

Mr. Shane Nelson, RPM/OSC
U.S. Environmental Protection Agency—Region 2
Emergency and Remedial Response Division
290 Broadway, Floor 19
New York, NY 10007-1866

November 8, 2019

**Subject: Quanta Resources Corporation Superfund Site, Operable Unit 1 (OU1), Edgewater, New Jersey,
Progress Report: October 2019**

Dear Mr. Nelson,

This letter is the progress report required pursuant to the U.S. Environmental Protection Agency (EPA) Consent Decree for the Remedial Design (RD) and Remedial Action (RA) at the Quanta Resources Corporation Superfund Site, OU1, which was finalized with the courts on March 11, 2013.

Health and Safety

- Through October 29, 2019, approximately 190,182 labor hours worked.

Work Completed

The activities completed during October to comply with the Consent Decree are described in the following subsections. Figure 1 (attached) depicts the work activities completed as of the end of October.

OU1 General Civil Work

- Supported site contractor operations and continued general site maintenance activities.
- Continued realignment of onsite utilities to accommodate future ISS activities.

OU1 ISS

- Continued debris removal and ISS activities at Tent 3-2 located in ISS Area 3A (northwest corner of Site). Nine (9) cells (2,293 CY of material) were treated.
- Continued debris removal and ISS activities at Tent 7-1 located in ISS Area 7B (adjacent to the bulkhead). Eight (8.25) cells (2,202 CY of material) were treated.
- Completed debris removal and ISS activities in five (5) additional cells in Area 6A outside of tents (adjacent to and south of the Pier Building). Five (5) cells (726 CY of material) were treated.
- ISS completed to date is shown on the attached map.

OU1 Bulkhead Installation

- Completed installation of the remaining portions of the sheet pile. Sheeting of the bulkhead is completed in its entirety.

- Began installation of whaler and installation of tie-rod stubs in Segment B.

OU1 Vibration and Air Monitoring

- Continued with vibration and movement monitoring. Observed no vibrations outside the project limits during October.
- Continued perimeter air monitoring in accordance with the Perimeter Air Monitoring Plan and the applicable adjustments/addendums.

OU1 Offsite Waste Disposal

- Non-Hazardous
 - Six (6) 30-cy roll-offs of wood debris to Conestoga Landfill in Morgantown, PA.
 - One (1) 30-cy roll-off of scrap metal for recycling to Evergreen Recycling Solutions in Newark, NJ.
 - Eighty (80) 25-cy dump trucks of soil were removed from Tent 7-1 and sent to Conestoga Landfill in Morgantown, PA.
- Hazardous
 - There was no hazardous waste shipped from the Site in October.

OU1 NAPL Recovery

- Baildown tested RW4-2 on October 24.
- Gauged accessible sentry wells on October 30.
- Pumped 42 gallons of NAPL from RW4-2.

Site Security, Maintenance, and Inspections

- Completed weekly boom inspections on October 3, October 11, October 17, October 25, and October 31.
- Replaced inner absorbent boom on October 1 and replaced inner and outer absorbent boom on October 21.
- Performed necessary repairs to the outer hard boom on October 9.
- Completed weekly SWPPP inspections on October 3, October 9, October 17, October 25, and October 31.

Two-Week Look-Ahead

- Continue NAPL pumping at RW4-2.
- Gauge sentry wells.
- Complete debris removal and ISS activities inside Tent 7-1 located in ISS Area 7B (adjacent to the bulkhead) and begin installation of permanent deadman and tie-rod system.
- Continue with debris removal and ISS activities in Tent 3-2 located in ISS Area 3A (northwest corner of Site).
- Complete installation of the whaler and tie-rod stubs at the Segment B bulkhead and temporarily restore area.
- Begin final restoration activities in Area 6A (adjacent to and south of the Pier Building).
- Continue realigning onsite utilities to prepare for future ISS activities.

Data and Submittals

ISS Compliance Data Summary

All samples required to demonstrate ISS compliance with the unconfined compressive strength and permeability criteria, and the 90 percent leaching reduction goal have been collected as required by the approved remedial action work plan and QAPP this month. The ISS Results Dashboards (Attachment A) presents both results for 28-day cure time compliance samples and earlier conformance data results (that is, for cure times less than 28 days) where available. All compliance sample results received in the past month met the ROD requirements.

