

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

July 6, 2018

**Subject: Quanta Resources Corporation Superfund Site, Operable Unit 1 (OU1), Edgewater, New Jersey, Progress Report: June 2018**

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 June 2018, approximately 99,445 labor hours worked without a lost-time incident.
- No recordable incidents occurred during the month of June.

## **Work Completed**

The activities completed during June to comply with the Consent Decree and are described in the following subsections. Figure 1, on the following page, depicts the work activities completed as of the end of June.

### **OU1 NAPL Recovery**

- Gauged accessible sentry wells on June 26, 2018.
- Performed routine maintenance on the RW4-2 pump
- 85 gallons of NAPL were collected from RW4-2 during recovery operations in June.
- Pumping frequency was increased from bi-weekly to daily in June.

### **OU1 General Civil Work**

- Continued with odor/dust suppression and stockpile management, as needed
- Continued with site cleanup activities
- Continued with installation of Pier Building utilities

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**Figure 1. Bulkhead and In Situ Solidification/Stabilization (ISS) Progress through June 2018**



*ISS areas shown are approximate and not drawn to scale.*

## **OU1 Bulkhead Installation**

- No work activities occurred during the month of June.

## **OU1 ISS**

- ISS activities were halted during the month of June and no new cells were treated.
- Continued site cleanup activities for summertime suspension. Included covering the site with DGA and removing equipment for the summer.
- Operated the perimeter misting systems

## **OU1 Vibration and Air Monitoring**

- Continued with vibration and movement monitoring
- Continued perimeter air monitoring in accordance with the Perimeter Air Monitoring Plan and the increased sampling plan which includes a total of nine offsite locations and three onsite locations.
- Observed no vibrations outside the project limits during June.

## **OU1 Offsite Waste Disposal**

- Nonhazardous
  - One 30-yd<sup>3</sup> roll-off of mixed materials to EverGreen Recycling Solutions in Newark, NJ



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- One 30-yd<sup>3</sup> roll-off of mixed material to C.E.C.S, Inc of Columbia, SC
- One 10-yd<sup>3</sup> roll-off of PPE debris EverGreen Recycling Solutions in Newark, NJ
- Hazardous
  - Two 55-gallon drums of NAPL to Veolia in Flanders, NJ
  - Three 55-gallon drums of NAPL stained PPE to CycleChem in Lewisburg, PA

### **Site Security, Maintenance, and Inspections**

- Completed weekly boom inspections and SWPP inspections on June 6, June 12, June 20, and June 26, 2018
- No site security issues for the month of June

### **Two-Week Look-Ahead**

- Continue daily pumping at RW4-2
- Gauge sentry wells
- Complete summer-time suspension activities to clean up the site for the period of time when no work will be ongoing.

### **Data and Submittals**

#### **ISS Compliance Data Summary**

All required samples 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.
- Provided EPA the proposed dust monitoring plan associated with the 115 River Road demolition.

#### **Other Deliverables and Submittals**

- Submitted a technical memorandum detailing the proposed remedy for the High Concentration Arsenic Area on June 12, 2018.
- Received EPA approved on the ISS Completion Report on June 14, 2018.
- Submitted the South Garage Pile Plan to EPA for approval on June 20, 2018. This was associated with a proposed deck installation on the southern portion of The Metropolitan property.



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## Issues and Corrective Actions

### Summer Time Suspension

Suspension of the remediation at the site occurred on May 18<sup>th</sup> to prepare for the demolition of the 115 River Road building. Remediation is expected to restart in Fall 2018.

### Stakeholder Communication and Community Involvement

- Submitted the monthly progress report for May on June 1.
- Tracked community concerns and complaints. In June, 28 residential concerns were submitted through the Quanta call center or by direct email. Worked with Honeywell and EPA to track calls and responses.
- Hosted and attended biweekly calls on June 6 and June 20 with EPA, NJDEP, USACE, Honeywell, and CH2M
- Provided weekly and as-needed progress updates for email distribution to pier tenants.
- Uploaded daily air monitoring results to [www.quantaremediation.com](http://www.quantaremediation.com)
- Submitted offsite air monitoring results to Honeywell for the website after approval by EPA. Developed draft website text to describe upcoming demolition work.
- Provided updated site progress map, construction photos, and laboratory air quality results biweekly for project website. Reviewed website weekly and submitted text changes as needed.

