

Honeywell

Buffalo Research Laboratory (BRL)

Site Management Plan
Periodic Review Report

NYSDEC Site Number: 915002
EPA ID: NYD000632315

31 January 2019

Table Of Contents

Topic	Section No.
Certification of Engineering Controls and Institutional Controls	1
Results of Site Inspections	2
Results of Groundwater Monitoring	3
Site Evaluation	4
Site Management Report	5

Section 1

Certification of Engineering Controls and Institutional Controls

At BRL, the 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 and engineering 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, Frank Collis, of 20 Peabody Street, Buffalo, NY 14210, am certifying as Owner's Designated Site Representative for the Site."

Signature: _____



31 JAN 2019

Section 2

Results of Site Inspections

The 1Q2018 Soil Inspection was performed on 26 MAR 2018

The 2Q2018 Soil Inspection was performed on 26 JUN 2018

The 3Q2018 Soil Inspection was performed on 24 SEP 2018

The 4Q2018 Soil Inspection was performed on 19 DEC 2018

SOIL INSPECTION FORM
(QUARTERLY)

HONEYWELL, INC.
BUFFALO RESEARCH LABORATORY
BUFFALO, NEW YORK

SECTION I. GENERAL INFORMATION

Inspector Name and Title: FRANK COLLIS, HSE Manager
Names of Others Present During Inspection: —

Date of Inspection: 26 MAR 2018 Time of Inspection: 5:45 pm

Date of Last Inspection: 01 DEC 2017

Weather: SUNNY, COOL (40°F)

SECTION II. INSPECTION RESULTS

Walk through the entire facility and answer the following questions.

1. Are there any locations where work is being performed in accordance with the facility'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 facility's Excavation Work Plan, which cause direct exposure of surface soil?

Yes No

Some wear-and-tear from winter snow removal--to be fixed by landscaping contractor

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 facility'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 facility's Excavation Work, 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 facility'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 Supervisor of Safety, Health and Environmental Services (SSHES) or SSHES designee so that corrective action can be implemented in accordance with the Contingency Plan (Section 4.0 of the Soil Maintenance and Inspection Plan). Obtain SSHES or SSHES designee signature below.

SECTION IV. SIGNATURES

Required for each inspection:

 26 MAR 2018
Inspector Date

If required by Section III:

Supervisor of Safety, Health, and Environmental Services (SSHES) _____ Date _____

or

SSHES Designee _____ Date _____

Attachments (List): pictures taken during inspection

Filing Requirements: Original to Inspection Form file
Copy to Supervisor of Safety, Health, and Environmental Services


























NWS Forecast for: Buffalo NY

Issued by: National Weather Service Buffalo, NY

[Last Update:](#) 4:36 pm EDT Mar 26, 2018

Print

Tonight	Tuesday	Tuesday Night	Wednesday	Wednesday Night	Thursday	Thursday Night	Friday	Friday Night
	 20% → 90%	 100%	 50%	 30%	 60%	 70%	 40%	 30%
Low: 32 °F	High: 40 °F	Low: 40 °F	High: 47 °F	Low: 39 °F	High: 47 °F	Low: 35 °F	High: 47 °F	Low: 31 °F

Tonight: Increasing clouds, with a low around 32. South wind 8 to 13 mph.

Tuesday: Rain, mainly after 11am. High near 40. South wind 14 to 16 mph. Chance of precipitation is 90%. New precipitation amounts between a tenth and quarter of an inch possible.

Tuesday Night: Rain. Low around 40. South wind 7 to 15 mph. Chance of precipitation is 100%. New precipitation amounts between a quarter and half of an inch possible.

Wednesday: A chance of showers, mainly before 2pm. Cloudy, with a high near 47. Calm wind. Chance of precipitation is 50%. New precipitation amounts of less than a tenth of an inch possible.

Wednesday Night: A chance of showers between 7pm and 11pm. Cloudy, with a low around 39. Calm wind becoming west 5 to 7 mph after midnight. Chance of precipitation is 30%. New precipitation amounts of less than a tenth of an inch possible.

Thursday: Showers likely, mainly after noon. Cloudy, with a high near 47. Chance of precipitation is 60%. New precipitation amounts between a tenth and quarter of an inch possible.

Thursday Night: Showers likely. Cloudy, with a low around 35. Chance of precipitation is 70%.

Friday: A chance of showers. Mostly cloudy, with a high near 47. Chance of precipitation is 40%.

Friday Night: A chance of rain and snow showers. Mostly cloudy, with a low around 31. Chance of precipitation is 30%.

Saturday: A chance of rain and snow showers. Partly sunny, with a high near 44. Breezy. Chance of precipitation is 40%.

Saturday Night: A chance of rain and snow showers. Mostly cloudy, with a low around 29. Breezy. Chance of precipitation is 30%.

Sunday: A chance of showers. Partly sunny, with a high near 43. Chance of precipitation is 30%.

Sunday Night: A chance of rain and snow showers. Mostly cloudy, with a low around 30. Chance of precipitation is 40%.

Monday: A chance of showers. Partly sunny, with a high near 44. Chance of precipitation is 40%.

Buffalo NY

3/26/2018

7-Day Forecast for Latitude 42.86°N and Longitude 78.84°W (Elev. 571 ft) (Text-Only)

42.86°N 78.84°W (Elev. 571 ft)

Visit your local NWS office at: <http://www.weather.gov/buf>

SOIL INSPECTION FORM
(QUARTERLY)

HONEYWELL, INC.
BUFFALO RESEARCH LABORATORY
BUFFALO, NEW YORK

SECTION I. GENERAL INFORMATION

Inspector Name and Title: FRANK COLLIS HSE MANAGER
Names of Others Present During Inspection: _____

Date of Inspection: 26 JUN 2018 Time of Inspection: 5:00 PM
Date of Last Inspection: 26 MAR 2018
Weather: SUNNY, WARM (80's)

SECTION II. INSPECTION RESULTS

Walk through the entire facility and answer the following questions.

1. Are there any locations where work is being performed in accordance with the facility'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 facility'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 facility'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 facility's Excavation Work, 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 facility'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 Supervisor of Safety, Health and Environmental Services (SSHES) or SSHES designee so that corrective action can be implemented in accordance with the Contingency Plan (Section 4.0 of the Soil Maintenance and Inspection Plan). Obtain SSHES or SSHES designee signature below.

SECTION IV. SIGNATURES

Required for each inspection:

James P. Collins
Inspector

26 JUN 2018
Date

If required by Section III:

Supervisor of Safety, Health, and
Environmental Services (SSHES)

Date

or

SSHES Designee

Date

Attachments (List): pictures taken during inspection

Filing Requirements: Original to Inspection Form file
Copy to Supervisor of Safety, Health, and Environmental Services















Severe Storms and Heavy Rain Expected Today From Mid Mississippi Valley into Ohio/Tennessee Valleys and Southeast; Heat Wave Starts Wednesday in Midwest.

A wrapped-up area of low pressure over the Midwest will trigger Strong to Severe thunderstorms and locally heavy to excessive rain from the Mid MS Valley into the OH/TN Valleys today, including Chicago, Nashville and St. Louis. The most significant hazards will be dangerous winds, large hail and even a few tornadoes. High pressure will develop behind this system leading to a widespread Heat Wave. [Read More](#)

Hazardous Weather Conditions

- [Hazardous Weather Outlook](#)

[En Español](#) | [Share](#)










Current conditions at
Buffalo, Greater Buffalo International Airport (KBUF)
 Lat: 42.94°N Lon: 78.74°W Elev: 709ft.



Mostly Cloudy
81°F
 27°C

Humidity 35%
 Wind Speed Vrb1 6 mph
 Barometer 30.06 in (1017.8 mb)
 Dewpoint 51°F (11°C)
 Visibility 10.00 mi
 Heat Index 80°F (27°C)
 Last update 26 Jun 5:54 pm EDT

Extended Forecast for Buffalo NY

Tonight	Wednesday	Wednesday Night	Thursday	Thursday Night	Friday	Friday Night	Saturday	Saturday Night
								
Partly Cloudy then Showers Likely	Showers	Heavy Rain	Slight Chance Showers then Partly Sunny	Partly Cloudy	Sunny	Mostly Clear	Sunny	Mostly Clear
Low: 66 °F	High: 78 °F	Low: 66 °F	High: 76 °F	Low: 65 °F	High: 82 °F	Low: 69 °F	High: 88 °F	Low: 74 °F

Detailed Forecast

Tonight
 A chance of showers, then showers likely and possibly a thunderstorm after 5am. Increasing clouds, with a low around 66. Northeast wind 6 to 8 mph becoming south in the evening. Chance of precipitation is 60%. New rainfall amounts of less than a tenth of an inch, except higher amounts possible in thunderstorms.

Wednesday
 Showers and possibly a thunderstorm before 5pm, then showers likely. High near 78. South wind 11 to 14 mph. Chance of precipitation is 80%. New precipitation amounts between a quarter and half of an inch possible.

Wednesday Night
 Showers likely and possibly a thunderstorm before 11pm, then a chance of showers. Some of the storms could produce heavy rain. Cloudy, with a low around 66. South wind 7 to 11 mph. Chance of precipitation is 60%. New precipitation amounts between a quarter and half of an inch possible.

Thursday
 A slight chance of showers before 11am. Cloudy, then gradually becoming mostly sunny, with a high near 76. West wind 10 to 16 mph. Chance of precipitation is 20%.

Thursday Night
 Partly cloudy, with a low around 65. Southwest wind 6 to 13 mph.

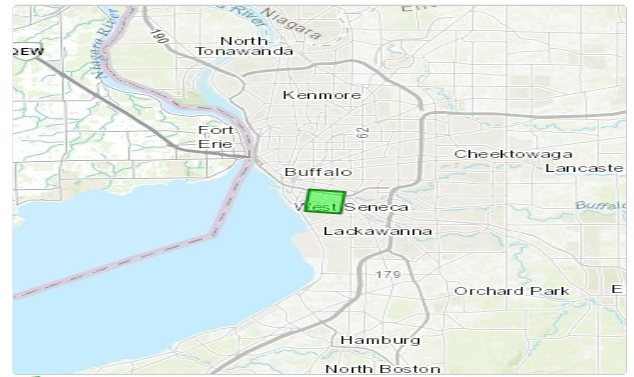
Friday
 Sunny, with a high near 82.

Friday Night
 Mostly clear, with a low around 69.

Saturday
 Sunny, with a high near 88.

Saturday Night
 Mostly clear, with a low around 74.

Sunday
 Sunny and hot, with a high near 92.



Point Forecast:
 Buffalo NY
 42.86°N 78.84°W (Elev. 571 ft)
Last Update:
 4:36 pm EDT Jun 26, 2018
Forecast Valid:
 6pm EDT Jun 26, 2018-6pm EDT Jul 3, 2018

Additional Resources

Radar & Satellite Image

6/22/2016

Sunday Night

Partly cloudy, with a low around 73.

Monday

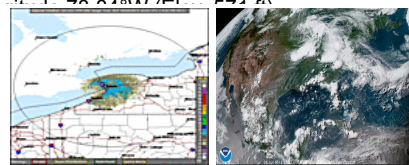
Scattered showers and thunderstorms. Partly sunny, with a high near 87. Chance of precipitation is 40%.

Monday Night

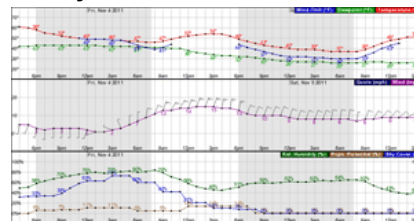
A chance of showers and thunderstorms. Mostly cloudy, with a low around 70. Chance of precipitation is 30%.

Tuesday

A chance of showers. Mostly sunny, with a high near 84. Chance of precipitation is 30%.



Hourly Weather Forecast



SOIL INSPECTION FORM
(QUARTERLY)

HONEYWELL, INC.
BUFFALO RESEARCH LABORATORY
BUFFALO, NEW YORK

SECTION I. GENERAL INFORMATION

Inspector Name and Title: FRANK COLLIS HSE MANAGER

Names of Others Present During Inspection: —

Date of Inspection: 24 SEP 2018 Time of Inspection: 4:00 PM

Date of Last Inspection: 26 JUN 2018

Weather: Partly cloudy, Temp 50's

SECTION II. INSPECTION RESULTS

Walk through the entire facility and answer the following questions.

1. Are there any locations where work is being performed in accordance with the facility'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 facility'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 facility'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 facility's Excavation Work, 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 facility'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 Supervisor of Safety, Health and Environmental Services (SSHES) or SSHES designee so that corrective action can be implemented in accordance with the Contingency Plan (Section 4.0 of the Soil Maintenance and Inspection Plan). Obtain SSHES or SSHES designee signature below.

SECTION IV. SIGNATURES

Required for each inspection:

Frank P. Collier
Inspector

24 SEP 2018
Date

If required by Section III:

Supervisor of Safety, Health, and
Environmental Services (SSHES)

Date

or

SSHES Designee

Date

Attachments (List): pictures taken during inspection

Filing Requirements: Original to Inspection Form file
Copy to Supervisor of Safety, Health, and Environmental Services



















SOIL INSPECTION FORM
(QUARTERLY)

HONEYWELL, INC.
BUFFALO RESEARCH LABORATORY
BUFFALO, NEW YORK

SECTION I. GENERAL INFORMATION

Inspector Name and Title: FRANK COLLIS HSE MGR
Names of Others Present During Inspection: —

Date of Inspection: 19 DEC 2018 Time of Inspection: 3:00 PM
Date of Last Inspection: 24 SEP 2018
Weather: partly cloudy, temp 20's F

SECTION II. INSPECTION RESULTS

Walk through the entire facility and answer the following questions.

1. Are there any locations where work is being performed in accordance with the facility'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 facility'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 facility'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 facility's Excavation Work, 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 facility's Excavation Work, which cause direct exposure of surface soil?

Yes No

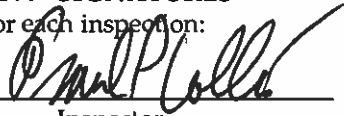
SECTION III. IDENTIFICATION OF LOCATIONS REQUIRING CONTINGENCY ACTION

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 Supervisor of Safety, Health and Environmental Services (SSHES) or SSHES designee so that corrective action can be implemented in accordance with the Contingency Plan (Section 4.0 of the Soil Maintenance and Inspection Plan). Obtain SSHES or SSHES designee signature below.

SECTION IV. SIGNATURES

Required for each inspection:


Inspector

19 DEC 2018
Date

If required by Section III:

Supervisor of Safety, Health, and
Environmental Services (SSHES)

Date

or

SSHES Designee

Date

Attachments (List): pictures from inspection

Filing Requirements: Original to Inspection Form file
Copy to Supervisor of Safety, Health, and Environmental Services

















Section 3

Results of Groundwater Monitoring

BRL's Annual Groundwater Monitoring was performed by Parsons Corporation.

A copy of Parsons' 12 AUG 2018 Report is attached.

August 12, 2018

Kathleen Emery
New York State Department of
Environmental Conservation, Region 9
270 Michigan Avenue
Buffalo, New York 14203

RE: Annual Groundwater Monitoring Report, Honeywell Buffalo Research Laboratory

Dear Ms. Emery:

Enclosed please find the 2018 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) (CRA, May 2013) for the facility. The annual groundwater monitoring event was conducted on June 26, 2018.

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. 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. The cap hinge was repaired and the protective casing was re-painted.
- 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 and was re-painted and labeled.
- 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 and in good condition.
- Water-tight well cap was secure.
- Surrounding asphalt was in good condition.
- Curb box was 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 and in good condition.
- 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. Protective casing was re-painted and labeled.
- J-plug well cap was secure.
- Concrete pad was in good condition.

MW-9, Flush-mounted Protective Casing

- Top of curb box and cover were sheared off (possibly from snow plowing). Repairs will be conducted prior to the 2019 monitoring event.
- 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. Hinge was repaired and well was re-painted and labeled.
- 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 new dedicated disposable high-density polyethylene (HDPE) bailers.

Prior to collecting groundwater samples, each well was purged of a minimum of three well volumes of groundwater. During purging, field parameters, including pH, temperature, specific conductivity, and turbidity, were measured. After purging and allowing the water in the well to return to static conditions, the groundwater samples were collected.

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). 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 (2018) 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

Three VOCs were identified in the groundwater sample from MW-3 (1,1,1-trichloroethane at 9.8 µg/L, 1,1-dichloroethene [1,1-DCE] at 4.1 µg/L, and 1,1-dichloroethane [1,1-DCA] at 40 µg/L. 1,1-DCA and 1,1,1-trichloroethane 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 (150 µg/L) and in MW-5 (122 µg/L). Total barium was below the AWQS in both wells. Turbidity of both samples was above 50 NTUs and therefore, soluble arsenic and barium were also analyzed. Soluble arsenic was below the detection limits in both MW-3 and MW-5. Soluble barium was below the AWQS in both wells.

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, 2018, 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 June 2018. Although 1,1,1-TCA was below the analytical detection limit in July 2014, it was detected again in 2015 (9.2 µg/L), 2016 (4.7 µg/L), 2017 (9.0 µg/L), and 2018 (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 six years. 1,1-DCE has occasionally been identified in MW-3, but is typically below

the analytical detection limits. Although 1,1-DCE has been detected for the last 7 years, it has been below the NYSDEC AWQS of 5 µg/L.

In summary, the analytical results from the current sampling event showed two VOCs (1,1-DCA and 1,1,1-TCA) above the AWQS in a single well (MW-3). Additionally, 1,1-DCE was 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 in 2017 or 2018.

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 occasionally exceeded the AWQS (25 µg/L) in the samples from MW-3 and MW-5. Total arsenic was above the AWQS in MW-3 and MW-5 during this sampling event. Total barium did not exceed the AWQS in either well during this sampling event, nor in the previous sampling events.

Soluble arsenic and soluble barium have been analyzed since 2001. 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, except for MW-3 in 2013 and 2016. Soluble arsenic and soluble barium were analyzed in 2018 due to the measured turbidity level above 50 NTUs. Soluble arsenic was below the analytical detection limits in MW-3 and MW-5. Soluble barium was detected in both wells at levels below the AWQS.

Groundwater Flow Direction

The water level measurements recorded on June 26, 2018 (see Table 3) are consistent with previous measurements. The groundwater elevation contour map (Figure 2) indicates that the groundwater flow direction is generally to the southeast across the Site, which is consistent with previously observed flow directions.

Recommendations/Conclusions

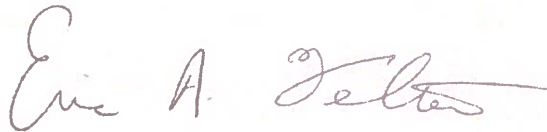
Based on the current sampling results, groundwater flow direction, and the following points, groundwater monitoring should continue on an annual schedule:

- The detected concentrations of two VOCs (1,1-DCA and 1,1,1-TCA) were low, although exceeding the AWQS in MW-3. One other VOC was detected (1,1-DCE) in MW-3, but was below the AWQS.
- As shown by the lack of VOCs in MW-5, VOCs observed in onsite wells (MW-3) will naturally attenuate prior to reaching the facility boundary.

- Total arsenic has been below the AWQS during five out of the last 17 sampling events in MW-3, and below the AWQS during 12 out of the last 17 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; and
- Total and soluble barium has been below the AWQS during the current event and all previous sampling events in MW-3 and MW-5.
- MW-9 will be repaired (new curb box installed) prior to the 2019 groundwater sampling event.

If you need additional information or would like to discuss the results of this Annual Groundwater Monitoring Report, please contact me at (716) 809-9140.