Air Monitoring

Provided perimeter and offsite air monitoring data when received (typically daily) to EPA. Results continue to show non-detects for naphthalene at the residential receptors during intrusive activities. These results were uploaded upon receipt to www.quantaremediation.com

Other Deliverables and Submittals

- Submitted an addendum (Addendum #3) to the Perimeter Air Monitoring Plan to EPA on October 30 detailing a stepwise approach for optimizing the air monitoring plan based on the success of managing emissions the tents have shown.

Receipt of Approvals

- Received approved from EPA on October 24 to allow for placement of tents within 150-feet of the project boundary.

Issues and Corrective Actions

No corrective actions were taken during this reporting period.

Stakeholder Communication and Community Involvement

- Submitted the monthly progress report for September on October 10.
- Reviewed and updated the Honeywell website as needed. Coordinated preparation of written updates and maps and submitted progress photos.
- Tracked community concerns and complaints. In October, one community concern was submitted to EPA through the call center hotline and several emails were received about temporary lighting.
- Provided weekly and as-needed progress updates for email distribution to pier tenants.
- Submitted weekly updates to EPA summarizing upcoming site activities.
- Uploaded daily air monitoring results to www.quantaremediation.com

Activities Planned for Next 6 Weeks

- Continue with NAPL recovery operations and submit the next quarterly data transmittal.
- Continue weekly boom inspections and SWPPP inspections and associated maintenance.
- Complete ISS activities within Tent 3-2 (northwest corner of the site) and cover the soil stockpile and installation of temporary cap inside the tent. Begin to relocate the tent to the next location in Area 3A.
- Begin and complete installation of the permanent deadman and tie-rod system for the bulkhead in Tent 7-1 in ISS Area 7B (adjacent to bulkhead) and install temporary cap inside tent.
- Relocate tent along the bulkhead to the next location (north of the current location on the bulkhead).

- Being ISS activities outside of tents in Area 7 and Area 8.

Schedule Update and Delays

The schedule is currently being completed and will be provided once finalized. Phase 2 activities are anticipated to extend into mid to late 2020.

Percent Complete

Work associated with the OU1 Remedial Action is approximately 62 percent complete.

Please feel free to contact me at 267-250-7387 or Steve Coladonato, Honeywell Remediation Manager, at 302-791-6738 if you have any questions or comments regarding the Quanta project.

Sincerely,



Stephen J. Zarlinski
Project Manager

Attachment – Figure 1 - ISS Status Map

Copies to:

Clay Monroe (EPA)
Steve Coladonato (Honeywell)
Erica Bergman (NJDEP)
Helen Fahy (Fahy Associates)
Neil Ravensbergen (USACE)
Frank Rossi (Boswell)
Michael Johnson (USACE)
Devin Sokolich (Hongkun USA)

Rich Puvogel (EPA)
John Mojka (Honeywell)
Greg Franz (Borough of Edgewater)
Tim Johnson (Anchor QEA)
Rich Gajdek (USACE)
Neil Kolb (USACE)

In Situ Solidification/Stabilization Results Dashboard, Tent 3-1 (Leaching Batch 5)

