

April 13, 2018

Ms. Farnaz Saghafi, Project Manager  
U.S. Environmental Protection Agency  
Region 2, New Jersey Remediation Branch  
290 Broadway, Floor 19  
New York, New York 10007-1866

Re: Quanta Resources Superfund Site, Operable Unit 2 (OU2) Edgewater, New Jersey  
Monthly Progress Report – March 2018

Dear Ms. Saghafi,

This letter will serve as the monthly progress report required pursuant to the U.S. Environmental Protection Agency (USEPA) Administrative Order on Consent (AOC) for Remedial Investigation and Feasibility Study (RI/FS) at OU2 (Index Number II-CERCLA-2003-2013, Item 53).

### **Activities Completed This Reporting Period**

The following activities were completed during this reporting period as part of continued implementation of the OU2 RI/FS Work Plan:

- Honeywell submitted the monthly progress report for February 2018 to USEPA on March 15<sup>th</sup>.

### ***Supplemental NAPL Characterization***

- Honeywell completed the field portion of the supplemental sampling program in March.
- Honeywell submitted notifications to EPA on March 2, 5, 6, 9, 21, 22, 28 and 29<sup>th</sup> regarding updates to the core collection and processing program associated with additional step out locations.
- Honeywell submitted proposed sample intervals for the final set of NAPL mobility testing to USEPA on March 21<sup>st</sup> and 22<sup>nd</sup>. A conference call was held with EPA on March 22<sup>nd</sup> to discuss the final set of mobility testing intervals.

### ***Remedy Alternative Evaluation/Feasibility Study***

- Honeywell submitted a draft EE/CA to EPA on March 20<sup>th</sup> to support the advancement of the OU2 Early Action.
- Honeywell has continued bench scale testing for the ISS Treatability Study.
- Honeywell has participated in discussions with EPA related to an amendment to the Consent Order that will support the activities associated with the Early Action.

### **Public Informational Update**

- EPA held two public meetings on March 28<sup>th</sup> to update the public regarding the status and schedule of both OU1 and OU2. Most of the discussion revolved around issues associated with the active remediation of OU1. Members of the public did ask about the status of the OU2 remedial action and expressed a preference for it to be performed concurrently or immediately after the OU1 work.

### **Operations and Maintenance**

- Honeywell has completed weekly boom inspections on March 1, 6, 14, 23 and March 28<sup>th</sup>.

The following activities are planned for the next reporting period:

- Conduct weekly site security and Hudson River boom inspections.
- Continue ongoing Bench Scale ISS Treatability Study.
- Perform the remainder of the laboratory analyses outlined in the approved Supplemental NAPL Characterization Work Plan, validate data, tabulate data and submit to EPA.
- Respond to any comments from EPA on the Draft EE/CA for the Early Action that will address nearshore sediments.
- Advance discussions related to the amendment to the Consent Order that will support the activities associated with the Early Action.
- Continue work on the Development and Screening of Remedial Alternatives technical memorandum and the OU2 FS.

### **Project Delays Encountered/Project Status**

As noted above, the data collection efforts for the supplemental sampling program have been completed for this phase of work and the laboratory analysis is ongoing. Based on the current schedule, Honeywell expects to receive EPA's comments of the draft EE/CA report by May 1, 2018. The FS report for the entire Study Area is scheduled for submittal in the 4th Quarter of 2018. The current schedule, even with very aggressive review and comment periods, shows the OU2 remedy starting in 2020, more than six months after the OU1 ISS operations are scheduled to be completed. We will continue to work with EPA to find ways to shorten this projected schedule.

### **Project Milestones**

A summary of project milestones is attached.

Please contact me at 315-414-2029 or Helen Fahy, Honeywell Remediation Manager, at 814-571-4912 if you have any questions or comments regarding the Quanta OU2 project.

Sincerely,

A handwritten signature in blue ink that reads "Tim Johnson". The signature is cursive and fluid.