### Activities Planned for Next 6 Weeks

- Start the hazardous waste removal of 115 River Road Road in preparation of demolition in August 2018.

### Schedule Update and Delays

The overall schedule for the OU1 remediation has been extended because of the delays described in the following subsections (for this reporting period) and in prior status reports. As of June, remediation work has been suspended and will plan to be remobilized in late Summer or Fall 2018. Prior to remobilization for remediation activities, an updated schedule will be provided.

### Percent Complete

Work associated with the OU1 ISS Remedial Action is approximately 53 percent complete. An updated schedule is being prepared based on the items noted above.

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,



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Stephen J. Zarlinski  
Project Manager

Enclosures: Attachment A, ISS Results Dashboards

Copies to:

Clay Monroe (EPA)  
Steve Coladonato (Honeywell)  
Erica Bergman (NJDEP)  
Helen Fahy (Fahy Associates)  
Neil Ravensbergen (USACE)  
Frank Rossi (Boswell)  
Neil Kolb (USACE)  
John Tsun (Bosswell Engineering)

Rich Puvogel (EPA)  
John Mojka (Honeywell)  
Greg Franz (Borough of Edgewater)  
Jose Sananes (Ramboll)  
Rich Gajdek (USACE)  
Richard Ho (EPA)  
Michael Johnson (USACE)



## Attachment A: ISS Results Dashboards

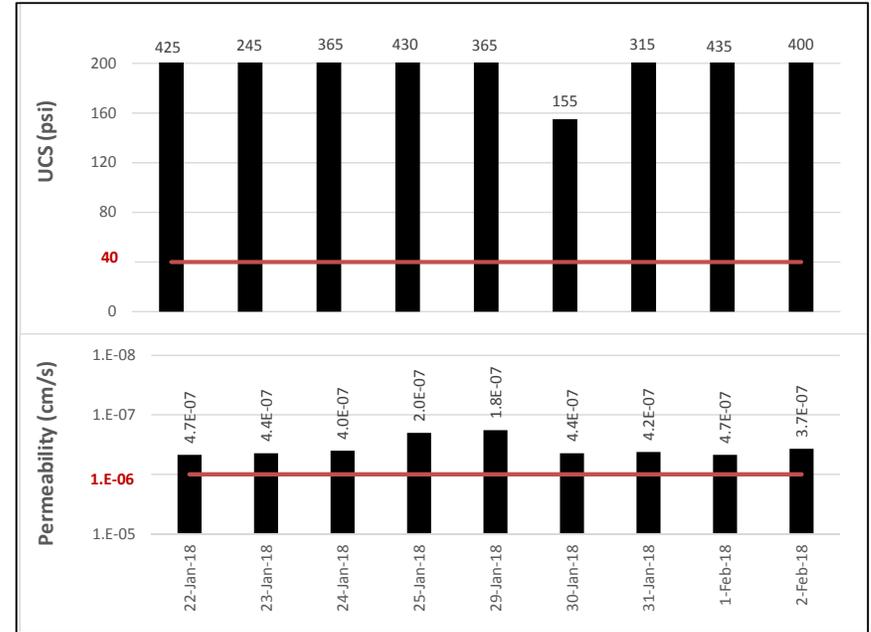
## In Situ Solidification/Stabilization Results Dashboard, Area 3A (Leaching Batch 3)

