0.86	270	4.3	29.82	-13
1.5	5.6	0.83	220	5.5	30.2	47
1.0	4.5	0.84	130	6.2	30.42	97
0.5	4.1	0.80	210	6.7	30.69	140
Surface	4.0	0.33	140	6.8	30.81	145

12:00 we return to land and lunch.

13:00 Return from lunch we make various adjustments to pump & tanker. Stick levels indicate a drop of 11" total at this point & the decision is made to fuel up the 6" trash pump & let the system run slowly all night in an attempt to introduce the 3500 gallons within 22 hours.

Location Barite Hills Run Date 7/12/10
 Project / Client EPA START R4
Hot 97°F Sunny

14:00 We regroup at Top of hill by truck after fueling tank

14:45 Joe Harrington returns and tells us he'll leave this afternoon & won't return. We will take care of all this at this point.

16:45 We prepare for final sit at Reuliger for day.

17:35:

Depth	pH	Cond.	Turb	DO	Temp	ORP
15	5.9	0.63	offscale	0.60	12.15	-186
14	5.8	0.40	"	0.60	12.18	-183
13	5.9	0.47	"	0.60	11.74	-183
12	5.9	0.54	"	0.60	11.10	-199
11	6.1	0.39	"	0.60	10.47	-199
10	6.1	0.59	"	0.60	10.33	-194
9	6.1	0.61	"	0.60	10.29	-199
8	6.1	0.62	"	0.60	10.32	-200
7	6.1	0.63	"	0.50	10.45	-198
6	6.1	0.64	"	0.40	11.39	-199
5	6.1	0.63	"	0.40	14.52	-199
4	6.1	0.57	"	0.40	22.53	-198

Location Barite Hills Run Date 7/12/10
 Project / Client EPA START R4
Hot 100°F Sunny

Depth	pH	Cond	Turb.	DO	Temp.	ORP
3	6.2	0.64	offscale	3.4	29.56	-37
2	6.0	1.20	950	4.8	30.46	-52
1.5	7.0	1.00	920	5.6	30.72	-50
1	6.8	0.48	910	7.0	31.74	-42
0.5	6.7	0.45	870	7.4	32.64	109
Surface	5.4	0.41	880	7.4 6.0	32.70	137

18:25 return to shore & slow flows down for overnight delivery. We'll return between 07:00 & 08:00 in the a.m.

18:45 Off-site

[Handwritten signature]
 7/13/10

Location Me Cormick, SC Date 07/14/2010
 Project / Client USA EPA Region 4 / Barite Hills

0500: START Berrios left (mob) to the site

0800: START Berrios arrived to the site and met with START Henderson.

0800: 32 inches of 50% solution of NaOH total and 6 inches overnight

08:20 Calibrated Horiba

08:30 collected water quality data.

0900: Monitoring readings

Depth	pH	Turb. Conc	Temp	DO	Temp	ORP
15	5.9	offscale	offscale	0.60	12.5	-185.99
14	5.959	offscale	offscale	0.60	12.86	-188.47
13	6.158	0.80	"0.85"	0.60	10.82	-173.153
12	6.158	0.45	"0.9"	0.60	10.33	-171
11	6.158	0.45	"0.97"	0.90	10.34	-182
10	6.259	0.45	"1.50"	0.80	10.25	-182
9	6.0	0.45	"1.60"	0.80	10.29	-183
8	6.0	offscale	"1.60"	0.80	10.36	-182
7	6.1	offscale	1.70	0.80	10.78	-182
6	6.1	offscale	1.60	0.80	12.54	-182
5	6.2	offscale	1.50	0.80	17.99	-182
4	8.4	offscale	1.20	3.50	19.97	-116
3	8.6	offscale	1.10	4.70	30.17	-27
2	8.6	offscale	1.00	4.30	30.28	-27
1.5	8.6	offscale	1.00	5.0	30.31	-27
1	8.6	offscale	1.00	5.3	30.35	-27

Location Me Cormick, SC Date 07/14/2010
 Project / Client USA EPA Region 4 / Barite Hills

Depth	pH	Turb. Conc	Temp	DO	Temp	ORP
0.5	8.7	0.80	1.00	5.3	30.49	-74
Surface	8.7	0.80	1.00	5.5	30.52	-71

0950: START Berrios began taking pictures
 Pictures taken from other side of the lake to capture silk fences boom like retention system (for runoff) and the NaOH discharge system (with pump).

Pump description → GP 150M

1010: DHEC arrived to the site

1030: START Berrios gave a brief update to DHEC personnel

1100: START Henderson gave all details and updates to DHEC personnel in addition to explain the Chemistry is taking place at the lake with the 50%

Location McCormick, SC Date 7/14/2010
 Project / Client U.S. EPA Region 4 / Barite Hills

Solution of NaOH.