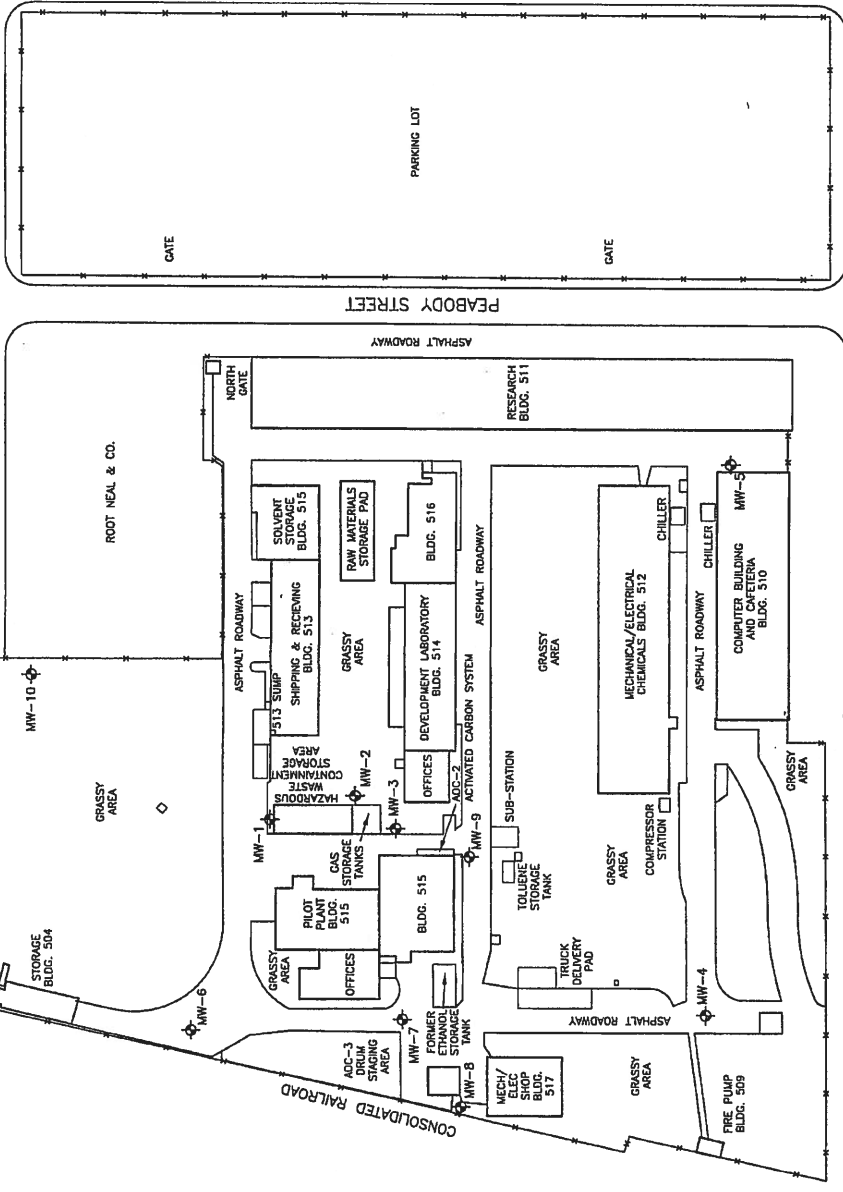
Sincerely,



Eric A. Felter
Project Manager



Robert Sikorski
Site Leader – Honeywell Buffalo Research
Laboratory



PERRY STREET

WALTER STREET

PEABODY STREET

ELK STREET

LEGEND

◆ MW-2 MONITORING WELL LOCATION

FIGURE 1
 SITE PLAN
 HONEYWELL SPECIALTY CHEMICALS
 BUFFALO, NEW YORK



PARSONS
 100 LAWRENCE BILL DING, SUITE 104, WILMANSVILLE, N.Y. 14221, PHONE 716-533-2074

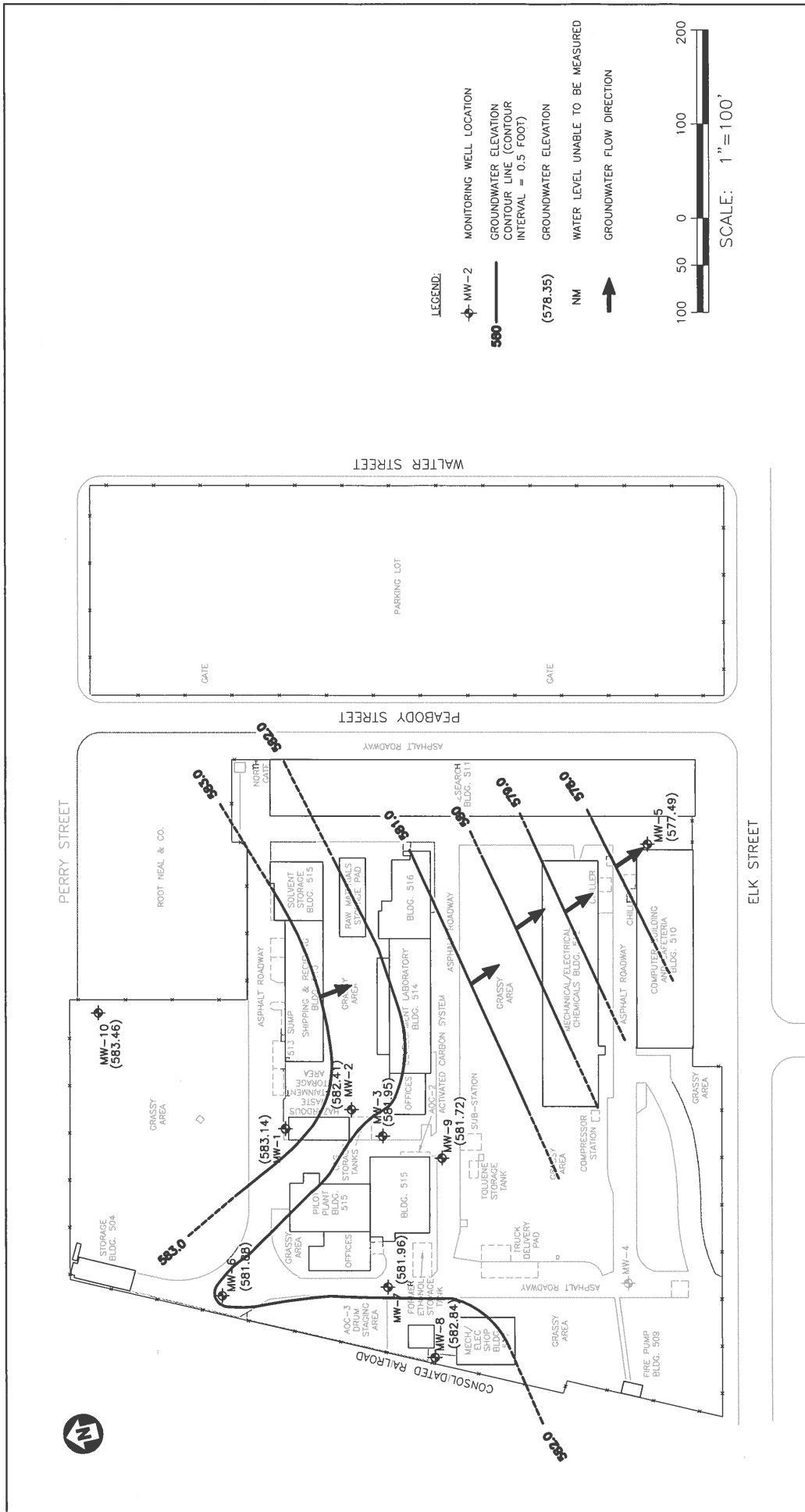


FIGURE 2
Honeywell SPECIALTY CHEMICALS
 BUFFALO, NEW YORK
GROUNDWATER ELEVATION CONTOUR
MAP (JUNE 26, 2018)
PARSONS
 40 LA RIVIERE DRIVE • SUITE 300 • BUFFALO, NY 14202 • 716/641-0230
 OFFICES IN PRINCIPAL CITIES

TABLE 1

Summary of Groundwater Analytical Results (6/26/18)

Analytical Parameters	NYSDEC AWQS µg/L	MW-3 µg/L	MW-5 µg/L	Trip Blank µg/L
Total Arsenic	25	150	122	NA
Soluble Arsenic	25	ND	ND	NA
Total Barium	1,000	246	254	NA
Soluble Barium	1,000	180	165	NA
1,1-Dichloroethene	5	4.1	ND	ND
1,1-Dichloroethane	5	40	ND	ND
1,1,1-Trichloroethane	5	9.8	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.

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
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
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
Soluble Barium	1,000	NA	NA	NA	NA	129	NA	NA	NA	NA	140	177	191	245	NA	NA	361
Acetone	50	12	-	11	6 J	NA	7	59	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	50	-	-	-	-	NA	-	6 J	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
Tetrachloroethene (PCE)	5	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	2.11 J	-
Trichloroethene (TCE)	5	-	-	-	-	-	-	-	-	<10	-	-	-	-	-	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
1,2-Dichloroethane	0.6	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	3	-	-	-	-	-	-	-	-	2.86	-	-	-	-	-	-	-
1,2-Dichloropropane	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	5	-	-	-	3 J	-	-	-	-	-	-	-	-	-	-	-	-
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 = Compound also identified in blank.

Table 2

**Honeywell Specialty Chemicals
Historical Analytical Results**

Compound	NYSDEC AWQS (ug/L)	MW-3 5/1/07	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-4 10/17/94	MW-4 1/18/95	MW-5 10/17/94	MW-5 1/18/95
Total Arsenic	25	39.0	34.0	13	58	20	36	145	44	90	176	54	150	-	5.6 B	-	-
Soluble Arsenic	25	-	13	NA	-	-	18	69	-	NA	43.7	15	-	NA	NA	NA	NA
Total Barium	1,000	394	361	206	147	313	204	289	203	455	446	215	246	183 B	243	71 B	74 B
Soluble Barium	1,000	324	360	NA	136	331	128	226	200	NA	508	244	180	NA	NA	NA	NA
Acetone	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-	NA	6	-	5	-
2-Butanone	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-	NA	-	-	-	-
Chloroform	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	5	12.3	11.2	17.7	8.22	7.3	11.4	5.9	-	9.2	4.7	9.0	9.8	-	-	-	-
Tetrachloroethene (PCE)	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	5	-	-	23.3	-	-	2.54	2.1	2.3	3.3	1.6	4.4	4.1	-	-	-	-
Methylene Chloride	5	-	-	-	-	-	-	-	-	-	-	-	-	8	-	12	-
1,1-Dichloroethane	5	17.1	17.1	-	12.1	10.6	21.1	8.5	19.2	29	28	38	40	-	-	-	-
1,2-Dichloroethane	0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	3	-	-	-	-	-	-	4.2	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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 = Compound also identified in blank.

Table 2

**Honeywell Specialty Chemicals
Historical Analytical Results**

Compound	NYSDEC AWQS (ug/L)	MW-5 8/23/99	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				
Total Arsenic	25	113	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	NA	6	J	14.0	J	8.18	J	9.1	NA	8.85	10	14	17	19	NA	19	-	-	-	-
Total Barium	1,000	170	100	80	80	95.1	83.8	70.2	63.8	214	63.9	94.9	92	56	56	61	50	61	56	70	70	61
Soluble Barium	1,000	NA	NA	80	80	76	70.2	63.8	63.8	214	63.9	94.9	92	56	56	61	50	61	56	70	70	61
Acetone	50	NA	NA	NA	NA	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	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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 = Compound also identified in blank.

Table 2

**Honeywell Specialty Chemicals
Historical Analytical Results**

Compound	NYSDEC AWQS (ug/L)	MW-5 9/8/15	MW-5 8/16/16	MW-5 8/1/17	MW-5 6/26/18	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	-	-	5.64 J	-	2.7 B	-	-	-	-	28.1	4 B	-	19.7 J
Soluble Arsenic	25	NA	-	-	-	NA	NA	7.34 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Barium	1,000	58	169	137	254	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	NA	108	124	165	NA	NA	69.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	50	NA	NA	-	NA	4	-	NA	9	-	6	-	27	18	NA	21	5 J	NA
2-Butanone	50	NA	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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 = Compound 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-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-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-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-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-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
MW-8	12/10/2001	587.94	5.35	582.59

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	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-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-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

ATTACHMENT A

Well Sampling Records

WELL SAMPLING RECORD

Site Name Honeywell Speciality Chemicals Well ID MW-3

Samplers Dan Chamberland

Total Well Depth (TOC) 18.70 feet
 Initial Static Water Level (TOC) 5.60 feet
 Well Diameter 2.0 inches

Purging Data

Method Disposable Bailer Date/Time 6/26/18 9:51

$$\begin{aligned} \text{Water Volume} &= (\text{Total Depth of Well} - \text{Depth To Water}) \times \text{Casing Volume per Foot} \\ &= \underline{18.70} - \underline{5.60} \times \underline{0.16} \\ &= \underline{2.10} \text{ gallons} \end{aligned}$$

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 6.8 gallons

Sampling Data

Method Disposable Bailer Date/Time 6/26/18 11:00

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

pH
 Temp. (C)
 Spec. Cond. (mS/cm)
 Turbidity (NTU)
 Volume (gal)
 Time

1 Volume	2 Volume	3 Volume	Sample
6.83	7.28	7.38	7.40
14.81	14.40	14.74	17.64
2.50	2.44	2.60	3.13
80.50	386.00	OR	348.00
2.20	4.5	6.7	6.8
9:51	9:57	10:06	11:00

Comments: Purge water clear at first but becomes progressively more turbid, sample is pretty clear.

WELL SAMPLING RECORD

Site Name Honeywell Speciality Chemicals Well ID MW-5

Samplers Dan Chamberland

Total Well Depth (TOC) 16.55 feet
 Initial Static Water Level (TOC) 5.87 feet
 Well Diameter 2.0 inches

Purging Data

Method Disposable Bailer Date/Time 6/26/18 10:29

Water Volume = (Total Depth of Well - Depth To Water) x Casing Volume per Foot
 = 15.68 - 5.98 x 0.16
1.552 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 5.3 gallons

Sampling Data

Method Disposable Bailer Date/Time 6/26/18 11:25

Parameters	Bottle	Pres.	Method
VOCs - TCL	3- 40mL vials	HCl	8260
Ar & Ba	1- 250mL Plastic Bottle	HNO ₃	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	7.58	7.72	7.56	7.51
Temp. (C)	17.00	16.70	17.12	17.98
Spec. Cond. (mS/cm)	10.30	10.30	10.20	10.40
Turbidity (NTU)	985.00	737.00	450.00	357.00
Volume (gal)	1.7	3.4	5.2	5.3
Time	10:29	10:33	10:41	11:25

Comments: Purge water very turbid, clearing up as I purge.

WELL INSPECTION FORM

Site Name Honeywell Specialty Chemicals Well ID MW-2

Personnel Daniel Chamberland

Total Well Depth (TOC) 18.85 feet

Initial Static Water Level (TOC) 4.91 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 NA

Date of Inspection 6/26/2018

Time of Inspection 12:30

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) 18.7 feet

Initial Static Water Level (TOC) 5.60 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 6/26/2018

Time of Inspection 11:00

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

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) 5.98 feet

Well Diameter 2.0 inches

Condition of Pro-Cover OK

Well Locked yes no

Condition of J-Plug Good

Concrete Pad Condition OK/None

Asphalt Condition OK

Date of Inspection 6/26/2018

Time of Inspection 11:25

Comments: No concrete, new pavement in area. Curb box painted green.

WELL INSPECTION FORM

Site Name Honeywell Specialty Chemicals Well ID MW-6

Personnel Dan Chamberland

Total Well Depth (TOC) 16.44 feet

Initial Static Water Level (TOC) 3.34 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 6/26/2018

Time of Inspection 12:35

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 feet

Initial Static Water Level (TOC) 3.46 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 6/26/2018

Time of Inspection 12:10

Comments: Flush-mount well. Soft bottom.

WELL INSPECTION FORM

Site Name Honeywell Specialty Chemicals Well ID MW-8

Personnel Dan Chamberland

Total Well Depth (TOC) 19 feet

Initial Static Water Level (TOC) 5.1 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 6/26/2018

Time of Inspection 11:55

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) 16.15 feet

Initial Static Water Level (TOC) 2.76 feet

Well Diameter 2.0 inches

Condition of Pro-Cover Damaged

Well Locked yes no

Condition of J-Plug Good

Concrete Pad Condition Damaged

Asphalt Condition OK

Date of Inspection 6/26/2018

Time of Inspection 12:00

Comments: Flush mount well. Soft bottom. Top of curb box has been sheared off.
The J-Plug is protected by a cone.

WELL INSPECTION FORM

Site Name Honeywell Specialty Chemicals Well ID MW-10

Personnel Daniel Chamberland

Total Well Depth (TOC) 17.84 feet

Initial Static Water Level (TOC) 4.39 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 6/26/2018

Time of Inspection 12:45

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

ATTACHMENT B

Groundwater Analytical Results

Sample ID: Monitoring Well 3**Sample Date: 06/26/18**

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limits	Method
Total Arsenic	0.150	mg/L	0.025	EPA 6010
Soluble Arsenic	ND	mg/L	0.025	EPA 6010
Total Barium	0.246	mg/L	0.010	EPA 6010
Soluble Barium	0.180	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	4.1	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	40	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	9.8	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
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: 06/26/18

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limits	Method
Total Arsenic	0.122	mg/L	0.025	EPA 6010
Soluble Arsenic	ND	mg/L	0.025	EPA 6010
Total Barium	0.254	mg/L	0.010	EPA 6010
Soluble Barium	0.165	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: 06/26/18

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



ANALYTICAL REPORT

Lab Number:	L1824199
Client:	Honeywell 20 Peobody Street Buffalo, NY 14120
ATTN:	Frank Collis
Phone:	(716) 827-6318
Project Name:	GROUNDWATER MONITORING
Project Number:	Not Specified
Report Date:	07/06/18

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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: GROUNDWATER MONITORING
Project Number: Not Specified

Lab Number: L1824199
Report Date: 07/06/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1824199-01	MW-3	WATER	BUFFALO, NY	06/26/18 11:00	06/26/18
L1824199-02	MW-5	WATER	BUFFALO, NY	06/26/18 11:25	06/26/18
L1824199-03	TRIP BLANK	WATER	BUFFALO, NY	06/26/18 00:00	06/26/18

Project Name: GROUNDWATER MONITORING
Project Number: Not Specified

Lab Number: L1824199
Report Date: 07/06/18

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. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated 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.

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 table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

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 Client Service Representative 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 Client Services at 800-624-9220 with any questions.

Project Name: GROUNDWATER MONITORING
Project Number: Not Specified

Lab Number: L1824199
Report Date: 07/06/18

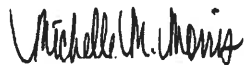
Case Narrative (continued)

Report Submission

Please note that this report format does not contain typical QC parameters that were performed with these samples. As such, any QC outliers or non-conformances can only be reviewed by accessing your Alpha Customer Center account at www.alphalab.com and building a Data Usability table (format 11) in our Data Merger tool.

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:



Michelle M. Morris

Title: Technical Director/Representative

Date: 07/06/18

VOLATILES

Project Name: GROUNDWATER MONITORING**Lab Number:** L1824199**Project Number:** Not Specified**Report Date:** 07/06/18**SAMPLE RESULTS**

Lab ID: L1824199-01
Client ID: MW-3
Sample Location: BUFFALO, NY

Date Collected: 06/26/18 11:00
Date Received: 06/26/18
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/02/18 22:58
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	--	1
1,1-Dichloroethane	40		ug/l	2.5	--	1
Chloroform	ND		ug/l	2.5	--	1
2-Chloroethylvinyl ether	ND		ug/l	10	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.5	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	2.5	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	9.8		ug/l	2.5	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	2.5	--	1
Ethylbenzene	ND		ug/l	2.5	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	2.5	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.5	--	1
1,1-Dichloroethene	4.1		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1

Project Name: GROUNDWATER MONITORING

Lab Number: L1824199

Project Number: Not Specified

Report Date: 07/06/18

SAMPLE RESULTS

Lab ID: L1824199-01
Client ID: MW-3
Sample Location: BUFFALO, NY

Date Collected: 06/26/18 11:00
Date Received: 06/26/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1
Bromochloromethane	ND		ug/l	2.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	104		70-130



Project Name: GROUNDWATER MONITORING**Lab Number:** L1824199**Project Number:** Not Specified**Report Date:** 07/06/18**SAMPLE RESULTS**

Lab ID: L1824199-02
Client ID: MW-5
Sample Location: BUFFALO, NY

Date Collected: 06/26/18 11:25
Date Received: 06/26/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/02/18 22:30
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	--	1
1,1-Dichloroethane	ND		ug/l	2.5	--	1
Chloroform	ND		ug/l	2.5	--	1
2-Chloroethylvinyl ether	ND		ug/l	10	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.5	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	2.5	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	2.5	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	2.5	--	1
Ethylbenzene	ND		ug/l	2.5	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	2.5	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.5	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1

Project Name: GROUNDWATER MONITORING

Lab Number: L1824199

Project Number: Not Specified

Report Date: 07/06/18

SAMPLE RESULTS

Lab ID: L1824199-02
 Client ID: MW-5
 Sample Location: BUFFALO, NY

Date Collected: 06/26/18 11:25
 Date Received: 06/26/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1
Bromochloromethane	ND		ug/l	2.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	104		70-130



Project Name: GROUNDWATER MONITORING

Lab Number: L1824199

Project Number: Not Specified

Report Date: 07/06/18

SAMPLE RESULTS

Lab ID: L1824199-03
 Client ID: TRIP BLANK
 Sample Location: BUFFALO, NY

Date Collected: 06/26/18 00:00
 Date Received: 06/26/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 07/02/18 22:02
 Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	--	1
1,1-Dichloroethane	ND		ug/l	2.5	--	1
Chloroform	ND		ug/l	2.5	--	1
2-Chloroethylvinyl ether	ND		ug/l	10	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.5	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	2.5	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	2.5	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	2.5	--	1
Ethylbenzene	ND		ug/l	2.5	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	2.5	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.5	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1

Project Name: GROUNDWATER MONITORING
Project Number: Not Specified

Lab Number: L1824199
Report Date: 07/06/18

SAMPLE RESULTS

Lab ID: L1824199-03
 Client ID: TRIP BLANK
 Sample Location: BUFFALO, NY

Date Collected: 06/26/18 00:00
 Date Received: 06/26/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1
Bromochloromethane	ND		ug/l	2.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	103		70-130



METALS

Project Name: GROUNDWATER MONITORING**Lab Number:** L1824199**Project Number:** Not Specified**Report Date:** 07/06/18**SAMPLE RESULTS**

