ADVANCED MATERIALS
20 Peabody Street
Buffalo, NY 14210
www.honeywell.com

Honeywell

Buffalo Research Laboratory (BRL)
20 Peabody Street
Buffalo, NY 14210

Site Management Plan

Periodic Review Report

NYSDEC Site Number: 915002

EPA ID: NYD0006323215

January 13, 2021

Table of Contents

Certification of Engineering Controls and Institutional Controls

The BRL Site's Engineering Controls (ECs) consist of:

- Cover system (existing buildings and pavement) – is maintained in good order
- Grass / gravel cover – is maintained in good order
- Groundwater monitoring – is performed annually
- Excavation work plan – is followed for any applicable excavation

BRL's Institutional Controls (ICs) serve to implement maintain and monitor the ECs, prevent future exposure to remaining contamination and limit the use and development of the Site to industrial use only.

Certification Statement

"For each institutional or engineering control identified for the site, I certify that all of the following statements are true:

- *The inspection of the Site to confirm the effectiveness of the institutional controls required by the remedial program was performed under my direction*
- *The institutional control and/or engineering control employed at this Site is unchanged from the date the control was put in place, or last approved by the Department*
- *Nothing has occurred that would impair the ability of the control to protect the public health and environment*
- *Nothing has occurred that would constitute a violation or failure to comply with any site management plan for this control*
- *Access to the Site will continue to be provided to the Department to evaluate the remedy including access to evaluate the continued maintenance of this control*
- *Use of the Site is compliant with the environmental easement*
- *The engineering control systems are performing as designed and are effective*
- *To the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program*
- *The information presented in this report is accurate and complete*

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Michelle Mattice, of 20 Peabody Street, Buffalo, NY 14210, am certifying as Owner's Designated Site Representative for the Site."

Signature: Michelle Mattice **Date:** 1/13/2021

Michelle Mattice, Site Leader

Results of the Annual Site Groundcover Inspection

The annual site groundcover inspection was conducted on November 23, 2020 and is attached in Appendix A. One area of concern was identified during the groundcover inspection. A Conex box was moved on the site by a contractor, leaving a partially damaged area of grass at the site. Site services put mulch down over the damaged area until grass can be re-planted in the warmer months, see description, photos and location in Appendix A.

Results of Annual Groundwater Monitoring

The annual groundwater monitoring was conducted by Parsons on September 15, 2020 and is attached in Appendix B. The report is dated October 27, 2020. The conclusions recommend that the annual groundwater monitoring should continue to be conducted, per the site management plan. Additional detail is available in the report.

Annual Site Evaluation

The annual site-wide inspection was conducted on November 23, 2020 and is attached in Appendix C. The institutional and Engineering Controls described in the Site Management Plan are in place with no significant exceptions at the Site. The required reporting has been conducted per the Site Management Plan in 2020 and site records are up to date. The site contacts were updated in 2020, the communication and contact list is included in Appendix C.

Site Management Report – Excavation Work Documentation

In calendar year 2020, two emergency excavation notifications were submitted to NYSDEC.

1. Wednesday July 29th, 2020 – Honeywell requested to excavate 4 cubic yards of soil for a wall support installation for Building 515. The soil was stored on plastic tarps and protected from the elements until sampling and disposal was completed. A concrete pad was installed over the excavated area. Soil was disposed in December 2020. Correspondence, photos, analytical, and disposal manifests are included in Appendix D.
2. Monday December 7, 2020 – Honeywell requested to excavate an undetermined amount of soil to respond to a water main break at the site. The excavated soil and stone were stored on plastic sheeting and protected from the elements until sampling and disposal can be arranged. Approximately 20 cubic yards of stone and soil were removed from the excavation. The water main break was repaired, stone added to the excavation, and an asphalt patch was placed over the excavation area. Honeywell conducted soil sampling on January 6th, 2021, prior to disposal in January/February 2021. Correspondence, photos, and analytical documents are included in Appendix E.

Appendix A – Annual Groundcover Site Inspection Documentation

Cover Inspection Form
(Quarterly/Annual)

Honeywell, Inc.
Buffalo Research Laboratory
Buffalo, New York

SECTION I. GENERAL INFORMATION

Inspector Name and Title: MATT Kanclerz
Names of Others Present During Inspection: Alone

Date of Inspection: 11/23/2020 Time of Inspection: 11:00 AM
Date of Last Inspection: 2/24/2020
Weather: Partly Cloudy, 40°F

SECTION II. INSPECTION RESULTS

Walk through the entire Site and answer the following questions.

1. **Are there any locations where work is being performed in accordance with the Site's Excavation Work Plan?**

   Yes (No)

   If you answered "Yes," attach to this inspection form a brief description of the location, type of work, start date, and expected completion date for the work.

2. **For grass-covered areas, did you observe any locations with damaged or missing grass cover, not within a work zone where work is currently being performed in accordance with the Site's Excavation Work Plan, which cause direct exposure of surface soil?**

   (Yes) No

3. **Did you observe any locations of exposed soil (such as due to vehicle traffic, erosion, or runoff) not within a work zone where work is currently being performed in accordance with the Site's Excavation Work Plan?**

   Yes (No)

4. **Did you observe any areas of cracked, broken, or otherwise damaged or missing asphalt or concrete not within a work zone where work is currently being performed in accordance with the Site's Excavation Work Plan, which cause direct exposure of surface soil?**

   Yes (No)

5. **Did you observe any gravel-covered areas where the gravel cover has been damaged or removed not within a work zone where work is currently being performed in accordance with the Site's Excavation Work, which cause direct exposure of surface soil?**

   Yes (No)

SECTION III. IDENTIFICATION OF LOCATIONS REQUIRING CONTINGENCY ACTION

If you answered "Yes" to any of Questions 2 through 5 in Section II, complete the following (place a check next to each item to verify completion):

✓ 1. Attach a detailed description of the area(s) for which you answered "Yes" in Section II. Include photographs as appropriate.

✓ 2. Identify on an attached Site Plan the approximate location of the area(s) for which you answered "Yes" in Section II.

✓ 3. Immediately notify and provide a copy of this form to the HSE Manager or designee so that corrective action can be implemented in accordance with the Site Monitoring and Cover Repair Plans (Sections 4.0 and 7.0 of the Site Management Plan). Obtain HSE Manager or designee signature below.

11/23/2020 notified maintenace for alternate winter cover.

SECTION IV. SIGNATURES

Required for each inspection:

Matt Kane — Inspector

11/23/2020 — Date

If required by Section III:

Matt Kane — HSE Manager

11/23/2020 — Date

or

HSE Manager Designee

Date

Attachments (List): Photos Attached.

Filing Requirements: Original to Inspection Form file
Copy to HSE Manager or designee

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Site Management Plan

NYSDEC Site Number: 915002

EPA ID: NYD0006323215

Groundcover Evaluation – Damaged Grass

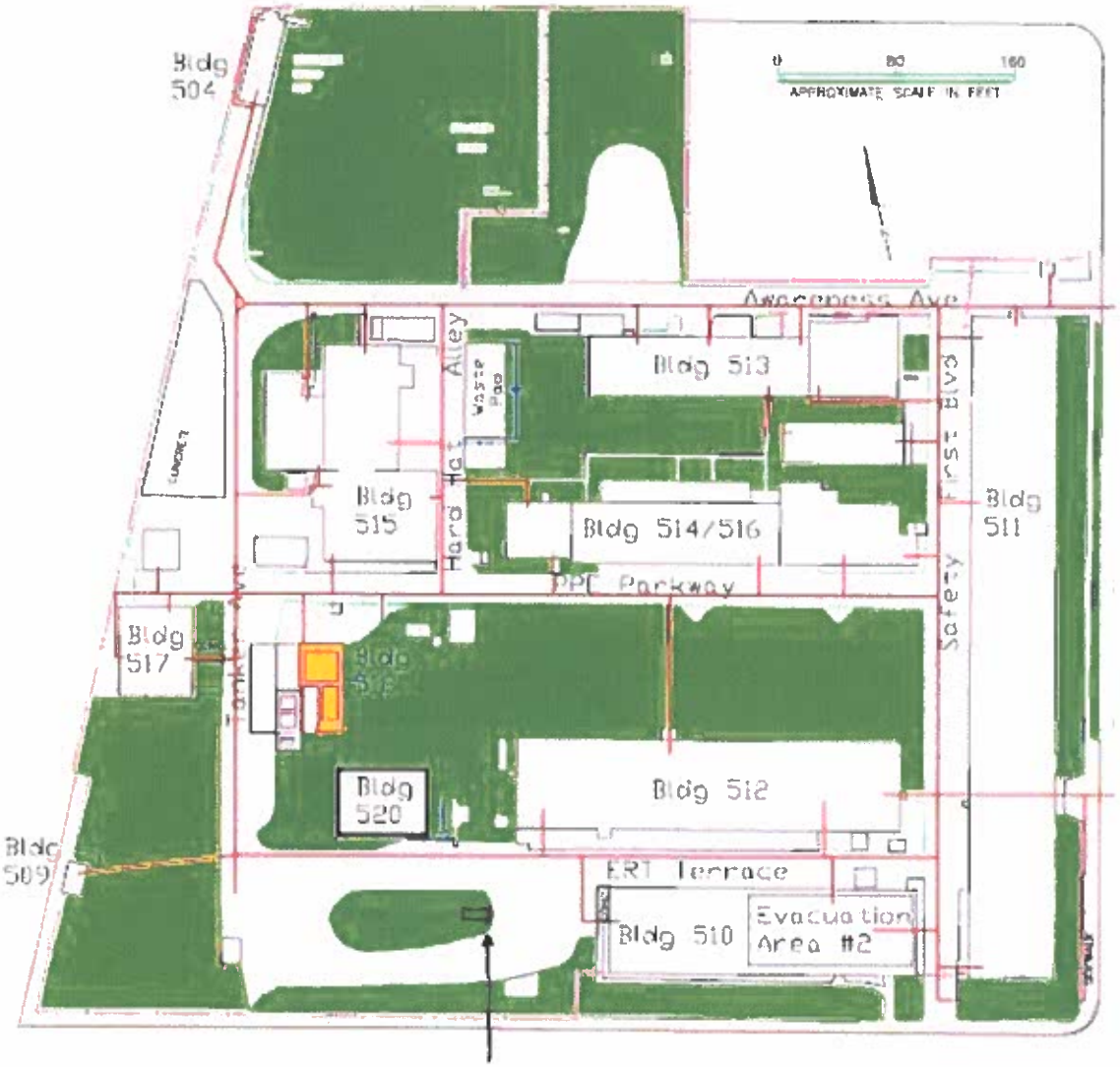
During the November 23, 2020, annual groundcover evaluation, an area of damaged grass was observed in the southeast area of the site. A Conex storage box owned by a contractor had been in place onsite in a grassy area for approximately 2 years. The Conex box was moved by the contractor in late 2020, without HSE notification, resulting in the damaged grass being exposed. The HSE manager spoke with the contractor involved to improve communication.

As a corrective action, the HSE manager put in a work order with site operations to provide ground cover (mulch) to cover the area until grass seed and cover can be applied in Spring 2021, see attached photos.


A-VERDI

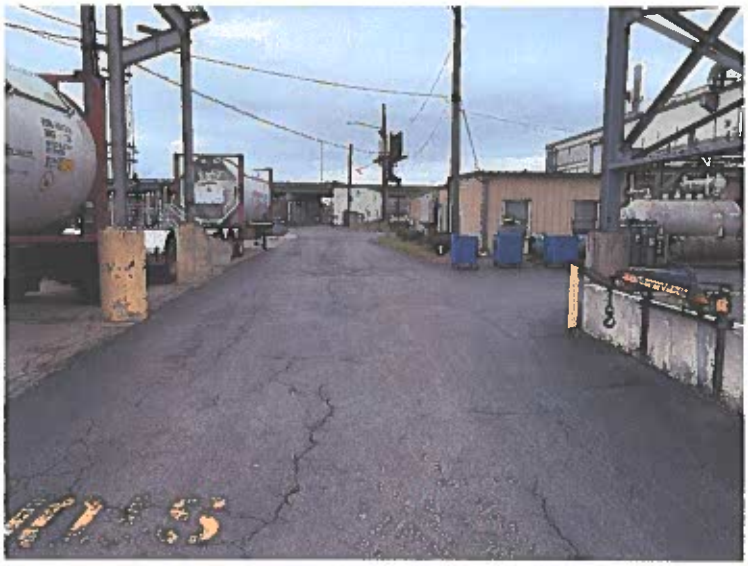

A-VERDI

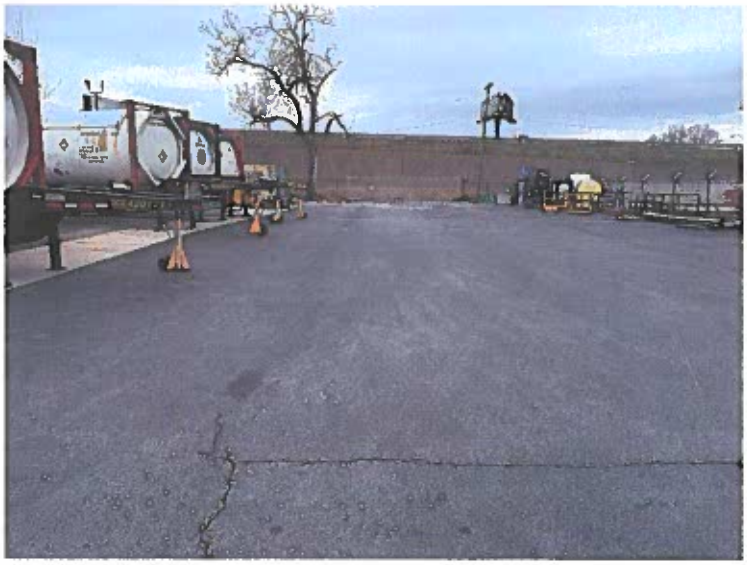
Site Plan



11/23/2020 (Jake)
Cones staging area. Scratch + damaged grass.


STOP





Appendix B – Annual Groundwater Monitoring Report

PARSONS

40 La Riviere Drive, Suite 350 • Buffalo, New York 14202 • (716) 541-0730 • Fax (716) 541-0760 • www.parsons.com

October 27, 2020

Joshua M. Vaccaro
New York State Department of
Environmental Conservation, Region 9
Division of Environmental Remediation
270 Michigan Avenue
Buffalo, New York 14203

RE: Annual Groundwater Monitoring Report, Honeywell Buffalo Research Laboratory

Dear Mr. Vaccaro:

Enclosed please find the 2020 Annual Groundwater Monitoring Report for the Honeywell Buffalo Research Laboratory in Buffalo, New York (see **Figure 1**). The report is a requirement of the Site Management Plan (SMP) (GHD, June 2019) for the facility. The annual groundwater monitoring event was conducted on September 15, 2020.