Quanta Resources Corporation Superfund Site, OU1

Data through: 6/25/2018

Area	Date	Volume (CY)	Actual Mix		UCS (≥40 psi)	Permeability (≤1E-6 cm/s)
			Cement	Slag		
3A	22-Jan-18	452	2%	6%	MEETS	MEETS
3A	23-Jan-18	574	2%	6%	MEETS	MEETS
3A	24-Jan-18	585	2%	6%	MEETS	MEETS
3A	25-Jan-18	603	2%	6%	MEETS	MEETS
3A	29-Jan-18	725	2%	6%	MEETS	MEETS
3A	30-Jan-18	434	2%	6%	MEETS	MEETS
3A	31-Jan-18	585	2%	6%	MEETS	MEETS
3A	1-Feb-18	572	2%	6%	MEETS	MEETS
3A	2-Feb-18	399	2%	6%	MEETS	MEETS

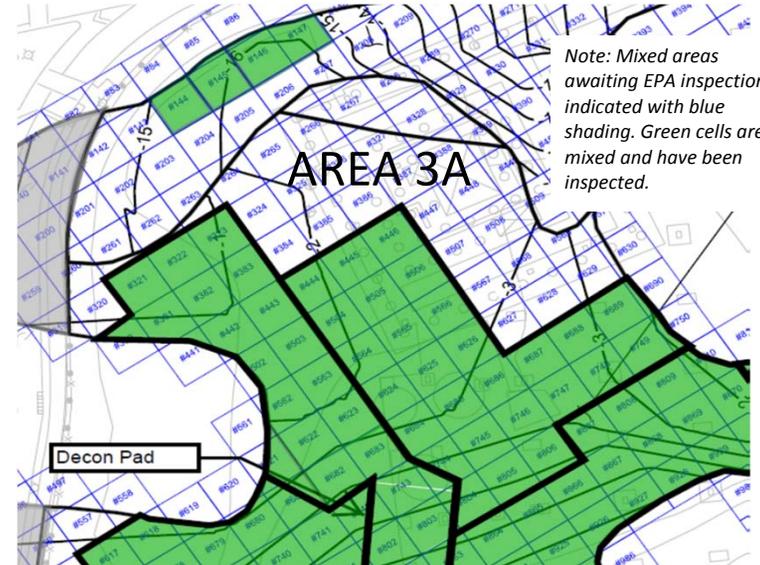
Total CY Mixed: **4929**



Leaching Reduction by Constituent					
Site Constituent			Site Constituent		
1	Arsenic	100%	12	Benzo(b)fluoranthene	83%
2	Benzene	99%	13	Benzo(g,h,i)perylene	NE
3	Toluene	99%	14	Benzo(k)fluoranthene	NE
4	Ethylbenzene	99%	15	Chrysene	43%
5	Total Xylenes	99%	16	Dibenz(a,h)anthracene	NE
6	Naphthalene	96%	17	Fluoranthene	0%
7	Acenaphthene	94%	18	Fluorene	91%
8	Acenaphthylene	95%	19	Indeno(1,2,3-cd)pyrene	NE
9	Anthracene	92%	20	Phenanthrene	85%
10	Benzo(a)anthracene	59%	21	Pyrene	3%
11	Benzo(a)pyrene	79%			

Constituents Passing **10 of 17**

Leaching Criteria: 90% or greater reduction in leachability for the majority of the site constituents. NE - Not Evaluated; constituent not detected in baseline sample. Leaching calculations for each constituent provided in Attachment 4 of the ISS Memo for this Parcel. Representative leaching sample for Area 3A collected January 22, 2018. Boxed sample date on table above indicates collection of a leaching sample. Constituents with 90+% reduction are shaded green.