Lab ID: L1824199-01

Date Collected: 06/26/18 11:00

Client ID: MW-3

Date Received: 06/26/18

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.150		mg/l	0.005	--	1	07/05/18 13:05	07/05/18 20:33	EPA 3005A	1,6010D	AB
Barium, Total	0.246		mg/l	0.010	--	1	07/05/18 13:05	07/05/18 17:37	EPA 3005A	1,6010D	AB
Dissolved Metals - Mansfield Lab											
Arsenic, Dissolved	ND		mg/l	0.005	--	1	07/03/18 14:45	07/05/18 07:40	EPA 3005A	1,6010D	PE
Barium, Dissolved	0.180		mg/l	0.010	--	1	07/03/18 14:45	07/05/18 07:40	EPA 3005A	1,6010D	PE



Project Name: GROUNDWATER MONITORING
Project Number: Not Specified

Lab Number: L1824199
Report Date: 07/06/18

SAMPLE RESULTS

Lab ID: L1824199-02
 Client ID: MW-5
 Sample Location: BUFFALO, NY

Date Collected: 06/26/18 11:25
 Date Received: 06/26/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.122		mg/l	0.005	--	1	07/05/18 13:05	07/05/18 20:38	EPA 3005A	1,6010D	AB
Barium, Total	0.254		mg/l	0.010	--	1	07/05/18 13:05	07/05/18 17:42	EPA 3005A	1,6010D	AB
Dissolved Metals - Mansfield Lab											
Arsenic, Dissolved	ND		mg/l	0.005	--	1	07/03/18 14:45	07/05/18 08:28	EPA 3005A	1,6010D	PE
Barium, Dissolved	0.165		mg/l	0.010	--	1	07/03/18 14:45	07/05/18 08:28	EPA 3005A	1,6010D	PE



INORGANICS & MISCELLANEOUS

Project Name: GROUNDWATER MONITORING
Project Number: Not Specified

Lab Number: L1824199
Report Date: 07/06/18

SAMPLE RESULTS

Lab ID: L1824199-01
Client ID: MW-3
Sample Location: BUFFALO, NY

Date Collected: 06/26/18 11:00
Date Received: 06/26/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Turbidity	250		NTU	1.6	--	8	-	06/27/18 06:53	121,2130B	UN



Project Name: GROUNDWATER MONITORING

Lab Number: L1824199

Project Number: Not Specified

Report Date: 07/06/18

SAMPLE RESULTS

Lab ID: L1824199-02
 Client ID: MW-5
 Sample Location: BUFFALO, NY

Date Collected: 06/26/18 11:25
 Date Received: 06/26/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Turbidity	280		NTU	1.6	--	8	-	06/27/18 06:53	121,2130B	UN



Serial_No:07061811:02
 Lab Number: L1824199
 Report Date: 07/06/18

Project Name: GROUNDWATER MONITORING
 Project Number: Not Specified

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information
 Cooler A Custody Seal Absent

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1824199-01A	Vial HCl preserved	A	NA	3.3	Y	Y	Absent		NYTCL-8260(14)
L1824199-01B	Vial HCl preserved	A	NA	3.3	Y	Y	Absent		NYTCL-8260(14)
L1824199-01C	Vial HCl preserved	A	NA	3.3	Y	Y	Absent		NYTCL-8260(14)
L1824199-01D	Plastic 250ml HNO3 preserved	A	<2	<2	Y	Y	Absent		AS-TI(180),BA-TI(180)
L1824199-01E	Plastic 250ml unpreserved	A	7	7	Y	Y	Absent		-
L1824199-01F	Plastic 250ml unpreserved	A	7	7	Y	Y	Absent		TURB-2130(2)
L1824199-01X	Plastic 120ml HNO3 preserved Filtrates	NA	NA		Y	Y	Absent		BA-SI(180),AS-SI(180)
L1824199-02A	Vial HCl preserved	A	NA	3.3	Y	Y	Absent		NYTCL-8260(14)
L1824199-02B	Vial HCl preserved	A	NA	3.3	Y	Y	Absent		NYTCL-8260(14)
L1824199-02C	Vial HCl preserved	A	NA	3.3	Y	Y	Absent		NYTCL-8260(14)
L1824199-02D	Plastic 250ml HNO3 preserved	A	<2	<2	Y	Y	Absent		AS-TI(180),BA-TI(180)
L1824199-02E	Plastic 250ml unpreserved	A	7	7	Y	Y	Absent		-
L1824199-02F	Plastic 250ml unpreserved	A	7	7	Y	Y	Absent		TURB-2130(2)
L1824199-02X	Plastic 120ml HNO3 preserved Filtrates	NA	NA		Y	Y	Absent		BA-SI(180),AS-SI(180)
L1824199-03A	Vial HCl preserved	A	NA	3.3	Y	Y	Absent		NYTCL-8260(14)
L1824199-03B	Vial HCl preserved	A	NA	3.3	Y	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days



Project Name: GROUNDWATER MONITORING
Project Number: Not Specified

Lab Number: L1824199
Report Date: 07/06/18

GLOSSARY

Acronyms

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).
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.
LCS D	- 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.
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.
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.
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.
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.

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.

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.

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 Condensation Product".
- 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

Report Format: DU Report - No QC



Project Name: GROUNDWATER MONITORING
Project Number: Not Specified

Lab Number: L1824199
Report Date: 07/06/18

Data Qualifiers

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.
- 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.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where 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.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Report Format: DU Report - No QC



Project Name: GROUNDWATER MONITORING
Project Number: Not Specified

Lab Number: L1824199
Report Date: 07/06/18

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 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: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; 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.
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, SM4500CI-D, SM2320B, SM2540C, SM4500H-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, **EPA 351.1, 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 624: Volatile Halocarbons & Aromatics,
EPA 608: 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: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, 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, Pb, Mn, Ni, Se, Ag, 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
 Mansfield, MA 02048
 8 Walkup Dr.
 TEL: 508-698-9220
 FAX: 508-698-9193

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: 6/27/18
 ALPHA Job #: L182199

Project Information
 Project Name: Groundwater Monitoring
 Project Location: Buffalo, NY
 Project #

Deliverables
 ASP-A
 EQUS (1 File)
 Other

Billing Information
 Same as Client Info
 PO #

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

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

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

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

ANALYSIS

Sample ID	Sample Matrix	Samplers' Initials	Collection		Date/Time	Date/Time	Received By:
			Date	Time			
2419101	MW-3	OPC	6/26/18	11:00	WW	6/26/18 13:05	MAH
100	MW-5	OPC	6/26/18	11:25	WW	6/26/18 14:00	MAH
103	Trip Blank	OPC	6/26/18		DI Water		

Sample Filtration
 Done
 Lab to do
 Lab to do
 (Please Specify below)
 Sample Specific Comments

Preservative Code
 P = None
 A = Amber Glass
 V = Vial
 G = Glass
 B = Bacteria Cup
 C = Cube
 O = Other
 E = Encore
 O = BOD Bottle

Container Code
 Westboro: Certification No: MA935
 Mansfield: Certification No: MA015

Container Type
 Preservative

Relinquished By:
 [Signature]

Received By:
 [Signature] MAH
 [Signature] MAH

Terms & Conditions:
 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 ALPHAS TERMS & CONDITIONS.

Section 4

Site Evaluation

- All engineering controls were deemed to be effective.
- There were no new conclusions or observations regarding Site contamination.
- There are no recommendations regarding any necessary change to the remedy or Site Monitoring Plan.
- The overall performance and effectiveness of the remedy is deemed to be adequate.

Section 5

Site Management Reports

Reports on the 2018 excavations are attached:

- Excavations - Sidewalk Repair (SEP 2018)
- Excavations - Perry St. Gate + Peabody St. Catch Basin (NOV 2018)
- Honeywell BRL, Soil Sampling Results (DEC 2018) (Alpha L1847664)
- Manifests, Soil to WM Chaffee Landfill (18 DEC 2018)
- SMP Monthly Reports submitted in 2018

Copies of BRL's SMP Monthly Progress Reports for 2018 are attached.

Collis, Frank

From: Collis, Frank
Sent: Tuesday, September 25, 2018 7:29 PM
To: 'Emery, Kathleen (DEC)'
Cc: Sikorski, Robert; Cantie, Thomas; Weinheimer, Bruce; Lis, James; Swayze, William D.
Subject: RE: [External] RE: Concrete sidewalk repair work at Honeywell / Buffalo Research Laboratory
Attachments: L1836573.pdf

Kate,
The excavation of soil associated with the sidewalk work at BRL is complete. Several pictures show the expanded sidewalks.





The excavated soil was staged on and covered with a 15-mil plastic tarp (as shown in the picture below).



Alpha Analytical sampled the excavated soil on 14 SEP 2018. Alpha's analytical report is attached. In addition to total Arsenic, TCLP metals and volatiles analyses were performed.

Excerpting from Alpha's analytical report:
 Total Arsenic is 10.2 mg/kg (ppm)

Serial_No:09251816:04											
Project Name:	COMP. SOIL SAMPLE (SIDEWALK)					Lab Number:	L1836573				
Project Number:	Not Specified					Report Date:	09/25/18				
SAMPLE RESULTS											
Lab ID:	L1836573-01					Date Collected:	09/14/18 11:30				
Client ID:	SOIL COMPOSITE					Date Received:	09/14/18				
Sample Location:	BUFFALO, NY					Field Prep:	Not Specified				
Sample Depth:											
Matrix:	Soil										
Percent Solids:	87%										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	10.2		mg/kg	0.458	--	1	09/24/18 15:23	09/24/18 23:41	EPA 3050B	1,6010D	AB

All TCLP Volatiles and Metals are NOT DETECTED.

Project Name: COMP. SOIL SAMPLE (SIDEWALK)

Lab Number: L1836573

Project Number: Not Specified

Report Date: 09/25/18

SAMPLE RESULTS

Lab ID: L1836573-01

Date Collected: 09/14/18 11:30

Client ID: SOIL COMPOSITE

Date Received: 09/14/18

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 09/19/18 08:49

Analyst: MM

Percent Solids: 87%

TCLP/SPLP Ext. Date: 09/17/18 13:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

TCLP Volatiles by EPA 1311 - Westborough Lab

Chloroform	ND		ug/l	7.5	--	10
Carbon tetrachloride	ND		ug/l	5.0	--	10
Tetrachloroethene	ND		ug/l	5.0	--	10
Chlorobenzene	ND		ug/l	5.0	--	10
1,2-Dichloroethane	ND		ug/l	5.0	--	10
Benzene	ND		ug/l	5.0	--	10
Vinyl chloride	ND		ug/l	10	--	10
1,1-Dichloroethene	ND		ug/l	5.0	--	10
Trichloroethene	ND		ug/l	5.0	--	10
1,4-Dichlorobenzene	ND		ug/l	25	--	10
2-Butanone	ND		ug/l	50	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	125		70-130
dibromofluoromethane	100		70-130

Project Name: COMP. SOIL SAMPLE (SIDEWALK)
Project Number: Not Specified

Lab Number: L1836573
Report Date: 09/25/18

SAMPLE RESULTS

Lab ID: L1836573-01
Client ID: SOIL COMPOSITE
Sample Location: BUFFALO, NY

Date Collected: 09/14/18 11:30
Date Received: 09/14/18
Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 09/16/18 22:29
Matrix: Soil
Percent Solids: 87%

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	ND		mg/l	1.00	--	1	09/18/18 08:47	09/18/18 16:33	EPA 3015	1,6010D	LC
Barium, TCLP	ND		mg/l	0.500	--	1	09/18/18 08:47	09/18/18 16:33	EPA 3015	1,6010D	LC
Cadmium, TCLP	ND		mg/l	0.100	--	1	09/18/18 08:47	09/18/18 16:33	EPA 3015	1,6010D	LC
Chromium, TCLP	ND		mg/l	0.200	--	1	09/18/18 08:47	09/18/18 16:33	EPA 3015	1,6010D	LC
Lead, TCLP	ND		mg/l	0.500	--	1	09/18/18 08:47	09/18/18 16:33	EPA 3015	1,6010D	LC
Mercury, TCLP	ND		mg/l	0.0010	--	1	09/18/18 16:20	09/18/18 21:10	EPA 7470A	1,7470A	EA
Selenium, TCLP	ND		mg/l	0.500	--	1	09/18/18 08:47	09/18/18 16:33	EPA 3015	1,6010D	LC
Silver, TCLP	ND		mg/l	0.100	--	1	09/18/18 08:47	09/18/18 16:33	EPA 3015	1,6010D	LC

Test results show the Arsenic concentration of the excavated soil is below any regulatory limit.

May Honeywell's contractor (Occhino Paving) remove and dispose of the excavated soil?

Regards,
Frank

Frank P. Collis
HSE Manager
Honeywell | Buffalo Research Laboratory | 20 Peabody St. | Buffalo, NY 14210
Office: 716-827-6325 | Cell: 716-957-9158
Email: frank.collis@honeywell.com

From: Emery, Kathleen (DEC) [mailto:kathleen.emery@dec.ny.gov]
Sent: Tuesday, September 4, 2018 2:20 PM
To: Collis, Frank <Frank.Collis@Honeywell.com>
Subject: [External] RE: Concrete sidewalk repair work at Honeywell / Buffalo Research Laboratory

Thank for the information Frank.

Reminder - I believe we corresponded about this last July after you supplied information on 7/28/18 about planned subsurface work....the soil to be included in 'pile' from which grab samples/composite sample is taken needs to include that soil found immediately below 'cover'(concrete, grass, etc) to 2ft below 'cover'. The 7/28/17 email indicated "...we have to sample the soil in a layer between 0.5 and 2.0 feet deep and analyze for total Arsenic..." but the SMP states (page A-5) that sampling horizons be not less than 0.5' thick and no more than 2'; the top .5' should not be

excluded from potentially being included in composite sample. Also, note that the composite sample should consist of grab samples collected at four locations (page A-7).

Thanks again.

-Kate

From: Collis, Frank [<mailto:Frank.Collis@Honeywell.com>]

Sent: Tuesday, September 04, 2018 1:07 PM

To: Emery, Kathleen (DEC) <kathleen.emery@dec.ny.gov>

Cc: Sikorski, Robert <Bob.Sikorski@Honeywell.com>; Cantie, Thomas <Thomas.Cantie@Honeywell.com>; Lis, James <James.Lis@Honeywell.com>; Swayze, William D. <william.swayze@honeywell.com>; Vinson, Michelle <michelle.vinson@veolia.com>; David D'Angelo <david.dangelo@veolia.com>

Subject: Concrete sidewalk repair work at Honeywell / Buffalo Research Laboratory

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Kate,
Buffalo Research Laboratory's (BRL's) Site Operations Department is having a contractor (Huber Construction) repair and widen the concrete sidewalks within BRL; the concrete at the BRL's main front entrance (Building 511) will also be repaired.

The concrete sidewalk areas are high-lighted in yellow in the picture below (ignore the perimeter outline, which is also high-lighted in a brighter shade of yellow).

An estimated 600 feet of sidewalk will be affected. The widening of the sidewalks will necessitate some excavation of soil adjacent to the existing sidewalks (an estimated 20-to-25 cubic yards of soil will be removed, to be backfilled with crushed rock and newly poured concrete).

The excavated soil (removed near the sidewalks for widening) will be staged either on a plastic tarp (10-mil or greater thickness) and covered, or placed in one or more roll-off containers. A composite soil sample will be obtained (by Alpha Analytical) and analyzed for Total Arsenic (for the purposes of BRL's Site Management Plan) and a complete TCLP analysis (which will be required the disposal facility -- most-likely Waste Management's Chafee Landfill)

Please let us know if you have any questions.

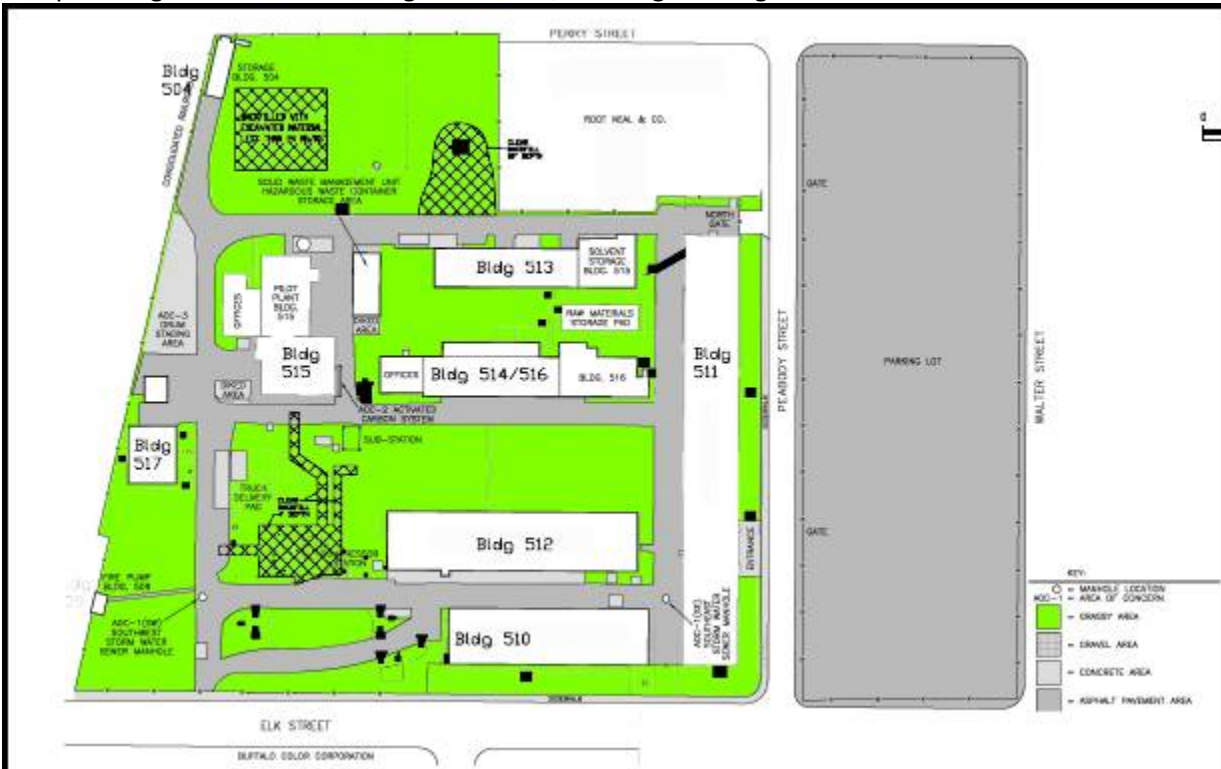
Thanks!

Regards,

Frank



Plot plan diagram from Site Management Plan, showing Building numbers:



Frank P. Collis
HSE Manager
Honeywell | Buffalo Research Laboratory | 20 Peabody St. | Buffalo, NY 14210
Office: 716-827-6325 | Cell: 716-957-9158
Email: frank.collis@honeywell.com



ANALYTICAL REPORT

Lab Number:	L1836573
Client:	Honeywell 20 Peobody Street Buffalo, NY 14120
ATTN:	Frank Collis
Phone:	(716) 827-6318
Project Name:	COMP. SOIL SAMPLE (SIDEWALK)
Project Number:	Not Specified
Report Date:	09/25/18

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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. SOIL SAMPLE (SIDEWALK)
Project Number: Not Specified

Lab Number: L1836573
Report Date: 09/25/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1836573-01	SOIL COMPOSITE	SOIL	BUFFALO, NY	09/14/18 11:30	09/14/18

Project Name: COMP. SOIL SAMPLE (SIDEWALK)
Project Number: Not Specified

Lab Number: L1836573
Report Date: 09/25/18

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. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated 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.

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 table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

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 Client Service Representative 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 Client Services at 800-624-9220 with any questions.

Project Name: COMP. SOIL SAMPLE (SIDEWALK)
Project Number: Not Specified

Lab Number: L1836573
Report Date: 09/25/18

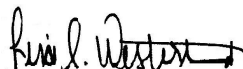
Case Narrative (continued)

Report Submission

Please note that this report format does not contain typical QC parameters that were performed with these samples. As such, any QC outliers or non-conformances can only be reviewed by accessing your Alpha Customer Center account at www.alphalab.com and building a Data Usability table (format 11) in our Data Merger tool.