Based on the results of the annual groundwater monitoring over the last several years, including the current year, the monitoring will be continued on an annual schedule as defined in the SMP. The monitoring schedule will be re-evaluated as additional results are collected. The detailed rationale for these recommendations is provided in the Recommendations/Conclusions section of this report.

Well Inspection

In accordance with the SMP, the depth to groundwater was measured and the condition of each monitoring well (MW-2, MW-3, MW-5, MW-6, MW-7, MW-8, MW-9, and MW-10) was inspected. MW-1 and MW-4 could not be found and may have been covered by asphalt, as noted in previous reports. The results of the well inspections are presented below. The well inspection records are included in **Attachment A**. Each of the wells that were inspected were in good condition with only minor issues, but none requiring maintenance.

MW-2, Stick-up Protective Casing

- Well was locked.
- Stick-up protective metal casing was in good condition.
- J-plug well cap was secure.
- Concrete pad was in good condition.

MW-3, Stick-up Protective Casing

- Well was locked.
- Stick-up protective metal casing was in good condition.
- J-plug well cap was secure.
- Concrete pad was in good condition.

MW-5, Flush-mounted Protective Casing

- Curb box and cover were in place but pavement does not hold curb box in ground.
- Water-tight well cap was secure.
- Surrounding asphalt was in good condition.
- Curb box is painted green and labeled.

MW-6, Flush-mounted Protective Casing

- Curb box and cover were in place and in good condition.
- Water-tight well cap was secure.
- Surrounding asphalt was in good condition.

MW-7, Flush-mounted Protective Casing

- Curb box and cover were in place but curb box is not secure.
- Water-tight well cap was secure.
- Surrounding asphalt was in good condition.

MW-8, Stick-up Protective Casing

- Well was locked.
- Stick-up protective metal casing was in good condition.
- J-plug well cap was secure.
- Concrete pad was in good condition.

MW-9, Flush-mounted Protective Casing

- Curb box and cover were in place and in good condition.
- Water-tight well cap was secure.
- Surrounding asphalt was in good condition.

MW-10, Stick-up Protective Casing

- Well was locked.
- Stick-up protective metal casing was in good condition.
- J-plug well cap was secure.
- Concrete pad was in good condition.

Groundwater Sampling

Groundwater samples were collected from MW-3 and MW-5 for laboratory analysis, as specified in the SMP. During this sampling event, purging was conducted, and samples were collected using a peristaltic pump and HDPE tubing.

Prior to collecting groundwater samples, each well was purged of a minimum of three well volumes of groundwater and was purged until field parameters (pH, specific conductivity, turbidity, and temperature) were stable. During purging, field parameters, including pH, temperature, specific conductivity, and turbidity, were measured and recorded. Wells were purged at approximately 200 milliliters per min (ml/min).

Samples were submitted for analysis using Method EPA 8260 for volatile organic compounds (VOCs) and EPA 6010C for metals (total arsenic and barium and soluble arsenic and barium). Soluble arsenic and barium are analyzed if turbidity exceeds 50 NTU, which in 2020, neither sample did, and therefore soluble arsenic and barium were not analyzed. Turbidity is measured both in the field and at the laboratory. In addition to the two groundwater samples, the trip blank that accompanied the bottle set from the laboratory, into the field, and back to the laboratory, was submitted for VOC analysis. Field parameters and other monitoring data were recorded on the Well Sampling Records provided in **Attachment A**.

Summary of Analytical Results

Table 1 presents a summary of the detected chemical constituents for this sampling event, and **Table 2** provides the historical analytical results from 1994 through the current (2020) annual sampling event. A data summary table and the laboratory data report for the current samples are provided in **Attachment B**. Sample results were compared to the NYSDEC Ambient Water Quality Standards and Guidance Values (AWQS), contained in 6 NYCRR Part 703.

VOCs

Four VOCs were identified in the groundwater sample from MW-3 (1,1,1-trichloroethane at 4.1 µg/L, trichloroethene [TCE] at 0.51 µg/L, 1,1-dichloroethene [1,1-DCE] at 1.8 µg/L, and 1,1-dichloroethane [1,1-DCA] at 19 µg/L. Only 1,1-DCA exceeded the NYSDEC AWQS. No VOCs were identified in the groundwater sample from MW-5. The analytical results for the trip blank (VOCs) were all below the analytical detection limits.

Metals

Total arsenic exceeded the AWQS (25 µg/L) in MW-3 (83 µg/L) and was below the AWQS in MW-5 (7 µg/L). Total barium was below the AWQS in both wells. Turbidity of both samples was below 50 NTUs and therefore, soluble arsenic and barium were not analyzed.

Discussion of Historical Analytical Results

VOCs

Table 2 provides a summary of the historical analytical results. Two VOCs were identified in the sample from MW-5 in 2016 that were not found in 2017 through 2020, or prior to 2016. VOCs have not typically been found in MW-5. Chloroform and dibromochloromethane were both identified in 2016 and both were below their respective NYSDEC AWQS. It is suspected that these two VOCs are the result of a water main break in the area of MW-5 in 2016. The water main break was repaired prior to the groundwater sampling in 2016. These two compounds are not expected to be identified in the future.

1,1,1-TCA and 1,1-DCA have typically been identified above the respective AWQS in groundwater from MW-3. The concentrations of 1,1-DCA ranged from below the analytical detection limits to 42 µg/L between 1994 and September 2020. Although 1,1,1-TCA was below the analytical detection limit in July 2014, it was detected each year from 2015 and 2020 between 4.1 µg/L to 9.8 µg/L. The concentrations of 1,1,1-TCA have ranged from below the analytical detection limits to 36

µg/L (1994) in MW-3. Since 1994 1,1,1-TCA has been 20 µg/L or less and has been less than 10 µg/L for the last eight years. 1,1-DCE has occasionally been identified in MW-3, but is typically below the NYSDEC AWQS. Although 1,1-DCE has been detected for the last nine years, it has been below the NYSDEC AWQS of 5 µg/L during this time. 1,1-DCE last exceeded the AWQS in 2009. In 2019 TCE was detected (0.90 µg/L) for the first time since 2005 and was again detected in 2020 (0.51 µg/L). Both results are below the NYSDEC AWQS of 5 µg/L.

In summary, the analytical results from the current sampling event showed one VOC (1,1-DCA) above the AWQS in a single well (MW-3). Additionally, 1,1,1-TCA, TCE, and 1,1-DCE were observed below the AWQS in MW-3. 1,1-DCA is a common breakdown product of 1,1,1-TCA, when degraded through biotic processes such as reductive dechlorination, while 1,1-DCE is a common breakdown product of 1,1,1-TCA when degraded through abiotic processes. While VOCs have not typically been identified in MW-5, chloroform and dibromochloromethane were detected below their respective NYSDEC AWQS in 2016. It is suspected that these two compounds were associated with a water main break in the area of the well. These compounds were not detected between 2017 and 2020.

Metals

Over the past 20 years, total arsenic and total barium have been analyzed at least annually in the groundwater samples from MW-3 and MW-5. Total arsenic frequently exceeded the AWQS (25 µg/L) in the samples from MW-3 and occasionally in samples from MW-5. Total arsenic was above the AWQS in MW-3 during the current sampling event. Total barium did not exceed the AWQS in either well during this sampling event, nor in the previous sampling events. Historic total arsenic resuls for MW-3 and MW-5 have been included in a plot (**Figure 2**).

As required in the SMP, soluble arsenic and barium are analyzed when the sample turbidity exceeds 50 NTUs. Historically, soluble arsenic and soluble barium have been below the AWQS in both wells when analyzed, except for MW-3 in 2013 and 2016 when soluble arsenic exceeded the AWQS. Soluble arsenic and soluble barium were not analyzed in 2020 due to measured turbidity levels below 50 NTUs. The last time that soluble arsenic and barium were analyzed, 2018, soluble arsenic was below the analytical detection limits in MW-3 and MW-5 and soluble barium was detected in both wells at levels below the AWQS.

Groundwater Flow Direction

The water level measurements recorded on September 15, 2020 (see **Table 3**) are consistent with previous measurements. The groundwater elevation contour map (**Figure 3**) indicates that the groundwater flow direction is generally to the southeast across the Site, which is consistent with previously observed flow directions.

Recommendations/Conclusions

Based on the current sampling results, groundwater flow direction, and the following points, groundwater monitoring should continue on an annual schedule:

- The detected concentrations of one VOC (1,1-DCA) was low, although exceeding the AWQS in MW-3. Three other VOCs were detected (1,1,1-TCA, TCE, and 1,1-DCE) in MW-3, but each was below the AWQS;

- As shown by the lack of VOCs in MW-5, VOCs observed in onsite well (MW-3) will naturally attenuate prior to reaching the facility boundary;

- Total arsenic has been below the AWQS during five out of the last 20 sampling events in MW-3, and below the AWQS during 15 out of the last 20 sampling events in MW-5;

- Soluble arsenic, when analyzed, has typically been below the detection limits or the AWQS. The only two exceptions were in 2013 and 2016 in MW-3; and

- Total barium and soluble barium (when analyzed) have been below the AWQS during the current event and all previous sampling events in MW-3 and MW-5.

If you need additional information or would like to discuss the results of this Annual Groundwater Monitoring Report, please contact me at (716) 525-3425.

Sincerely,

Eric A. Felter
Project Manager

Michelle Mattice
Site Leader – Honeywell Buffalo Research Laboratory

ATTACHMENT A

Well Sampling Records

Table 2

Honeywell Specialty Chemicals
Historical Analytical Results

Compound	NYSDEC AWQS (ug/L)	MW-1 10/17/94	MW-1 1/18/95	MW-2 10/17/94	MW-2 1/18/95	MW-2 5/27/03	MW-3 10/17/94	MW-3 1/18/95	MW-3 8/23/99	MW-3 10/19/00	MW-3 12/10/01	MW-3 11/19/02	MW-3 5/27/03	MW-3 11/13/03	MW-3 5/25/04	MW-3 4/28/05	MW-3 4/25/06	MW-3 5/1/07
Total Arsenic	25	3 B	-	-	2.9 B	8.80 J	-	3 B	18	**34**	23 J	**63.3**	13.2 J	13.4 J	8.38 J	**33.0**	**39.0**	**39.0**
Soluble Arsenic	25	NA	NA	NA	NA	6.41 J	NA	NA	NA	NA	13 J	16 J	9.2 J	13.1 J	NA	NA	24	-
Total Barium	1,000	102 B	67.6	197 B	157 B	130	111 B	129 B	166	135	140	194	197	262	279	357	302	394
Soluble Barium	1,000	NA	NA	NA	NA	129	NA	NA	NA	NA	140	177	191	245	NA	NA	361	324
Acetone	50	12	-	11	6 J	NA	7	**59**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	50	-	-	-	-	NA	-	6 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	5	-	-	-	-	-	**36**	**10**	**20**	**17.1**	**7.62**	**16.2**	**12.3**	-	-	-	**10**	**12.3**
Tetrachloroethene (PCE)	5	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	2.11 J	-	-
Trichloroethene (TCE)	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**5.20 J**	-	-
1,1-Dichloroethene	5	-	-	-	-	-	**4**	-	-	<10	-	-	-	-	-	-	-	-
Methylene Chloride	5	**11**	-	**8**	-	-	**8**	-	-	<10	-	-	-	-	-	-	-	-
1,1-Dichloroethane	5	-	-	-	-	-	**42**	**11**	**20**	**20.7**	**7.73**	**26.0**	**17.3**	-	-	**6.42 J**	**14**	**17.1**
1,2-Dichloroethane	0.6	**11**	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	3	-	-	-	-	-	-	-	-	-	2.86	-	-	-	-	-	-	-
1,2-Dichloropropane	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	5	-	-	-	3 J	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Bold data exceed NYSDEC Ambient Water Quality Standards (AWQS).
- = Compound not detected above analytical detection limits.
J = Analytical result is an estimate.
NA = Not analyzed.
B = Compond also identified in blank.

Table 2

Honeywell Specialty Chemicals
Historical Analytical Results

Compound	NYSDEC AWQS (ug/L)	MW-3 5/6/08	MW-3 4/21/09	MW-3 4/29/10	MW-3 4/19/11	MW-3 4/17/12	MW-3 7/9/13	MW-3 7/9/14	MW-3 9/5/15	MW-3 8/16/16	MW-3 8/1/17	MW-3 6/26/18	MW-3 7/29/19	MW-3 9/15/20	MW-4 10/17/94	MW-4 1/18/95	MW-5 10/17/94	MW-5 1/18/95	MW-5 8/23/99
Total Arsenic	25	**34.0**	13	**58**	20	**36**	**145**	**44**	**90**	**176**	**54**	**150**	**466**	**83**	-	5.6 B	-	-	**113**
Soluble Arsenic	25	13	NA	-	-	18	**69**	-	NA	**43.7**	15	-	NA	NA	NA	NA	NA	NA	NA
Total Barium	1,000	361	206	147	313	204	289	203	455	446	215	246	425	374	183 B	243	71 B	74 B	170
Soluble Barium	1,000	360	NA	136	331	128	226	200	NA	508	244	180	NA	NA	NA	NA	NA	NA	NA
Acetone	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	-	NA	NA	-	6	-	5	-	NA
2-Butanone	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	-	NA	NA	-	-	-	-	-	NA
Chloroform	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	5	**11.2**	**17.7**	**8.22**	**7.3**	**11.4**	**5.9**	-	**9.2**	4.7	**9.0**	**9.8**	4.2	4.1	-	-	-	-	-
Tetrachloroethene (PCE)	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	5	-	-	-	-	-	-	-	-	-	-	-	0.90	0.51	-	-	-	-	-
1,1-Dichloroethene	5	-	**23.3**	-	-	2.54	2.1	2.3	3.3	1.6	4.4	4.1	2.4	1.8	-	-	-	-	-
Methylene Chloride	5	-	-	-	-	-	-	-	-	-	-	-	-	-	**8**	-	**12**	-	-
1,1-Dichloroethane	5	**17.1**	-	**12.1**	**10.6**	**21.1**	**8.5**	**19.2**	**29**	**28**	**38**	**40**	**22**	**19**	-	-	-	-	-
1,2-Dichloroethane	0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	3	-	-	-	-	-	**4.2**	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	5	-	-	-	-	-	-	-	-	-	-	-	3.9	-	-	-	-	-	-
Vinyl chloride	2	-	-	-	-	**13.7**	-	**4.4**	-	-	**2.6**	-	-	-	-	-	-	-	-

Bold data exceed NYSDEC Ambient Water Quality Standards (AWQS).
- = Compound not detected above analytical detection limits.
J = Analytical result is an estimate.
NA = Not analyzed.
B = Compond also identified in blank.