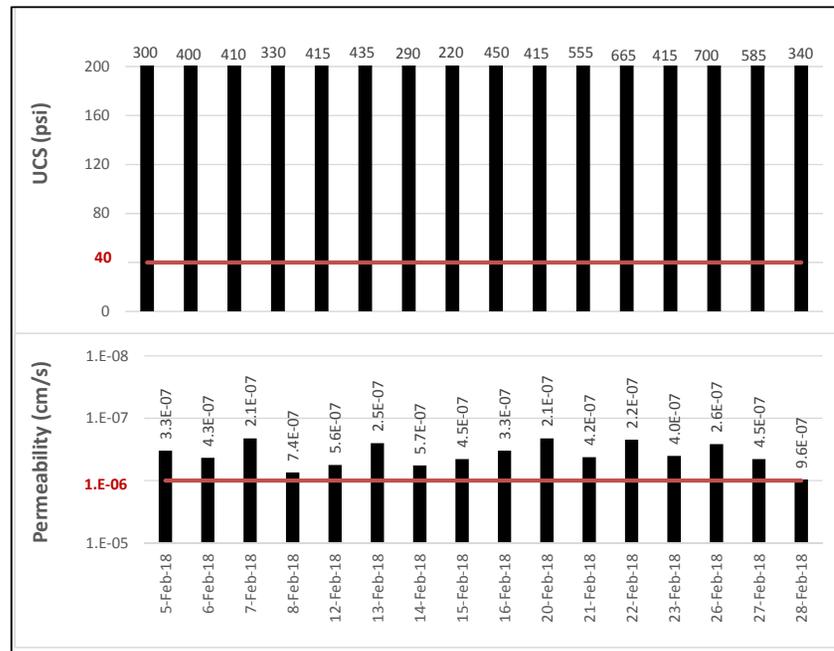
### In Situ Solidification/Stabilization Results Dashboard, Area 3A (Leaching Batch 4)

Quanta Resources Corporation Superfund Site, OU1

Data through: 6/25/2018

Area	Date	Volume (CY)	Actual Mix		UCS (≥40 psi)	Permeability (≤1E-6 cm/s)
			Cement	Slag		
3A	5-Feb-18	527	2%	6%	MEETS	MEETS
3A	6-Feb-18	178	2%	6%	MEETS	MEETS
3A	7-Feb-18	565	2%	6%	MEETS	MEETS
3A	8-Feb-18	443	2%	6%	MEETS	MEETS
3A	12-Feb-18	296	2%	6%	MEETS	MEETS
3A	13-Feb-18	360	2%	6%	MEETS	MEETS
3A	14-Feb-18	333	2%	6%	MEETS	MEETS
3A	15-Feb-18	569	2%	6%	MEETS	MEETS
3A	16-Feb-18	314	2%	6%	MEETS	MEETS
3A	20-Feb-18	482	2%	6%	MEETS	MEETS
3A	21-Feb-18	133	2%	6%	MEETS	MEETS
3A	22-Feb-18	397	2%	6%	MEETS	MEETS
3A	23-Feb-18	511	2%	6%	MEETS	MEETS
3A	26-Feb-18	532	2%	6%	MEETS	MEETS
3A	27-Feb-18	773	2%	6%	MEETS	MEETS
3A	28-Feb-18	540	2%	6%	MEETS	MEETS