Quanta Resources Corporation Superfund Site, OU1

Data through: 10/28/2019

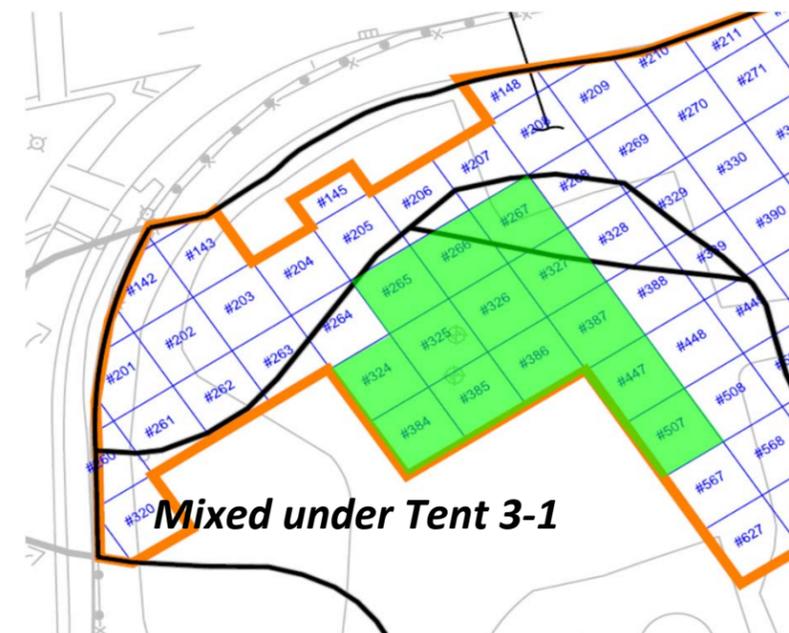
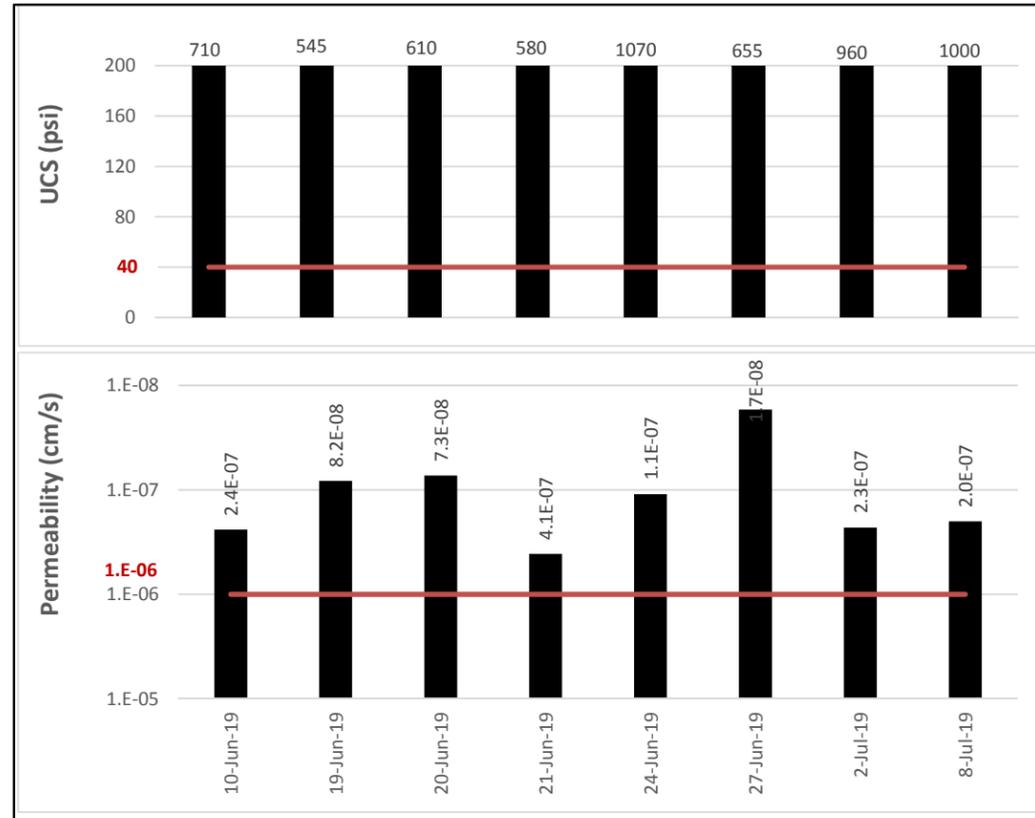
Tent	Date	Volume (CY)	Mix Design		UCS (≥40 psi)	Permeability (≤1E-6 cm/s)
			Cement	Slag		
3-1	10-Jun-19	288	2%	6%	710	2.40E-07
3-1	19-Jun-19	167	2%	6%	545	8.20E-08
3-1	20-Jun-19	166	2%	6%	610	7.30E-08
3-1	21-Jun-19	280	2%	6%	580	4.10E-07
3-1	24-Jun-19	147	2%	6%	1070	1.10E-07
3-1	27-Jun-19	343	2%	6%	655	1.70E-08
3-1	2-Jul-19	343	2%	6%	960	2.30E-07
3-1	8-Jul-19	342	2%	6%	1000	2.00E-07