Table 2

Honeywell Specialty Chemicals
Historical Analytical Results

Compound	NYSDEC AWQS (ug/L)	MW-5 10/19/00	MW-5 12/10/01	MW-5 11/19/02	MW-5 5/27/03	MW-5 11/13/03	MW-5 5/25/04	MW-5 4/28/05	MW-5 4/25/06	MW-5 5/1/07	MW-5 5/6/08	MW-5 4/21/09	MW-5 4/29/10	MW-5 4/19/11	MW-5 4/17/12	MW-5 7/9/13	MW-5 7/9/14	MW-5 9/8/15
Total Arsenic	25	**37**	20 J	24.1 J	15.1 J	**106**	8.17 J	13.3 J	-	-	**28.0**	20	**31**	11	**34**	12	16	-
Soluble Arsenic	25	NA	6 J	14.0 J	8.18 J	9.1 J	NA	8.85	10	-	14	NA	19	-	17	-	-	NA
Total Barium	1,000	100	80	95.1	83.8	214	63.9	94.9	92	58	56	50	61	56	56	70	61	58
Soluble Barium	1,000	NA	80	76	70.2	63.8	NA	86.4	71	21	63	NA	57	71	67	57	51	NA
Acetone	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	5	**31.1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Bold data exceed NYSDEC Ambient Water Quality Standards (AWQS).

- = Compound not detected above analytical detection limits.

J = Analytical result is an estimate.

NA = Not analyzed.

B = Compond also identified in blank.

Table 2

Honeywell Specialty Chemicals
Historical Analytical Results

Compound	NYSDEC AWQS (ug/L)	MW-5 8/16/16	MW-5 8/1/17	MW-5 6/26/18	MW-5 7/29/19	MW-5 9/15/20	MW-6 10/17/94	MW-6 1/18/95	MW-6 5/27/03	MW-7 10/17/94	MW-7 1/18/95	MW-8 10/17/94	MW-8 1/18/95	MW-9 10/17/94	MW-9 1/18/95	MW-9 5/25/04	MW-10 10/17/94	MW-10 1/18/95	MW-10 5/27/03
Total Arsenic	25	6	19	**122**	7	7	-	-	5.64 J	-	2.7 B	-	-	-	-	**28.1**	4 B	-	19.7 J
Soluble Arsenic	25	-	-	-	NA	NA	NA	NA	7.34 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Barium	1,000	169	137	254	209	143	84 B	61.5 B	65.2	176 B	204 B	90 B	77.2 B	149 B	134 B	205	33 B	22.3 B	16.5
Soluble Barium	1,000	108	124	165	NA	NA	NA	NA	69.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	50	NA	-	NA	-	-	4	-	NA	9	-	6	-	27	18	NA	21	5 J	NA
2-Butanone	50	NA	-	NA	-	-	-	-	NA	-	-	-	-	-	-	NA	-	-	NA
Chloroform	7	6.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	5	1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	5	-	-	-	-	-	5	-	-	**8**	-	**8**	-	**19**	-	-	**16**	-	-
1,1-Dichloroethane	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	1	-	-	-	-	-	-	-	-	-	26	-	-	-	-	-	-	-	-
Toluene	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Bold data exceed NYSDEC Ambient Water Quality Standards (AWQS).
- = Compound not detected above analytical detection limits.
J = Analytical result is an estimate.
NA = Not analyzed.
B = Compond also identified in blank.

Table 3

Honeywell Specialty Chemicals
Groundwater Elevation Data

Monitoring Well ID	Water Level Measurement Date	Top of Well Casing Elevation (Feet AMSL)	Depth to Water (Feet TOC)	Water Table Elevation (Feet)
MW-1	10/17/1994	585.69	3.26	**582.43**
MW-1	11/8/1994	585.69	5.04	**580.65**
MW-1	11/15/1994	585.69	3.59	**582.10**
MW-1	1/17/1995	585.69	2.55	**583.14**
MW-2	10/17/1994	587.32	5.09	**582.23**
MW-2	11/8/1994	587.32	4.38	**582.94**
MW-2	11/15/1994	587.32	4.73	**582.59**
MW-2	1/17/1995	587.32	4.43	**582.89**
MW-2	8/23/1999	587.32	5.95	**581.37**
MW-2	10/19/2000	587.32	5.05	**582.27**
MW-2	12/10/2001	587.32	4.88	**582.44**
MW-2	11/19/2002	587.32	4.45	**582.87**
MW-2	5/27/2003	587.32	4.56	**582.76**
MW-2	11/13/2003	587.32	4.56	**582.76**
MW-2	5/25/2004	587.32	4.21	**583.11**
MW-2	4/28/2005	587.32	4.10	**583.22**
MW-2	4/25/2006	587.32	4.80	**582.52**
MW-2	5/1/2007	587.32	4.58	**582.74**
MW-2	5/6/2008	587.32	4.80	**582.52**
MW-2	4/21/2009	587.32	4.56	**582.76**
MW-2	4/29/2010	587.32	4.63	**582.69**
MW-2	4/19/2011	587.32	4.28	**583.04**
MW-2	4/17/2012	587.32	5.10	**582.22**
MW-2	7/9/2013	587.32	4.47	**582.85**
MW-2	7/9/2014	587.32	4.55	**582.77**
MW-2	9/8/2015	587.32	5.34	**581.98**
MW-2	8/16/2016	587.32	5.51	**581.81**
MW-2	8/1/2017	587.32	4.80	**582.52**
MW-2	6/26/2018	587.32	4.91	**582.41**
MW-2	7/29/2019	587.32	5.45	**581.87**
MW-2	9/15/2020	587.32	5.66	**581.66**
MW-3	10/17/1994	587.55	5.41	**582.14**
MW-3	11/8/1994	587.55	5.13	**582.42**
MW-3	11/15/1994	587.55	5.30	**582.25**
MW-3	1/17/1995	587.55	5.20	**582.35**
MW-3	8/23/1999	587.55	5.90	**581.65**
MW-3	10/19/2000	587.55	6.20	**581.35**
MW-3	12/10/2001	587.55	6.18	**581.37**
MW-3	11/19/2002	587.55	6.11	**581.44**
MW-3	5/27/2003	587.55	6.09	**581.46**
MW-3	11/13/2003	587.55	6.43	**581.12**
MW-3	5/25/2004	587.55	6.57	**580.98**
MW-3	4/28/2005	587.55	6.40	**581.15**
MW-3	4/25/2006	587.55	6.10	**581.45**
MW-3	5/1/2007	587.55	6.08	**581.47**
MW-3	5/6/2008	587.55	6.12	**581.43**
MW-3	4/21/2009	587.55	6.00	**581.55**
MW-3	4/29/2010	587.55	6.20	**581.35**
MW-3	4/19/2011	587.55	5.94	**581.61**
MW-3	4/17/2012	587.55	6.00	**581.55**
MW-3	7/9/2013	587.55	5.89	**581.66**
MW-3	7/9/2014	587.55	5.62	**581.93**
MW-3	9/8/2015	587.55	5.81	**581.74**
MW-3	8/16/2016	587.55	5.81	**581.74**
MW-3	8/1/2017	587.55	5.52	**582.03**
MW-3	6/26/2018	587.55	5.60	**581.95**
MW-3	7/29/2019	587.55	5.82	**581.73**
MW-3	9/15/2020	587.55	5.91	**581.64**
MW-4	10/17/1994	583.87	3.18	**580.69**
MW-4	11/8/1994	583.87	4.30	**579.57**
MW-4	11/15/1994	583.87	2.96	**580.91**
MW-4	1/17/1995	583.87	2.86	**581.01**

Table 3
Honeywell Specialty Chemicals
Groundwater Elevation Data

Monitoring Well ID	Water Level Measurement Date	Top of Well Casing Elevation (Feet AMSL)	Depth to Water (Feet TOC)	Water Table Elevation (Feet)
MW-5	10/17/1994	583.47	4.96	**578.51**
MW-5	11/8/1994	583.47	4.65	**578.82**
MW-5	11/15/1994	583.47	4.76	**578.71**
MW-5	1/17/1995	583.47	4.77	**578.70**
MW-5	8/23/1999	583.47	4.82	**578.65**
MW-5	10/19/2000	583.47	4.55	**578.92**
MW-5	12/10/2001	583.47	4.86	**578.61**
MW-5	11/19/2002	583.47	5.02	**578.45**
MW-5	5/27/2003	583.47	5.27	**578.20**
MW-5	11/13/2003	583.47	8.46	**575.01**
MW-5	5/25/2004	583.47	6.30	**577.17**
MW-5	4/28/2005	583.47	4.82	**578.65**
MW-5	4/25/2006	583.47	5.12	**578.35**
MW-5	5/1/2007	583.47	5.62	**577.85**
MW-5	5/6/2008	583.47	6.32	**577.15**
MW-5	4/21/2009	583.47	8.72	**574.75**
MW-5	4/29/2010	583.47	9.02	**574.45**
MW-5	4/19/2011	583.47	8.29	**575.18**
MW-5	4/17/2012	583.47	8.28	**575.19**
MW-5	7/9/2013	583.47	8.30	**575.17**
MW-5	7/9/2014	583.47	5.30	**578.17**
MW-5	9/8/2015	583.47	8.30	**575.17**
MW-5	8/16/2016	583.47	6.85	**576.62**
MW-5	8/1/2017	583.47	5.87	**577.60**
MW-5	6/26/2018	583.47	5.98	**577.49**
MW-5	7/29/2019	583.47	6.01	**577.46**
MW-5	9/15/2020	583.47	6.32	**577.15**
MW-6	10/17/1994	585.22	2.68	**582.54**
MW-6	11/8/1994	585.22	2.49	**582.73**
MW-6	11/15/1994	585.22	2.55	**582.67**
MW-6	1/17/1995	585.22	2.54	**582.68**
MW-6	5/27/2003	585.22	2.48	**582.74**
MW-6	10/17/1994	585.22	2.68	**582.54**
MW-6	11/8/1994	585.22	2.49	**582.73**
MW-6	11/15/1994	585.22	2.55	**582.67**
MW-6	1/17/1995	585.22	2.54	**582.68**
MW-6	5/27/2003	585.22	2.48	**582.74**
MW-6	7/9/2013	585.22	2.75	**582.47**
MW-6	7/9/2014	585.22	2.69	**582.53**
MW-6	9/8/2015	585.22	3.56	**581.66**
MW-6	8/16/2016	585.22	3.42	**581.80**
MW-6	8/1/2017	585.22	3.16	**582.06**
MW-6	6/26/2018	585.22	3.34	**581.88**
MW-6	7/29/2019	585.22	3.51	**581.71**
MW-6	9/15/2020	585.22	3.50	**581.72**
MW-7	10/17/1994	585.42	3.71	**581.71**
MW-7	11/8/1994	585.42	3.36	**582.06**
MW-7	11/15/1994	585.42	3.62	**581.80**
MW-7	1/17/1995	585.42	3.38	**582.04**
MW-7	7/9/2013	585.42	3.38	**582.04**
MW-7	7/9/2014	585.42	3.40	**582.02**
MW-7	9/8/2015	585.42	3.75	**581.67**
MW-7	8/16/2016	585.42	3.84	**581.58**
MW-7	8/1/2017	585.42	3.60	**581.82**
MW-7	6/26/2018	585.42	3.46	**581.96**
MW-7	7/29/2019	585.42	3.85	**581.57**
MW-7	9/15/2020	585.42	3.90	**581.52**
MW-8	10/17/1994	587.94	5.55	**582.39**
MW-8	11/8/1994	587.94	5.40	**582.54**
MW-8	11/15/1994	587.94	5.53	**582.41**
MW-8	1/17/1995	587.94	5.82	**582.12**
MW-8	8/23/1999	587.94	5.40	**582.54**
MW-8	10/19/2000	587.94	5.30	**582.64**

Table 3
Honeywell Specialty Chemicals
Groundwater Elevation Data

Monitoring Well ID	Water Level Measurement Date	Top of Well Casing Elevation (Feet AMSL)	Depth to Water (Feet TOC)	Water Table Elevation (Feet)
MW-8	12/10/2001	587.94	5.35	582.59
MW-8	11/19/2002	587.94	5.25	582.69
MW-8	5/27/2003	587.94	5.21	582.73
MW-8	11/13/2003	587.94	5.09	582.85
MW-8	5/25/2004	587.94	4.91	583.03
MW-8	4/28/2005	587.94	4.99	582.95
MW-8	4/25/2006	587.94	5.3	582.64
MW-8	5/1/2007	587.94	5.23	582.71
MW-8	5/6/2008	587.94	5.25	582.69
MW-8	4/21/2009	587.94	4.68	583.26
MW-8	4/29/2010	587.94	5.32	582.62
MW-8	4/19/2011	587.94	5.12	582.82
MW-8	4/17/2012	587.94	5.43	582.51
MW-8	7/9/2013	587.94	4.86	583.08
MW-8	7/9/2014	587.94	4.82	583.12
MW-8	9/8/2015	587.94	5.46	582.48
MW-8	8/16/2016	587.94	5.05	582.89
MW-8	8/1/2017	587.94	5.09	582.85
MW-8	6/26/2018	587.94	5.10	582.84
MW-8	7/29/2019	587.94	5.15	582.79
MW-8	9/15/2020	587.94	5.14	582.80
MW-9	10/17/1994	584.48	2.39	582.09
MW-9	11/8/1994	584.48	1.83	582.65
MW-9	11/15/1994	584.48	2.09	582.39
MW-9	1/17/1995	584.48	2.02	582.46
MW-9	10/19/2000	584.48	0.00	584.48
MW-9	5/27/2003	584.48	1.91	582.57
MW-9	5/25/2004	584.48	2.90	581.58
MW-9	4/19/2011	584.48	2.26	582.22
MW-9	4/17/2012	584.48	1.86	582.62
MW-9	7/9/2013	584.48	2.26	582.22
MW-9	7/9/2014	584.48	2.50	581.98
MW-9	9/8/2015	584.48	2.45	582.03
MW-9	8/16/2016	584.48	2.10	582.38
MW-9	8/1/2017	584.48	1.68	582.80
MW-9	6/26/2018	584.48	2.76	581.72
MW-9	7/29/2019	584.48	2.66	581.82
MW-9	9/15/2020	584.48	2.66	581.82
MW-10	10/17/1994	587.85	5.31	582.54
MW-10	11/8/1994	587.85	3.44	584.41
MW-10	11/15/1994	587.85	3.98	583.87
MW-10	1/17/1995	587.85	3.40	584.45
MW-10	8/23/1999	587.85	7.83	580.02
MW-10	10/19/2000	587.85	5.01	582.84
MW-10	12/10/2001	587.85	4.13	583.72
MW-10	11/19/2002	587.85	4.23	583.62
MW-10	5/27/2003	587.85	3.85	584.00
MW-10	11/13/2003	587.85	3.63	584.22
MW-10	5/25/2004	587.85	3.00	584.85
MW-10	4/28/2005	587.85	3.53	584.32
MW-10	4/25/2006	587.85	4.65	583.20
MW-10	5/1/2007	587.85	6.89	580.96
MW-10	5/6/2008	587.85	4.02	583.83
MW-10	4/21/2009	587.85	6.82	581.03
MW-10	4/29/2010	587.85	4.40	583.45
MW-10	4/19/2011	587.85	3.42	584.43
MW-10	4/17/2012	587.85	5.84	582.01
MW-10	7/9/2013	587.85	3.49	584.36
MW-10	7/9/2014	587.85	3.60	584.25
MW-10	9/8/2015	587.85	5.55	582.3
MW-10	8/16/2016	587.85	5.64	582.21
MW-10	8/1/2017	587.85	5.07	582.78
MW-10	6/26/2018	587.85	4.39	583.46
MW-10	7/29/2019	587.85	5.21	582.64
MW-10	9/15/2020	587.85	4.81	583.04