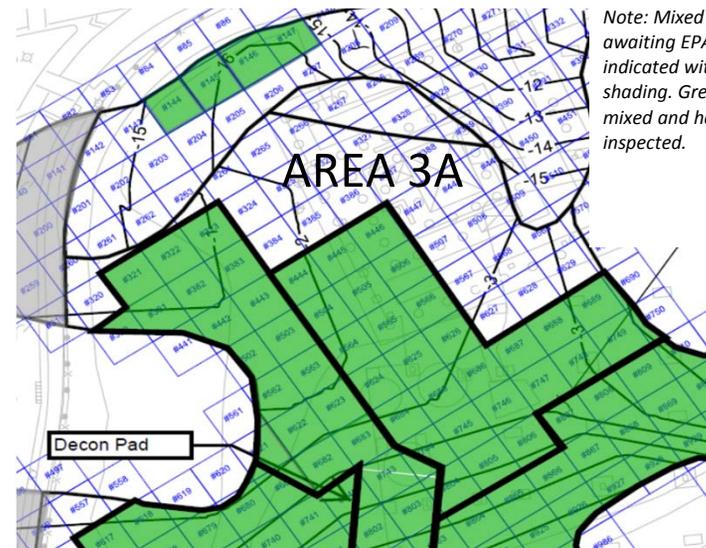
Total CY Mixed: 6953



Leaching Reduction by Constituent				
Site Constituent		Site Constituent		
1 Arsenic	99%	12 Benzo(b)fluoranthene	91%	
2 Benzene	100%	13 Benzo(g,h,i)perylene	91%	
3 Toluene	100%	14 Benzo(k)fluoranthene	85%	
4 Ethylbenzene	100%	15 Chrysene	79%	
5 Total Xylenes	100%	16 Dibenz(a,h)anthracene	NE	
6 Naphthalene	97%	17 Fluoranthene	87%	
7 Acenaphthene	95%	18 Fluorene	93%	
8 Acenaphthylene	94%	19 Indeno(1,2,3-cd)pyrene	86%	
9 Anthracene	93%	20 Phenanthrene	91%	
10 Benzo(a)anthracene	86%	21 Pyrene	54%	
11 Benzo(a)pyrene	94%			

Constituents Passing 14 of 20

Leaching Criteria: 90% or greater reduction in leachability for the majority of the site constituents. NE - Not Evaluated; constituent not detected in baseline sample. Leaching calculations for each constituent provided in Attachment 4 of the ISS Memo for this Parcel. Representative leaching sample for Area 3A collected February 6, 2018. February 26, 2018 sample is held. Boxed sample date on table above indicates collection of a leaching sample. Constituents with 90+% reduction are shaded green.



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

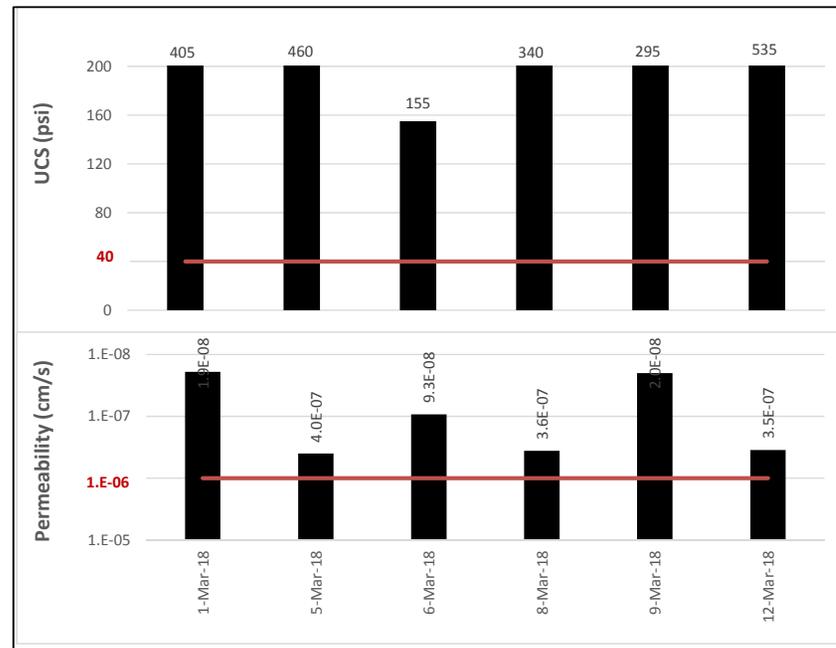
### In Situ Solidification/Stabilization Results Dashboard, Area 3C (Leaching Batch 5)

Quanta Resources Corporation Superfund Site, OU1

Data through: 6/25/2018

Area	Date	Volume (CY)	Actual Mix		UCS ( $\geq 40$ psi)	Permeability ( $\leq 1E-6$ cm/s)
			Cement	Slag		
3C	1-Mar-18	652	2%	6%	MEETS	MEETS
3C	5-Mar-18	466	2%	6%	MEETS	MEETS
3C	6-Mar-18	448	2%	6%	MEETS	MEETS
3C	8-Mar-18	325	2%	6%	MEETS	MEETS
3C	9-Mar-18	348	2%	6%	MEETS	MEETS
3C	12-Mar-18	675	2%	6%	MEETS	MEETS