Total CY Mixed: 2076

Leaching Reduction by Constituent			
Site Constituent	8-Jul-19		
1 Arsenic			
2 Benzene			
3 Toluene			
4 Ethylbenzene			
5 Total Xylenes			
6 Naphthalene			
7 Acenaphthene			
8 Acenaphthylene			
9 Anthracene			
10 Benzo(a)anthracene			
11 Benzo(a)pyrene			
12 Benzo(b)fluoranthene			
13 Benzo(g,h,i)perylene			
14 Benzo(k)fluoranthene			
15 Chrysene			
16 Dibenz(a,h)anthracene			
17 Fluoranthene			
18 Fluorene			
19 Indeno(1,2,3-cd)pyrene			
20 Phenanthrene			
21 Pyrene			
Constituents Passing			

Data Pending

Leaching calculations for each constituent provided in the ISS Memo for this Parcel. Boxed sample dates on table above indicate collection of a leaching sample. Constituents with 90+% reduction are shaded green. NE - Not Evaluated; constituent not detected in baseline sample.



Note: Mixed areas awaiting EPA inspection indicated with blue shading. Green cells are

In Situ Solidification/Stabilization Results Dashboard, Tent 3-1 (Leaching Batch 5)

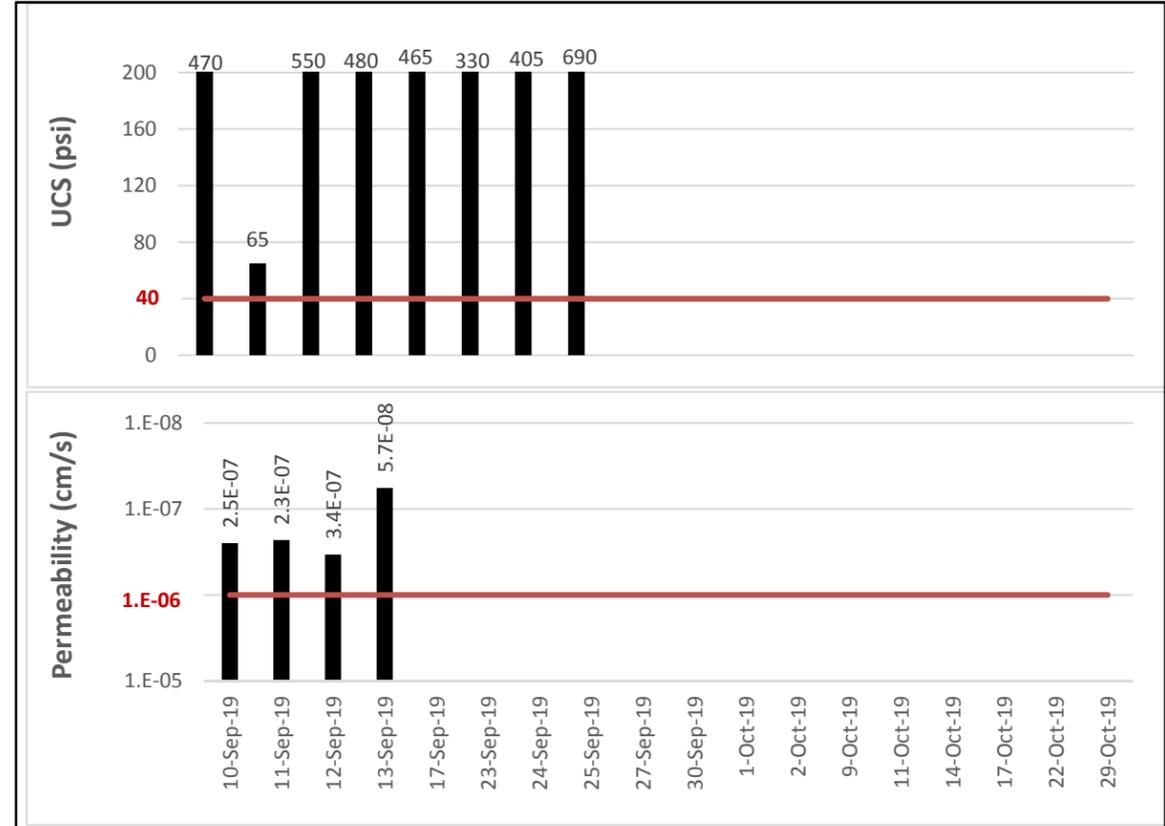
Quanta Resources Corporation Superfund Site, OU1