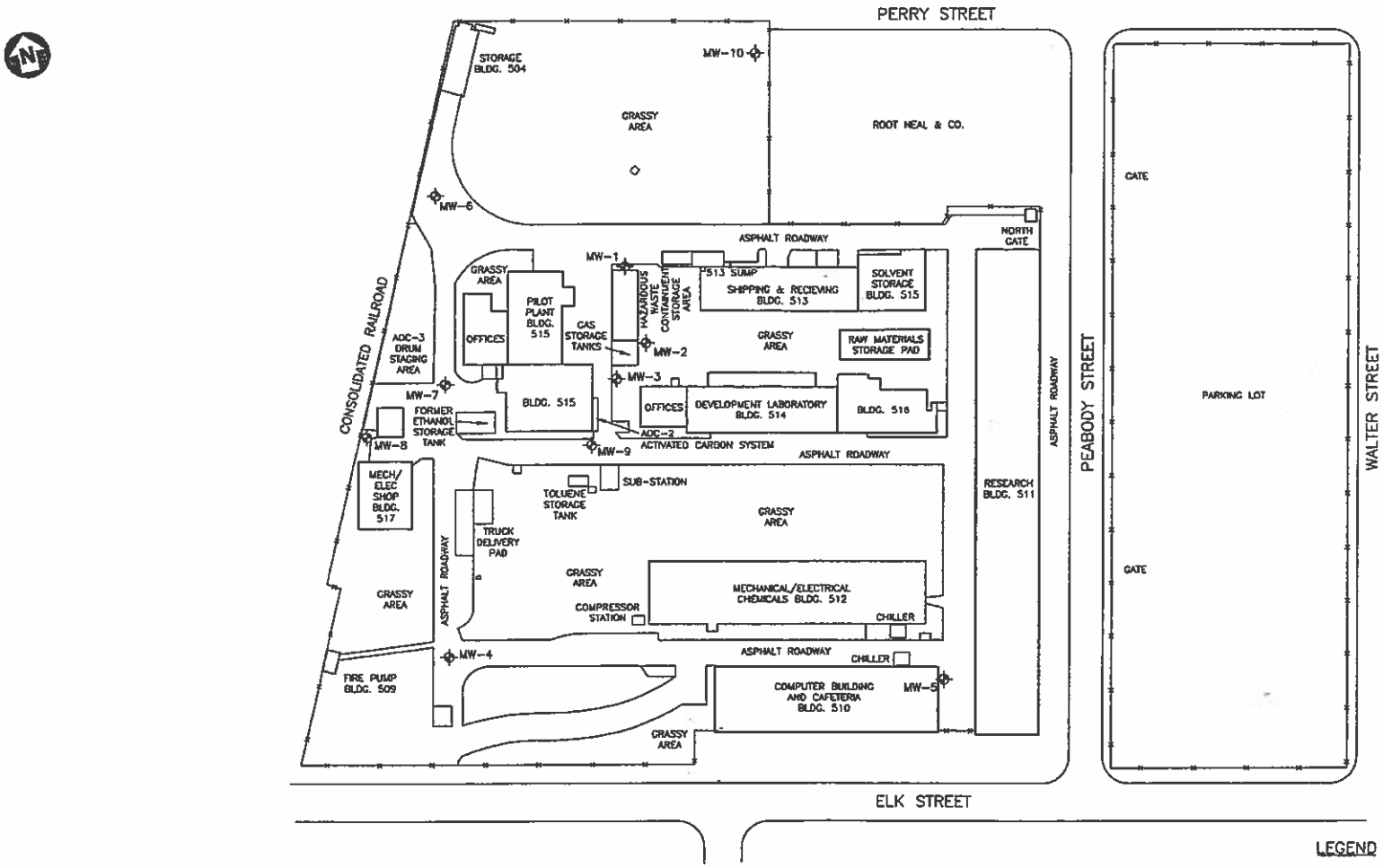


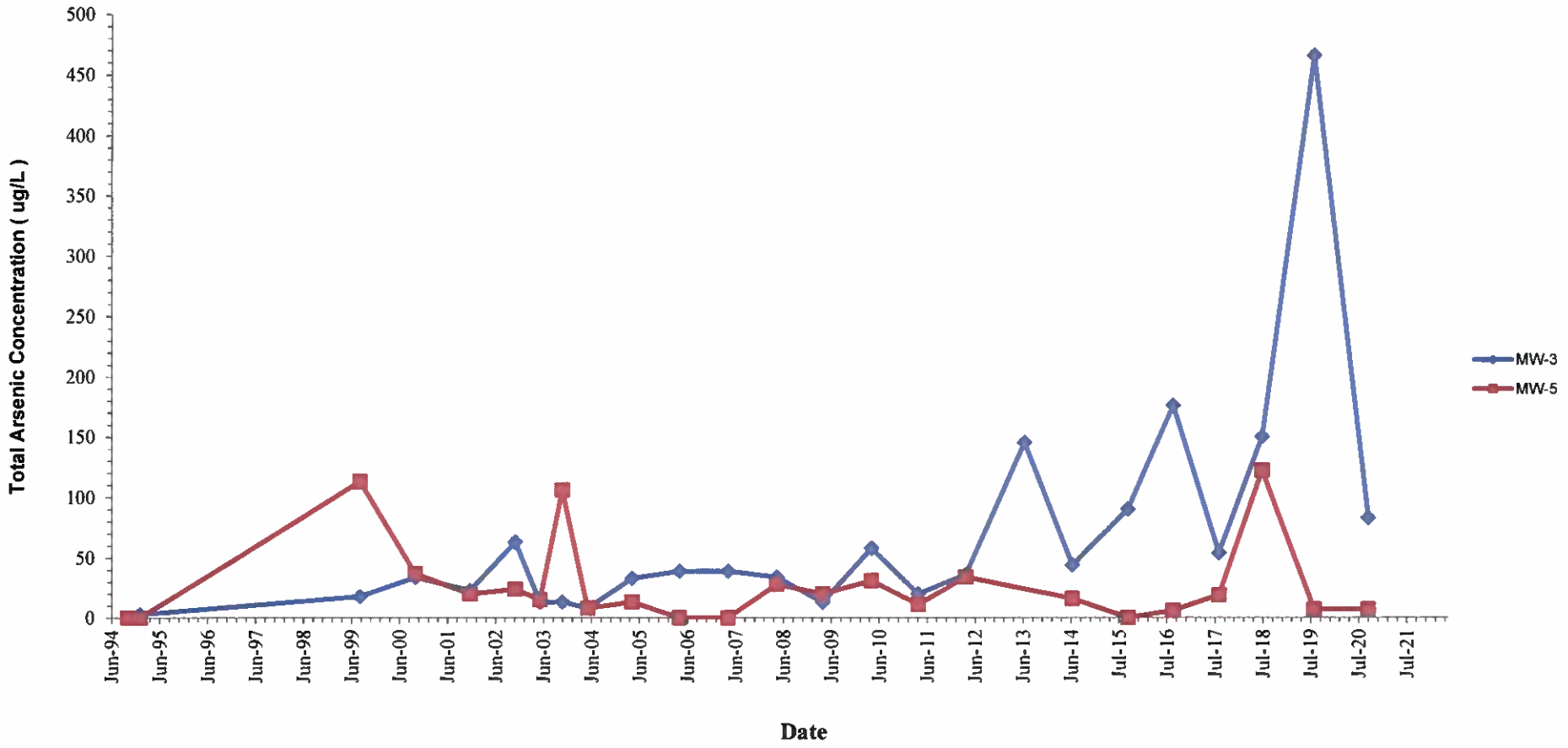
FIGURE 1

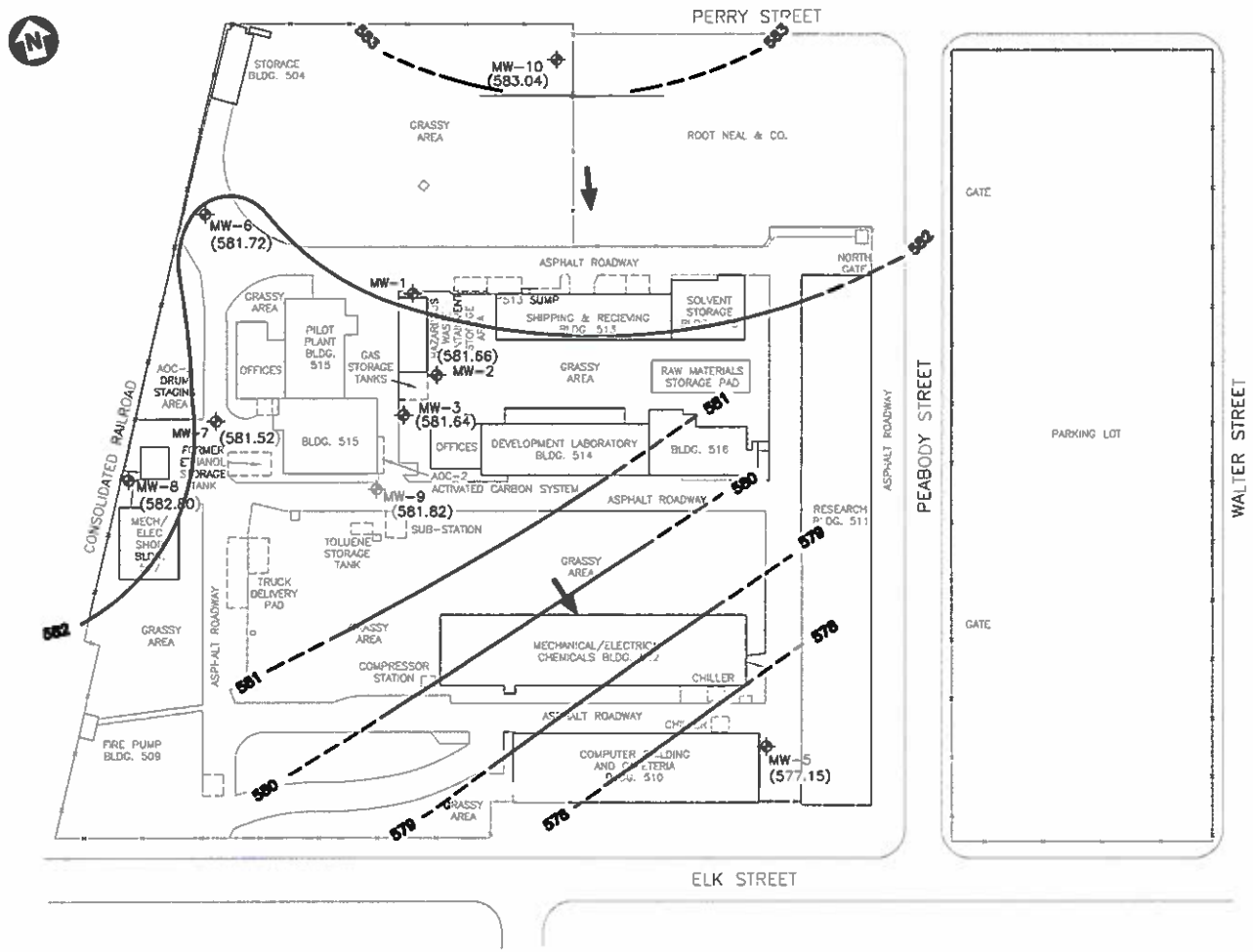
SITE PLAN
HONEYWELL SPECIALTY CHEMICALS
BUFFALO, NEW YORK

PARSONS
100 LAWRENCE BELL DRIVE, SUITE 104, WILLIAMSVILLE, N.Y. 14221, PHONE: 716-633-7074

P:\741239-hnywellSpecChem\cad\41239C02.dwg, 12/05/02 at 09:22, MAB, 1=1
No XREFs

Figure 2: Plot of Total Arsenic Concentrations





LEGEND:

- MW-2 — MONITORING WELL LOCATION
- 580 — GROUNDWATER ELEVATION CONTOUR LINE (CONTOUR INTERVAL = 0.5 FOOT)
- (578.35) — GROUNDWATER ELEVATION
- NM — WATER LEVEL UNABLE TO BE MEASURED
- GROUNDWATER FLOW DIRECTION

100 50 0 100 200

SCALE: 1"=100'

FILE NAME: P:\HONEYWELL -SYR\448331\CAD\GW-2020\448331-SEPT(GW-2020).DWG
PLOT DATE: 9/30/2020 11:15 AM PLOTTED BY: RUSSO, JILL

FIGURE 3

Honeywell SPECIALTY CHEMICALS BUFFALO, NEW YORK

GROUNDWATER ELEVATION CONTOUR MAP (SEPTEMBER 15, 2020)

PARSONS
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OFFICES IN PRINCIPAL CITIES

ATTACHMENT A

Well Sampling Records

PG 1 OF 2

LOW FLOW WELL SAMPLING RECORD

Site Name: Honeywell BRL Well ID: MW-3 Well Diameter: 2 Inches

Samplers: Dan Chamberland Monitored Natural Attenuation Sample Set (Y/N)?

Purging Data

WATER VOLUME CALCULATION				
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot				
Casing Volumes (gal/ft.):				
1-inch=0.041	1.5-inch=0.092	2-inch=0.16	3-inch=0.36	
4-inch=0.64	6-inch=1.4	8-inch=2.5	10-inch=4	

Method: Low Flow Date/Time: 9/15/2020 12:10

Time	DTW	Pump Rate	Vol.	pH	Spec. Cond.	Turbidity	Temp.	ORP	DO	TDS	Comments
24 hr.	ft.	ml/min.	gal.		mS/cm	NTU	°C				
12:00	5.91	200	0.0	7.98	1.91	9.9	17.93	-69	4.23	1.23	CLEAR
12:10	6.55	200	0.5	7.22	1.98	0.0	17.13	-58	1.95	1.10	
12:20	6.51	200	1.0	7.19	1.65	0.0	17.89	-59	1.99	1.06	
12:30	6.46	200	1.5	7.17	1.72	0.0	18.03	-54	2.00	1.09	
12:35	6.41	200	1.8	7.15	1.83	0.0	18.18	-49	2.01	1.18	
12:40	6.37	200	2.1	7.17	2.00	0.0	18.26	-44	2.14	1.25	
12:45	6.35	200	2.4	7.18	2.01	0.0	18.33	-34	2.21	1.29	CLEAR
12:50	6.32	200	2.8	7.12	2.03	0.0	18.44	-52	3.75	1.36	
12:55	6.34	200	3.0	7.16	2.12	0.0	18.30	-33	2.35	1.36	
13:00	6.33	200	3.3	7.28	2.20	0.0	18.42	-34	2.81	1.42	
13:05	6.34	200	3.5	7.37	2.30	0.0	18.53	-39	3.29	1.47	
13:10	6.34	200	3.7	7.22	2.32	0.0	18.53	-35	2.57	1.48	
13:15	6.34	200	4.0	7.22	2.51	0.0	18.20	-34	2.86	1.61	
13:20	6.34	200	4.2	7.21	2.73	0.0	18.19	-38	2.27	1.75	

Sampling Data

Method: Peristaltic Pump Date/Time: ~~9/15~~ 14:00 9/15/2020 Total Volume of Water purged:

Field Parameters

HORRIBA	
pH	7.41
Spec. Cond.(mS/cm)	3.58
Turbidity (NTU)	0.0
Temp.(°C)	18.54

SAMPLE SET			
Parameter	Bottle	Pres.	Method
Ar & Ba	250mL	HNO3	
Soluble Ar &Ba	250mL	NA	
Turbidity	250mL	NA	
VOC-TCL	3-40mL vial	HCL	

Comments:

LOW FLOW WELL SAMPLING RECORD

Site Name: Honeywell BRL Well ID: MW-7 Well Diameter: 2 Inches

Samplers: Dan Chamberland Monitored Natural Attenuation Sample Set (Y/N)?