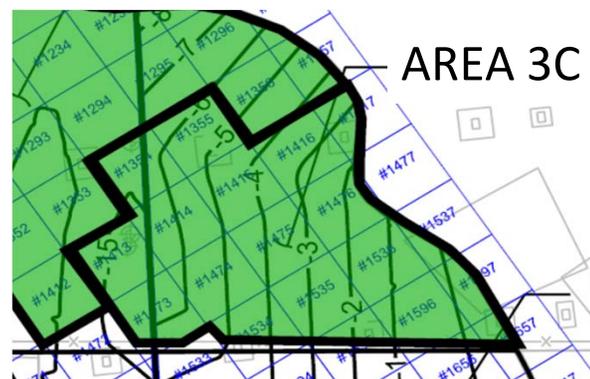
Total CY Mixed: 2914



Leaching Reduction by Constituent				
Site Constituent	Reduction	Site Constituent	Reduction	
1 Arsenic	100%	12 Benzo(b)fluoranthene	57%	
2 Benzene	100%	13 Benzo(g,h,i)perylene	NE	
3 Toluene	100%	14 Benzo(k)fluoranthene	NE	
4 Ethylbenzene	100%	15 Chrysene	68%	
5 Total Xylenes	100%	16 Dibenzo(a,h)anthracene	NE	
6 Naphthalene	96%	17 Fluoranthene	64%	
7 Acenaphthene	96%	18 Fluorene	94%	
8 Acenaphthylene	91%	19 Indeno(1,2,3-cd)pyrene	NE	
9 Anthracene	89%	20 Phenanthrene	90%	
10 Benzo(a)anthracene	73%	21 Pyrene	64%	
11 Benzo(a)pyrene	42%			

Constituents Passing TBD; analysis in progress

Leaching Criteria: 90% or greater reduction in leachability for the majority of the site constituents.  
 NE - Not Evaluated; constituent not detected in baseline sample. Leaching calculations for each constituent provided in Attachment 4 of the ISS Memo for this Parcel. Representative leaching sample for Area 3C collected March 1, 2018. Boxed sample date on table above indicates collection of a leaching sample. Constituents with 90+% reduction are shaded green.



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

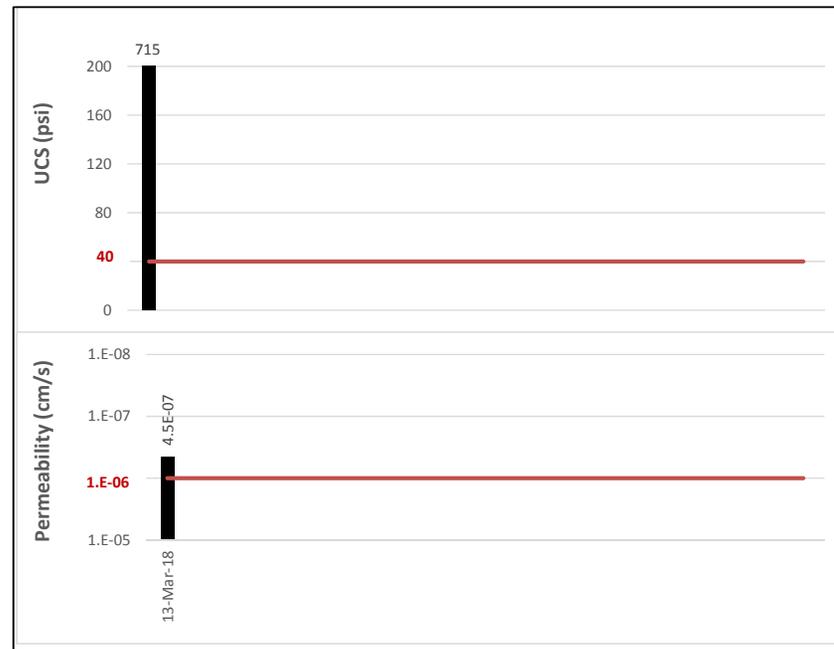
### In Situ Solidification/Stabilization Results Dashboard, Area 7B Pilot

Quanta Resources Corporation Superfund Site, OU1

Data through: 6/25/2018

Area	Date	Volume (CY)	Actual Mix		UCS (≥40 psi)	Permeability (≤1E-6 cm/s)
			Cement	Slag		
7B	13-Mar-18	283	4%	6%	MEETS	MEETS