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:



Lisa Westerlind

Title: Technical Director/Representative

Date: 09/25/18

VOLATILES

Project Name: COMP. SOIL SAMPLE (SIDEWALK)**Lab Number:** L1836573**Project Number:** Not Specified**Report Date:** 09/25/18**SAMPLE RESULTS**

Lab ID: L1836573-01
 Client ID: SOIL COMPOSITE
 Sample Location: BUFFALO, NY

Date Collected: 09/14/18 11:30
 Date Received: 09/14/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/19/18 08:49
 Analyst: MM
 Percent Solids: 87%
 TCLP/SPLP Ext. Date: 09/17/18 13:44

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	125		70-130
dibromofluoromethane	100		70-130

METALS

Project Name: COMP. SOIL SAMPLE (SIDEWALK)**Lab Number:** L1836573**Project Number:** Not Specified**Report Date:** 09/25/18**SAMPLE RESULTS**

Lab ID: L1836573-01

Date Collected: 09/14/18 11:30

Client ID: SOIL COMPOSITE

Date Received: 09/14/18

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 09/16/18 22:29

Matrix: Soil

Percent Solids: 87%

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	ND		mg/l	1.00	--	1	09/18/18 08:47	09/18/18 16:33	EPA 3015	1,6010D	LC
Barium, TCLP	ND		mg/l	0.500	--	1	09/18/18 08:47	09/18/18 16:33	EPA 3015	1,6010D	LC
Cadmium, TCLP	ND		mg/l	0.100	--	1	09/18/18 08:47	09/18/18 16:33	EPA 3015	1,6010D	LC
Chromium, TCLP	ND		mg/l	0.200	--	1	09/18/18 08:47	09/18/18 16:33	EPA 3015	1,6010D	LC
Lead, TCLP	ND		mg/l	0.500	--	1	09/18/18 08:47	09/18/18 16:33	EPA 3015	1,6010D	LC
Mercury, TCLP	ND		mg/l	0.0010	--	1	09/18/18 16:20	09/18/18 21:10	EPA 7470A	1,7470A	EA
Selenium, TCLP	ND		mg/l	0.500	--	1	09/18/18 08:47	09/18/18 16:33	EPA 3015	1,6010D	LC
Silver, TCLP	ND		mg/l	0.100	--	1	09/18/18 08:47	09/18/18 16:33	EPA 3015	1,6010D	LC



Project Name: COMP. SOIL SAMPLE (SIDEWALK)**Lab Number:** L1836573**Project Number:** Not Specified**Report Date:** 09/25/18**SAMPLE RESULTS**

Lab ID: L1836573-01

Date Collected: 09/14/18 11:30

Client ID: SOIL COMPOSITE

Date Received: 09/14/18

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	10.2		mg/kg	0.458	--	1	09/24/18 15:23	09/24/18 23:41	EPA 3050B	1,6010D	AB



INORGANICS & MISCELLANEOUS

Project Name: COMP. SOIL SAMPLE (SIDEWALK)**Lab Number:** L1836573**Project Number:** Not Specified**Report Date:** 09/25/18**SAMPLE RESULTS**

Lab ID: L1836573-01

Date Collected: 09/14/18 11:30

Client ID: SOIL COMPOSITE

Date Received: 09/14/18

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.7		%	0.100	NA	1	-	09/22/18 01:05	121,2540G	FN



Project Name: COMP. SOIL SAMPLE (SIDEWALK)**Lab Number:** L1836573**Project Number:** Not Specified**Report Date:** 09/25/18**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(*)
L1836573-01A	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L1836573-01B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.8	Y	Absent		AS-TI(180)
L1836573-01C	Vial Large Septa unpreserved (4oz)	A	NA		2.8	Y	Absent		TCLP-EXT-ZHE(14)
L1836573-01D	Glass 500ml/16oz unpreserved	A	NA		2.8	Y	Absent		-
L1836573-01W	Plastic 120ml HNO3 preserved Extracts	A	NA		2.8	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1836573-01X	Vial unpreserved Extracts	A	NA		2.8	Y	Absent		TCLP-VOA(14)
L1836573-01X9	Tumble Vessel	A	NA		2.8	Y	Absent		-
L1836573-01Y	Vial unpreserved Extracts	A	NA		2.8	Y	Absent		TCLP-VOA(14)

Project Name: COMP. SOIL SAMPLE (SIDEWALK)**Lab Number:** L1836573**Project Number:** Not Specified**Report Date:** 09/25/18

GLOSSARY

Acronyms

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.
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.
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.
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.

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.

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.

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.

Report Format: DU Report - No QC



Project Name: COMP. SOIL SAMPLE (SIDEWALK)**Lab Number:** L1836573**Project Number:** Not Specified**Report Date:** 09/25/18**Data Qualifiers**

- A** - Spectra identified as "Aldol Condensation Product".
- 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.
- 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.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where 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 exceedances 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.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Report Format: DU Report - No QC



Project Name: COMP. SOIL SAMPLE (SIDEWALK)
Project Number: Not Specified

Lab Number: L1836573
Report Date: 09/25/18

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 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: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; 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.

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, SM4500CI-D, SM2320B, SM2540C, SM4500H-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, **EPA 351.1, 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 624: Volatile Halocarbons & Aromatics,

EPA 608: 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: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, 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, Pb, Mn, Ni, Se, Ag, 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 Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	NEW YORK CHAIN OF CUSTODY 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 9-14-18	ALPHA Job # L183673	
		Project Information Project Name: Comp. Soil Sample (Sidewalk Repair Project) Project Location: Buffalo, NY Project # _____ (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQulS (1 File) <input type="checkbox"/> EQulS (4 File) <input type="checkbox"/> Other		Billing Information <input checked="" type="checkbox"/> Same as Client Info PO# _____
		Client Information Client: Honeywell Address: 20 Peabody Street Buffalo, NY 14120 Phone: 716-827-6318 Fax: 716-827-6221 Email: frank.collis@honeywell.com		Project Manager: Frank Collis ALPHAQuote #: Soil Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: _____ Rush (only if pre approved) <input type="checkbox"/> # of Days: _____		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: _____ _____ Please specify Metals or TAL. _____ _____		ANALYSIS		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other: _____		
ALPHA Lab ID (Lab Use Only) Sample ID Collection Date Time Sample Matrix Sampler's Initials		TCLP VOAs TCLP Metals Total As Total Solids		Sample Filtration <input type="checkbox"/> Done <input checked="" type="checkbox"/> Lab to do <input checked="" type="checkbox"/> Lab to do (Please Specify below)		
36573-01 Soil Composite 9/14/18 1130 Soil JCR		X X X X		Sample Specific Comments		
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O 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		
Container Type: G G G P		Preservative: A A A A		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.		
Relinquished By: <i>[Signature]</i>		Date/Time: 9/14/18 1200		Received By: <i>[Signature]</i>		
Date/Time: 9/5/18 0135						

Collis, Frank

From: Collis, Frank
Sent: Thursday, November 8, 2018 11:09 AM
To: 'Emery, Kathleen (DEC)'
Cc: Sikorski, Robert; Cantie, Thomas; Lis, James; Swayze, William D.; Weinheimer, Bruce; 'Mark Schober'
Subject: RE: [External] RE: Soil excavation at Honeywell / Buffalo Research Laboratory - Installation of new truck gate / Repair of Stormwater Receiver
Attachments: Source of Crushed Rock - Perry St. Gate Project (NOV 2018).pdf

Kate,
Here is some updated information regarding this project.

The reason this new gate is being installed at Perry Street is because BRL's Peabody Street gate needs to be temporarily shut down for several days to repair a collapsing stormwater receiver (located just inside the Peabody Street contactor entrance; it is now unsafe for heavy truck traffic).

Regarding the excavation associated with the new Perry St. gate, the initial estimate of the volume of soil to be removed was incorrect (too high). The soil that was removed is shown in Picture #4 below (covered with tarp). Around 15 inches of soil was removed, but a greater volume of crushed rock had to be replaced to build up the area to be level with the outer road. (information on the crushed rock fill, provided by our contractor, is attached.)

The new Perry Street gate will also need to be expanded by 10 additional feet to the West (to the left), to be wide enough for larger trucks. An additional volume of soil (estimated to be an additional 50% of the volume that was already excavated) will be generated.

Picture #1 New Perry Street Gate – to be used during temporary closure of the Peabody St. Contractor gate



Picture #2: New Perry Street Gate



Picture #3: The soil pile shown in the picture below is residual soil from past projects, previously sampled, analyzed and approved for re-use on-site. The plan is to send this soil to the Chaffee Landfill (will be sampled and analyzed again to complete Waste Management's waste profile process).



Picture #4: The soil covered by the tarp is the newly excavated soil. This soil will be sampled and analyzed (assuming it's non-hazardous, will be sent to Waste Management's Chaffee Landfill). An additional quantity of soil (estimated to be 50% more than what was currently excavated) will be generated with the 10-foot expansion of the gate.



The repair of the collapsing stormwater receiver (just inside the Peabody Street contractor entrance) is scheduled for next week (week of 12 NOV 2018). There will be some excavation of soil, but all of the soil is expected to be returned to the excavation. If any excavated soil is not returned to the excavation, it will be placed on a tarp, covered and sampled and analyzed to determine the proper disposition.



I apologize for the confusion. Please let me know if you have any questions. If I'm not at my desk (phone: 827-6325), please call me via cell phone (957-9158).

Thank you.
Regards,
Frank

Frank P. Collis
HSE Manager
Honeywell | Buffalo Research Laboratory | 20 Peabody St. | Buffalo, NY 14210
Office: 716-827-6325 | Cell: 716-957-9158
Email: frank.collis@honeywell.com

From: Collis, Frank
Sent: Wednesday, November 7, 2018 4:41 PM
To: 'Emery, Kathleen (DEC)' <kathleen.emery@dec.ny.gov>
Cc: Sikorski, Robert <Bob.Sikorski@Honeywell.com>; Cantie, Thomas <Thomas.Cantie@Honeywell.com>; Lis, James <James.Lis@Honeywell.com>; Swayze, William D. <william.swayze@honeywell.com>; Weinheimer, Bruce <Bruce.Weinheimer@Honeywell.com>
Subject: RE: [External] RE: Soil excavation at Honeywell / Buffalo Research Laboratory - Installation of new truck gate

Kate,
Yes, I was assuming that all newly-excavated soil would be non-hazardous.
Is it an option to excavate the soil first and then perform the analyses? If the soil is determined to be hazardous (TCLP arsenic at or above 5 mg/kg), then it would be managed as hazardous waste.

Regards,
Frank

From: Emery, Kathleen (DEC) [<mailto:kathleen.emery@dec.ny.gov>]
Sent: Wednesday, November 7, 2018 4:27 PM
To: Collis, Frank <Frank.Collis@Honeywell.com>
Subject: [External] RE: Soil excavation at Honeywell / Buffalo Research Laboratory - Installation of new truck gate

Sorry, I meant to write mg/kg (below).

I assume that since you were planning on sending all current and 'to be excavated' soil to WM Chaffee that you figured that it would all be non-haz?

From: Emery, Kathleen (DEC)
Sent: Wednesday, November 07, 2018 4:21 PM
To: 'Collis, Frank' <Frank.Collis@Honeywell.com>
Subject: RE: Soil excavation at Honeywell / Buffalo Research Laboratory - Installation of new truck gate

Hi Frank-

I took a look at the SMP and see that the work appears to be proposed for an area where high levels of arsenic have been found in the past – see Figure 3. According to Table 1 the levels found here range from 48.7 to 224 mg/L. Were you planning on taking a sample prior to work as described in Excavation Work Plan in Appendix A, page 4, or are you acting as though soil in area is already characterized as hazardous and doing TCLP to determine exactly what the level is?

Thanks
-Kate

From: Collis, Frank [<mailto:Frank.Collis@Honeywell.com>]
Sent: Wednesday, November 07, 2018 3:38 PM
To: Emery, Kathleen (DEC) <kathleen.emery@dec.ny.gov>
Cc: Sikorski, Robert <Bob.Sikorski@Honeywell.com>; Cantie, Thomas <Thomas.Cantie@Honeywell.com>; Lis, James <James.Lis@Honeywell.com>; Swayze, William D. <william.swayze@honeywell.com>; Weinheimer, Bruce <Bruce.Weinheimer@Honeywell.com>; Bojar, Kenneth J. <kenneth.bojar@honeywell.com>; Mark Schober <mschober@hubercon.com>
Subject: Soil excavation at Honeywell / Buffalo Research Laboratory - Installation of new truck gate

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Kate,
Buffalo Research Laboratory's (BRL's) Site Operations Department is having a contractor (Huber Construction) install a new gate on the north boundary of our facility.

The location of the new gate along the North boundary of our facility exiting to Perry Street is shown in the blue colored annotated area in the picture below.



The project will involve clearing some debris and excavating some dirt to construct a roadway to support truck traffic through the new gate area.

The area is shown in the pictures below (Perry Street is between the chain-link fence and the concrete wall; the first picture is looking North, and the second picture is looking to the NorthEast).





There is a debris pile (an estimated 10-to-15 cubic yards) that is overgrown with weeds, that consists of some concrete, asphalt and some residual soil from past excavations (approved for reuse on site, that tested below 28 ppm total arsenic).

The plan is to remove this debris pile and all newly-excavated soil – after sampling and analysis – to Waste Management’s Chaffee landfill.

Huber Construction estimates that there will be approximately 46 cubic yards of newly excavated soil associated with the construction of the new gate.

The existing soil/debris pile and all newly excavated soil will be staged on the adjacent asphalt surface (and covered with a 10-mil or greater thickness plastic tarp). A composite soil sample will be obtained and analyzed (by Alpha Analytical) for Total Arsenic (for the purposes of BRL’s Site Management Plan) and an analysis for all TCLP metals and TCLP volatiles (the TCLP analyses are required to profile the soil for disposal at Waste Management’s Chaffee landfill).

Please let us know if you have any questions.

Thanks!

Regards,

Frank

Frank P. Collis
HSE Manager
Honeywell | Buffalo Research Laboratory | 20 Peabody St. | Buffalo, NY 14210
Office: 716-827-6325 | Cell: 716-957-9158
Email: frank.collis@honeywell.com

Technical Services - Materials - Approved List Sources of Fine & Coarse Aggregates Region 5 - Stone

Following is a list of approved aggregate sources compiled by the Materials Bureau Engineering Geology Section. The Regional Materials Engineer should be consulted for current data concerning additional or deleted sources and revised information.

Source Number	Company Name Source Location	County	Test Number	Rock Type	Specific Gravities			ASR Potential	
					Bulk (SSD)	Bulk Apparent	ABS/BAL		
5-3L	DiGeronimo Aggregates LLC Independence, OH	Cuyahoga	17AL 2	Lightweight	Varies				
Accepted for 703-10 Lightweight Aggregate									
5-1R	New Enterprise Stone & Lime Co., Inc. Chicktown, NY	Erie	17AR 85	Limestone	2.68	2.661	2.702	0.6 NY4	X
5-3R	New Enterprise Stone & Lime Co., Inc. Williamsville, NY	Erie	17AR 30	Limestone	2.67	2.660	2.686	0.4 NY4	X
5-4R	Lafarge Corporation. Niagara Falls, NY	Niagara	17AR 32	Dolomite	2.73	2.689	2.793	1.4 NY4	
5-5R	Lafarge dba Redland Quarries NY Lockport, NY	Niagara	17AR 31	DOL & LS	2.73	2.681	2.810	1.7 NY3	
5-7R	County Line Stone Company Inc. Akron, NY	Erie	18AR 1	Limestone	2.67	2.658	2.694	0.5 NY4	X



ANALYTICAL REPORT

Lab Number:	L1847664
Client:	Honeywell 20 Peobody Street Buffalo, NY 14120
ATTN:	Frank Collis
Phone:	(716) 827-6318
Project Name:	SOIL SAMPLING
Project Number:	Not Specified
Report Date:	12/03/18

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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: SOIL SAMPLING
Project Number: Not Specified

Lab Number: L1847664
Report Date: 12/03/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1847664-01	PERRY ST. GATE	SOIL	BUFFALO, NY	11/20/18 13:45	11/20/18
L1847664-02	PAST EXCAVATIONS	SOIL	BUFFALO, NY	11/20/18 13:50	11/20/18
L1847664-03	PEABODY ST. CATCH BASIN	SOIL	BUFFALO, NY	11/20/18 13:55	11/20/18

Project Name: SOIL SAMPLING
Project Number: Not Specified

Lab Number: L1847664
Report Date: 12/03/18

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. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated 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.

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 table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

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 Client Service Representative 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 Client Services at 800-624-9220 with any questions.

Project Name: SOIL SAMPLING
Project Number: Not Specified

Lab Number: L1847664
Report Date: 12/03/18

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.

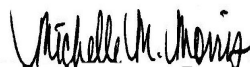
TCLP Metals

The WG1184325-2 LCS recovery, associated with L1847664-01 and -02, is above the acceptance criteria for mercury (132%); however, the associated samples are non-detect to the RL for this target analyte. The results of the original analysis are reported.

The WG1184328-2 LCS recovery, associated with L1847664-03, is above the acceptance criteria for mercury (139%); however, the associated sample is non-detect to the RL for this target analyte. The results of the original analysis are reported.

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:



Michelle M. Morris

Title: Technical Director/Representative

Date: 12/03/18

ORGANICS

VOLATILES

Project Name: SOIL SAMPLING**Lab Number:** L1847664**Project Number:** Not Specified**Report Date:** 12/03/18**SAMPLE RESULTS**

Lab ID: L1847664-01
 Client ID: PERRY ST. GATE
 Sample Location: BUFFALO, NY

Date Collected: 11/20/18 13:45
 Date Received: 11/20/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 11/29/18 19:14
 Analyst: MM
 Percent Solids: 89%
 TCLP/SPLP Ext. Date: 11/26/18 10:08

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	99		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	84		70-130
dibromofluoromethane	110		70-130

Project Name: SOIL SAMPLING**Lab Number:** L1847664**Project Number:** Not Specified**Report Date:** 12/03/18**SAMPLE RESULTS**

Lab ID: L1847664-02
 Client ID: PAST EXCAVATIONS
 Sample Location: BUFFALO, NY

Date Collected: 11/20/18 13:50
 Date Received: 11/20/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 11/29/18 19:47
 Analyst: MM
 Percent Solids: 89%
 TCLP/SPLP Ext. Date: 11/26/18 10:08

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	98		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	87		70-130
dibromofluoromethane	110		70-130

Project Name: SOIL SAMPLING**Lab Number:** L1847664**Project Number:** Not Specified**Report Date:** 12/03/18**SAMPLE RESULTS**

Lab ID: L1847664-03
 Client ID: PEABODY ST. CATCH BASIN
 Sample Location: BUFFALO, NY

Date Collected: 11/20/18 13:55
 Date Received: 11/20/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 11/29/18 20:20
 Analyst: MM
 Percent Solids: 74%
 TCLP/SPLP Ext. Date: 11/26/18 10:08

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	102		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	94		70-130
dibromofluoromethane	111		70-130

Project Name: SOIL SAMPLING
Project Number: Not Specified

Lab Number: L1847664
Report Date: 12/03/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/29/18 15:54
Analyst: MKS
TCLP/SPLP Extraction Date: 11/26/18 10:08

Extraction Date: 11/26/18 10:08

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Volatiles by EPA 1311 - Westborough Lab for sample(s): 01-03 Batch: WG1184130-5					
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	101		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	87		70-130
dibromofluoromethane	111		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: SOIL SAMPLING

Project Number: Not Specified

Lab Number: L1847664

Report Date: 12/03/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
TCLP Volatiles by EPA 1311 - Westborough Lab Associated sample(s): 01-03 Batch: WG1184130-3 WG1184130-4								
Chloroform	92		90		70-130	2		20
Carbon tetrachloride	95		94		63-132	1		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	100		98		75-130	2		25
1,2-Dichloroethane	89		88		70-130	1		20
Benzene	88		86		70-130	2		25
Vinyl chloride	110		110		55-140	0		20
1,1-Dichloroethene	120		120		61-145	0		25
Trichloroethene	90		88		70-130	2		25
1,4-Dichlorobenzene	99		97		70-130	2		20
2-Butanone	74		72		63-138	3		20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	97		101		70-130
Toluene-d8	97		97		70-130
4-Bromofluorobenzene	93		87		70-130
dibromofluoromethane	108		107		70-130

METALS

Project Name: SOIL SAMPLING**Lab Number:** L1847664**Project Number:** Not Specified**Report Date:** 12/03/18**SAMPLE RESULTS**

Lab ID: L1847664-01

Date Collected: 11/20/18 13:45

Client ID: PERRY ST. GATE

Date Received: 11/20/18

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 11/25/18 15:46

Matrix: Soil

Percent Solids: 89%

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	ND		mg/l	1.00	0.019	1	11/30/18 12:39	11/30/18 23:40	EPA 3015	1,6010D	MC
Barium, TCLP	0.287	J	mg/l	0.500	0.021	1	11/30/18 12:39	11/30/18 23:40	EPA 3015	1,6010D	MC
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	11/30/18 12:39	11/30/18 23:40	EPA 3015	1,6010D	MC
Chromium, TCLP	ND		mg/l	0.200	0.021	1	11/30/18 12:39	11/30/18 23:40	EPA 3015	1,6010D	MC
Lead, TCLP	ND		mg/l	0.500	0.027	1	11/30/18 12:39	11/30/18 23:40	EPA 3015	1,6010D	MC
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	11/30/18 12:14	11/30/18 21:52	EPA 7470A	1,7470A	EA
Selenium, TCLP	ND		mg/l	0.500	0.035	1	11/30/18 12:39	11/30/18 23:40	EPA 3015	1,6010D	MC
Silver, TCLP	ND		mg/l	0.100	0.028	1	11/30/18 12:39	11/30/18 23:40	EPA 3015	1,6010D	MC