Purging Data

WATER VOLUME CALCULATION				
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot				
Casing Volumes (gal/ft.):				
1-inch=0.041	1.5-inch=0.092	2-inch=0.16	3-inch=0.36	
4-inch=0.64	6-inch=1.4	8-inch=2.5	10-inch=4	

Method: Low Flow Date/Time: 9/15/2020 12:10

Time 24 hr.	DTW ft.	Pump Rate ml/min.	Vol. gal.	pH	Spec. Cond. mS/cm	Turbidity NTU	Temp. °C	ORP	DO	TDS	Comments
13:25	6.34	200	4.4	7.23	2.90	0.0	18.29	-38	2.41	1.86	
13:30	6.34	200	4.6	7.25	3.05	0.6	18.47	-41	2.37	1.95	
13:35	6.34	200	4.8	7.28	3.25	0.0	18.44	-42	2.19	2.08	
13:40	6.34	200	5.0	7.22	3.33	0.0	18.46	-41	2.06	2.14	
13:45	6.35	200	5.2	7.25	3.39	0.0	18.38	-45	2.04	2.30	
13:50	6.35	200	5.4	7.32	3.49	0.0	18.47	-45	2.09	2.34	
13:55	6.35	200	5.6	7.36	3.55	0.0	18.52	-47	2.08	2.46	
14:00	6.35	200	5.8	7.41	3.58	0.0	18.54	-47	2.14	2.50	

Sampling Data

Method: Peristaltic Pump Date/Time: 9/15/20 14:00 Total Volume of Water purged: 5.8

Field Parameters

HORRIBA	
pH	7.41
Spec. Cond.(mS/cm)	3.58
Turbidity (NTU)	0.0
Temp.(°C)	18.54

SAMPLE SET			
Parameter	Bottle	Pres.	Method
Ar & Ba	250mL	HNO3	
Soluble Ar &Ba	250mL	NA	
Turbidity	250mL	NA	
VOC-TCL	3-40mL vial	HCL	

Comments:

PARSONS

WELL SAMPLING RECORD

Site Name *Honeywell Speciality Chemicals* Well ID *MW-3*

Samplers *Dan Chamberland*

Total Well Depth (TOC)	18.50	feet
Initial Static Water Level (TOC)	5.90	feet
Well Diameter	2.0	inches

Purging Data

Method *Peristaltic Pump* Date/Time *09/15/20 12:00*

Water Volume = (Total Depth of Well - Depth To Water) x Casing Volume per Foot

= *18.50* - *5.90* x *0.16*

2.05 gallons

Casing Volumes (gal/ft.):					
1-inch	0.041	1.5-inch	0.092	2-inch	0.16
3-inch	0.36	4-inch	0.64	6-inch	1.4
8-inch	2.5			10 inch	4

Volume of Purge Water Removed *5.8* gallons

Sampling Data

Method *Peristaltic Pump* Date/Time *09/15/2020 14:00*

Parameters	Bottle	Pres.	Method
VOCs - TCL	*3- 40mL vials*	*HCl*	*8260*
Turbidity	*1- 250mL Plastic Bottle*	*none*	
Ar & Ba	*1- 250mL Plastic Bottle*	*HNO_3*	*206.2/200.7*
Ar & Ba (soluble)	*1- 250mL Plastic Bottle*	*none*	

Field Parameters	*1 Volume*	*2 Volume*	*3 Volume*	*Sample*
pH				
Temp. (C)				
Spec. Cond. (mS/cm)				
Turbidity (NTU)				
Volume (gal)				
Time				

Comments: *Purge water is very clear throughout the well purge.*

Separate Purge Sheet attached

LOW FLOW WELL SAMPLING RECORD

Site Name: Honeywell BRL Well ID: MW-5 Well Diameter: 2 Inches

Samplers: Dan Chamberland Monitored Natural Attenuation Sample Set (Y/N)?

Purging Data

WATER VOLUME CALCULATION				
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot				
Casing Volumes (gal/ft.):				
1-inch=0.041	1.5-inch=0.092	2-inch=0.16	3-inch=0.36	
4-inch=0.64	6-inch=1.4	8-inch=2.5	10-Inch=4	

Method: Low Flow Date/Time: 9/15/2020 10:20

Time	DTW	Pump Rate	Vol.	pH	Spec. Cond.	Turbidity	Temp.	ORP	DO	TDS	Comments
24 hr.	ft.	ml/min.	gal.		mS/cm	NTU	°C				
10:20	6.32	200	0.0	5.82	1.50	65.0	15.64	-26	3.41	0.959	SUSPENDED
10:30	6.35	200	0.5	6.72	1.52	52.5	16.16	-42	2.29	0.978	SOLIDS
10:40	6.36	200	1.0	6.87	9.04	29.2	17.05	-42	1.97	2.86	
10:45	6.36	200	1.3	7.15	7.17	23.4	17.46	-31	2.43	4.63	CLEAR
10:50	6.41	200	1.6	7.28	9.24	10.1	17.90	-18	3.33	5.82	CLEAR
10:55	6.43	200	1.9	7.36	10.2	2.5	17.93	-7	2.61	6.35	
11:00	6.45	200	2.2	7.31	10.7	0.0	17.44	0	2.42	6.66	
11:05	6.50	180	2.5	7.36	11.0	0.0	18.01	4	2.56	6.83	
11:10	6.50	180	2.8	7.35	11.0	0.0	18.26	7	2.63	6.83	
11:15	6.50	180	3.1	7.36	10.9	0.0	18.23	11	2.44	6.73	
11:20	6.50	180	3.4	7.38	10.7	0.0	14.33	14	2.42	6.63	CLEAR
11:25	6.50	180	3.7	7.39	10.6	0.0	18.41	17	2.45	6.56	
11:30	6.50	180	4.0	7.49	10.5	0.0	18.37	20	2.42	6.50	

Sampling Data

Method: Peristaltic Pump Date/Time: 9/15/2020 11:30 Total Volume of Water purged: 4.0

Field Parameters

HORRIBA	
pH	7.49
Spec. Cond.(mS/cm)	10.5
Turbidity (NTU)	0.0
Temp.(°C)	18.37

SAMPLE SET			
Parameter	Bottle	Pres.	Method
Ar & Ba	250mL	HNO3	
Soluble Ar &Ba	250mL	NA	
Turbidity	250mL	NA	
VOC-TCL	3-40mL vial	HCL	

Comments:

PARSONS

WELL SAMPLING RECORD

Site Name *Honeywell Speciality Chemicals* Well ID *MW-5*

Samplers *Dan Chamberland*

Total Well Depth (TOC)	15.68	feet
Initial Static Water Level (TOC)	6.32	feet
Well Diameter	2.0	inches

Purging Data

Method *Peristaltic Pump* Date/Time *09/15/2020 10:20*

Water Volume = (Total Depth of Well - Depth To Water) x Casing Volume per Foot

= *15.68* - *6.32* x *0.16*

1.55 gallons

Casing Volumes (gal/ft.):					
1-inch	0.041	1.5-inch	0.092	2-inch	0.16
3-inch	0.36	4-inch	0.64	6-inch	1.4
8-inch	2.5			10 inch	4

Volume of Purge Water Removed *4.0* gallons

Sampling Data

Method *Peristaltic Pump* Date/Time *09/15/2020 11:30*

Parameters	Bottle	Pres.	Method
VOCs - TCL	*3- 40mL vials*	*HCl*	*8260*
Ar & Ba	*1- 250mL Plastic Bottle*	*HNO3*	*206.2/200.7*
Turbidity	*1- 250mL Plastic Bottle*	*none*	
Ar & Ba (soluble)	*1- 250mL Plastic Bottle*	*none*	

Field Parameters	*1 Volume*	*2 Volume*	*3 Volume*	*Sample*
pH				
Temp. (C)				
Spec. Cond. (mS/cm)				
Turbidity (NTU)				
Volume (gal)				
Time				

Comments: *Purge water very turbid, clears up as the well is purged. Separate sheet attached.*

WELL INSPECTION FORM

Site Name	*Honeywell Specialty Chemicals*	Well ID	*MW-2*
Personnel	*Daniel Chamberland*		

Total Well Depth (TOC)	18.90	feet
Initial Static Water Level (TOC)	5.66	feet
Well Diameter	2.0	inches
Condition of Pro-Cover	OK	
Well Locked	yes / no	
Condition of J-Plug	Good	
Concrete Pad Condition	OK	
Asphalt Condition	NA	
Date of Inspection	09/15/2020	
Time of Inspection	*13:00*	

Comments: *Stick up well. Fresh paint, hinge has been repaired.*

WELL INSPECTION FORM

Site Name: *Honeywell Specialty Chemicals* Well ID: *MW-3*

Personnel: *Dan Chamberland*

Total Well Depth (TOC)	18.50	feet
Initial Static Water Level (TOC)	5.91	feet
Well Diameter	2.0	inches
Condition of Pro-Cover	OK	
Well Locked	yes / no	
Condition of J-Plug	Good	
Concrete Pad Condition	OK	
Asphalt Condition	N/A	
Date of Inspection	09/15/2020	
Time of Inspection	*12:50*	

Comments: *Stick-up well. Hard bottom. Fresh paint and labeled*

WELL INSPECTION FORM

Site Name	*Honeywell Specialty Chemicals*	Well ID	*MW-5*
Personnel	*Dan Chamberland*		

Total Well Depth (TOC)	15.68	feet
Initial Static Water Level (TOC)	6.32	feet
Well Diameter	2.0	inches
Condition of Pro-Cover	OK	
Well Locked	yes / no	
Condition of J-Plug	Good	
Concrete Pad Condition	None	
Asphalt Condition	OK	
Date of Inspection	09/15/2020	
Time of Inspection	*10:20*	

Comments: *No concrete, new pavement in area. Curb box painted green. Pavement does not hold curb box in ground.*

WELL INSPECTION FORM

Site Name *Honeywell Specialty Chemicals* Well ID *MW-6*

Personnel *Dan Chamberland*

Total Well Depth (TOC)	16.50	feet
Initial Static Water Level (TOC)	3.50	feet
Well Diameter	2.0	inches
Condition of Pro-Cover	OK	
Well Locked	yes / no	
Condition of J-Plug	Good	
Concrete Pad Condition	OK	
Asphalt Condition	OK	
Date of Inspection	09/15/2020	
Time of Inspection	*15:30*	

Comments: *Flush-mount well. Soft bottom.*

WELL INSPECTION FORM

Site Name	*Honeywell Specialty Chemicals*	Well ID	*MW-7*
Personnel	*Dan Chamberland*		

Total Well Depth (TOC)	13.02	feet
Initial Static Water Level (TOC)	3.90	feet
Well Diameter	2.0	inches
Condition of Pro-Cover	Poor	
Well Locked	yes / no	
Condition of J-Plug	Good	
Concrete Pad Condition	Poor	
Asphalt Condition	OK	
Date of Inspection	09/15/2020	
Time of Inspection	*13:20*	

Comments: *Flush-mount well. Soft bottom. Curb box is not held in ground.*

WELL INSPECTION FORM

Site Name	*Honeywell Specialty Chemicals*	Well ID	*MW-8*
Personnel	*Dan Chamberland*		

Total Well Depth (TOC)	18.98	feet
Initial Static Water Level (TOC)	5.14	feet
Well Diameter	2.0	inches
Condition of Pro-Cover	OK	
Well Locked	yes / no	
Condition of J-Plug	Good	
Concrete Pad Condition	OK	
Asphalt Condition	OK	
Date of Inspection	09/15/2020	
Time of Inspection	*14:20*	

Comments: *Stick-up well. Soft bottom. Fresh paint and label.*

WELL INSPECTION FORM

Site Name	*Honeywell Specialty Chemicals*	Well ID	*MW-9*
Personnel	*Dan Chamberland*		

Total Well Depth (TOC)	16.45	feet
Initial Static Water Level (TOC)	2.66	feet
Well Diameter	2.0	inches
Condition of Pro-Cover	OK	
Well Locked	yes / no	
Condition of J-Plug	OK	
Concrete Pad Condition	OK	
Asphalt Condition	OK	
Date of Inspection	09/15/2020	
Time of Inspection	*14:30*	

Comments: *Flush mount well. Soft bottom. Curb box and concrete pad are new.*

WELL INSPECTION FORM

Site Name *Honeywell Specialty Chemicals* Well ID *MW-10*

Personnel *Daniel Chamberland*

Total Well Depth (TOC)	17.88	feet
Initial Static Water Level (TOC)	4.81	feet
Well Diameter	2.0	inches
Condition of Pro-Cover	OK	
Well Locked	yes	no
Condition of J-Plug	Good	
Concrete Pad Condition	OK	
Asphalt Condition	OK	
Date of Inspection	09/15/2020	
Time of Inspection	*14:40*	