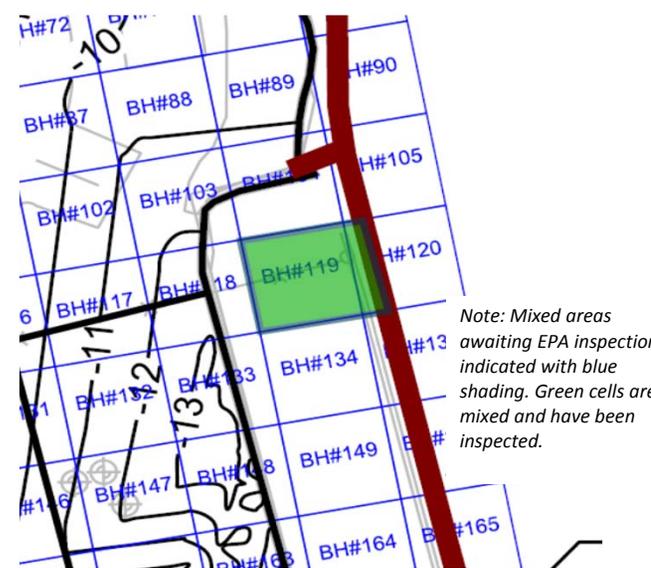
Total CY Mixed: **283**



Leaching Reduction by Constituent				
Site Constituent	Reduction %	Site Constituent	Reduction %	Notes
1 Arsenic	100%	12 Benzo(b)fluoranthene	NE	
2 Benzene	100%	13 Benzo(g,h,i)perylene	NE	
3 Toluene	99%	14 Benzo(k)fluoranthene	NE	
4 Ethylbenzene	99%	15 Chrysene	57%	
5 Total Xylenes	99%	16 Dibenz(a,h)anthracene	NE	
6 Naphthalene	93%	17 Fluoranthene	62%	
7 Acenaphthene	91%	18 Fluorene	90%	
8 Acenaphthylene	98%	19 Indeno(1,2,3-cd)pyrene	NE	
9 Anthracene	83%	20 Phenanthrene	85%	
10 Benzo(a)anthracene	81%	21 Pyrene	61%	
11 Benzo(a)pyrene	NE			

Constituents Passing TBD; analysis in progress

Leaching Criteria: 90% or greater reduction in leachability for the majority of the site constituents.  
 NE - Not Evaluated; constituent not detected in baseline sample. Leaching calculations for each constituent provided in Attachment 4 of the ISS Memo for this Parcel. Constituents with 90+% reduction are shaded green.