Data through: 10/31/2019

Tent	Date	Volume (CY)	Mix Design		UCS (≥ 40 psi)	Permeability ($\leq 1E-6$ cm/s)
			Cement	Slag		
3-2	10-Sep-19	179	2%	6%	470	2.50E-07
3-2	11-Sep-19	339	2%	6%	65	2.30E-07
3-2	12-Sep-19	293	2%	6%	550	3.40E-07
3-2	13-Sep-19	182	2%	6%	490	5.70E-08
3-2	17-Sep-19	343	2%	6%	465	
3-2	23-Sep-19	342	2%	6%	330	
3-2	24-Sep-19	329	2%	6%	405	
3-2	25-Sep-19	328	2%	6%	690	
3-2	27-Sep-19	414	2%	6%		
3-2	30-Sep-19	304	2%	6%		
3-2	1-Oct-19	348	2%	6%		
3-2	2-Oct-19	355	2%	6%		
3-2	9-Oct-19	306	2%	6%		
3-2	11-Oct-19	320	2%	6%		
3-2	14-Oct-19	71	2%	6%		
3-2	17-Oct-19	301	2%	6%		
3-2	22-Oct-19	320	2%	6%		
3-2	29-Oct-19	273	2%	6%		

Total CY Mixed: 5347

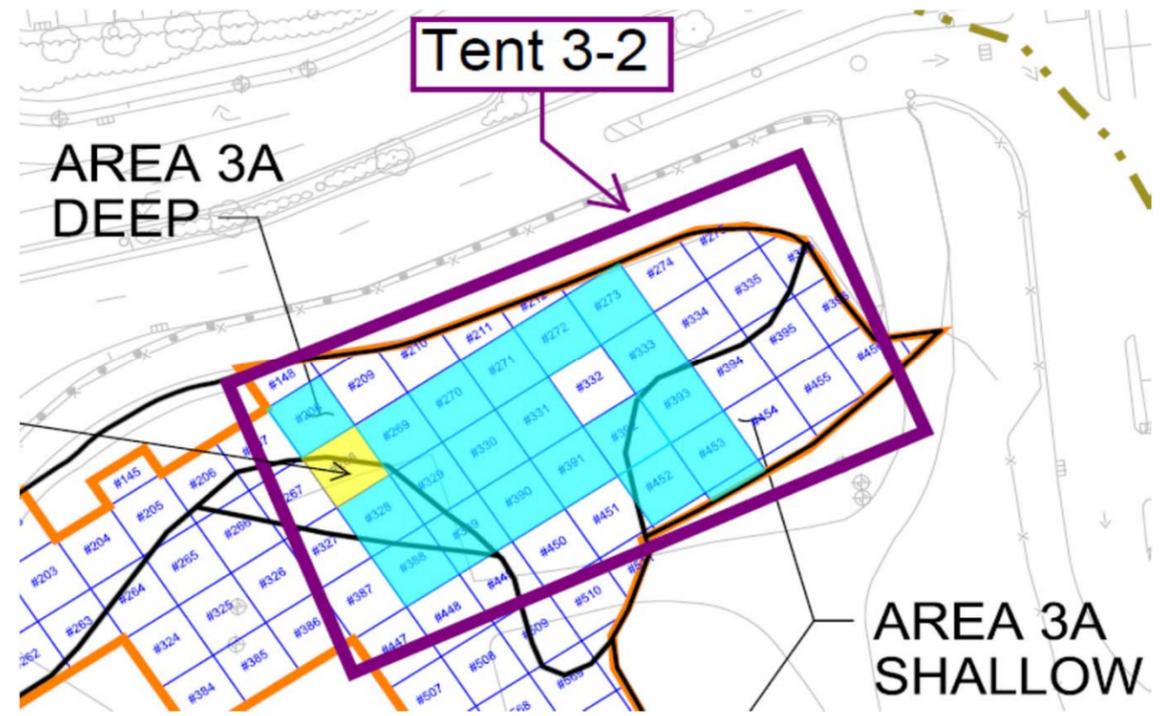
Data Pending



Leaching Reduction by Constituent

Site Constituent	11-Oct-19		
1 Arsenic			
2 Benzene			
3 Toluene			
4 Ethylbenzene			
5 Total Xylenes			
6 Naphthalene			
7 Acenaphthene			
8 Acenaphthylene			
9 Anthracene			
10 Benzo(a)anthracene			
11 Benzo(a)pyrene			
12 Benzo(b)fluoranthene			
13 Benzo(g,h,i)perylene			
14 Benzo(k)fluoranthene			
15 Chrysene			
16 Dibenz(a,h)anthracene			
17 Fluoranthene			
18 Fluorene			
19 Indeno(1,2,3-cd)pyrene			
20 Phenanthrene			
21 Pyrene			
Constituents Passing			