Comments: *Stick-up well. Hard bottom. Hinge repaired, fresh paint.*

ATTACHMENT B

Groundwater Analytical Results

Sample ID: Monitoring Well 3
Sample Date: 09/15/20

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limits	Method
Total Arsenic	0.083	mg/L	0.025	EPA 6010
Soluble Arsenic	NA	mg/L	0.025	EPA 6010
Total Barium	0.374	mg/L	0.010	EPA 6010
Soluble Barium	NA	mg/L	0.010	EPA 6010
Chloromethane	ND	µg/L	10	SW 846 8260
Vinyl chloride	ND	µg/L	10	SW 846 8260
Bromomethane	ND	µg/L	10	SW 846 8260
Chloroethane	ND	µg/L	10	SW 846 8260
Trichlorofluoromethane	ND	µg/L	10	SW 846 8260
1,1-Dichloroethene	1.8	µg/L	10	SW 846 8260
Methylene chloride	ND	µg/L	10	SW 846 8260
Trans-1,2-Dichloroethene	ND	µg/L	10	SW 846 8260
1,1-Dichloroethane	19	µg/L	10	SW 846 8260
Bromochloromethane	ND	µg/L	10	SW 846 8260
Chloroform	ND	µg/L	10	SW 846 8260
1,2-Dichloroethane	ND	µg/L	10	SW 846 8260
1,1,1-Trichloroethane	4.1	µg/L	10	SW 846 8260
Carbon tetrachloride	ND	µg/L	10	SW 846 8260
Benzene	ND	µg/L	10	SW 846 8260
1,2-Dichloropropane	ND	µg/L	10	SW 846 8260
Trichloroethene	0.51	µg/L	10	SW 846 8260
2-Chloroethylvinyl ether	ND	µg/L	10	SW 846 8260
Cis-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
Trans-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
1,1,2-Trichloroethane	ND	µg/L	10	SW 846 8260
Toluene	ND	µg/L	10	SW 846 8260
Dibromochloromethane	ND	µg/L	10	SW 846 8260
Tetrachloroethene	ND	µg/L	10	SW 846 8260
Chlorobenzene	ND	µg/L	10	SW 846 8260
Ethylbenzene	ND	µg/L	10	SW 846 8260
Bromoform	ND	µg/L	10	SW 846 8260
1,1,2,2-Tetrachloroethane	ND	µg/L	10	SW 846 8260
1,3-Dichlorobenzene	ND	µg/L	10	SW 846 8260
1,4-Dichlorobenzene	ND	µg/L	10	SW 846 8260
1,2-Dichlorobenzene	ND	µg/L	10	SW 846 8260

Sample ID: Monitoring Well 5
Sample Date: 09/15/20

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limits	Method
Total Arsenic	0.007	mg/L	0.025	EPA 6010
Soluble Arsenic	NA	mg/L	0.025	EPA 6010
Total Barium	0.143	mg/L	0.010	EPA 6010
Soluble Barium	NA	mg/L	0.010	EPA 6010
Chloromethane	ND	µg/L	10	SW 846 8260
Vinyl chloride	ND	µg/L	10	SW 846 8260
Bromomethane	ND	µg/L	10	SW 846 8260
Chloroethane	ND	µg/L	10	SW 846 8260
Trichlorofluoromethane	ND	µg/L	10	SW 846 8260
1,1-Dichloroethene	ND	µg/L	10	SW 846 8260
Methylene chloride	ND	µg/L	10	SW 846 8260
Trans-1,2-Dichloroethene	ND	µg/L	10	SW 846 8260
1,1-Dichloroethane	ND	µg/L	10	SW 846 8260
Chloroform	ND	µg/L	10	SW 846 8260
1,2-Dichloroethane	ND	µg/L	10	SW 846 8260
1,1,1-Trichloroethane	ND	µg/L	10	SW 846 8260
Carbon tetrachloride	ND	µg/L	10	SW 846 8260
Benzene	ND	µg/L	10	SW 846 8260
1,2-Dichloropropane	ND	µg/L	10	SW 846 8260
Trichloroethene	ND	µg/L	10	SW 846 8260
2-Chloroethylvinyl ether	ND	µg/L	10	SW 846 8260
Cis-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
Trans-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
1,1,2-Trichloroethane	ND	µg/L	10	SW 846 8260
Toluene	ND	µg/L	10	SW 846 8260
Dibromochloromethane	ND	µg/L	10	SW 846 8260
Tetrachloroethene	ND	µg/L	10	SW 846 8260
Chlorobenzene	ND	µg/L	10	SW 846 8260
Ethylbenzene	ND	µg/L	10	SW 846 8260
Bromoform	ND	µg/L	10	SW 846 8260
1,1,2,2-Tetrachloroethane	ND	µg/L	10	SW 846 8260
1,3-Dichlorobenzene	ND	µg/L	10	SW 846 8260
Acetone	ND	µg/L	10	SW 846 8260
2-Butanone	ND	µg/L	10	SW 846 8260
1,4-Dichlorobenzene	ND	µg/L	10	SW 846 8260
1,2-Dichlorobenzene	ND	µg/L	10	SW 846 8260

Sample ID: Trip Blank
Sample Date: 09/15/20

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limits	Method
Chloromethane	ND	µg/L	10	SW 846 8260
Vinyl chloride	ND	µg/L	10	SW 846 8260
Bromomethane	ND	µg/L	10	SW 846 8260
Chloroethane	ND	µg/L	10	SW 846 8260
Trichlorofluoromethane	ND	µg/L	10	SW 846 8260
1,1-Dichloroethene	ND	µg/L	10	SW 846 8260
Methylene chloride	ND	µg/L	10	SW 846 8260
Trans-1,2-Dichloroethene	ND	µg/L	10	SW 846 8260
1,1-Dichloroethane	ND	µg/L	10	SW 846 8260
Bromochloromethane	ND	µg/L	10	SW 846 8260
Chloroform	ND	µg/L	10	SW 846 8260
1,2-Dichloroethane	ND	µg/L	10	SW 846 8260
1,1,1-Trichloroethane	ND	µg/L	10	SW 846 8260
Carbon tetrachloride	ND	µg/L	10	SW 846 8260
Benzene	ND	µg/L	10	SW 846 8260
1,2-Dichloropropane	ND	µg/L	10	SW 846 8260
Trichloroethene	ND	µg/L	10	SW 846 8260
2-Chloroethylvinyl ether	ND	µg/L	10	SW 846 8260
Cis-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
Trans-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
1,1,2-Trichloroethane	ND	µg/L	10	SW 846 8260
Toluene	ND	µg/L	10	SW 846 8260
Dibromochloromethane	ND	µg/L	10	SW 846 8260
Tetrachloroethene	ND	µg/L	10	SW 846 8260
Chlorobenzene	ND	µg/L	10	SW 846 8260
Ethylbenzene	ND	µg/L	10	SW 846 8260
Bromoform	ND	µg/L	10	SW 846 8260
1,1,2,2-Tetrachloroethane	ND	µg/L	10	SW 846 8260
1,3-Dichlorobenzene	ND	µg/L	10	SW 846 8260
Acetone	ND	µg/L	10	SW 846 8260
2-Butanone	ND	µg/L	10	SW 846 8260
1,4-Dichlorobenzene	ND	µg/L	10	SW 846 8260
1,2-Dichlorobenzene	ND	µg/L	10	SW 846 8260

TABLE 1

Summary of Groundwater Analytical Results (9/15/20)

Analytical Parameters	NYSDEC AWQS µg/L	MW-3 µg/L	MW-5 µg/L	Trip Blank µg/L
Total Arsenic	25	**83**	7	NA
Total Barium	1,000	374	143	NA
Trichloroethene	5	0.51	ND	ND
1,1-Dichloroethene	5	1.8	ND	ND
1,1-Dichloroethane	5	**19**	ND	ND
1,1,1-Trichloroethane	5	4.1	ND	ND

Note: Only detected analytes are shown.
Boxed and bold analytical results exceed NYSDEC Ambient Water Quality Standards (AWQS).
ND = Not detected.
NA = Not analyzed.

Appendix C – Annual Site Evaluation

Site-Wide Inspection Form
(Annual and Emergency)

Honeywell, Inc.
Buffalo Research Laboratory
Buffalo, New York

SECTION I. GENERAL INFORMATION

Inspector Name and Title: Matt Kandefer, HSE Manager
Names of Others Present During Inspection: _____

Date of Inspection: 11/23/2020 Time of Inspection: 11:00 AM
Date of Last Inspection: _____
Weather: Partly cloudy, 40°F

SECTION II. INSTITUTIONAL & ENGINEERING CONTROLS

Complete a Cover Inspection Form (in fulfillment of either the quarterly/annual or emergency requirements). Attach the form to this one, and answer the following questions.

1. **Is the Site use consistent with Institutional Controls laid out in the Environmental Easement? These include relegation of the Site to industrial use, prohibition of groundwater use, and the prohibition of vegetable growing/farming, and annual certifications.**

   (Yes) No

2. **Do the Engineering Controls laid out in the Site Management Plan (SMP) continue to be in place and effective, as evidenced by continued and current Site cover and Groundwater Monitoring Programs, in accordance with the Site Monitoring Plan (Section 4.0 of the SMP) and Cover Repair Plan (Section 7.0 of the SMP)?**

   (Yes) No

3. **Has the Site gone without any non-routine management activities that are not already covered by an Excavation Work Plan?**

   (Yes) No

4. **Has the Site complied with all permit and reporting requirements since the completion of the last Site-wide Inspection?**

   (Yes) No

5. **Are all Site records up to date?**

   (Yes) No

SECTION III. IDENTIFICATION OF SITUATIONS REQUIRING ACTION

If you answered "No" to any questions in Section II, complete the following (place a check next to each item to verify completion):

_____1. Attach a detailed description of the reason(s) for which you answered "No" in Section II. Include photographs as appropriate.

_____2. Identify on an attached Site Plan the approximate location of the area(s) for which you answered "Yes" in Section II, if applicable.

_____ 3. Immediately notify and provide a copy of this form to the Honeywell HSE Manager or designee so that corrective action can be implemented in accordance with the Site Monitoring and Cover Repair Plans (Sections 4.0 and 7.0 of the Site Management Plan). Obtain HSE Manager or designee signature below.

SECTION IV. SIGNATURES

Required for each inspection:

Inspector	Date

If required by Section III:

HSE Manager	Date
or	
HSE Manager Designee	Date

Attachments (List): See annual soil cover inspection
See annual GW Monitoring report

Filing Requirements: Original to Inspection Form file
Copy to HSE Manager or designee
Copy to be included in Periodic Review Report

Honeywell

Buffalo Research Lab
20 Peabody Street
Buffalo, NY 14210

9/21/2020

Mr. Joshua Vaccaro
NYS Department of Environmental Conservation
270 Michigan Ave.
Buffalo, NY 14203-2915

RE: Site Management Plan Notification of Change in Contacts
NYSDEC Site Number 915002
Honeywell International
20 Peabody Street
Buffalo, NY 14210

Dear Mr. Vaccaro:

The site has had a change in facility personnel. The former Site Leader (Bob Sikorski) and former HSE Manager (Frank Collis) are no longer with Honeywell. Matthew Kandefer has been identified as the new HSE Manager for the Honeywell Buffalo Research Laboratory. I am the new Site Leader and our contact information is below.

Matthew Kandefer, HSE Manager
20 Peabody Street
Buffalo, NY 14210
716-827-1496 office
716-471-3158 mobile

Michelle Mattice, Site Leader
20 Peabody Street
Buffalo, NY 14210
716-290-7701 mobile

Sincerely,

Michelle Mattice

Michelle Mattice, Site Leader

Kandefer, Matt

From: Vaccaro, Joshua M (DEC) <Joshua.Vaccaro@dec.ny.gov>
Sent: Tuesday, September 29, 2020 7:32 AM
To: Kandefer, Matt; Radon, Stanley (DEC)
Cc: Mattice, Michelle; Lis, James
Subject: [External] RE: Site Management Plan Contacts Change

Thank you Matt, I have updated our site contacts for the site.

I look forward to working with you both,
-Josh

Joshua M. Vaccaro
Division of Environmental Remediation

New York State Department of Environmental Conservation
270 Michigan Ave. Buffalo, NY 14203
P: (716) 541-9657| F: (716) 851-7226
joshua.vaccaro@dec.ny.gov

From: Kandefer, Matt <Matthew.Kandefer@Honeywell.com>
Sent: Monday, September 28, 2020 8:21 AM
To: Vaccaro, Joshua M (DEC) <Joshua.Vaccaro@dec.ny.gov>; stanely.radon@dec.ny.gov
Cc: Mattice, Michelle <Michelle.Mattice@Honeywell.com>; Lis, James <James.Lis@Honeywell.com>
Subject: Site Management Plan Contacts Change

Dear Mr. Vaccaro,

The Honeywell Buffalo Research Laboratory (NYSDEC Site Number 915002) has recently gone through some management changes. Please see the attached notification for the site management plan.

Best Regards,

Matt

Matthew Kandefer
Health Safety & Environment Manager
Honeywell | PMT
C: (716) 471-3158
matthew.kandefer@honeywell.com

Appendix D - Site Soil Disturbance Events Documentation – Wall Support

Lis, James

From: Lis, James
Sent: Wednesday, July 29, 2020 9:42 AM
To: joshua.vaccaro@dec.ny.gov
Cc: Cantie, Thomas; Swayze, William D.
Subject: Honeywell / Buffalo Research Laboratory - Emergency excavation notice to NYSDEC / RCRA Corrective Action Consent Order

To:
Joshua Vaccaro
Division of Materials Management
NYSDEC, 270 Michigan Avenue, Buffalo, New York 14203

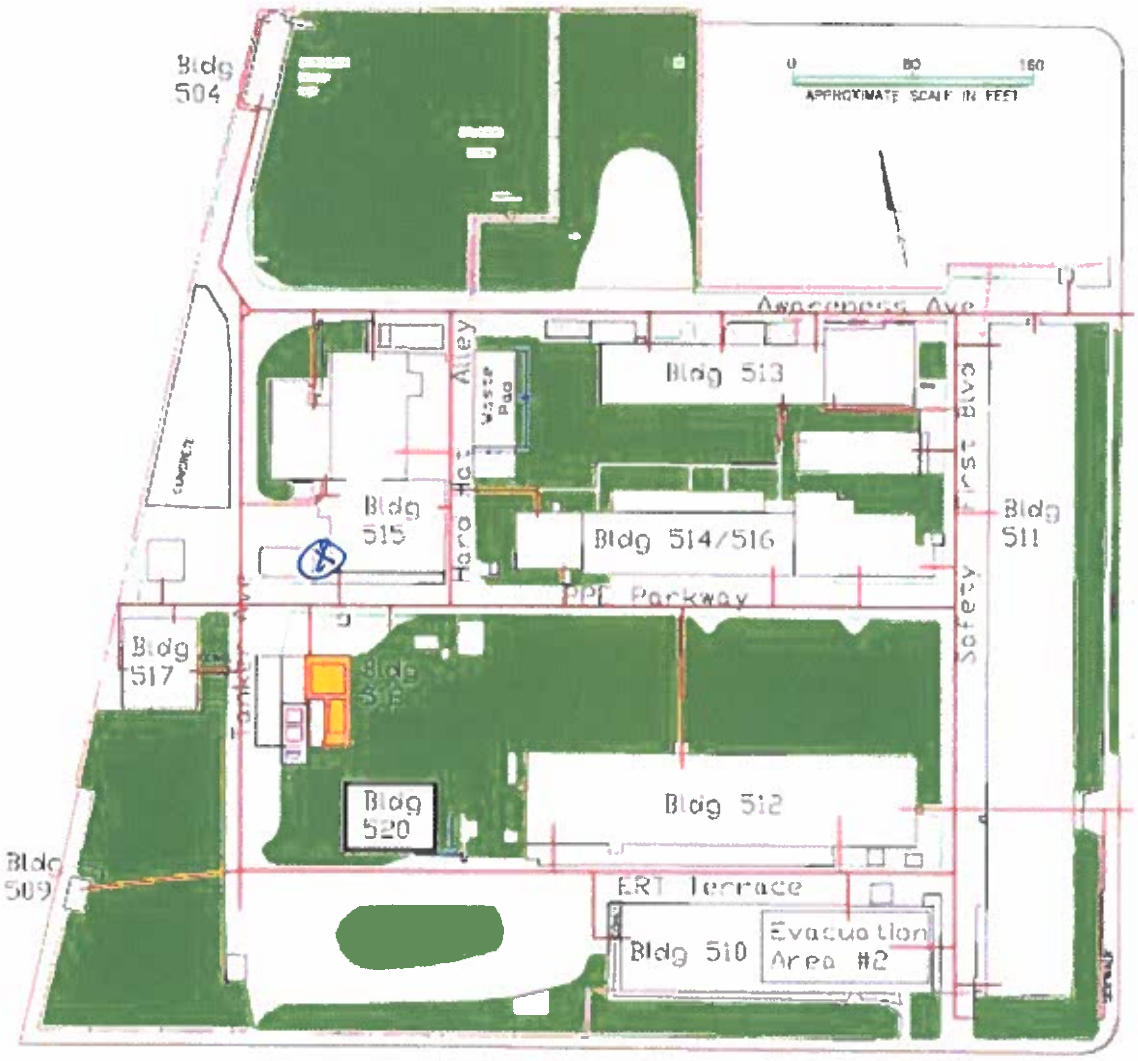
The purpose of this email is inform you of an emergency excavation that needs to be performed at our facility. Per the RCRA CA consent order, Honeywell will have to excavate approximately 4 cubic yards of soil and stone underneath an existing structure in order to add support for a new wall. All of the soil will be collected and stored on site on plastic tarps and protected from the elements with the same poly tarps. The soil will be sampled and analyzed by a third party laboratory to determine if there are any hazardous constituents per our above mentioned consent order.