Tim Johnson  
Project Manager

cc: Clay Monroe (USEPA)  
Greg Franz (Borough of Edgewater)  
Helen Fahy (Fahy Associates)  
Steve Coladonato (Honeywell)  
Erica Bergman (NJDEP)  
Stephen J. Zarlinski (CH2M Hill)

## Quanta Resources Superfund Site, Operable Unit 2 (OU2) Edgewater, New Jersey Project Milestone Summary

Milestone	Date Completed
Honeywell submitted notifications to EPA regarding updates to the core collection and processing program associated with additional step out locations.	March 2, 5, 6, 9, 21, 22, 28 and 29, 2018
Honeywell submitted a draft EE/CA to EPA to support the advancement of the OU2 Early Action.	March 20, 2018
Honeywell submitted proposed sample intervals for the final set of NAPL mobility testing to USEPA. A conference call was held with EPA on March 22nd to discuss the final set of mobility testing intervals.	March 21 and 22, 2018
Honeywell submitted notifications to EPA regarding updates to the core collection and processing program.	February 19, 20, 22, 27, 28, 2018
Honeywell submitted a revised summary table of the intervals selected for NAPL mobility and modifications to the work plan	February 14, 2018
Based on a request by EPA, Honeywell submitted specifications on the Lexan polycarbonate core tubes that are being used for the OU2 investigation.	February 12, 2018
Honeywell submitted the sample intervals for the second phase of NAPL mobility testing to USEPA	February 9, 2018
Honeywell submitted the sample intervals for the first phase of NAPL mobility testing to USEPA	January 29, 2018
Honeywell submitted the draft project schedule and proposed durations for USEPA review of project deliverables	January 24, 2018
USEPA approved revised version of the QAPP	January 22, 2018
Honeywell began the supplemental sampling program	January 20, 2018
USEPA submitted comments on the draft FFS outline to Honeywell	January 18, 2018
Honeywell submitted a revised version of the QAPP to USEPA	January 15, 2018
Honeywell submitted a draft agenda for a conference call that was held with USEPA on January 16 <sup>th</sup> to discuss the draft FFS outline and the project schedule	January 10, 2018
Honeywell submitted revised versions of the Supplemental NAPL characterization work plan and QAPP to USEPA on December 15 <sup>th</sup> for final approval. Both were approved by USEPA on December 15 <sup>th</sup>	December 15, 2017
Honeywell submitted a draft outline for the FFS to USEPA	December 13, 2017
Honeywell submitted a revised Supplemental NAPL Characterization Work Plan, response to comments, and revised QAPP to USEPA	December 10, 2017
Provided supplemental reference for NAPL mobility testing procedures	November 14, 2017
Responded to USEPA comments on NAPL mobility testing procedures	November 10, 2017
Received comments from USEPA on the Supplemental NAPL Characterization Work Plan	October 31, 2017
Received comments from USEPA on the Water Flood testing SOP	October 11, 2017
Submitted to USEPA responses to comments and the revised Supplemental NAPL Characterization Work Plan	October 6, 2017
Received comments from USEPA on the Supplemental NAPL Characterization Work Plan	September 20, 2017
Received approval of the QAPP from USEPA	September 18, 2017

Milestone	Date Completed
Submitted to USEPA responses to comments and the revised QAPP	September 7, 2017
Submitted to USEPA the Supplemental NAPL Characterization Work Plan	September 1, 2017
Received comments from USEPA regarding the QAPP	August 23, 2017
Submitted to USEPA a summary of the ISS Treatability Study field activities	August 17, 2017
Submitted to USEPA an updated Quality Assurance Project Plan (QAPP) for the Treatability Study at the request of USEPA	August 1, 2017
Submitted to USEPA an addendum to the Quality Assurance Project Plan	July 25, 2017
Submitted to USEPA the revised ISS Treatability Sampling Work Plan as per USEPA July 17, 2017 approval	July 25, 2017
Submitted to USEPA the schedule for the ISS Bench Scale Treatability Sampling and Testing	July 15, 2017
Received approval for the revised ISS Bench Scale Treatability Work Plan	July 6, 2017
Submitted to USEPA the revised ISS Bench Scale Treatability Work Plan	June 29, 2017
Submitted to USEPA responses to the April 11, 2017 comments regarding the evaluation of the Sediment Probing Field Investigation results and the Pre-Feasibility Study Investigation 2016: Sediment Coring (Figure and DQO Table) for further delineation of remedy zone uncertainty zones	June 28, 2017
Received comments from USEPA regarding the responses to comments on the revised ISS Bench Scale Treatability Study Work Plan	June 15, 2017
Submitted to USEPA responses to comments on the revised ISS Bench Scale Treatability Work Plan	June 5, 2017
Received comments from USEPA regarding the revised ISS Bench Scale Treatability Study Work Plan	May 8, 2017
Submitted to USEPA the revised ISS Treatability Sampling Work Plan following call with USEPA	April 21, 2017
Submitted to USEPA the revised ISS Treatability Sampling Work Plan	April 21, 2017
Received comments from USEPA regarding ISS Treatability Sampling Work Plan	April 4, 2017
Submitted to USEPA responses to the March 10, 2017 comments on the ISS Bench Scale Treatability Study Work Plan and a revised Work Plan	April 19, 2017
Received comments from USEPA regarding the responses to comments on the Pre-Feasibility Study Investigation 2016: Sediment Coring (Figure and DQO Table) and Sediment Probing Field Investigation Report	April 11, 2017
Submitted to USEPA responses to comments on the revised Non-Time Critical Removal Action Area Treatability Sample Collection Work Plan and a revised Work Plan	March 22, 2017
Submitted to USEPA remaining responses to the July 21, 2016 comments on the July 1, 2016 Action Items submittal	March 20, 2017
Received comments from USEPA regarding the ISS Bench Scale Treatability Study Work Plan	March 10, 2017
Received comments from USEPA regarding the revised Non-Time Critical Removal Action Area Treatability Sample Collection Work Plan	March 9, 2017
Submitted to USEPA responses to December 7, 2016 comments on the ISS Field Collection and Bench Testing Work Plan	February 7, 2017