Project Name: SOIL SAMPLING

Lab Number: L1847664

Project Number: Not Specified

Report Date: 12/03/18

SAMPLE RESULTS

Lab ID: L1847664-01

Date Collected: 11/20/18 13:45

Client ID: PERRY ST. GATE

Date Received: 11/20/18

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	12.1		mg/kg	0.446	0.093	1	11/21/18 19:45	11/27/18 21:41	EPA 3050B	1,6010D	LC



Project Name: SOIL SAMPLING**Lab Number:** L1847664**Project Number:** Not Specified**Report Date:** 12/03/18**SAMPLE RESULTS**

Lab ID: L1847664-02

Date Collected: 11/20/18 13:50

Client ID: PAST EXCAVATIONS

Date Received: 11/20/18

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 11/25/18 15:46

Matrix: Soil

Percent Solids: 89%

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	ND		mg/l	1.00	0.019	1	11/30/18 12:39	12/01/18 01:30	EPA 3015	1,6010D	MC
Barium, TCLP	0.269	J	mg/l	0.500	0.021	1	11/30/18 12:39	12/01/18 01:30	EPA 3015	1,6010D	MC
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	11/30/18 12:39	12/01/18 01:30	EPA 3015	1,6010D	MC
Chromium, TCLP	ND		mg/l	0.200	0.021	1	11/30/18 12:39	12/01/18 01:30	EPA 3015	1,6010D	MC
Lead, TCLP	ND		mg/l	0.500	0.027	1	11/30/18 12:39	12/01/18 01:30	EPA 3015	1,6010D	MC
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	11/30/18 12:14	11/30/18 21:57	EPA 7470A	1,7470A	EA
Selenium, TCLP	ND		mg/l	0.500	0.035	1	11/30/18 12:39	12/01/18 01:30	EPA 3015	1,6010D	MC
Silver, TCLP	ND		mg/l	0.100	0.028	1	11/30/18 12:39	12/01/18 01:30	EPA 3015	1,6010D	MC



Project Name: SOIL SAMPLING

Lab Number: L1847664

Project Number: Not Specified

Report Date: 12/03/18

SAMPLE RESULTS

Lab ID: L1847664-02
 Client ID: PAST EXCAVATIONS
 Sample Location: BUFFALO, NY

Date Collected: 11/20/18 13:50
 Date Received: 11/20/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	5.66		mg/kg	0.435	0.090	1	11/21/18 19:45	11/27/18 21:46	EPA 3050B	1,6010D	LC



Project Name: SOIL SAMPLING**Lab Number:** L1847664**Project Number:** Not Specified**Report Date:** 12/03/18**SAMPLE RESULTS**

Lab ID: L1847664-03

Date Collected: 11/20/18 13:55

Client ID: PEABODY ST. CATCH BASIN

Date Received: 11/20/18

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 11/25/18 15:46

Matrix: Soil

Percent Solids: 74%

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	0.048	J	mg/l	1.00	0.019	1	11/28/18 16:23	11/29/18 01:38	EPA 3015	1,6010D	MC
Barium, TCLP	0.691		mg/l	0.500	0.021	1	11/28/18 16:23	11/29/18 01:38	EPA 3015	1,6010D	MC
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	11/28/18 16:23	11/29/18 01:38	EPA 3015	1,6010D	MC
Chromium, TCLP	ND		mg/l	0.200	0.021	1	11/28/18 16:23	11/29/18 01:38	EPA 3015	1,6010D	MC
Lead, TCLP	ND		mg/l	0.500	0.027	1	11/28/18 16:23	11/29/18 01:38	EPA 3015	1,6010D	MC
Mercury, TCLP	0.0005	J	mg/l	0.0010	0.0005	1	11/30/18 12:14	11/30/18 22:31	EPA 7470A	1,7470A	EA
Selenium, TCLP	ND		mg/l	0.500	0.035	1	11/28/18 16:23	11/29/18 01:38	EPA 3015	1,6010D	MC
Silver, TCLP	ND		mg/l	0.100	0.028	1	11/28/18 16:23	11/29/18 01:38	EPA 3015	1,6010D	MC



Project Name: SOIL SAMPLING

Lab Number: L1847664

Project Number: Not Specified

Report Date: 12/03/18

SAMPLE RESULTS

Lab ID: L1847664-03

Date Collected: 11/20/18 13:55

Client ID: PEABODY ST. CATCH BASIN

Date Received: 11/20/18

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	17.5		mg/kg	0.525	0.109	1	11/21/18 19:45	11/27/18 21:50	EPA 3050B	1,6010D	LC



Project Name: SOIL SAMPLING
Project Number: Not Specified

Lab Number: L1847664
Report Date: 12/03/18

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): 01-03 Batch: WG1181996-1										
Arsenic, Total	ND		mg/kg	0.400	0.083	1	11/21/18 19:45	11/27/18 18:41	1,6010D	LC

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): 03 Batch: WG1183448-1										
Arsenic, TCLP	0.026	J	mg/l	1.00	0.019	1	11/28/18 16:23	11/28/18 23:23	1,6010D	MC
Barium, TCLP	0.047	J	mg/l	0.500	0.021	1	11/28/18 16:23	11/28/18 23:23	1,6010D	MC
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	11/28/18 16:23	11/28/18 23:23	1,6010D	MC
Chromium, TCLP	0.023	J	mg/l	0.200	0.021	1	11/28/18 16:23	11/28/18 23:23	1,6010D	MC
Lead, TCLP	ND		mg/l	0.500	0.027	1	11/28/18 16:23	11/28/18 23:23	1,6010D	MC
Selenium, TCLP	ND		mg/l	0.500	0.035	1	11/28/18 16:23	11/28/18 23:23	1,6010D	MC
Silver, TCLP	ND		mg/l	0.100	0.028	1	11/28/18 16:23	11/28/18 23:23	1,6010D	MC

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 11/25/18 15:46

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): 01-02 Batch: WG1184325-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	11/30/18 12:14	11/30/18 21:44	1,7470A	EA

Prep Information

Digestion Method: EPA 7470A
TCLP/SPLP Extraction Date: 11/25/18 15:46

Project Name: SOIL SAMPLING
Project Number: Not Specified

Lab Number: L1847664
Report Date: 12/03/18

Method Blank Analysis Batch Quality Control

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): 03 Batch: WG1184328-1									
Mercury, TCLP	ND	mg/l	0.0010	0.0005	1	11/30/18 12:14	11/30/18 22:27	1,7470A	EA

Prep Information

Digestion Method: EPA 7470A
TCLP/SPLP Extraction Date: 11/25/18 15:46

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): 01-02 Batch: WG1184341-1									
Arsenic, TCLP	ND	mg/l	1.00	0.019	1	11/30/18 12:39	11/30/18 19:53	1,6010D	MC
Barium, TCLP	ND	mg/l	0.500	0.021	1	11/30/18 12:39	11/30/18 19:53	1,6010D	MC
Cadmium, TCLP	ND	mg/l	0.100	0.010	1	11/30/18 12:39	11/30/18 19:53	1,6010D	MC
Chromium, TCLP	ND	mg/l	0.200	0.021	1	11/30/18 12:39	11/30/18 19:53	1,6010D	MC
Lead, TCLP	ND	mg/l	0.500	0.027	1	11/30/18 12:39	11/30/18 19:53	1,6010D	MC
Selenium, TCLP	ND	mg/l	0.500	0.035	1	11/30/18 12:39	11/30/18 19:53	1,6010D	MC
Silver, TCLP	ND	mg/l	0.100	0.028	1	11/30/18 12:39	11/30/18 19:53	1,6010D	MC

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 11/25/18 15:46

Lab Control Sample Analysis

Batch Quality Control

Project Name: SOIL SAMPLING

Project Number: Not Specified

Lab Number: L1847664

Report Date: 12/03/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1181996-2 SRM Lot Number: D102-540								
Arsenic, Total	92		-		83-117	-		
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 03 Batch: WG1183448-2								
Arsenic, TCLP	96		-		75-125	-		20
Barium, TCLP	92		-		75-125	-		20
Cadmium, TCLP	97		-		75-125	-		20
Chromium, TCLP	94		-		75-125	-		20
Lead, TCLP	83		-		75-125	-		20
Selenium, TCLP	94		-		75-125	-		20
Silver, TCLP	93		-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-02 Batch: WG1184325-2								
Mercury, TCLP	132	Q	-		80-120	-		
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 03 Batch: WG1184328-2								
Mercury, TCLP	139	Q	-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: SOIL SAMPLING

Project Number: Not Specified

Lab Number: L1847664

Report Date: 12/03/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-02 Batch: WG1184341-2					
Arsenic, TCLP	89	-	75-125	-	20
Barium, TCLP	96	-	75-125	-	20
Cadmium, TCLP	96	-	75-125	-	20
Chromium, TCLP	91	-	75-125	-	20
Lead, TCLP	88	-	75-125	-	20
Selenium, TCLP	85	-	75-125	-	20
Silver, TCLP	89	-	75-125	-	20

Matrix Spike Analysis Batch Quality Control

Project Name: SOIL SAMPLING
Project Number: Not Specified

Lab Number: L1847664
Report Date: 12/03/18

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): 01-03 QC Batch ID: WG1181996-3 QC Sample: L1847591-01 Client ID: MS Sample												
Arsenic, Total	5.19	12.2	13.5	68	Q	-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1183448-3 QC Sample: L1847883-01 Client ID: MS Sample												
Arsenic, TCLP	0.039J	1.2	1.19	99		-	-		75-125	-		20
Barium, TCLP	0.891	20	19.9	95		-	-		75-125	-		20
Cadmium, TCLP	ND	0.51	0.532	104		-	-		75-125	-		20
Chromium, TCLP	0.032J	2	2.00	100		-	-		75-125	-		20
Lead, TCLP	ND	5.1	4.42	87		-	-		75-125	-		20
Selenium, TCLP	ND	1.2	1.18	98		-	-		75-125	-		20
Silver, TCLP	ND	0.5	0.485	97		-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1184325-3 QC Sample: L1847664-01 Client ID: PERRY ST. GATE												
Mercury, TCLP	ND	0.025	0.0291	116		-	-		80-120	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1184328-3 QC Sample: L1847664-03 Client ID: PEABODY ST. CATCH BASIN												
Mercury, TCLP	0.0005J	0.025	0.0292	117		-	-		80-120	-		20



Matrix Spike Analysis
Batch Quality Control

Project Name: SOIL SAMPLING
Project Number: Not Specified

Lab Number: L1847664
Report Date: 12/03/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1184341-3 QC Sample: L1847664-01 Client ID: PERRY ST. GATE									
Arsenic, TCLP	ND	1.2	1.00	83	-	-	75-125	-	20
Barium, TCLP	0.287J	20	17.2	86	-	-	75-125	-	20
Cadmium, TCLP	ND	0.51	0.449	88	-	-	75-125	-	20
Chromium, TCLP	ND	2	1.65	82	-	-	75-125	-	20
Lead, TCLP	ND	5.1	3.91	77	-	-	75-125	-	20
Selenium, TCLP	ND	1.2	1.04	87	-	-	75-125	-	20
Silver, TCLP	ND	0.5	0.417	83	-	-	75-125	-	20

Lab Duplicate Analysis Batch Quality Control

Project Name: SOIL SAMPLING
Project Number: Not Specified

Lab Number: L1847664
Report Date: 12/03/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1181996-4 QC Sample: L1847591-01 Client ID: DUP Sample						
Arsenic, Total	5.19	4.07	mg/kg	24	Q	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1183448-4 QC Sample: L1847883-01 Client ID: DUP Sample						
Arsenic, TCLP	0.039J	0.039J	mg/l	NC		20
Barium, TCLP	0.891	0.891	mg/l	0		20
Cadmium, TCLP	ND	ND	mg/l	NC		20
Chromium, TCLP	0.032J	0.033J	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): 01-02 QC Batch ID: WG1184325-4 QC Sample: L1847664-01 Client ID: PERRY ST. GATE						
Mercury, TCLP	ND	0.0005J	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1184328-4 QC Sample: L1847664-03 Client ID: PEABODY ST. CATCH BASIN						
Mercury, TCLP	0.0005J	ND	mg/l	NC		20



Lab Duplicate Analysis

Batch Quality Control

Project Name: SOIL SAMPLING

Project Number: Not Specified

Lab Number: L1847664

Report Date: 12/03/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1184341-4 QC Sample: L1847664-01 Client ID: PERRY ST. GATE					
Arsenic, TCLP	ND	ND	mg/l	NC	20
Barium, TCLP	0.287J	0.306J	mg/l	NC	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	0.041J	mg/l	NC	20
Silver, TCLP	ND	ND	mg/l	NC	20

INORGANICS & MISCELLANEOUS

Project Name: SOIL SAMPLING

Project Number: Not Specified

Lab Number: L1847664

Report Date: 12/03/18

SAMPLE RESULTS

Lab ID: L1847664-01

Client ID: PERRY ST. GATE

Sample Location: BUFFALO, NY

Date Collected: 11/20/18 13:45

Date Received: 11/20/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.2		%	0.100	NA	1	-	11/21/18 11:24	121,2540G	RI



Project Name: SOIL SAMPLING**Lab Number:** L1847664**Project Number:** Not Specified**Report Date:** 12/03/18**SAMPLE RESULTS**

Lab ID: L1847664-02

Date Collected: 11/20/18 13:50

Client ID: PAST EXCAVATIONS

Date Received: 11/20/18

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.6		%	0.100	NA	1	-	11/21/18 11:24	121,2540G	RI



Project Name: SOIL SAMPLING

Lab Number: L1847664

Project Number: Not Specified

Report Date: 12/03/18

SAMPLE RESULTS

Lab ID: L1847664-03

Date Collected: 11/20/18 13:55

Client ID: PEABODY ST. CATCH BASIN

Date Received: 11/20/18

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.6		%	0.100	NA	1	-	11/21/18 11:24	121,2540G	RI



Lab Duplicate Analysis

Batch Quality Control

Project Name: SOIL SAMPLING

Project Number: Not Specified

Lab Number: L1847664

Report Date: 12/03/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1181831-1 QC Sample: L1847755-01 Client ID: DUP Sample						
Solids, Total	87.9	88.8	%	1		20

Project Name: SOIL SAMPLING**Lab Number:** L1847664**Project Number:** Not Specified**Report Date:** 12/03/18**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(*)
L1847664-01A	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L1847664-01B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.8	Y	Absent		AS-TI(180)
L1847664-01C	Vial Large Septa unpreserved (4oz)	A	NA		2.8	Y	Absent		TCLP-EXT-ZHE(14)
L1847664-01D	Glass 250ml/8oz unpreserved	A	NA		2.8	Y	Absent		-
L1847664-01S	Vial unpreserved Extracts	A	NA		2.8	Y	Absent		TCLP-VOA(14)
L1847664-01T	Vial unpreserved Extracts	A	NA		2.8	Y	Absent		TCLP-VOA(14)
L1847664-01X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.8	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1847664-01X9	Tumble Vessel	A	NA		2.8	Y	Absent		-
L1847664-02A	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L1847664-02B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.8	Y	Absent		AS-TI(180)
L1847664-02C	Vial Large Septa unpreserved (4oz)	A	NA		2.8	Y	Absent		TCLP-EXT-ZHE(14)
L1847664-02D	Glass 250ml/8oz unpreserved	A	NA		2.8	Y	Absent		-
L1847664-02S	Vial unpreserved Extracts	A	NA		2.8	Y	Absent		TCLP-VOA(14)
L1847664-02T	Vial unpreserved Extracts	A	NA		2.8	Y	Absent		TCLP-VOA(14)
L1847664-02X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.8	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1847664-02X9	Tumble Vessel	A	NA		2.8	Y	Absent		-
L1847664-03A	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L1847664-03B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.8	Y	Absent		AS-TI(180)
L1847664-03C	Vial Large Septa unpreserved (4oz)	A	NA		2.8	Y	Absent		TCLP-EXT-ZHE(14)
L1847664-03D	Glass 250ml/8oz unpreserved	A	NA		2.8	Y	Absent		-
L1847664-03S	Vial unpreserved Extracts	A	NA		2.8	Y	Absent		TCLP-VOA(14)

Project Name: SOIL SAMPLING**Lab Number:** L1847664**Project Number:** Not Specified**Report Date:** 12/03/18**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1847664-03T	Vial unpreserved Extracts	A	NA		2.8	Y	Absent		TCLP-VOA(14)
L1847664-03X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.8	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1847664-03X9	Tumble Vessel	A	NA		2.8	Y	Absent		-

Project Name: SOIL SAMPLING
Project Number: Not Specified

Lab Number: L1847664
Report Date: 12/03/18

GLOSSARY

Acronyms

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.
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.
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.
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.

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.

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.

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.

Report Format: DU Report with 'J' Qualifiers



Project Name: SOIL SAMPLING
Project Number: Not Specified

Lab Number: L1847664
Report Date: 12/03/18

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- 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.
- 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.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where 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 exceedances 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.
- 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).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: SOIL SAMPLING
Project Number: Not Specified

Lab Number: L1847664
Report Date: 12/03/18

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 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

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

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.

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, SM4500CI-D, SM2320B, SM2540C, SM4500H-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.

 <p>NEW YORK CHAIN OF CUSTODY</p> <p>Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193</p> <p>Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288</p>		<p><u>Service Centers</u> Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105</p>		<p>Page 1 of 1</p>		<p>Date Rec'd in Lab <i>11/21/18</i></p>		<p>ALPHA Job # <i>L847664</i></p>																																																																																																				
<p>Project Information</p> <p>Project Name: <i>Soil Sampling</i></p> <p>Project Location: <i>Buffalo, NY</i></p> <p>Project # _____ (Use Project name as Project #) <input type="checkbox"/></p> <p>Project Manager: <i>Diana Overton / Frank Collis</i></p> <p>ALPHAQuote #: <i>Soil</i></p> <p>Turn-Around Time</p> <p>Standard <input checked="" type="checkbox"/> Due Date: _____ Rush (only if pre approved) <input type="checkbox"/> # of Days: _____</p>		<p>Deliverables</p> <p><input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other</p>		<p>Billing Information</p> <p><input checked="" type="checkbox"/> Same as Client Info PO # <i>4502865225</i></p>																																																																																																								
<p>Client Information</p> <p>Client: <i>Honeywell</i></p> <p>Address: <i>20 Peabody Street</i></p> <p><i>Buffalo, NY 14120</i></p> <p>Phone: <i>716-827-6318</i></p> <p>Fax: <i>716-827-6221</i></p> <p>Email: <i>diana.overton@honeywell.com</i></p>		<p>Regulatory Requirement</p> <p><input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge</p>		<p>Disposal Site Information</p> <p>Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:</p>																																																																																																								
<p>These samples have been previously analyzed by Alpha <input type="checkbox"/></p> <p>Other project specific requirements/comments:</p> <p>Please specify Metals or TAL.</p>		<p>ANALYSIS</p> <table border="1"> <thead> <tr> <th>TCLP Volatiles</th> <th>TCLP Metals</th> <th>Total Arsenic</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </tbody> </table>		TCLP Volatiles	TCLP Metals	Total Arsenic										X	X	X										X	X	X										X	X	X										<p>Sample Filtration</p> <p><input type="checkbox"/> Done <input checked="" type="checkbox"/> Lab to do Preservation <input checked="" type="checkbox"/> Lab to do <i>(Please Specify below)</i></p> <p>Sample Specific Comments</p>																																																								
TCLP Volatiles	TCLP Metals	Total Arsenic																																																																																																										
X	X	X																																																																																																										
X	X	X																																																																																																										
X	X	X																																																																																																										
<table border="1"> <thead> <tr> <th rowspan="2">ALPHA Lab ID (Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> <th rowspan="2">TCLP Volatiles</th> <th rowspan="2">TCLP Metals</th> <th rowspan="2">Total Arsenic</th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> </tr> <tr> <th>Date</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td><i>47664-01</i></td> <td><i>Perry St. Gate</i></td> <td><i>11/20/18</i></td> <td><i>1345</i></td> <td><i>Soil</i></td> <td><i>ZSR</i></td> <td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td><i>02</i></td> <td><i>Past Excavations</i></td> <td><i>↓</i></td> <td><i>1350</i></td> <td><i>Soil</i></td> <td><i>↓</i></td> <td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td><i>03</i></td> <td><i>Peabody St. Catch Basin</i></td> <td><i>↓</i></td> <td><i>1355</i></td> <td><i>Soil</i></td> <td><i>↓</i></td> <td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </tbody> </table>		ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	TCLP Volatiles	TCLP Metals	Total Arsenic											Date	Time	<i>47664-01</i>	<i>Perry St. Gate</i>	<i>11/20/18</i>	<i>1345</i>	<i>Soil</i>	<i>ZSR</i>	X	X	X												<i>02</i>	<i>Past Excavations</i>	<i>↓</i>	<i>1350</i>	<i>Soil</i>	<i>↓</i>	X	X	X												<i>03</i>	<i>Peabody St. Catch Basin</i>	<i>↓</i>	<i>1355</i>	<i>Soil</i>	<i>↓</i>	X	X	X												<p>Westboro: Certification No: MA935 Mansfield: Certification No: MA015</p> <table border="1"> <tr> <td>Container Type</td> <td>G</td><td>G</td><td>G</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Preservative</td> <td>A</td><td>A</td><td>A</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>		Container Type	G	G	G									Preservative	A	A	A								
ALPHA Lab ID (Lab Use Only)	Sample ID			Collection																	Sample Matrix	Sampler's Initials	TCLP Volatiles	TCLP Metals	Total Arsenic																																																																																			
		Date	Time																																																																																																									
<i>47664-01</i>	<i>Perry St. Gate</i>	<i>11/20/18</i>	<i>1345</i>	<i>Soil</i>	<i>ZSR</i>	X	X	X																																																																																																				
<i>02</i>	<i>Past Excavations</i>	<i>↓</i>	<i>1350</i>	<i>Soil</i>	<i>↓</i>	X	X	X																																																																																																				
<i>03</i>	<i>Peabody St. Catch Basin</i>	<i>↓</i>	<i>1355</i>	<i>Soil</i>	<i>↓</i>	X	X	X																																																																																																				
Container Type	G	G	G																																																																																																									
Preservative	A	A	A																																																																																																									
<p>Preservative Code: A = None B = HCl C = HNO₃ D = H₂SO₄ E = NaOH F = MeOH G = NaHSO₄ H = Na₂S₂O₃ K/E = Zn Ac/NaOH O = Other</p> <p>Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle</p>		<p>Relinquished By: <i>[Signature]</i></p> <p>Date/Time: <i>11/20/18 1425</i></p>		<p>Received By: <i>[Signature]</i></p> <p>Date/Time: <i>11/21/18 01:20</i></p>		<p>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.</p>																																																																																																						