1145: START Henderson gave ~~directions~~ instructions to follow after his conversation with ~~Joe~~ Joe Carrington (to START Berrios & Kenny Smith from CMC Inc.)

1200: START Henderson left site (Demo)

1215: START Berrios took 15 min lunch break

1230: Kenny from CMC took measurement of amount of base solution in the tank (with a designated PVC tube)

1245: NaOH (50%) solution had 8 inches (gallons) less in the tank

1400: START took surface pH readings close to the plume (avg 8.8 pH)

1445: NaOH solution released another ~10 inches [↑] tank into the lake (gals)

1530: START took pictures of the plume

1600: START took surface pH readings close to the plume (3 areas) and the avg. pH was 9.5

Location McCormick, SC Date 7/14/2010
 Project / Client U.S. EPA Region 4 / Barite Hills

(Shallow end)

1702: Readings collected between plume and rock ramp

	pH
bottom	7.9
mid	7.9
surf	9.2

Depth (meters)	pH	Cond (S/m)	Turb. (NTU)	DO	Temp (°C)	ORP (mV)
15	6.8	0.66	650	2.0	11.81	-19
14	4.9	0.59	990	1.2	10.61	-134
13	5.8	0.70	940	1.0	10.38	-170
12	6.1	0.77	940	1.0	10.33	-180
11	6.3	0.86	940	0.9	10.32	-183
10	6.3	0.90	930	0.9	10.29	-185
9	6.4	0.95	930	0.9	10.28	-185
8	6.4	0.98	930	0.9	10.32	-186
7	6.4	1.0	930	0.8	10.44	-185
6	6.4	1.7	940	0.8	10.82	-187
5	6.5	1.8	970	0.7	12.85	-194
4	6.5	1.7	off	0.6	20.92	-224
3	7.8	1.6	off	2.9	29.99	-142
2	9.3	1.4	970	4.5	30.65	-123
1.5	9.5	1.3	930	5.2	30.94	-111
1.0	9.5	1.3	930	6.0	33.86	-83
0.5	9.2	2.2	530	6.3	33.35	-75
Surface	8.8	0.71	520	7.2	34.01	-65

Location McCormick, SC Date 07/14/2010
 Project / Client US EPA Region 4 / Barite Hills

- 1740: START Berrios consulted with PM readings collected
 1820: START Berrios & Kenny from CMC set up
 de caustic half way to discharge what
 is left in the NaOH (50%) tank, overnight.
 This decision was consulted with START
 Project manager, Russell Henderson.
 1825: START & CMC are preparing to leave
 the site.
 note: START & CMC will meet at
 0700 on site.
 1900: START & CMC locking site's gates.
 2000: START Berrios is working on data
 spreadsheets to be sent to START Hen-
 derson.
 2027: START Berrios sent data spreadsheet
 to START Henderson.

7/14/10

Location McCormick, SC Date 07/15/2010
 Project / Client US EPA Region 4 / Barite Hills

weather: Sunny and at 75°F

0700: Arrived to the site and began detaching
 the ~~caustic~~^{base} from the ~~NaOH tank~~^{caustic} at the
 NaOH tank.

0723: START & CMC detached the
 caustic from the tank and rinsed
 it with DI water.

0755: Readings collected at the sha-
 llow end.

	pH
bottom	6.8
mid	7.0
surface	8.8

Depth	pH	Cond	Turb	DO	Temp	ORP
15	6.1	0.78	920	1.6	11.76	-7
14	5.2	0.70	off	1.4	10.64	-129
13	5.7	0.82	off	1.3	10.39	-149
12	5.9	0.89	off	1.2	10.32	-154
11	6.0	0.93	990 off	1.1	10.30	-158
10	6.1	0.98	950	1.1	10.28	-160
9	6.1	1.6	960	1.0	10.30	-163
8	6.2	1.7	960	1.0	10.37	-164
7	6.2	1.8	off	0.9	10.92	-165
6	6.3	1.8	off	0.9	11.93	-171

Location McCormick, SC Date 07/15/2010
 Project / Client Barite Hills / US EPA Region 4

Depth	pH	Cond	Turb	DO	Temp	ORP
5	6.3	1.8	off	0.8	13.81	-179
4	6.4	1.7	26	0.8	17.42	-197
3	8.8	2.1 3.2	31	4.1	30.10	-113
2	9.3	3.8	26	5.2	30.38	-98
1.5	9.4	5.0	25	5.1	30.46	-85
1.0	9.5	4.8	24	5.3	30.51	-73
0.5	9.5	5.3 6.1	25	4.4	30.53	-66
Surface	9.4	33	off	9.3	30.40	-62

0930: START taking readings of area close to the plume: average of 8.0 in 3 areas.