Milestone	Date Completed
Submitted to USEPA responses to September 29, 2016 comments on the Pre-Feasibility Study Investigation 2016: Sediment Coring (Figure and DQO Table) and Sediment Probing Field Investigation Report	February 7, 2017
Submitted to USEPA the revised Non-Time Critical Removal Action Area Treatability Sample Collection Work Plan	December 15, 2016
Received comments from USEPA regarding the revised Non-Time Critical Removal Action Area Treatability Sample Collection Work Plan	December 15, 2016
Submitted to USEPA the revised Non-Time Critical Removal Action Area Treatability Sample Collection Work Plan	December 15, 2016
Received comments from USEPA regarding the revised Non-Time Critical Removal Action Area Treatability Sample Collection Work Plan	December 14, 2016
Submitted to USEPA the revised Non-Time Critical Removal Action Area Treatability Sample Collection Work Plan	December 11, 2016
Received comments from USEPA regarding the Zone A Field Collection and Bench Testing Work Plan	December 7, 2016
Submitted to USEPA the Zone A Field Collection and Bench Testing Work Plan	November 10, 2016
Submitted to USEPA the Probing Investigation Field Report	September 13, 2016
Sediment probing work plan submitted and approved	July 28, 2016
Received comments on July 1, 2016 submittal	July 21, 2016
Submitted to USEPA information addressing action items identified at the June 6, 2016 meeting with USEPA and USACE to discuss the remedy zones	July 1, 2016
FS meeting with USEPA and USACE to discuss the proposed Remedial Zones to be used in the Feasibility Study	June 6, 2016
Received comments from USEPA regarding the requested Risk Based Remedial Zones approach to mapping remedial zones	May 20, 2016
Submitted to USEPA proposed approach to mapping remedial zones based on previously approved data and risk assessments	March 3, 2016, and revised PDF March 9, 2016
Submitted to USEPA notification of Honeywell Designated Project Coordinator	March 3, 2016
Submitted to USEPA notification of project manager change	February 10, 2016
Received response from USEPA regarding the NAPL delineation	January 5, 2016
Submitted letter in response to USEPA comments on June 2015, with supporting documentation	December 2, 2015, and December 8, 2015
Received comments on June 2015 submittal	November 19, 2015
Submitted supporting information regarding the evaluation of remedial investigation and pre-feasibility study field data for the development of the FS	June 30, 2015
Submitted analysis for the hydrodynamic model as requested by USEPA	January 15, 2015
Submitted a response to USEPA's December 29, 2014 letter regarding a change in a figure from the July 2014 approved RI Report.	January 14, 2015
Received request for July 2014 approved RI Report figure revision	December 29, 2014
Received comments on the Revised Hydrodynamic Modeling and Erodibility Analysis	December 1, 2014
Submitted revised Pre-FS Hydrodynamic Modeling and Erodibility Analysis	November 14, 2014
Submitted revised Pre-FS NAPL Characterization and Mobility Assessment	November 7, 2014