SHIPPING DOCUMENT	1. Generator ID Number NYD000632315	2. Page 1 of 1	3. Emergency Response Phone (877) 818-0087	4. Shipping Document Tracking Number ZZ 00441919				
5. Generator's Name and Mailing Address HONEYWELL INTERNATIONAL, INC. 20 PEABODY STREET BUFFALO, NY 14210		Generator's Site Address (if different than mailing address) SAME						
Generator's Phone: 716 827-6318								
6. Transporter 1 Company Name PARISO LOGISTICS INC 16		U.S. EPA ID Number N/A 9A-826-16						
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		U.S. EPA ID Number						
Facility's Phone: 716 492-3420		NOT REQ 095						
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Codes	
		1. NON-REGULATED MATERIAL PER 40 & 49 CFR. (SOIL CONTAMINATED WITH LOW LEVEL: ARSENIC <5PPM, BARIUM <0.7 PPM - TCLP)	No.	Type			NONE	
		2.	1	DT	20	T	L	
		3.						
		4.						
14. Special Handling Instructions and Additional Information CONTRACTED BY VESTS: + 1) W:327213 A:CIN327213 VEST:H132 ** (VES-TON-NY); ** (NEED C.O.D'S); ** (EMERGENCY RESPONSE# 877-818-0087).								
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.								
Generator's/Offendor's Printed/Typed Name FRANK COLLIS		Signature <i>James J. Lu</i>		Month Day Year 12/18/18				
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
17. Transporter Acknowledgment of Receipt of Shipment								
Transporter 1 Printed/Typed Name Jordan White		Signature <i>Jordan White</i>		Month Day Year 12/18/18				
Transporter 2 Printed/Typed Name		Signature		Month Day Year				
18. Discrepancy								
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
18b. Alternate Facility (or Generator) Shipping Document Tracking Number: _____ 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				

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY

SHIPPING DOCUMENT	1. Generator ID Number NYD000632315	2. Page 1 of 1	3. Emergency Response Phone (877) 818-0087	4. Shipping Document Tracking Number ZZ 00441920		
5. Generator's Name and Mailing Address FRANK COLLIS HONEYWELL INTERNATIONAL, INC. 20 PEABODY STREET BUFFALO, NY 14210		Generator's Site Address (if different than mailing address) SAME				
Generator's Phone: 716 827-6318						
6. Transporter 1 Company Name PARSON LOGISTICS INC		U.S. EPA ID Number NB 9A-826-37				
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		U.S. EPA ID Number				
Facility's Phone: 716 492-3420		NOT REQ 095				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type	11. Total Quantity	12. Unit Wt./Vol.	13. Codes
		1. NON-REGULATED MATERIAL PER 40 & 49 CFR. (SOIL CONTAMINATED WITH LOW LEVEL: ARSENIC <5PPM, BARIUM <0.7 PPM - TCLP)	1 D T	20	T	NONE L
		2.				
		3.				
		4.				
14. Special Handling Instructions and Additional Information ** (VES-TON, NY7): *(NEED C.O.D'S): *(EMERGENCY RESPONSE#1-877-818-0087, CONTRACTED BY VESTS); +- 1) W:327213 A:CIN327213 VEST:HI32						
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.						
Generator's/Offeror's Printed/Typed Name FRANK COLLIS James J. Lis		Signature <i>James J. Lis</i>		Month Day Year 12 18 13		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Shipment						
Transporter 1 Printed/Typed Name James R. Leicht		Signature <i>James R. Leicht</i>		Month Day Year 12 18 13		
Transporter 2 Printed/Typed Name		Signature		Month Day Year		
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
18b. Alternate Facility (or Generator) Shipping Document Tracking Number: _____ 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		

X TRANSPORTER INT'L

DESIGNATED FACILITY

1

SHIPPING DOCUMENT		1. Generator ID Number NYD000632315	2. Page 1 of 1	3. Emergency Response Phone (877) 818-0087	4. Shipping Document Tracking Number ZZ 00441921	
5. Generator's Name and Mailing Address 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			
6. Transporter 1 Company Name <i>PARIS LOGISTICS INC</i>				U.S. EPA ID Number N/A 9A-826-238		
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 CHAFFER, NY 14030-9799 Facility's Phone: 716 492-3420				U.S. EPA ID Number NOT REQ 095		
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	
			No.	Type	12. Unit Wt./Vol.	
		1. NON-REGULATED MATERIAL, PER 40 & 49 CFR. (SOIL CONTAMINATED WITH LOW LEVEL ARSENIC <5PPM, BARIUM <0.7 PPM - TCLP)	1	DOT	20	T
		2.				
		3.				
	4.					
13. Codes NONE L						
14. Special Handling Instructions and Additional Information CONTRACTED BY VESTSY. - 1) W:327213 A:CIN327213 VESI:H132 **(VES-TON,NY?) *(NEED C.O.D'S): *(EMERGENCY RESPONSE# -877-818-0087:						
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.						
Generator's/Offeror's Printed/Typed Name FRANK COLLIS James J. Collins			Signature <i>[Signature]</i>		Month Day Year 12 18 18	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Shipment						
Transporter 1 Printed/Typed Name <i>[Signature]</i>			Signature <i>[Signature]</i>		Month Day Year 12 18 18	
Transporter 2 Printed/Typed Name			Signature		Month Day Year	
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
18b. Alternate Facility (or Generator) Shipping Document Tracking Number: _____ U.S. EPA ID Number _____						
18c. Signature of Alternate Facility (or Generator) Facility's Phone: _____ Month Day Year						
19. Report Management Method Codes (i.e., codes for treatment, disposal, and recycling systems)						
1.		2.		3.		
20. Designated Facility Owner or Operator: Certification of receipt of shipment except as noted in Item 18a						
Printed/Typed Name			Signature		Month Day Year	

TRANSFERRER INT'L

DESIGNATED FACILITY

SHIPPING DOCUMENT	1. Generator ID Number NYD000632315	2. Page 1 of 1	3. Emergency Response Phone (877) 818-0087	4. Shipping Document Tracking Number ZZ 00441922		
5. Generator's Name and Mailing Address FRANK COLLIS HONEYWELL INTERNATIONAL, INC. 20 PRABODY STREET BUFFALO, NY 14210		Generator's Site Address (if different than mailing address) SAME				
Generator's Phone: 716 827-6318						
6. Transporter 1 Company Name PARISO LOGISTICS INC		U.S. EPA ID Number NA 9A-826-32				
7. Transporter 2 Company Name		U.S. EPA ID Number				
8. Designated Facility Name and Site Address JM OF NEW YORK, LLC 10860 OLEAN ROAD CHAFFEE, NY 14030-9799		U.S. EPA ID Number				
Facility's Phone: 716 492-3420		NOT REQ 095				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type	11. Total Quantity	12. Unit Wt./Vol.	13. Codes
		1. NON-REGULATED MATERIAL PER 40 & 49 CFR. (SOIL CONTAMINATED WITH LOW LEVEL: ARSENIC <5PPM, BARIUM <0.7 PPM - TCLP)	1 D T	30 T		NONE L
		2.				
		3.				
		4.				
14. Special Handling Instructions and Additional Information ** (VES-TON-NY2); *(NEED C.O.D'S); *(EMERGENCY RESPONSE#1-877-818-0087; CONTRACTED BY VESTS); - 1) W:327213 A:CIN327213 VESI;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.						
Generator's/Offor's Printed/Typed Name FRANK COLLIS		Signature <i>James J. Collis</i>		Month Day Year 12 18 18		
INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit: Date leaving U.S.:			
	17. Transporter Acknowledgment of Receipt of Shipment					
TRANSPORTER	Transporter 1 Printed/Typed Name PARISO LOGISTICS		Signature <i>Pariso</i>		Month Day Year 12 18 18	
	Transporter 2 Printed/Typed Name		Signature		Month Day Year	
DESIGNATED FACILITY	18. Discrepancy					
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
	18b. Alternate Facility (or Generator)			Shipping Document Tracking Number: 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		

SHIPPING DOCUMENT	1. Generator ID Number NYD000632315	2. Page 1 of 1	3. Emergency Response Phone (877) 818-0087	4. Shipping Document Tracking Number ZZ 00441923					
5. Generator's Name and Mailing Address FRANK COLLIS HONEYWELL INTERNATIONAL, INC. 80 PEABODY STREET BUFFALO, NY 14210 Generator's Phone: 716 827-6318		Generator's Site Address (if different than mailing address) SAME							
6. Transporter 1 Company Name PARISO LOGISTICS INC		U.S. EPA ID Number N/A 9A-826-26							
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							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Codes		
		1. NON-REGULATED MATERIAL PER 40 & 49 CFR. (SOIL CONTAMINATED WITH LOW LEVEL ARSENIC <5PPM, BARIUM <0.7 PPM - TCLP)	No.	Type			NONE		
		2.	1	D T	20	T	L		
		3.							
		4.							
14. Special Handling Instructions and Additional Information CONTRACTED BY VESTS: + 1) W:327213 A:CIN327213 VEST:HI32 **(VES-TON:NY2): *(NEED C.O.D'S): **(EMERGENCY RESPONSE#1-877-818-0087:									
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.									
Generator's/Offoror's Printed/Typed Name FRANK COLLIS James J. L...		Signature <i>[Signature]</i>		Month	Day	Year			
				12	10	20			
TRANSPORTER INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit:		Date leaving U.S.:				
	17. Transporter Acknowledgment of Receipt of Shipment		Signature		Month	Day	Year		
	Transporter 1 Printed/Typed Name H... / ...		<i>[Signature]</i>		12	18	18		
	Transporter 2 Printed/Typed Name		Signature						
DESIGNATED FACILITY	18. Discrepancy								
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
	18b. Alternate Facility (or Generator)		Shipping Document Tracking Number:						U.S. EPA ID Number
	Facility's Phone:								
	18c. Signature of Alternate Facility (or Generator)		Signature		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			

SHIPPING DOCUMENT	1. Generator ID Number NYD000632315	2. Page 1 of 1	3. Emergency Response Phone (877) 818-0087	4. Shipping Document Tracking Number ZZ 00441924		
5. Generator's Name and Mailing Address FRANK COLLIS HONEYWELL INTERNATIONAL, INC. 70 PEABODY STREET BUFFALO, NY 14210		Generator's Site Address (if different than mailing address) SAME				
Generator's Phone: 716 827-6318						
6. Transporter 1 Company Name <i>PARISO LOGISTICS INC</i>		U.S. EPA ID Number NA 9A-826-13				
7. Transporter 2 Company Name		U.S. EPA ID Number				
8. Designated Facility Name and Site Address WM OF NEW YORK, LLC 10860 CLEON ROAD CHAFFEE, NY 14030-9799		U.S. EPA ID Number				
Facility's Phone: 716 492-3420		NOT REQ 095				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers	11. Total Quantity	12. Unit Wt./Vol.	13. Codes
		1. NON-REGULATED MATERIAL PER 40 & 49 CFR (SOIL CONTAMINATED WITH LOW LEVEL: ARSENIC <SPPM, BARIUM <0.7 PPM - TCLP)	No. Type	20	T	NONE 1
		2.				
		3.				
		4.				
14. Special Handling Instructions and Additional Information ** (VES-TON-NY); *(NEED C.O.D'S); *(EMERGENCY RESPONSE#1-877-818-0087). CONTRACTED BY VESTS); - 1) W:327213 A:CIN327213 VEST: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.						
Generator's/Offerer's Printed/Typed Name FRANK COLLIS		Signature <i>James J. Collins</i>		Month Day Year 12 18 12		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Shipment						
Transporter 1 Printed/Typed Name <i>PARISO LOGISTICS</i>		Signature <i>[Signature]</i>		Month Day Year 12 18 12		
Transporter 2 Printed/Typed Name		Signature		Month Day Year		
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
18b. Alternate Facility (or Generator) Shipping Document Tracking Number: _____ U.S. EPA ID Number: _____						
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		

X

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY

SHIPPING DOCUMENT		1. Generator ID Number NYD000632315	2. Page 1 of 1	3. Emergency Response Phone (877) 818-0087	4. Shipping Document Tracking Number ZZ 00441925		
5. Generator's Name and Mailing Address FRANK COLLIS 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				
6. Transporter 1 Company Name PARSO LOGISTICS INC				U.S. EPA ID Number N/A 9A-826-12			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address JWM OF NEW YORK, LLC 10860 OLEAN ROAD CHAFFEE NY 14030-9799 Facility's Phone: 716 492-2420				U.S. EPA ID Number NOT REQ 095			
GENERATOR	9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
			No.	Type			
		1. NON-REGULATED MATERIAL PER 40 & 49 CFR. (SOIL CONTAMINATED WITH LOW LEVEL ARSENIC <5PPM, BARIUM <0.7 PPM - TCLP)	1	D T	20	T	13. Codes NONE L
		2.					
		3.					
		4.					
14. Special Handling Instructions and Additional Information ***(VES-TON-NY)**; *(NEED C O D'S). ***(EMERGENCY RESPONSE#1-877-818-0087; CONTRACTED BY VESTS); - 1) W.327213 A:CIN327213 VESI: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.							
Generator's/Officer's Printed/Typed Name FRANK COLLIS		Signature <i>James J. Lis</i>			Month Day Year 12 18 18		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Shipment							
Transporter 1 Printed/Typed Name Adam Ohlson		Signature <i>Adam Ohlson</i>			Month Day Year 12 18 18		
Transporter 2 Printed/Typed Name		Signature			Month Day Year		
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
18b. Alternate Facility (or Generator) Shipping Document Tracking Number: _____ U.S. EPA ID Number _____							
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		

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY

SHIPPING DOCUMENT	1. Generator ID Number NYD000632315	2. Page 1 of 1	3. Emergency Response Phone (877) 818-0087	4. Shipping Document Tracking Number ZZ 00441926				
5. Generator's Name and Mailing Address FRANK COLLIS HONEYWELL INTERNATIONAL, INC. 30 PEABODY STREET BUFFALO, NY 14210 Generator's Phone: 716 827-6318		Generator's Site Address (if different than mailing address) SAME						
6. Transporter 1 Company Name PARISO LOGISTICS INC		U.S. EPA ID Number NA-821-16						
7. Transporter 2 Company Name		U.S. EPA ID Number						
8. Designated Facility Name and Site Address MUM OF NEW YORK, LLC 10860 OLEAN ROAD CHAFFEE, NY 14030-9799 Facility's Phone: 716 492-3420		U.S. EPA ID Number NOT REG 095						
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Codes	
		1. NON-REGULATED MATERIAL PER 40 & 49 CFR (SOIL CONTAMINATED WITH LOW LEVEL ARSENIC <SPPM, BARIUM <0.7 PPM - TCLP)	No.	Type	20	T	NONE	
		2.						
		3.						
		4.						
14. Special Handling Instructions and Additional Information CONTRACTED BY VESTS); *- 1) W:327213 A:CIN327213 VEST;H132 **(VES-TON-NY); *(NEED C.O.D'S); *(EMERGENCY RESPONSE#1-877-818-0087;								
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.								
Generator's/Offerior's Printed/Typed Name FRANK COLLIS		Signature <i>Frank Collis</i>		Month Day Year 12 19 18				
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
17. Transporter Acknowledgment of Receipt of Shipment								
Transporter 1 Printed/Typed Name Jordan White		Signature <i>Jordan White</i>		Month Day Year 12 19 18				
Transporter 2 Printed/Typed Name		Signature		Month Day Year				
18. Discrepancy								
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
18b. Alternate Facility (or Generator) Shipping Document Tracking Number: _____ U.S. EPA ID Number								
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				

TRANSPORTER INT'L

DESIGNATED FACILITY

SHIPPING DOCUMENT	1. Generator ID Number NYD0000632315	2. Page 1 of 1	3. Emergency Response Phone (877) 818-0087	4. Shipping Document Tracking Number ZZ 00441323				
5. Generator's Name and Mailing Address FRANK COLLIS HONEYWELL INTERNATIONAL, INC. 90 PEABODY STREET BUFFALO, NY 14210		Generator's Site Address (if different than mailing address) SAME						
Generator's Phone: 716 827-6318								
6. Transporter 1 Company Name PARSO LOGISTICS INC		U.S. EPA ID Number 9A-926-3						
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		U.S. EPA ID Number						
Facility's Phone: 716 492-3420		NOT REQ 095						
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Codes	
		1. NON-REGULATED MATERIAL PER 40 & 49 CFR (SOIL CONTAMINATED WITH LOW LEVEL: ARSENIC <5PPM, BARIUM <0.7 PPM - TCLP)	No.	Type	10	T	HONE	
		2.					L	
		3.						
		4.						
14. Special Handling Instructions and Additional Information CONTRACTED BY VESTS; *- 1) W:327213 A: CIN327213 VEST; HI32 **(VES-TON, NY2); *(NEED C.O.D'S); **(EMERGENCY RESPONSE#1-877-818-0087;								
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.								
Generator's/Offoror's Printed/Typed Name FRANK COLLIS		Signature James J. Lis		Month		Day		Year
16. International Shipments		<input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit:		Date leaving U.S.:		12/18/15
17. Transporter Acknowledgment of Receipt of Shipment								
Transporter 1 Printed/Typed Name		Signature		Month		Day		Year
Transporter 2 Printed/Typed Name		Signature		Month		Day		Year
18. Discrepancy								
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
18b. Alternate Facility (or Generator) Shipping Document Tracking Number: U.S. EPA ID Number								
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

TRANSPORTER INT'L

DESIGNATED FACILITY

SHIPPING DOCUMENT	1. Generator ID Number NYD000032315	2. Page 1 of 1	3. Emergency Response Phone (877) 618-0087	4. Shipping Document Tracking Number ZZ 00441329				
5. Generator's Name and Mailing Address FRANK COLLIS HONEYWELL INTERNATIONAL, INC. 20 PEABODY STREET BUFFALO, NY 14210		Generator's Site Address (if different than mailing address) SAME						
Generator's Phone: 716 827-6318								
6. Transporter 1 Company Name PARSO LOGISTICS INC		U.S. EPA ID Number NA 9A-526-10						
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 CHAFFER, NY 14030-9799		U.S. EPA ID Number						
Facility's Phone: 716 492-3420		NOT REQ 095						
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers	11. Total Quantity	12. Unit Wt./Vol.	13. Codes	
		1. NON-REGULATED MATERIAL PER 40 & 49 CFR. (SOIL CONTAMINATED WITH LOW LEVEL ARSENIC <5PPM, BARIUM <0.7 PPM - TCLP)		No.	Type			NONE
		2.		1	DT	20	T	L
		3.						
		4.						
14. Special Handling Instructions and Additional Information CONTRACTED BY VESTS; *- 1) W:327213 A:CN327213 VEST;H132 **(VES-TON,NY); *(NEED C.O.D.S); *(EMERGENCY RESPONSE#1-877-618-0087;								
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/picarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.								
Generator's/Offoror's Printed/Typed Name FRANK COLLIS				Signature <i>James J. Lis</i>		Month Day Year 12 18 18		
TRANSPORTER INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
	17. Transporter Acknowledgment of Receipt of Shipment Transporter 1 Printed/Typed Name _____ Signature _____ Month Day Year _____							
	Transporter 2 Printed/Typed Name _____ Signature _____ Month Day Year _____							
DESIGNATED FACILITY	18. Discrepancy							
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
	18b. Alternate Facility (or Generator) Shipping Document Tracking Number: _____ 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 _____		