1010: START & CMC getting prepared to detach the hoses from the pump.

1030: START & CMC detaching the hoses

11:00: START & CMC attached pump to truck

1105: REAC arrived to pick up the tank

1137: REAC left with the tank

1150: START and CMC moved the intake hose up to the hill (where it was)

1200: START taking pictures of site after activities were finished.

1230: START Berrios & CMC Kenny Smith

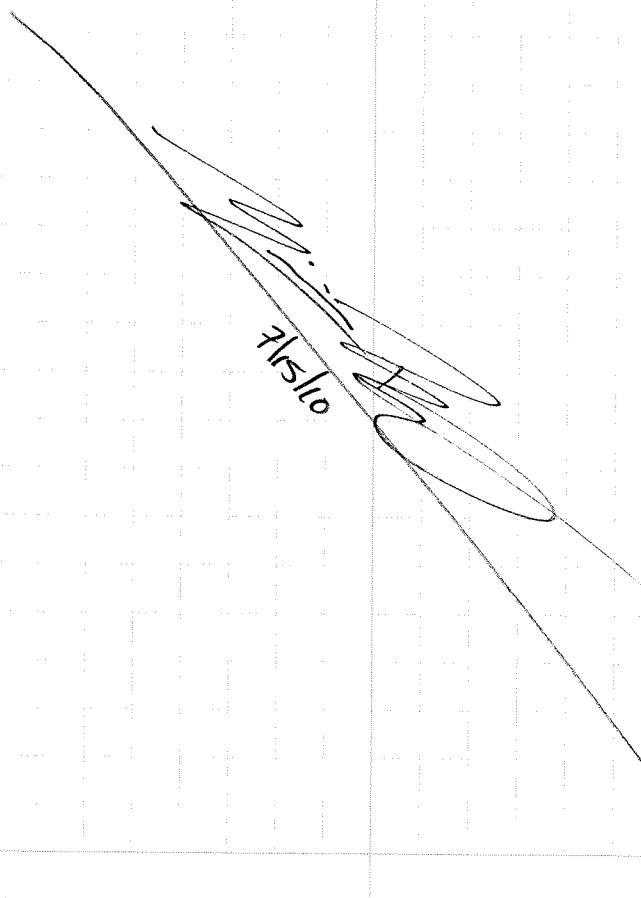
Location McCormick, SC Date 07/15/2010
 Project / Client Barite Hills / US EPA Region 4

left the site.

1235: Began Demob

1440: START Berrios arrived to Atlanta area

1700: START Berrios sent data spreadsheet to START Henderson.



Location Barite Removal Date 10/14/10Project / Client EPA R4Clear 67° F

09:32 Arrive on site. Await
 OSC Jordan Garrard + RPM
 Candice Jackson. Prep + Cal
 Horiba for measurement even.

10:16 Travel to Pit point to Mensur.

Depth	PH	Cond	Turb	DO	Temp	OKP
15	5.7	0.43	48	0.00	12.93	-124
14	5.8	0.47	130	0.00	12.74	-126
13	5.9	0.48	88	0.00	12.31	-130
12	5.9	0.49	130	0.00	12.03	-132
11	5.9	0.43	92	0.00	11.68	-133
10	6.0	0.40	OFF	0.00	11.37	-134
9	6.0	0.40	OFF	0.00	11.24	-133
8	6.0	0.39	750	0.00	11.15	-135
7	6.0	0.39	OFF	0.00	11.18	-142
6	6.0	0.38	OFF	0.00	11.50	-145
5	6.0	0.38	OFF	0.00	12.11	-151
4	6.1	0.38	OFF	0.22	15.55	-180
3	6.3	0.35	110	2.40	19.11	-49
2	6.4	0.34	OFF	4.40	20.64	-28
1	6.4	0.33	80	6.40	21.88	-15
.5	6.5	0.33	34	6.40	22.33	-6
5	6.5	0.33	19	6.50	22.46	+5

Location Barite Removal Date 10/14/10 31Project / Client EPA R4Clear 75° F

10:16 Water quality readings - 15-
 readings in table reflect readings
 collected w horiba taken from
 15 meters, then 14 + so forth
 @ 1 meter intervals until surface
 reading collected.

11:14 return to shore collect
 photos of site conditions +
 had discussions w OSC +
 Jordan Garrard + RPM
 Candice Jackson.
 12:30