Data Pending



In Situ Solidification/Stabilization Results Dashboard, Tent 7-1 (Leaching Batch 6)

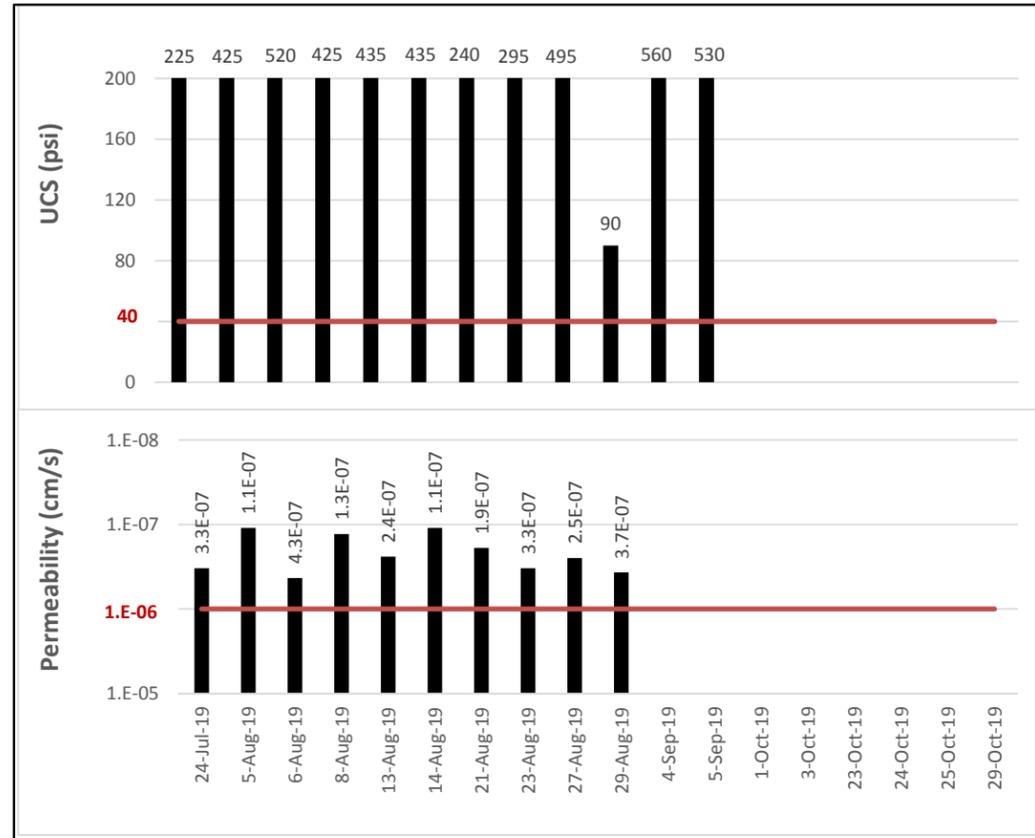
Quanta Resources Corporation Superfund Site, OU1

Data through: 10/31/2019

Tent	Date	Volume (CY)	Mix Design		UCS (≥40 psi)	Permeability (≤1E-6 cm/s)
			Cement	Slag		
7-1	24-Jul-19	536	2%	6%	225	3.3E-07
7-1	5-Aug-19	494	2%	6%	425	1.1E-07
7-1	6-Aug-19	488	2%	6%	520	4.3E-07
7-1	8-Aug-19	468	2%	6%	425	1.3E-07
7-1	13-Aug-19	502	2%	6%	435	2.4E-07
7-1	14-Aug-19	524	2%	6%	435	1.1E-07
7-1	21-Aug-19	354	2%	6%	240	1.9E-07
7-1	23-Aug-19	323	2%	6%	295	3.3E-07
7-1	27-Aug-19	291	2%	6%	495	2.5E-07
7-1	29-Aug-19	298	2%	6%	90	3.7E-07
7-1	4-Sep-19	335	2%	6%	560	
7-1	5-Sep-19	282	2%	6%	530	
7-1	1-Oct-19	457	2%	6%		
7-1	3-Oct-19	246	2%	6%		
7-1	23-Oct-19	596	2%	6%		
7-1	24-Oct-19	290	2%	6%		
7-1	25-Oct-19	313	2%	6%		
7-1	29-Oct-19	300	2%	6%		