SHIPPING DOCUMENT	1. Generator ID Number NYD0000632315	2. Page 1 of 1	3. Emergency Response Phone (877) 818-0087	4. Shipping Document Tracking Number ZZ 00441330				
5. Generator's Name and Mailing Address FRANK COLLIS HONEYWELL INTERNATIONAL, INC. 20 PEABODY STREET BUFFALO, NY 14210		Generator's Site Address (if different than mailing address) SAME						
Generator's Phone: 716 827-6318								
6. Transporter 1 Company Name <i>PARISO LOGISTICS INC</i>		U.S. EPA ID Number N/A 9A-526-13						
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		U.S. EPA ID Number						
Facility's Phone: 716 492-3420		NOT REC 095						
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Codes	
		1. NON-REGULATED MATERIAL PER 40 & 49 CFR. (SOIL CONTAMINATED WITH LOW LEVEL: ARSENIC <5PPM. BARIUM <0.7 PPM - TCLP)	No.	Type	20	T	NONE	
		2.						
		3.						
		4.						
14. Special Handling Instructions and Additional Information CONTRACTED BY VESTS: +- 1) W:327213 A:CIN327213 VEST:H132 **(VES-TON,NY); *(NEED C.O.D'S); *(EMERGENCY RESPONSE#) -877-818-0087								
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.								
Generator's/Offeror's Printed/Typed Name FRANK COLLIS		Signature <i>JAMES J. LEE</i>		Month Day Year 12 19 18				
INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit:		Date leaving U.S.:			
	17. Transporter Acknowledgment of Receipt of Shipment		Signature <i>J. KROSHEN</i>		Month Day Year 12-18-18			
TRANSPORTER	Transporter 1 Printed/Typed Name		Signature		Month Day Year			
	Transporter 2 Printed/Typed Name		Signature		Month Day Year			
DESIGNATED FACILITY	18. Discrepancy							
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> 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)		Signature		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				

SHIPPING DOCUMENT		1. Generator ID Number NYD0000632315	2. Page 1 of 1	3. Emergency Response Phone (877) 818-0087	4. Shipping Document Tracking Number ZZ 00441331				
5. Generator's Name and Mailing Address FRANK COLLIS HONEYWELL INTERNATIONAL, INC. 30 PEABODY STREET BUFFALO, NY 14210 Generator's Phone: 716 837-6318			Generator's Site Address (if different than mailing address) SAME						
6. Transporter 1 Company Name PARSON LOGISTICS INC				U.S. EPA ID Number N/A 94-526-12					
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					
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Codes	
		1. NON-REGULATED MATERIAL PER 40 & 49 CFR (SOIL CONTAMINATED WITH LOW LEVEL: ARSENIC <5PPM, BARIUM <0.7 PPM - TCLP)		No.	Type	20	T	NONE	
		2.						L	
		3.							
		4.							
14. Special Handling Instructions and Additional Information ** (VES-TON-NY2); *(NEED C O D'S); ** (EMERGENCY RESPONSE#1-877-818-0087; CONTRACTED BY VESTS); + 1) W:327213 A:CIN327213 VEST: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.									
Generator's/Offeror's Printed/Typed Name FRANK COLLIS James J. Collins				Signature 		Month Day Year 12 18 18			
TRANSPORTER INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
	17. Transporter Acknowledgment of Receipt of Shipment Transporter 1 Printed/Typed Name: Adam Dilsou Signature: _____ Month Day Year: 12 18 18								
	Transporter 2 Printed/Typed Name: _____ Signature: _____ Month Day Year: _____								
DESIGNATED FACILITY	18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Shipping Document Tracking Number: _____								
	18b. Alternate Facility (or Generator) U.S. EPA ID Number: _____								
	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: _____									



Requested Facility: _____ Unsure Profile Number: _____
 Check if there are multiple generator locations. Attach locations. Renewal? Original Profile Number: _____

A. GENERATOR INFORMATION (MATERIAL ORIGIN)
1. Generator Name: Honeywell International
2. Site Address: 20 Peabody Street
(City, State, ZIP) Buffalo, NY
3. County: Erie
4. Contact Name: Frank Collis
5. Email: frank.collis@honeywell.com
6. Phone: 716-827-6325 7. Fax: _____
8. Generator EPA ID: NYD000632315 N/A
9. State ID: _____ N/A

B. BILLING INFORMATION SAME AS GENERATOR
1. Billing Name: Veoha
2. Billing Address: 125 S. 84th Street 175
(City, State, ZIP) Milwaukee, WI 53214
3. Contact Name: _____
4. Email: _____
5. Phone: _____ 6. Fax: _____
7. WM Hauled? Yes No
8. P.O. Number: _____

C. MATERIAL INFORMATION
1. Common Name: soil from site evacuations
Describe Process Generating Material: See Attached
site remediation
2. Material Composition and Contaminants: See Attached

1. <u>soil</u>	<u>100%</u>
2. <u>barium</u>	<u>.7 ppm</u>
3. <u>arsenic</u>	<u>4.99 ppm</u>
4. _____	<u>≥100%</u>

3. State Waste Codes: _____ N/A
4. Color: varies - brown/black
5. Physical State at 70°F: Solid Liquid Other _____
6. Free Liquid Range Percentage _____ to _____ N/A (Solid)
7. pH _____ to _____ N/A (Solid)
8. Strong Odor: Yes No Describe: _____
9. Flash Point: <140°F 140°-199°F ≥200° N/A (Solid)

D. REGULATORY INFORMATION
1. EPA Hazardous Waste? Yes* No
Code: _____
2. State Hazardous Waste? Yes No
Code: _____
3. Excluded waste under 40 CFR 261.4 (a) or (b)? Yes* No
4. Contains Underlying Hazardous Constituents? Yes* No
5. Contains benzene and subject to Benzene NESHAP? Yes* No
6. Facility remediation subject to 40 CFR 63 GGGGG? Yes* No
7. CERCLA or State-mandated clean-up? Yes* No
8. NRC or State-regulated radioactive or NORM waste? Yes* No
***If Yes, see Addendum (page 2) for additional questions and space.**
9. Contains PCBs? → If Yes, answer a, b and c Yes No
a. Regulated by 40 CFR 761? Yes No
b. Remediation Under 40 CFR 761.61 (a)? Yes No
c. Were PCB imported into the US? Yes No
10. Regulated and/or Untreated Medical/Infectious Waste? Yes No
11. Contains Asbestos? Yes: Friable Yes: Non-Friable No

E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION
1. Analytical attached Yes
Please identify applicable samples and/or lab reports:

2. Other information attached (such as MSDS)? Yes

F. SHIPPING AND DOT INFORMATION
1. One-Time Event Repeat Event/Ongoing Business
2. Estimated Quantity/Unit of Measure: 200
 Tons Yards Drums Gallons Other _____
3. Container Type and Size: dump trailers
4. USDOT Proper Shipping Name: _____ N/A

G. GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY SIGNATURE)
By signing this EZ Profile™ form, I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this material, and that all relevant information necessary for precise material characterization and to identify known and suspected hazards has been provided. Any analytical data attached was derived from a sample that is representative as defined in 40 CFR 261 - Appendix 1 or by using an equivalent method. All changes occurring in the character of the material (i.e. changes in the process or new analytical) will be certified by the Generator and be disclosed to Waste Management prior to providing the material to Waste Management.
If I am an agent signing on behalf of the Generator, I have confirmed with the Generator that information contained in this Profile is accurate and complete.
Name (Print): Frank Collis Date: 12/18/18
Title: HSE Manager
Company: Honeywell International

Certification Signature



EZ Profile™ Addendum



Only complete this Addendum if prompted by responses on EZ Profile™ (page 1) or to provide additional information. Sections and question numbers correspond to EZ Profile™.

Profile Number: _____

C. MATERIAL INFORMATION

Describe Process Generating Material (Continued from page 1):

If more space is needed, please attach additional pages.

Material Composition and Contaminants (Continued from page 1):

If more space is needed, please attach additional pages.

5.	
6.	
7.	
8.	
9.	
10.	
	≥ 100%

D. REGULATORY INFORMATION

Only questions with a "Yes" response in Section D on the EZ Profile™ form (page 1) need to be answered here.

1. EPA Hazardous Waste

a. Please list all USEPA listed and characteristic waste code numbers:

- b. Is the material subject to the Alternative Debris standards (40 CFR 268.45)? Yes No
- c. Is the material subject to the Alternative Soil standards (40 CFR 268.49)? → If Yes, complete question 4. Yes No
- d. Is the material exempt from Subpart CC Controls (40 CFR 264.1083 and 265.1084)? Yes No

→ If Yes, please select one of the following:

- Waste has been determined to be LDR exempt [265.1083(c)(4) and 265.1084(c)(4)] based on the fact that it meets all applicable organic treatment standards (including UHCs for D-coded characteristic wastes) or a Specified Technology has been utilized
- Waste does not qualify for a LDR exemption, but the average VOC at the point of origination is <500 ppmw and this determination was based on analytical testing (upload copy of analysis) or generator knowledge.

2. State Hazardous Waste → Please list all state waste codes: _____

3. Excluded Waste → Please select which of the following categories apply to your material:

- Delisted Hazardous Waste Excluded Waste under 40 CFR 261.4 → Specify Exclusion: _____
- Treated Hazardous Waste Debris Treated Characteristic Hazardous Waste → If checked, complete question 4.

4. Underlying Hazardous Constituents → Please list all Underlying Hazardous Constituents:

5. Benzene NESHAP → Please include benzene concentration and percent water/moisture in chemical composition

a. Are you a TSDF? → If yes, please complete Benzene NESHAP questionnaire. If no, continue.

b. What is your facility's current total annual benzene quantity in Megagrams? <1 Mg 1-999 Mg ≥10 Mg

c. Is this waste soil from remediation at a closed facility? Yes No

d. Has material been treated to remove 99% of the benzene or to achieve <10 ppmw? Yes No

e. Is material exempt from controls in accordance with 40 CFR 61.342? Yes No

→ If yes, specify exemption: _____

f. Based on your knowledge of your waste and the BWON regulations, do you believe that this waste stream is subject to treatment and control requirements at an off-site TSDF? Yes No

6. 40 CFR 63 GGGGG → Does the material contain <500 ppw VOHAPs at the point of determination? Yes No

7. CERCLA or State-Mandated clean up → Please submit the Record of Decision or other documentation to assist others in the evaluation for proper disposal.

8. NRC or state regulated radioactive or NORM Waste → Please identify isotopes and pCi/g: _____

THINK GREEN:

QUESTIONS? CALL 800 963 4776 FOR ASSISTANCE

Last Revised June 8, 2012
©2012 Waste Management, Inc.

Collis, Frank

From: Collis, Frank
Sent: Friday, February 9, 2018 4:12 PM
To: 'Emery, Kathleen (DEC)'
Cc: Sikorski, Robert; Cantie, Thomas; Weinheimer, Bruce; Swayze, William D.; Driscoll, Alice R; Lis, James
Subject: Honeywell / Buffalo Research Laboratory - Monthly Progress Report (JAN 2018) to NYSDEC / RCRA Corrective Action Consent Order

To:
Kathleen Horrigan Emery, PE
Division of Environmental Remediation - RCRA
NYSDEC, 270 Michigan Avenue, Buffalo, New York 14203

The purpose of this email is to satisfy the monthly Progress Reporting obligation of the RCRA Corrective Action Consent Order between NYSDEC and Honeywell / Buffalo Research Laboratory (BRL) (as detailed in Exhibit C, item XI, of the Consent Order).

This report is for the month of JANUARY 2018.

- During the reporting period, there were no soil excavations or any other issues regarding the management of soil.

Please advise if you have any questions or if you require any additional information.

Regards,

Frank P. Collis

HSE Manager
Honeywell | Buffalo Research Laboratory | 20 Peabody St. | Buffalo, NY 14210
Office: 716-827-6325 | Cell: 716-957-9158
Email: frank.collis@honeywell.com

Collis, Frank

From: Collis, Frank
Sent: Thursday, March 8, 2018 7:46 PM
To: 'Emery, Kathleen (DEC)'
Cc: Sikorski, Robert; Cantie, Thomas; Weinheimer, Bruce; Swayze, William D.; Driscoll, Alice R; Lis, James
Subject: Honeywell / Buffalo Research Laboratory - Monthly Progress Report (FEB 2018) to NYSDEC / RCRA Corrective Action Consent Order

To:
Kathleen Horrigan Emery, PE
Division of Materials Management
NYSDEC, 270 Michigan Avenue, Buffalo, New York 14203

The purpose of this email is to satisfy the monthly Progress Reporting obligation of the RCRA Corrective Action Consent Order between NYSDEC and Honeywell / Buffalo Research Laboratory (BRL) (as detailed in Exhibit C, item XI, of the Consent Order).

This report is for the month of FEBRUARY 2018.

- During the reporting period, there were no outside soil excavations or any other issues regarding the management of soil.
- A small amount of soil has been excavated inside Building 516 (Process Development) to expose a sewer pipe under the R-11 hood system (which is being rebuilt); the soil will be returned to the excavation once the pipe is replaced.

Please advise if you have any questions or if you require any additional information.

Regards,

Frank P. Collis

HSE Manager
Honeywell | Buffalo Research Laboratory | 20 Peabody St. | Buffalo, NY 14210
Office: 716-827-6325 | Cell: 716-957-9158
Email: frank.collis@honeywell.com

Collis, Frank

From: Collis, Frank
Sent: Tuesday, April 10, 2018 5:12 PM
To: 'Emery, Kathleen (DEC)'
Cc: Sikorski, Robert; Cantie, Thomas; Weinheimer, Bruce; Swayze, William D.; Driscoll, Alice R; Lis, James
Subject: Honeywell / Buffalo Research Laboratory - Monthly Progress Report (MAR 2018) to NYSDEC / RCRA Corrective Action Consent Order

To:
Kathleen Horrigan Emery, PE
Division of Materials Management
NYSDEC, 270 Michigan Avenue, Buffalo, New York 14203

The purpose of this email is to satisfy the monthly Progress Reporting obligation of the RCRA Corrective Action Consent Order between NYSDEC and Honeywell / Buffalo Research Laboratory (BRL) (as detailed in Exhibit C, item XI, of the Consent Order).

This report is for the month of MARCH 2018.

- During the reporting period, there were no outside soil excavations or any other issues regarding the management of soil.
- The 1Q2018 Site Soil Inspection was performed on 26 MAR 2018.

Please advise if you have any questions or if you require any additional information.

Regards,

Frank P. Collis

HSE Manager
Honeywell | Buffalo Research Laboratory | 20 Peabody St. | Buffalo, NY 14210
Office: 716-827-6325 | Cell: 716-957-9158
Email: frank.collis@honeywell.com

Collis, Frank

From: Collis, Frank
Sent: Thursday, May 10, 2018 6:50 AM
To: Emery, Kathleen (DEC)
Cc: Sikorski, Robert; Cantie, Thomas; Weinheimer, Bruce; Swayze, William D.; Driscoll, Alice R; Lis, James
Subject: Honeywell / Buffalo Research Laboratory - Monthly Progress Report (APR 2018) to NYSDEC / RCRA Corrective Action Consent Order

To:
Kathleen Horrigan Emery, PE
Division of Materials Management
NYSDEC, 270 Michigan Avenue, Buffalo, New York 14203

The purpose of this email is to satisfy the monthly Progress Reporting obligation of the RCRA Corrective Action Consent Order between NYSDEC and Honeywell / Buffalo Research Laboratory (BRL) (as detailed in Exhibit C, item XI, of the Consent Order).

This report is for the month of APRIL 2018.

- During the reporting period, there were no soil excavations or any other issues regarding the management of soil.
- Portions of the lawn around the facility that were damaged by snow plowing activities this winter have been repaired by BRL's landscaping contractor.

Please advise if you have any questions or if you require any additional information.

Regards,

Frank P. Collis
HSE Manager
Honeywell | Buffalo Research Laboratory | 20 Peabody St. | Buffalo, NY 14210
Office: 716-827-6325 | Cell: 716-957-9158
Email: frank.collis@honeywell.com

Collis, Frank

From: Collis, Frank
Sent: Sunday, June 10, 2018 11:21 PM
To: 'Emery, Kathleen (DEC)'
Cc: Sikorski, Robert; Cantie, Thomas; Weinheimer, Bruce; Swayze, William D.; Driscoll, Alice R; Lis, James
Subject: Honeywell / Buffalo Research Laboratory - Monthly Progress Report (MAY 2018) to NYSDEC / RCRA Corrective Action Consent Order

To:
Kathleen Horrigan Emery, PE
Division of Materials Management
NYSDEC, 270 Michigan Avenue, Buffalo, New York 14203

The purpose of this email is to satisfy the monthly Progress Reporting obligation of the RCRA Corrective Action Consent Order between NYSDEC and Honeywell / Buffalo Research Laboratory (BRL) (as detailed in Exhibit C, item XI, of the Consent Order).

This report is for the month of MAY 2018.

- During the reporting period, there were no soil excavations or any other issues regarding the management of soil.

Please advise if you have any questions or if you require any additional information.

Regards,

Frank P. Collis
HSE Manager
Honeywell | Buffalo Research Laboratory | 20 Peabody St. | Buffalo, NY 14210
Office: 716-827-6325 | Cell: 716-957-9158
Email: frank.collis@honeywell.com

Collis, Frank

From: Collis, Frank
Sent: Friday, July 6, 2018 4:50 PM
To: 'Emery, Kathleen (DEC)'
Cc: Sikorski, Robert; Cantie, Thomas; Weinheimer, Bruce; Swayze, William D.; Lis, James
Subject: Honeywell / Buffalo Research Laboratory - Monthly Progress Report (JUNE 2018) to NYSDEC / RCRA Corrective Action Consent Order

To:
Kathleen Horrigan Emery, PE
Division of Materials Management
NYSDEC, 270 Michigan Avenue, Buffalo, New York 14203

The purpose of this email is to satisfy the monthly Progress Reporting obligation of the RCRA Corrective Action Consent Order between NYSDEC and Honeywell / Buffalo Research Laboratory (BRL) (as detailed in Exhibit C, item XI, of the Consent Order).

This report is for the month of JUNE 2018.

- During the reporting period, there were no soil excavations or any other issues regarding the management of soil.
- Dan Chamberland from Parsons Corporation performed the annual groundwater sampling and well inspections at BRL on 26 JUN 2018. Eric Felter from Parsons will analyze the data and submit a report to NYSDEC.
- The 2Q2018 Site Soil Inspection was performed on 26 JUN 2018.

Please advise if you have any questions or if you require any additional information.

Regards,

Frank P. Collis
HSE Manager
Honeywell | Buffalo Research Laboratory | 20 Peabody St. | Buffalo, NY 14210
Office: 716-827-6325 | Cell: 716-957-9158
Email: frank.collis@honeywell.com

Collis, Frank

From: Collis, Frank
Sent: Thursday, August 9, 2018 7:06 PM
To: 'Emery, Kathleen (DEC)'
Cc: Sikorski, Robert; Cantie, Thomas; Weinheimer, Bruce; Swayze, William D.; Lis, James
Subject: Honeywell / Buffalo Research Laboratory - Monthly Progress Report (JULY 2018) to NYSDEC / RCRA Corrective Action Consent Order

To:
Kathleen Horrigan Emery, PE
Division of Materials Management
NYSDEC, 270 Michigan Avenue, Buffalo, New York 14203

The purpose of this email is to satisfy the monthly Progress Reporting obligation of the RCRA Corrective Action Consent Order between NYSDEC and Honeywell / Buffalo Research Laboratory (BRL) (as detailed in Exhibit C, item XI, of the Consent Order).

This report is for the month of JULY 2018.

- During the reporting period, there were no soil excavations or any other issues regarding the management of soil.
- Dan Chamberland from Parsons Corporation performed the annual groundwater sampling and well inspections at BRL on 26 JUN 2018. Eric Felter from Parsons is finalizing the report and will be submitting it to NYSDEC in the near future.

Please advise if you have any questions or if you require any additional information.

Regards,

Frank P. Collis
HSE Manager
Honeywell | Buffalo Research Laboratory | 20 Peabody St. | Buffalo, NY 14210
Office: 716-827-6325 | Cell: 716-957-9158
Email: frank.collis@honeywell.com

Collis, Frank

From: Collis, Frank
Sent: Monday, September 10, 2018 11:51 PM
To: 'Emery, Kathleen (DEC)'
Cc: Sikorski, Robert; Cantie, Thomas; Weinheimer, Bruce; Swayze, William D.; Lis, James
Subject: Honeywell / Buffalo Research Laboratory - Monthly Progress Report (AUGUST 2018) to NYSDEC / RCRA Corrective Action Consent Order

To:
Kathleen Horrigan Emery, PE
Division of Materials Management
NYSDEC, 270 Michigan Avenue, Buffalo, New York 14203

The purpose of this email is to satisfy the monthly Progress Reporting obligation of the RCRA Corrective Action Consent Order between NYSDEC and Honeywell / Buffalo Research Laboratory (BRL) (as detailed in Exhibit C, item XI, of the Consent Order).

This report is for the month of AUGUST 2018.

- During the reporting period, there were no soil excavations or any other issues regarding the management of soil.

Please advise if you have any questions or if you require any additional information.