If there are any question or concerns, please contact me at any time.

Thank you.

James J. Lis CHMM
Safety Engineer II
Honeywell Buffalo Research Laboratory
20 Peabody Street
Buffalo, NY 14210
Office: 716-827-1487
Mobile: 716-331-0487

Site Plan


Bldg 504
0 80 160
APPROXIMATE SCALE IN FEET
Aspenpoint Ave
Alley
Waste Pad
Bldg 513
Bldg 515
Hard Hat
Bldg 514/516
Bldg 511
PPE Parkway
Bldg 517
Bldg 518
Bldg 512
Bldg 520
Bldg 509
ERT Terrace
Bldg 510
Evacuation Area #2

Lis, James

From: Vaccaro, Joshua M (DEC) <Joshua.Vaccaro@dec.ny.gov>
Sent: Wednesday, July 29, 2020 9:50 AM
To: Lis, James
Subject: [External] RE: Honeywell / Buffalo Research Laboratory - Emergency excavation notice to NYSDEC / RCRA Corrective Action Consent Order

Thank you for the notification James.

-Josh

Joshua M. Vaccaro
Division of Environmental Remediation

New York State Department of Environmental Conservation
270 Michigan Ave. Buffalo, NY 14203
P: (716) 541-9657| F: (716) 851-7226
joshua.vaccaro@dec.ny.gov

From: Lis, James <James.Lis@Honeywell.com>
Sent: Wednesday, July 29, 2020 9:42 AM
To: Vaccaro, Joshua M (DEC) <Joshua.Vaccaro@dec.ny.gov>
Cc: Cantie, Thomas <Thomas.Cantie@Honeywell.com>; Swayze, William D. <william.swayze@honeywell.com>
Subject: Honeywell / Buffalo Research Laboratory - Emergency excavation notice to NYSDEC / RCRA Corrective Action Consent Order

To:
Joshua Vaccaro
Division of Materials Management
NYSDEC, 270 Michigan Avenue, Buffalo, New York 14203

The purpose of this email is inform you of an emergency excavation that needs to be performed at our facility. Per the RCRA CA consent order, Honeywell will have to excavate approximately 4 cubic yards of soil and stone underneath an existing structure in order to add support for a new wall. All of the soil will be collected and stored on site on plastic tarps and protected from the elements with the same poly tarps. The soil will be sampled and analyzed by a third party laboratory to determine if there are any hazardous constituents per our above mentioned consent order.

If there are any question or concerns, please contact me at any time.

Thank you.

James J. Lis CHMM
Safety Engineer II

Honeywell Buffalo Research Laboratory
20 Peabody Street
Buffalo, NY 14210
Office: 716-827-1487
Mobile: 716-331-0487

Honeywell

THE POWER OF CONNECTED

Soil underneath the area at the south west corner of the Pilot Plant, specifically under the first floor of the "G Room", was excavated on 07/29/20. Expansion of the footprint of the G room was determined to be necessary as to expand the size of the space to fit some specific equipment.

Due to the timeline of the project, the excavation was deemed an emergency and approximately 4 cubic yards of soil and rock was excavated to install the proper footer for the expansion of the room. Notification was made to the DEC and a contractor, Huber Construction, performed the work. Soil was removed and temporarily stored on site in the north parking area near the north entry gate. Soil was placed on poly sheeting and covered. Soil was sampled and analyzed by Alpha Analytical Services and was determined to be non-hazardous, regulated soil. Arrangements have been made to have this soil transported off site and disposed in the Waste Management, subtitle D landfill in Chaffee, NY.

11/23/20

Lis, James

From: James Lis <habsfan6371@yahoo.com>
Sent: Monday, November 23, 2020 9:50 AM
To: Lis, James
Subject: [External] Soil


BODY BUILDERS
79929 MH

Sent from my iPhone

Lis, James

From: James Lis <habsfan6371@yahoo.com>
Sent: Monday, November 23, 2020 10:02 AM
To: Lis, James
Subject: [External] Soil

Sent from my iPhone

VEOLIA
ENVIRONMENTAL SERVICES

(1)

SHIPPING DOCUMENT	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Shipping Document Tracking Number
	NYD000632315	1	(877) 818-0087	ZZ 00450658

GENERATOR

5. Generator's Name and Mailing Address: JIM LIS
HONEYWELL INTERNATIONAL, INC.
20 PEABODY STREET
BUFFALO, NY 14210
Generator's Phone: 716 827-6318

Generator's Site Address (if different than mailing address): SAME

9A-826

6. Transporter 1 Company Name: PINTO CONSTRUCTION SERVICES
U.S. EPA ID Number: NONEREQD2197

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WM OF NEW YORK, LLC
10860 OLEAN ROAD
CHAFFEE, NY 14030-9799
Facility's Phone: 716 492-3420
U.S. EPA ID Number: NOT REQ 095

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Codes
	1. NON-REGULATED MATERIAL PER 40 & 49 CFR. (NON HAZ EXCAVATED SOIL, FOR LANDFILL) **(EXCAVATED SOIL - JIM LIS)	1	DT	4	Y	NONE L
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information: *(VEOLIA ES NYS TRANS PERMIT#NJ-410); **(VES-TON;NY2); *(NEED C.O.D'S). **(EMERGENCY RESPONSE#1-877-818-0087; CONTRACTED BY VESTS); -|- Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters -|- 1) W:327213 A:CIN327213 VES1;H132

15. GENERATOR S/OFFEROR S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

X

Generator's/Offeror's Printed/Typed Name: JAMES LIS
Signature:
Month: 12 Day: 1 Year: 20

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

X

17. Transporter Acknowledgment of Receipt of Shipment
Transporter 1 Printed/Typed Name: Sharmon M. Abdallah
Signature:
Month: 12 Day: 1 Year: 20

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy
18a Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Shipping Document Tracking Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Report Management Method Codes (i.e. codes for treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of shipment except as noted in Item 18a

Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY TO GENERATOR

ANALYTICAL REPORT

Lab Number:	L2040198
Client:	Honeywell 20 Peobody Street Buffalo, NY 14120
ATTN:	James Lis
Phone:	(716) 827-6318
Project Name:	COMP EXCAVATED SOIL SAMPLES
Project Number:	Not Specified
Report Date:	10/05/20

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: COMP EXCAVATED SOIL SAMPLES
Project Number: Not Specified

Lab Number: L2040198
Report Date: 10/05/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2040198-01	SOIL PILE COMP	SOIL	BUFFALO, NY	09/24/20 08:25	09/24/20

Project Name:	COMP EXCAVATED SOIL SAMPLES	**Lab Number:**	L2040198
Project Number:	Not Specified	**Report Date:**	10/05/20

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	COMP EXCAVATED SOIL SAMPLES	**Lab Number:**	L2040198
Project Number:	Not Specified	**Report Date:**	10/05/20

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Caitlin Walukevich

Title: Technical Director/Representative Date: 10/05/20

ORGANICS

VOLATILES

Project Name: COMP EXCAVATED SOIL SAMPLES
Lab Number: L2040198
Project Number: Not Specified
Report Date: 10/05/20

SAMPLE RESULTS

Lab ID: L2040198-01
Client ID: SOIL PILE COMP
Sample Location: BUFFALO, NY

Date Collected: 09/24/20 08:25
Date Received: 09/24/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/02/20 14:23
Analyst: MKS
Percent Solids: 92%
TCLP/SPLP Ext. Date: 10/01/20 12:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	ND		ug/l	7.5	2.2	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	90		70-130
dibromofluoromethane	121		70-130

Project Name: COMP EXCAVATED SOIL SAMPLES **Lab Number:** L2040198

Project Number: Not Specified **Report Date:** 10/05/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/02/20 10:19
Analyst: NLK
TCLP/SPLP Extraction Date: 10/01/20 12:56

Extraction Date: 10/01/20 12:56

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Volatiles by EPA 1311 - Westborough Lab for sample(s): 01 Batch: WG1417970-5					
Chloroform	ND		ug/l	7.5	2.2
Carbon tetrachloride	ND		ug/l	5.0	1.3
Tetrachloroethene	ND		ug/l	5.0	1.8
Chlorobenzene	ND		ug/l	5.0	1.8
1,2-Dichloroethane	ND		ug/l	5.0	1.3
Benzene	ND		ug/l	5.0	1.6
Vinyl chloride	ND		ug/l	10	0.71
1,1-Dichloroethene	ND		ug/l	5.0	1.7
Trichloroethene	ND		ug/l	5.0	1.8
1,4-Dichlorobenzene	ND		ug/l	25	1.9
2-Butanone	ND		ug/l	50	19.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	91		70-130
dibromofluoromethane	112		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: COMP EXCAVATED SOIL SAMPLES
Project Number: Not Specified

Lab Number: L2040198
Report Date: 10/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Volatiles by EPA 1311 - Westborough Lab Associated sample(s): 01 Batch: WG1417970-3 WG1417970-4								
Chloroform	99		100		70-130	1		20
Carbon tetrachloride	93		91		63-132	2		20
Tetrachloroethene	86		88		70-130	2		20
Chlorobenzene	87		88		75-130	1		25
1,2-Dichloroethane	91		90		70-130	1		20
Benzene	95		94		70-130	1		25
Vinyl chloride	82		79		55-140	4		20
1,1-Dichloroethene	130		120		61-145	8		25
Trichloroethene	95		97		70-130	2		25
1,4-Dichlorobenzene	90		89		70-130	1		20
2-Butanone	99		98		63-138	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		97		70-130
Toluene-d8	92		92		70-130
4-Bromofluorobenzene	87		90		70-130
dibromofluoromethane	109		107		70-130

METALS

Project Name: COMP EXCAVATED SOIL SAMPLES
Project Number: Not Specified

Lab Number: L2040198
Report Date: 10/05/20

SAMPLE RESULTS

Lab ID: L2040198-01
Client ID: SOIL PILE COMP
Sample Location: BUFFALO, NY

Date Collected: 09/24/20 08:25
Date Received: 09/24/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 92%

TCLP/SPLP Ext. Date: 09/25/20 22:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	0.219	J	mg/l	1.00	0.019	1	09/29/20 09:07	09/30/20 21:57	EPA 3015	1,6010D	BV
Barium, TCLP	0.573		mg/l	0.500	0.021	1	09/29/20 09:07	09/30/20 21:57	EPA 3015	1,6010D	BV
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	09/29/20 09:07	09/30/20 21:57	EPA 3015	1,6010D	BV
Chromium, TCLP	ND		mg/l	0.200	0.021	1	09/29/20 09:07	09/30/20 21:57	EPA 3015	1,6010D	BV
Lead, TCLP	ND		mg/l	0.500	0.027	1	09/29/20 09:07	09/30/20 21:57	EPA 3015	1,6010D	BV
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	09/29/20 09:17	09/29/20 18:05	EPA 7470A	1,7470A	AL
Selenium, TCLP	ND		mg/l	0.500	0.035	1	09/29/20 09:07	09/30/20 21:57	EPA 3015	1,6010D	BV
Silver, TCLP	ND		mg/l	0.100	0.028	1	09/29/20 09:07	09/30/20 21:57	EPA 3015	1,6010D	BV

Project Name: COMP EXCAVATED SOIL SAMPLES
Project Number: Not Specified
Lab Number: L2040198
Report Date: 10/05/20

SAMPLE RESULTS

Lab ID: L2040198-01
Client ID: SOIL PILE COMP
Sample Location: BUFFALO, NY
Date Collected: 09/24/20 08:25
Date Received: 09/24/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	306		mg/kg	0.425	0.088	1	09/30/20 06:00	10/01/20 18:30	EPA 3050B	1,6010D	BV

Project Name: COMP EXCAVATED SOIL SAMPLES **Lab Number:** L2040198

Project Number: Not Specified **Report Date:** 10/05/20

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1415584-1										
Arsenic, Total	ND		mg/kg	0.400	0.083	1	09/30/20 06:00	09/30/20 14:24	1,6010D	BV

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01 Batch: WG1415594-1										
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	09/29/20 09:07	09/30/20 13:34	1,6010D	GD
Barium, TCLP	ND		mg/l	0.500	0.021	1	09/29/20 09:07	09/30/20 13:34	1,6010D	GD
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	09/29/20 09:07	09/30/20 13:34	1,6010D	GD
Chromium, TCLP	ND		mg/l	0.200	0.021	1	09/29/20 09:07	09/30/20 13:34	1,6010D	GD
Lead, TCLP	0.147	J	mg/l	0.500	0.027	1	09/29/20 09:07	09/30/20 13:34	1,6010D	GD
Selenium, TCLP	ND		mg/l	0.500	0.035	1	09/29/20 09:07	09/30/20 13:34	1,6010D	GD
Silver, TCLP	ND		mg/l	0.100	0.028	1	09/29/20 09:07	09/30/20 13:34	1,6010D	GD

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 09/24/20 05:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01 Batch: WG1415595-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	09/29/20 09:17	09/29/20 17:54	1,7470A	AL