Milestone	Date Completed
Received comments on the Revised Hydrodynamic Modeling and Erodibility Analysis	October 23, 2014
Received confirmation from USEPA of acceptance of the Revised Pre-FS Geotechnical Sediment Evaluation	October 22, 2014
Submitted Revised Pre-FS Geotechnical Sediment Evaluation	October 10, 2014
Submitted revised Pre-FS Hydrodynamic Modeling and Erodibility Analysis	October 3, 2014
Received comments from USEPA on the Pre-FS NAPL Characterization and Mobility Assessment	September 16, 2014
Received comments from USEPA on the Pre-FS Hydrodynamic Modeling and Erodibility Analysis	September 12, 2014
Received comments from USEPA on the Pre-FS Geotechnical Sediment Evaluation	September 11, 2014
Submitted Pre-FS study results and hydrodynamic modeling results to USEPA	July 25, 2014
Received approval from USEPA for the OU2 Remedial Investigation Report	July 15, 2014
Provided final revisions to the OU2 RI Report to USEPA	July 11, 2014
Presented preliminary remedy alternatives and screening results to USEPA	July 1, 2014
Received approval from USEPA for the OU2 Preliminary Remediation Goals Technical Memorandum.	May 29, 2014
Received approval from USEPA for the OU2 Candidate Technologies Technical Memorandum	May 15, 2014
Submitted revised final RI Report to USEPA	April 23, 2014
Submitted revised technical memorandum summarizing proposed human health and ecological based preliminary remediation goals for sediments.	April 22, 2014
Received comments from USEPA on the technical memorandum summarizing proposed human health and ecological based preliminary remediation goals for sediments.	April 2, 2014
Submitted a technical memorandum to USEPA describing a remedy framework for OU2	March 31, 2014
Submitted responses to USEPA comments on final RI Report revisions	March 26, 2014
Submitted to USEPA the technical memorandum summarizing proposed human health and ecological based preliminary remediation goals for sediments.	March 12, 2014
Received comments from USEPA related to the revisions to the final RI Report.	March 5, 2014
Submitted to USEPA responses to comments on revised Final RI Report	February 3, 2014
Received comments from USEPA on 2006 forensics study	January 17, 2014
Submitted to USEPA responses to comments on North Area data summary Technical Memorandum	October 21, 2013
Received comments from USEPA on North Area data summary Technical Memorandum	September 9, 2013
Submitted to USEPA Quality Assurance Project Plan Addendum for the Pre- Feasibility Study Supplemental Field Investigation Work Plan	July 24, 2013
Submitted to USEPA documentation of sediment data collected near former Lustrelon and Celotex sites	May 31, 2013
Received additional comments from USEPA on the revised Pre- Feasibility Study Supplemental Field Investigation Work Plan	May 30, 2013
Submitted to USEPA revised Pre- Feasibility Study Supplemental Field Investigation Work Plan	May 10, 2013

Milestone	Date Completed
Submitted to USEPA background documentation for the baseline human health risk assessment	May 8, 2013
Received comments from USEPA on the revised Pre- Feasibility Study Supplemental Field Investigation Work Plan	April 25, 2013
Submitted to USEPA revised Pre- Feasibility Study Supplemental Field Investigation Work Plan	April 15, 2013
Received comments from USEPA on the revised Final RI Report	April 11, 2013
Received comments from USEPA on the revised Final Technical Memorandum: Identification of Candidate Technologies	April 8, 2013 April 25, 2013
Submitted to USEPA responses to USEPA comments on the Final Technical Memorandum: Identification of Candidate Technologies	March 15, 2013
RI/FS Meeting with USEPA to discuss RI Report comments and FS scoping	March 12, 2013
Submitted to USEPA response to USEPA comments on the revised Final RI Report	February 25, 2013
Submitted to revised Pre- Feasibility Study Supplemental Field Investigation Work Plan	February 21, 2013
Submitted to USEPA response to USEPA comments on the Pre- Feasibility Study Supplemental Field Investigation Work Plan	February 21, 2013
Submitted to USEPA additional technical appendix to the Draft Final RI Report	January 17, 2013
Submitted to USEPA the revised draft Final Technical Memorandum: Identification of Candidate Technologies	December 19, 2012
Submitted to USEPA revisions to the Draft Final RI Report with BERA and HHRA	November 9, 2012
Submitted to USEPA revised draft schedule for feasibility study preparation	October 22, 2012
Submitted to USEPA the response to USEPA comments on the Draft Final RI Report, BERA and HHRA	August 6, 2012
RI Meeting with USEPA to discuss human health risk assessment	June 14, 2012
RI Meetings with USEPA, NJDEP and BTAG to discuss RI Report and baseline risk assessment comments	June 8, 2012, and May 31, 2012
Received USEPA comment letter on the Draft Final RI Report, BERA and HHRA	April 19, 2012
Submitted to USEPA the draft Final Technical Memorandum: Identification of Candidate Technologies	November 14, 2011
Submitted to USEPA the Pre- Feasibility Study Supplemental Field Investigation Work Plan	October 18, 2011
Submitted to USEPA draft schedule for feasibility study preparation	October 12, 2011
Submitted to USEPA notification of planned field activities	October 6, 2011
Submitted to USEPA notification of project manager change	September 1, 2011
Submitted to USEPA the Draft Final RI Report with BERA and HHRA	August 29, 2011
Received USEPA approval on the Final BERA Work Plan	December 8, 2008
Received USEPA approval on the Field Sampling Plan for BERA fieldwork	December 8, 2008
Received USEPA approval on the Quality Assurance Plan Addendum for BERA fieldwork	December 8, 2008
Submitted to USEPA the Trip Report for BERA and Sediment Stability fieldwork	November 25, 2008
Submitted to USEPA and BTAG member the Final BERA Work Plan	November 20, 2008
Submitted to USEPA and BTAG members the Field Sampling Plan for BERA fieldwork	November 20, 2008