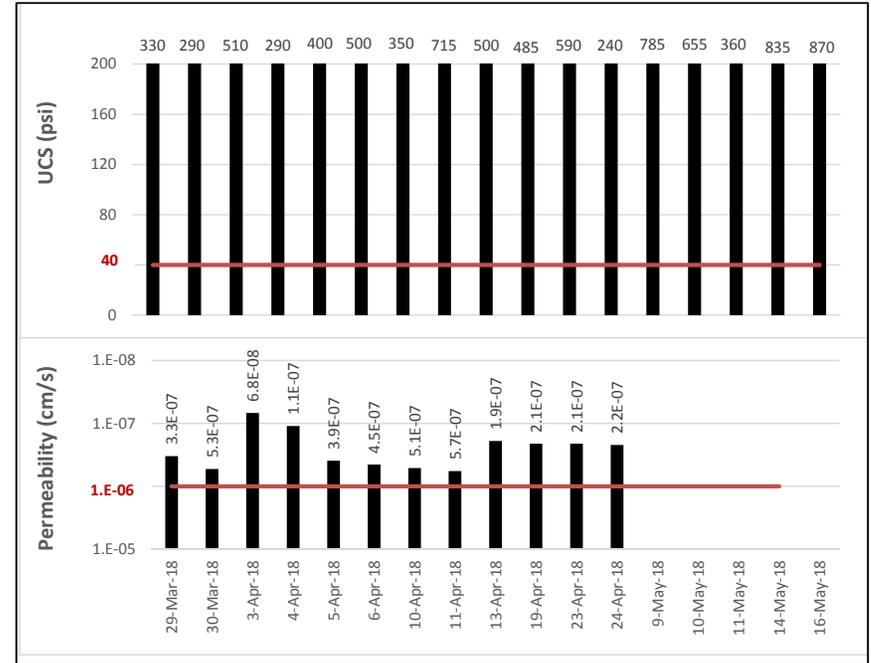


### In Situ Solidification/Stabilization Results Dashboard, Areas 7A and 8 (Leaching Batch 6)

Quanta Resources Corporation Superfund Site, OU1

Data through: 6/25/2018

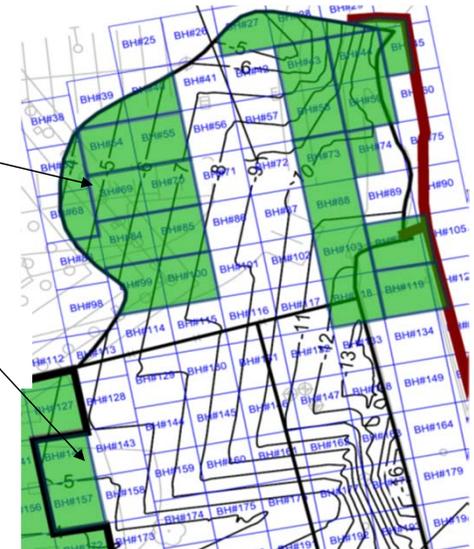
Area	Date	Volume (CY)	Actual Mix		UCS (≥40 psi)	Permeability (≤1E-6 cm/s)
			Cement	Slag		
8	29-Mar-18	145	2%	6%	MEETS	MEETS
8	30-Mar-18	156	2%	6%	MEETS	MEETS
8	3-Apr-18	237	2%	6%	MEETS	MEETS
8	4-Apr-18	308	2%	6%	MEETS	MEETS
8	5-Apr-18	264	2%	6%	MEETS	MEETS
8	6-Apr-18	345	2%	6%	MEETS	MEETS
8	10-Apr-18	316	2%	6%	MEETS	MEETS
7A	11-Apr-18	400	2%	6%	MEETS	MEETS
8	13-Apr-18	300	2%	6%	MEETS	MEETS
8	19-Apr-18	329	2%	6%	MEETS	MEETS
8	23-Apr-18	293	2%	6%	MEETS	MEETS
8	24-Apr-18	223	2%	6%	MEETS	MEETS
8	9-May-18	49	2%	6%	MEETS	data pending
8	10-May-18	216	2%	6%	MEETS	
8	11-May-18	225	2%	6%	MEETS	
8	14-May-18	130	2%	6%	MEETS	
8	16-May-18	70	2%	6%	MEETS	
Total CY Mixed:		4006				



Leaching Reduction by Constituent				
Site Constituent	Reduction (%)	Site Constituent	Reduction (%)	Result
1 Arsenic	100%	12 Benzo(b)fluoranthene	NE	NE
2 Benzene	100%	13 Benzo(g,h,i)perylene	NE	NE
3 Toluene	99%	14 Benzo(k)fluoranthene	NE	NE
4 Ethylbenzene	99%	15 Chrysene	56%	56%
5 Total Xylenes	99%	16 Dibenz(a,h)anthracene	NE	NE
6 Naphthalene	93%	17 Fluoranthene	80%	80%
7 Acenaphthene	87%	18 Fluorene	88%	88%
8 Acenaphthylene	96%	19 Indeno(1,2,3-cd)pyrene	NE	NE
9 Anthracene	87%	20 Phenanthrene	81%	81%
10 Benzo(a)anthracene	74%	21 Pyrene	81%	81%
11 Benzo(a)pyrene	NE			
Constituents Passing TBD; analysis in progress				
Leaching calculations for each constituent provided in Attachment 4 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.				

AREA 8

AREA 7A



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