Total CY Mixed: 7096

Data Pending



Leaching Reduction by Constituent			
Site Constituent	8-Aug-19	23-Oct-19	
1 Arsenic			
2 Benzene			
3 Toluene			
4 Ethylbenzene			
5 Total Xylenes			
6 Naphthalene			
7 Acenaphthene			
8 Acenaphthylene			
9 Anthracene			
10 Benzo(a)anthracene			
11 Benzo(a)pyrene			
12 Benzo(b)fluoranthene			
13 Benzo(g,h,i)perylene			
14 Benzo(k)fluoranthene			
15 Chrysene			
16 Dibenz(a,h)anthracene			
17 Fluoranthene			
18 Fluorene			
19 Indeno(1,2,3-cd)pyrene			
20 Phenanthrene			
21 Pyrene			

Data Pending

Constituents Passing

Leaching calculations for each constituent provided in Attachment 5 of the ISS Memo for this Parcel. Boxed sample dates on table above indicate collection of a leaching sample. Constituents with 90+% reduction are shaded green. NE



Note: Mixed areas awaiting EPA inspection indicated with blue shading. Green cells are mixed and have been inspected.

In Situ Solidification/Stabilization Results Dashboard, NT-61 (Leaching Batch 7)

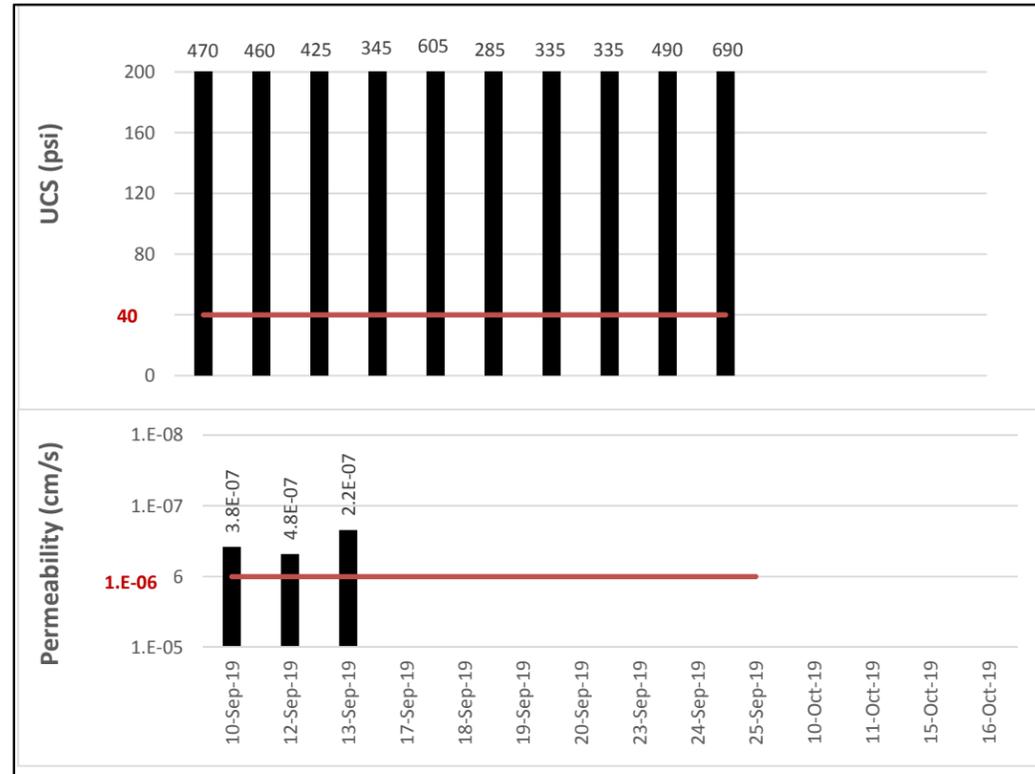
Quanta Resources Corporation Superfund Site, OU1