Milestone	Date Completed
Submitted to USEPA and BTAG members the Quality Assurance Plan Addendum for BERA fieldwork	November 20, 2008
Submitted to USEPA Sediment Stability Work Plan Addendum	October 14, 2008
Submitted to USEPA the OU2 BERA Work Plan Response to Comments, Second Set	September 29, 2008
Submitted to USEPA the OU2 BERA Work Plan Response to Comments	August 18, 2008
Submitted to USEPA the Sediment Stability Work Plan	August 1, 2008
Submitted to USEPA the Draft Addendum to the Baseline Ecological Risk Assessment Work Plan for OU2 of the Quanta Resources Site	July 22, 2008
Submitted to USEPA the Draft Baseline Ecological Risk Assessment Work Plan for OU2 of the Quanta Resources Site	July 11, 2008
Submitted to attendees (see above) from May 22, 2008 meeting the following items (table listing action items, revised maps, and screening tables)	June 25, 2008
BERA meeting with USEPA, NJDEP and National Oceanic and Atmospheric Administration (NOAA)	May 22, 2008
Submitted Draft Candidate Reference Locations for Operable Unit 2 Baseline Risk Assessments memorandum to USEPA	September 19, 2007
Submitted Draft PSCR to USEPA, NJDEP, and USEPA Region II BTAG	July 23, 2007
Presented PSCR to USEPA, NJDEP, and USEPA Region II BTAG	June 7, 2007
Submitted letter to USEPA responding to comments on Fingerprinting Work Plan Addendum	November 21, 2006
Submitted a letter to USEPA documenting the condition of the absorbent boom during the investigation activities	November 6, 2006
Received comments from USEPA on Work Plan Addendum for Fingerprinting	October 20, 2006
Submitted the Work Plan Addendum for PAH Fingerprinting to USEPA	September 22, 2006
Submitted Revised OU2 RI Work Plan, FSP, QAPP and HASP to USEPA	August 31, 2006
Submitted DQO resolution table to USEPA	July 17, 2006
Meeting with USEPA, NJDEP, BTAG members, and CDM to resolve remaining DQO issues and comments and finalize a scope for the OU2 RI/FS Work Plan	July 13, 2006
Response to June 6, 2006 USEPA Comment Letter on draft DQOs	June 16, 2006
USEPA Comment letter on draft DQOs	June 6, 2006
Response to March 31, 2006 USEPA Comment Letter on RI/FS Work Plan	May 25, 2006
Meeting with USEPA and BTAG to discuss Data Quality Objectives (DQOs)	May 2, 2006
USEPA Comment letter on RI/FS Work Plan & Technical Memoranda	March 31, 2006
Honeywell Response to USEPA Item #25	June 9, 2005
Honeywell Response to USEPA Items #20, 21, 22, and 24	January 13, 2005
Honeywell Response to USEPA Items #19 and 23	December 23, 2004
Honeywell List of 26 Items and Internal Submittals	December 7, 2004
Honeywell Response to USEPA Comments on RI/FS Work Plan	September 10, 2004
USEPA Comment letter on RI/FS Work Plan	June 30, 2004
Submitted RI/FS Work Plan for OU2 (including FSP, QAPP, and HSP)	January 19, 2004
Qualifications of Personnel	December 19, 2003

<b>Milestone</b>	<b>Date Completed</b>
Signs and Security Plan, November 2003	November 24, 2003
AOC and SOW, OU2 received	November 4, 2003
Notification to USEPA of Honeywell Designated Project Coordinator	November 4, 2003