Prep Information

Digestion Method: EPA 7470A

TCLP/SPLP Extraction Date: 09/24/20 05:43

Lab Control Sample Analysis

Batch Quality Control

Project Name: COMP EXCAVATED SOIL SAMPLES
Project Number: Not Specified

Lab Number: L2040198
Report Date: 10/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1415584-2 SRM Lot Number: D109-540								
Arsenic, Total	84		-		70-130	-		
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 Batch: WG1415594-2								
Arsenic, TCLP	103		-		75-125	-		20
Barium, TCLP	100		-		75-125	-		20
Cadmium, TCLP	104		-		75-125	-		20
Chromium, TCLP	96		-		75-125	-		20
Lead, TCLP	102		-		75-125	-		20
Selenium, TCLP	107		-		75-125	-		20
Silver, TCLP	100		-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 Batch: WG1415595-2								
Mercury, TCLP	109		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: COMP EXCAVATED SOIL SAMPLES
Project Number: Not Specified

Lab Number: L2040198
Report Date: 10/05/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1415584-3 QC Sample: L2040178-01 Client ID: MS Sample												
Arsenic, Total	1.27	10.6	9.62	78		-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1415594-3 QC Sample: L2040271-01 Client ID: MS Sample												
Arsenic, TCLP	ND	1.2	1.22	102		-	-		75-125	-		20
Barium, TCLP	0.843	20	20.9	100		-	-		75-125	-		20
Cadmium, TCLP	ND	0.51	0.523	102		-	-		75-125	-		20
Chromium, TCLP	ND	2	1.90	95		-	-		75-125	-		20
Lead, TCLP	ND	5.1	4.98	98		-	-		75-125	-		20
Selenium, TCLP	ND	1.2	1.26	105		-	-		75-125	-		20
Silver, TCLP	ND	0.5	0.494	99		-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1415595-3 QC Sample: L2040271-01 Client ID: MS Sample												
Mercury, TCLP	ND	0.025	0.0276	110		-	-		80-120	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: COMP EXCAVATED SOIL SAMPLES
Project Number: Not Specified

Lab Number: L2040198
Report Date: 10/05/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1415584-4 QC Sample: L2040178-01 Client ID: DUP Sample						
Arsenic, Total	1.27	1.37	mg/kg	8		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1415594-4 QC Sample: L2040271-01 Client ID: DUP Sample						
Arsenic, TCLP	ND	ND	mg/l	NC		20
Barium, TCLP	0.843	0.840	mg/l	0		20
Cadmium, TCLP	ND	ND	mg/l	NC		20
Chromium, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	ND	ND	mg/l	NC		20
Selenium, TCLP	ND	ND	mg/l	NC		20
Silver, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1415595-4 QC Sample: L2040271-01 Client ID: DUP Sample						
Mercury, TCLP	ND	ND	mg/l	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: COMP EXCAVATED SOIL SAMPLES
Project Number: Not Specified
Lab Number: L2040198
Report Date: 10/05/20

SAMPLE RESULTS

Lab ID: L2040198-01
Client ID: SOIL PILE COMP
Sample Location: BUFFALO, NY
Sample Depth:
Matrix: Soil

Date Collected: 09/24/20 08:25
Date Received: 09/24/20
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.3		%	0.100	NA	1	-	09/25/20 12:33	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: COMP EXCAVATED SOIL SAMPLES
Project Number: Not Specified

Lab Number: L2040198
Report Date: 10/05/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1414459-1 QC Sample: L2040203-01 Client ID: DUP Sample						
Solids, Total	91.6	87.7	%	4		20

Project Name: COMP EXCAVATED SOIL SAMPLES
Project Number: Not Specified

Lab Number: L2040198
Report Date: 10/05/20

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	*Custody Seal*
A	Absent

Container Information

Container ID	*Container Type*	*Cooler*	*Initial pH*	*Final pH*	*Temp deg C*	*Pres*	*Seal*	*Frozen Date/Time*	*Analysis(*)*
L2040198-01A	Plastic 2oz unpreserved for TS	A	NA		6.0	Y	Absent		TS(7)
L2040198-01B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		6.0	Y	Absent		AS-TI(180)
L2040198-01C	Vial Large Septa unpreserved (4oz)	A	NA		6.0	Y	Absent		TCLP-EXT-ZHE(14)
L2040198-01D	Glass 250ml/8oz unpreserved	A	NA		6.0	Y	Absent		-
L2040198-01X	Plastic 120ml HNO3 preserved Extracts	A	NA		6.0	Y	Absent		CD-CI(180),BA-CI(180),AS-CI(180),HG-C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG-CI(180)
L2040198-01Y	Vial unpreserved Extracts	A	NA		6.0	Y	Absent		TCLP-VOA(14)
L2040198-01Z	Vial unpreserved Extracts	A	NA		6.0	Y	Absent		TCLP-VOA(14)

*Values in parentheses indicate holding time in days

Project Name:	COMP EXCAVATED SOIL SAMPLES	**Lab Number:**	L2040198
Project Number:	Not Specified	**Report Date:**	10/05/20

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values, although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	COMP EXCAVATED SOIL SAMPLES	**Lab Number:**	L2040198
Project Number:	Not Specified	**Report Date:**	10/05/20

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: DU Report with 'J' Qualifiers

Project Name:	COMP EXCAVATED SOIL SAMPLES	**Lab Number:**	L2040198
Project Number:	Not Specified	**Report Date:**	10/05/20

Data Qualifiers

the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

Project Name:	COMP EXCAVATED SOIL SAMPLES	**Lab Number:**	L2040198
Project Number:	Not Specified	**Report Date:**	10/05/20

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
EPA TO-12 Non-methane organics
EPA 3C Fixed gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 9/25/20

ALPHA Job #: L2040196

Client Information
Client: Honeywell
Address: 20 Peabody Street
Buffalo, NY 14120
Phone: 716-827-6318
Fax: 716-827-6221
Email: James.Lis@honeywell.com

Project Information
Project Name: COMP Excavated Soil Sample
Project Location: Buffalo, NY
Project #
(Use Project name as Project #) ☐
Project Manager: James Lis
ALPHAQuote #:

Turn-Around Time
Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☑ Same as Client Info
PO # 4503167625

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

Sample Filtration
☐ Done
☑ Lab to do
Preservation
☑ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCLP VOAs	TCLP Metals	Total As	Total Solids	Sample Specific Comments	# of Bottles
L2040196-01	Soil Pile COMP	9/24/20	0825	Soil	JA	X	X	X	X		4

Container Type: G G G P
Preservative: A A A A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
JohnAAL	9/24/20 0900		9/25/20 0130

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Form No: 01-25 (rev. 30-Sept-2013)

Appendix E - Site Soil Disturbance Events Documentation – Fire Main Break

Kandefer, Matt

From: Vaccaro, Joshua M (DEC) <Joshua.Vaccaro@dec.ny.gov>
Sent: Monday, December 7, 2020 9:29 AM
To: Lis, James
Cc: Cantie, Thomas; Swayze, William D.; Kandefer, Matt; Radon, Stanley (DEC)
Subject: [External] Re: Honeywell / Buffalo Research Laboratory - Emergency excavation notice to NYSDEC / RCRA Corrective Action Consent Order

Good Morning James,

Thank you for the notification and for the monthly progress report that you submitted earlier. If anything comes up please feel free to give me a call at (716) 541-9657.

Thanks,
-Josh

Joshua M. Vaccaro
Division of Environmental Remediation

New York State Department of Environmental Conservation
270 Michigan Ave. Buffalo, NY 14203
P: (716) 541-9657| F: (716) 851-7226
joshua.vaccaro@dec.ny.gov

From: Lis, James <James.Lis@Honeywell.com>
Sent: Monday, December 7, 2020 8:59 AM
To: Vaccaro, Joshua M (DEC) <Joshua.Vaccaro@dec.ny.gov>
Cc: Cantie, Thomas <Thomas.Cantie@Honeywell.com>; Swayze, William D. <william.swayze@honeywell.com>; Kandefer, Matt <Matthew.Kandefer@Honeywell.com>
Subject: Honeywell / Buffalo Research Laboratory - Emergency excavation notice to NYSDEC / RCRA Corrective Action Consent Order

To:
Joshua Vaccaro
Division of Materials Management
NYSDEC, 270 Michigan Avenue, Buffalo, New York 14203

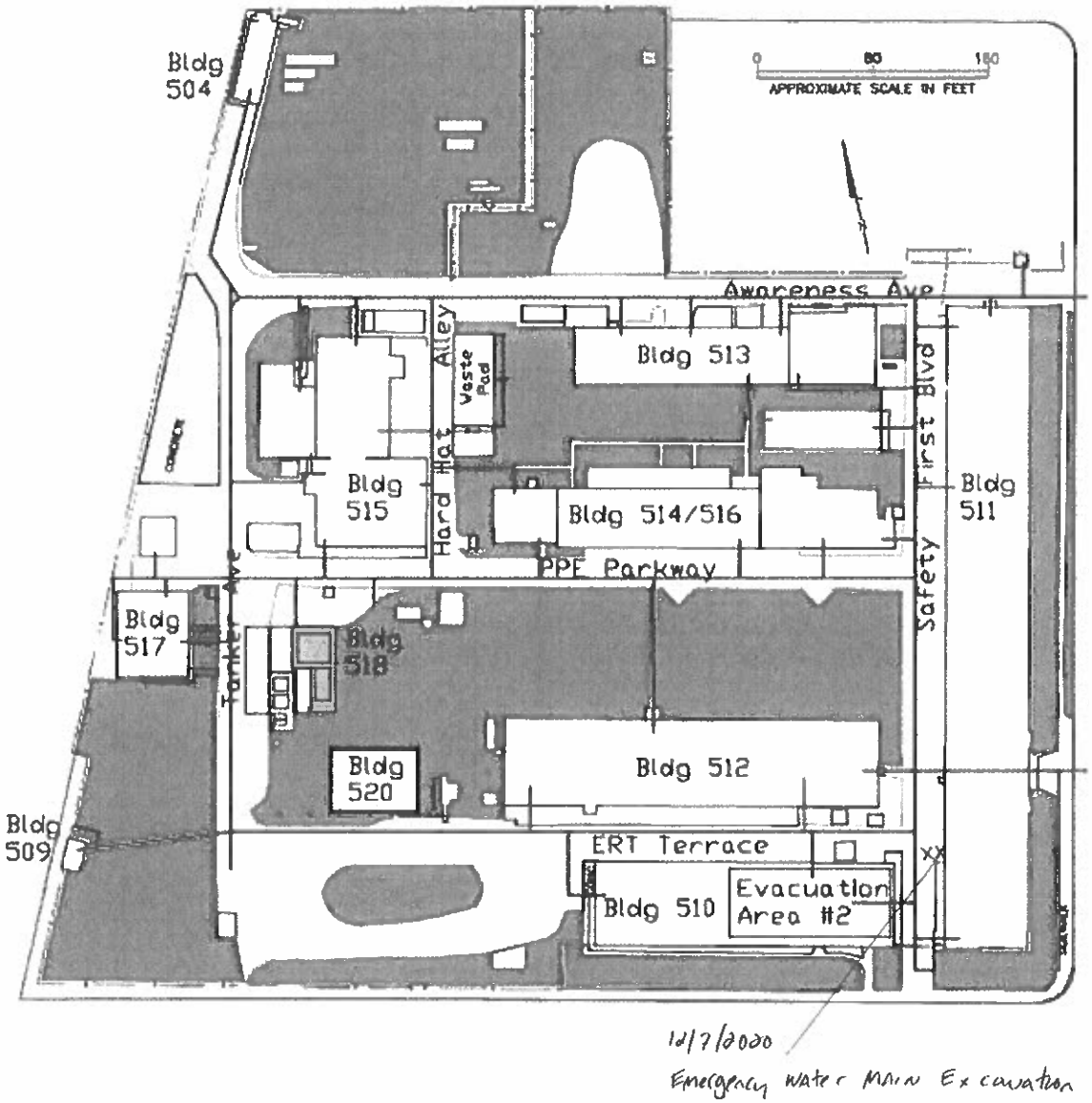
The purpose of this email is inform you of an emergency excavation that needs to be performed at our facility. Per the RCRA CA consent order, Honeywell will have to excavate an undetermined amount of soil and stone underneath a roadway to expose a water main leak for repairs (designated by the X in the attached picture). All of the soil will be collected and stored on site on plastic tarps and protected from the elements with the same poly tarps. The soil will be sampled and analyzed by a third party laboratory to determine if there are any hazardous constituents per our above mentioned consent order.

If there are any question or concerns, please contact me at any time.

Thank you.

James J. Lis CHMM
Safety Engineer II
Honeywell Buffalo Research Laboratory
20 Peabody Street
Buffalo, NY 14210
Office: 716-827-1487
Mobile: 716-331-0487

Site Plan


Bldg 504
0 80 160
APPROXIMATE SCALE IN FEET
Awareness Ave
Bldg 513
Hard Hat Alley
Waste Pad
First Blvd
Bldg 511
Bldg 515
Bldg 514/516
PPE Parkway
Safety
Bldg 517
Tanker Ave
Bldg 518
Bldg 520
Bldg 512
Bldg 509
ERT Terrace
Bldg 510
Evacuation Area #2
10/7/2020
Emergency water main Excavation

Kandefer, Matt

From: Kandefer, Matt
Sent: Wednesday, December 9, 2020 9:42 AM
To: joshua.vaccaro@dec.ny.gov
Subject: Water Main Break

Good Morning,

The water main break was fixed on 12/7/2020 at around 8 pm. The excavation was backfilled and compacted with stone and asphalt or cold patch will be applied, as weather permits, this week.

Best Regards,

Matthew Kandefer
Health Safety & Environment Manager
Honeywell | PMT
C: (716) 471-3158
matthew.kandefer@honeywell.com


#2


STOP


WATER
STOP
BUILDING
AIR INTAKE
KEEP
VEHICLES
CLEAR
NO PARKING

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
EPA TO-12 Non-methane organics
EPA 3C Fixed gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 1/7/21

ALPHA Job #: L2100380

Client Information
Client: Honeywell
Address: 20 Peabody Street
Buffalo, NY 14120
Phone: 716-827-6318
Fax: 716-827-6221
Email: James.Lis@honeywell.com

Project Information
Project Name: COMP Excavated Soil Sample
Project Location: Buffalo, NY
Project #
(Use Project name as Project #) ☐
Project Manager: James Lis
ALPHAQuote #:

Turn-Around Time
Standard ☐ Due Date:
Rush (only if pre approved) ☑ # of Days: 3 Day

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☑ Same as Client Info
PO # 4503167625

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☑ Lab to do
Preservation
☑ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCLP VOAs	TCLP Metals	Total As	Total Solids					Sample Specific Comments	Total # Bottles
00380 -21	Soil Pile COMP	1/6/2021	845	Soil	ZJR	X	X	X	X						4

Container Type: G G G P
Preservative: A A A A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
BAL	1/6/21 0930		1/7/21 0015

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Form No: 01-25 (rev. 30-Sept-2013)