Data through: 10/31/2019

Area	Date	Volume (CY)	Mix Design		UCS (≥40 psi)	Permeability (≤1E-6 cm/s)
			Cement	Slag		
NT-61	10-Sep-19	237	4%	6%	470	3.8E-07
NT-61	12-Sep-19	247	4%	6%	460	4.8E-07
NT-61	13-Sep-19	220	4%	6%	425	2.2E-07
NT-61	17-Sep-19	292	4%	6%	345	
NT-61	18-Sep-19	266	4%	6%	605	
NT-61	19-Sep-19	354	4%	6%	285	
NT-61	20-Sep-19	239	4%	6%	335	
NT-61	23-Sep-19	244	4%	6%	335	
NT-61	24-Sep-19	221	4%	6%	490	
NT-61	25-Sep-19	226	4%	6%	385	
NT-61	10-Oct-19	225	4%	6%		
NT-61	11-Oct-19	210	4%	6%		
NT-61	15-Oct-19	172	4%	6%		
NT-61	16-Oct-19	118	4%	6%		

Total CY Mixed: 3271

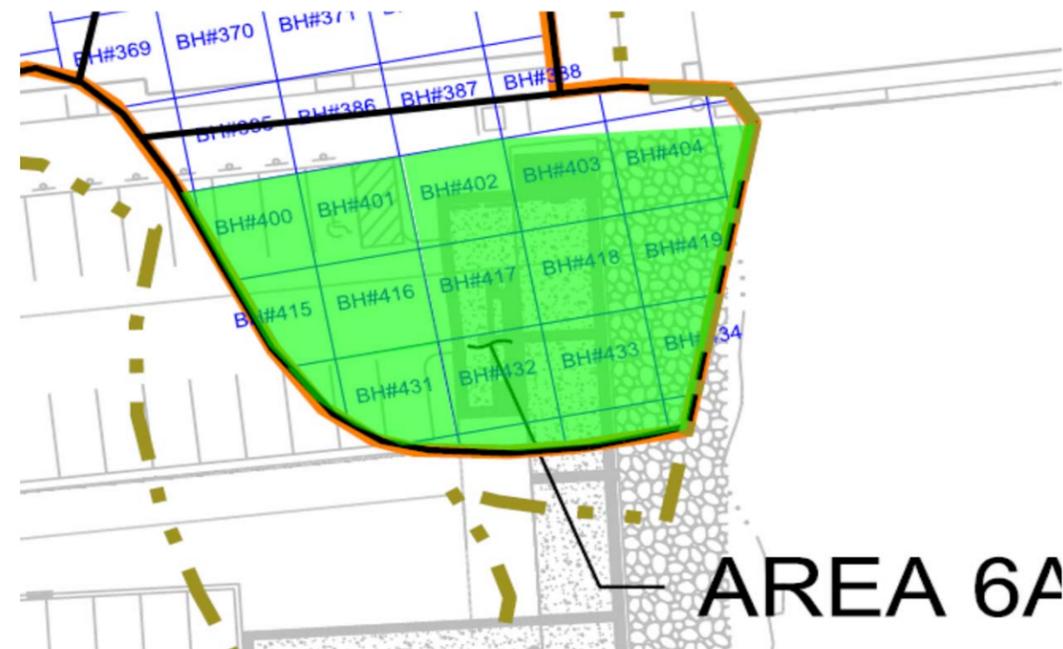
Data Pending



Leaching Reduction by Constituent		13-Sep-19		
1	Arsenic			
2	Benzene			
3	Toluene			
4	Ethylbenzene			
5	Total Xylenes			
6	Naphthalene			
7	Acenaphthene			
8	Acenaphthylene			
9	Anthracene			
10	Benzo(a)anthracene			
11	Benzo(a)pyrene			
12	Benzo(b)fluoranthene			
13	Benzo(g,h,i)perylene			
14	Benzo(k)fluoranthene			
15	Chrysene			
16	Dibenz(a,h)anthracene			
17	Fluoranthene			
18	Fluorene			
19	Indeno(1,2,3-cd)pyrene			
20	Phenanthrene			
21	Pyrene			
Constituents Passing				

Data Pending

Leaching calculations for each constituent provided in the ISS Memo for this Parcel. Boxed sample dates on table above indicate collection of a leaching sample. Constituents with 90+% reduction are shaded green. NE - Not Evaluated; constituent not detected in baseline sample.



Note: Mixed areas awaiting EPA inspection indicated with blue shading. Green cells are mixed and have been inspected.