Regards,

Frank P. Collis
HSE Manager
Honeywell | Buffalo Research Laboratory | 20 Peabody St. | Buffalo, NY 14210
Office: 716-827-6325 | Cell: 716-957-9158
Email: frank.collis@honeywell.com

Collis, Frank

From: Collis, Frank
Sent: Wednesday, October 10, 2018 8:12 PM
To: 'Emery, Kathleen (DEC)'
Subject: FW: Honeywell / Buffalo Research Laboratory - Monthly Progress Report (SEPTEMBER 2018) to NYSDEC / RCRA Corrective Action Consent Order
Attachments: RE: [External] RE: Concrete sidewalk repair work at Honeywell / Buffalo Research Laboratory; Email, Parsons Proposal to fix MW-9 (30 JUL 2018).pdf; HWBRL18P01r01-out.pdf

Resending, also attaching Parson's proposal document

From: Collis, Frank
Sent: Wednesday, October 10, 2018 8:08 PM
To: 'Emery, Kathleen (DEC)' <kathleen.emery@dec.ny.gov>
Cc: Sikorski, Robert <Bob.Sikorski@Honeywell.com>; Cantie, Thomas <Thomas.Cantie@Honeywell.com>; Weinheimer, Bruce <Bruce.Weinheimer@Honeywell.com>; Swayze, William D. <william.swayze@honeywell.com>; Lis, James <James.Lis@Honeywell.com>
Subject: Honeywell / Buffalo Research Laboratory - Monthly Progress Report (SEPTEMBER 2018) to NYSDEC / RCRA Corrective Action Consent Order

To:
Kathleen Horrigan Emery, PE
Division of Materials Management
NYSDEC, 270 Michigan Avenue, Buffalo, New York 14203

The purpose of this email is to satisfy the monthly Progress Reporting obligation of the RCRA Corrective Action Consent Order between NYSDEC and Honeywell / Buffalo Research Laboratory (BRL) (as detailed in Exhibit C, item XI, of the Consent Order).

This report is for the month of SEPTEMBER 2018.

- During the reporting period, there was a sidewalk repair project at BRL that resulted in excavated soil. See the attached email for a discussion of this project. In lieu of seeking NYSDEC approval to have BRL's contractor manage this soil off-site (or alternatively, in lieu of disposing of this soil at Waste Management's Chaffee Landfill), BRL decided to spread this soil in an open lawn area on the north side of the facility and establish a lawn cover.
- Parsons will repair Monitoring Well #9 (as per the attached Proposal) on THU, 11 OCT 2018.

Please advise if you have any questions or if you require any additional information.

Regards,

Frank P. Collis
HSE Manager
Honeywell | Buffalo Research Laboratory | 20 Peabody St. | Buffalo, NY 14210
Office: 716-827-6325 | Cell: 716-957-9158
Email: frank.collis@honeywell.com

Collis, Frank

From: Emery, Kathleen (DEC) <kathleen.emery@dec.ny.gov>
Sent: Friday, September 28, 2018 10:11 AM
To: Collis, Frank
Cc: Cantie, Thomas; Weinheimer, Bruce; Lis, James; Swayze, William D.
Subject: RE: [External] RE: Concrete sidewalk repair work at Honeywell / Buffalo Research Laboratory

Good Morning Frank-

In the Excavation Work Plan of the SMP (Appendix C, page 12) it states at bottom of page: "Nonhazardous historic fill and contaminated soils taken off-site will be handled, at minimum, as a municipal solid waste..." at mid-page it states that "If disposal of soil/fill from this Site is proposed for unregulated off-Site disposal (ie. clean soil removed for development purposes) a formal request with an associated plan will be made to the NYSDEC." I checked with Chad Stanizewski here in the office and he added that "They would need to sample for the full list TCL SVOCs, TCL VOCs, PCBs, TAL Metals, pest/herbs. The sampling would need to be performed by a qualified environmental professional and a NYS ELAP lab."

So the bottom line is that soil excavated at Honeywell can be used on-site (if below 24ppm), taken off-site for proper disposal, or taken off-site for further use only if granted permission by DEC after extensive testing and formal request is made to us.

Reminder: documentation regarding off-site disposal needs to be maintained at Honeywell, and quantity of soil/disposal site must be included in the Honeywell's annual 'Periodic Review Report' (Appendix C, page 12).

Thanks
-Kate

Kathleen Horrigan Emery, P.E.
Environmental Engineer 2, Division of Environmental Remediation

New York State Department of Environmental Conservation
270 Michigan Ave., Buffalo, NY 14203
P 716-851-7220 | F 716-851-7226 | kathleen.emery@dec.ny.gov
www.dec.ny.gov

From: Collis, Frank [mailto:Frank.Collis@Honeywell.com]
Sent: Thursday, September 27, 2018 11:52 AM
To: Emery, Kathleen (DEC) <kathleen.emery@dec.ny.gov>
Cc: Cantie, Thomas <Thomas.Cantie@Honeywell.com>; Weinheimer, Bruce <Bruce.Weinheimer@Honeywell.com>; Lis, James <James.Lis@Honeywell.com>; Swayze, William D. <william.swayze@honeywell.com>
Subject: RE: [External] RE: Concrete sidewalk repair work at Honeywell / Buffalo Research Laboratory

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Kate,
If Occhino Paving picks up the soil, they would use the soil as general fill, wherever it was needed with their paving projects.

If this will be an issue, Honeywell can spread the soil here at BRL (or we can complete a Waste Management profile and ship the soil to WM's Chaffee Landfill).

Let us know what is preferred.

Thanks!
Regards,
Frank

From: Emery, Kathleen (DEC) [<mailto:kathleen.emery@dec.ny.gov>]
Sent: Thursday, September 27, 2018 9:34 AM
To: Collis, Frank <Frank.Collis@Honeywell.com>
Subject: RE: [External] RE: Concrete sidewalk repair work at Honeywell / Buffalo Research Laboratory

Thanks for the information Frank.

Can you let me know proposed destination for the soil?

From: Collis, Frank [<mailto:Frank.Collis@Honeywell.com>]
Sent: Tuesday, September 25, 2018 7:29 PM
To: Emery, Kathleen (DEC) <kathleen.emery@dec.ny.gov>
Cc: Sikorski, Robert <Bob.Sikorski@Honeywell.com>; Cantie, Thomas <Thomas.Cantie@Honeywell.com>; Weinheimer, Bruce <Bruce.Weinheimer@Honeywell.com>; Lis, James <James.Lis@Honeywell.com>; Swayze, William D. <william.swayze@honeywell.com>
Subject: RE: [External] RE: Concrete sidewalk repair work at Honeywell / Buffalo Research Laboratory

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Kate,
The excavation of soil associated with the sidewalk work at BRL is complete. Several pictures show the expanded sidewalks.





The excavated soil was staged on and covered with a 15-mil plastic tarp (as shown in the picture below).



Alpha Analytical sampled the excavated soil on 14 SEP 2018. Alpha's analytical report is attached. In addition to total Arsenic, TCLP metals and volatiles analyses were performed.

Excerpting from Alpha's analytical report:
 Total Arsenic is 10.2 mg/kg (ppm)

Serial_No:09251816:04											
Project Name:	COMP. SOIL SAMPLE (SIDEWALK)					Lab Number:	L1836573				
Project Number:	Not Specified					Report Date:	09/25/18				
SAMPLE RESULTS											
Lab ID:	L1836573-01					Date Collected:	09/14/18 11:30				
Client ID:	SOIL COMPOSITE					Date Received:	09/14/18				
Sample Location:	BUFFALO, NY					Field Prep:	Not Specified				
Sample Depth:											
Matrix:	Soil										
Percent Solids:	87%										
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	10.2		mg/kg	0.458	--	1	09/24/18 15:23	09/24/18 23:41	EPA 3050B	1,6010D	AB

All TCLP Volatiles and Metals are NOT DETECTED.

Project Name: COMP. SOIL SAMPLE (SIDEWALK)

Lab Number: L1836573

Project Number: Not Specified

Report Date: 09/25/18

SAMPLE RESULTS

Lab ID: L1836573-01

Date Collected: 09/14/18 11:30

Client ID: SOIL COMPOSITE

Date Received: 09/14/18

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 09/19/18 08:49

Analyst: MM

Percent Solids: 87%

TCLP/SPLP Ext. Date: 09/17/18 13:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

TCLP Volatiles by EPA 1311 - Westborough Lab

Chloroform	ND		ug/l	7.5	--	10
Carbon tetrachloride	ND		ug/l	5.0	--	10
Tetrachloroethene	ND		ug/l	5.0	--	10
Chlorobenzene	ND		ug/l	5.0	--	10
1,2-Dichloroethane	ND		ug/l	5.0	--	10
Benzene	ND		ug/l	5.0	--	10
Vinyl chloride	ND		ug/l	10	--	10
1,1-Dichloroethene	ND		ug/l	5.0	--	10
Trichloroethene	ND		ug/l	5.0	--	10
1,4-Dichlorobenzene	ND		ug/l	25	--	10
2-Butanone	ND		ug/l	50	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	125		70-130
dibromofluoromethane	100		70-130

Project Name: COMP. SOIL SAMPLE (SIDEWALK)
Project Number: Not Specified

Lab Number: L1836573
Report Date: 09/25/18

SAMPLE RESULTS

Lab ID: L1836573-01
Client ID: SOIL COMPOSITE
Sample Location: BUFFALO, NY

Date Collected: 09/14/18 11:30
Date Received: 09/14/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 87%

TCLP/SPLP Ext. Date: 09/16/18 22:29

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	ND		mg/l	1.00	--	1	09/18/18 08:47	09/18/18 16:33	EPA 3015	1,6010D	LC
Barium, TCLP	ND		mg/l	0.500	--	1	09/18/18 08:47	09/18/18 16:33	EPA 3015	1,6010D	LC
Cadmium, TCLP	ND		mg/l	0.100	--	1	09/18/18 08:47	09/18/18 16:33	EPA 3015	1,6010D	LC
Chromium, TCLP	ND		mg/l	0.200	--	1	09/18/18 08:47	09/18/18 16:33	EPA 3015	1,6010D	LC
Lead, TCLP	ND		mg/l	0.500	--	1	09/18/18 08:47	09/18/18 16:33	EPA 3015	1,6010D	LC
Mercury, TCLP	ND		mg/l	0.0010	--	1	09/18/18 16:20	09/18/18 21:10	EPA 7470A	1,7470A	EA
Selenium, TCLP	ND		mg/l	0.500	--	1	09/18/18 08:47	09/18/18 16:33	EPA 3015	1,6010D	LC
Silver, TCLP	ND		mg/l	0.100	--	1	09/18/18 08:47	09/18/18 16:33	EPA 3015	1,6010D	LC

Test results show the Arsenic concentration of the excavated soil is below any regulatory limit.

May Honeywell's contractor (Occhino Paving) remove and dispose of the excavated soil?

Regards,
Frank

Frank P. Collis
HSE Manager
Honeywell | Buffalo Research Laboratory | 20 Peabody St. | Buffalo, NY 14210
Office: 716-827-6325 | Cell: 716-957-9158
Email: frank.collis@honeywell.com

From: Emery, Kathleen (DEC) [<mailto:kathleen.emery@dec.ny.gov>]
Sent: Tuesday, September 4, 2018 2:20 PM
To: Collis, Frank <Frank.Collis@Honeywell.com>
Subject: [External] RE: Concrete sidewalk repair work at Honeywell / Buffalo Research Laboratory

Thank for the information Frank.

Reminder - I believe we corresponded about this last July after you supplied information on 7/28/18 about planned subsurface work....the soil to be included in 'pile' from which grab samples/composite sample is taken needs to include that soil found immediately below 'cover'(concrete, grass, etc) to 2ft below 'cover'. The 7/28/17 email indicated "...we have to sample the soil in a layer between 0.5 and 2.0 feet deep and analyze for total Arsenic..." but the SMP states (page A-5) that sampling horizons be not less than 0.5' thick and no more than 2'; the top .5' should not be

excluded from potentially being included in composite sample. Also, note that the composite sample should consist of grab samples collected at four locations (page A-7).

Thanks again.

-Kate

From: Collis, Frank [<mailto:Frank.Collis@Honeywell.com>]

Sent: Tuesday, September 04, 2018 1:07 PM

To: Emery, Kathleen (DEC) <kathleen.emery@dec.ny.gov>

Cc: Sikorski, Robert <Bob.Sikorski@Honeywell.com>; Cantie, Thomas <Thomas.Cantie@Honeywell.com>; Lis, James <James.Lis@Honeywell.com>; Swayze, William D. <william.swayze@honeywell.com>; Vinson, Michelle <michelle.vinson@veolia.com>; David D'Angelo <david.dangelo@veolia.com>

Subject: Concrete sidewalk repair work at Honeywell / Buffalo Research Laboratory

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Kate,
Buffalo Research Laboratory's (BRL's) Site Operations Department is having a contractor (Huber Construction) repair and widen the concrete sidewalks within BRL; the concrete at the BRL's main front entrance (Building 511) will also be repaired.

The concrete sidewalk areas are high-lighted in yellow in the picture below (ignore the perimeter outline, which is also high-lighted in a brighter shade of yellow).

An estimated 600 feet of sidewalk will be affected. The widening of the sidewalks will necessitate some excavation of soil adjacent to the existing sidewalks (an estimated 20-to-25 cubic yards of soil will be removed, to be backfilled with crushed rock and newly poured concrete).

The excavated soil (removed near the sidewalks for widening) will be staged either on a plastic tarp (10-mil or greater thickness) and covered, or placed in one or more roll-off containers. A composite soil sample will be obtained (by Alpha Analytical) and analyzed for Total Arsenic (for the purposes of BRL's Site Management Plan) and a complete TCLP analysis (which will be required the disposal facility -- most-likely Waste Management's Chafee Landfill)

Please let us know if you have any questions.

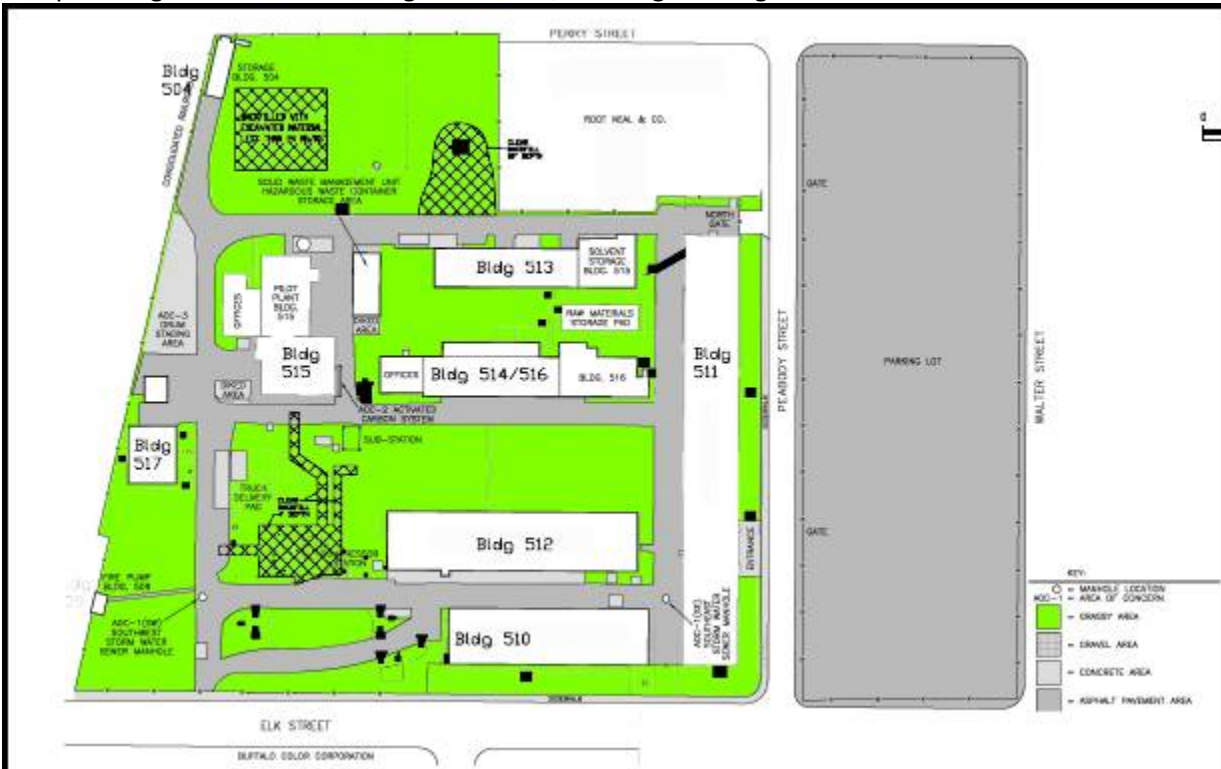
Thanks!

Regards,

Frank



Plot plan diagram from Site Management Plan, showing Building numbers:



Frank P. Collis
HSE Manager
Honeywell | Buffalo Research Laboratory | 20 Peabody St. | Buffalo, NY 14210
Office: 716-827-6325 | Cell: 716-957-9158
Email: frank.collis@honeywell.com

Collis, Frank

From: Felter, Eric <Eric.Felter@parsons.com>
Sent: Monday, July 30, 2018 12:07 PM
To: Collis, Frank
Cc: Raybuck, Mark
Subject: [External] 2018 Well Repair proposal
Attachments: HWBRL18P01r01-out.pdf

Frank,

Please find attached a proposal to complete the repairs to groundwater monitoring well MW-9.

Please feel free to call or email if you have any questions on the proposal.

Thanks,

Eric

Eric A. Felter
Principal Geologist/Project Manager
[PARSONS](#)
40 LaRiviere Drive, Suite 350
Buffalo, NY 14202
(716) 525-3425
Eric.Felter@Parsons.com
www.Parsons.com
fax: (716) 541-0760

NOTICE: This email message and all attachments transmitted with it may contain privileged and confidential information, and information that is protected by, and proprietary to, Parsons Corporation, and is intended solely for the use of the addressee for the specific purpose set forth in this communication. If the reader of this message is not the intended recipient, you are hereby notified that any reading, dissemination, distribution, copying, or other use of this message or its attachments is strictly prohibited, and you should delete this message and all copies and backups thereof. The recipient may not further distribute or use any of the information contained herein without the express written authorization of the sender. If you have received this message in error, or if you have any questions regarding the use of the proprietary information contained therein, please contact the sender of this message immediately, and the sender will provide you with further instructions.

July 30, 2018

Mr. Frank P. Collis
HS&E Coordinator
Honeywell Specialty Materials
20 Peabody Street
Buffalo, New York 14210

RE: Well Repair at MW-9
Honeywell Research Facility, Buffalo, New York

Dear Mr. Collis:

Parsons is pleased to present this proposal to complete repairs to MW-9 for the Honeywell Specialty Chemicals Research Facility (facility) in Buffalo, New York.

The Scope of Services is summarized below. The estimated cost for these services is \$2,441, as shown on attached Tables 1 through 3. Parsons will conduct the work on this assignment on a Time-and-Materials basis in accordance with the Master Environmental Services Agreement between Parsons Environment & Infrastructure Group Inc. (“PEI”), Parsons Engineering of New York, Inc. (“PNY”) and Honeywell International Inc. (“Honeywell”) dated June 1, 2016. Consistent with the MSA, our labor multiplier is 2.21 plus a fee of 10%, and a 4.0% markup on materials and subcontracts. Payment terms are net 120 days.

Please submit the purchase order to the attention of Eric A. Felter – Project Manager at:

Parsons
40 La Riviere Drive, Suite 350
Buffalo, NY 14202
Eric.Felter@Parsons.com

Payment of approved invoices should be sent to:

Parsons Environment & Infrastructure
PO Box 88964
Chicago, IL 60695-1964

SCOPE OF WORK

During the 2018 annual well inspections, the flush-mounted well MW-9 was found to have its top sheared off, presumably during snow plowing. The material around the well, including asphalt, concrete, and soil will be removed. The existing broken flush-mount assembly will also be removed. A new flush-mount well assembly will be installed and concreted in place. A photograph will be taken when repairs are completed and provided to the NYSDEC as confirmation to them of the repair.

SCHEDULE

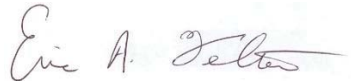
The monitoring well repair is anticipated to require one day at the facility. Correspondence documenting the completed repair will be provided to NYSDEC within ten days after completion.

PARSONS

Mr. Frank P. Collis
Honeywell Specialty Chemicals
July 30, 2018
Page 2

Parsons appreciates the opportunity to be of continued service to Honeywell, and we look forward to working with you on this project. If you have any questions, please call Eric A. Felter at (716) 525-3425.

Very truly yours,



Eric A. Felter
Project Manager



Mark S. Raybuck for
Jim O'Loughlin
National Program Manager

TABLE 1
Honeywell Specialty Chemicals 2018
SUMMARY OF COSTS

WBS	Description	Total Labor Hours	Subtotal Labor Estimate	Travel	Materials and Subcontractors	Estimated Total
	Task					
	June 1, 2016 MSA					
01000	2018 MW-9 Repair	26	\$ 1,993	75 \$	372 \$	\$ 2,441
	Total	26	\$ 1,993	75 \$	372 \$	\$2,441

**TABLE 3
OTHER DIRECT COSTS**

Honeywell Specialty Chemicals 2018

		Personal Vehicle	Car Rental	Subcontractors	Materials and Rentals	4% Markup On Subcontractors & Materials/Rentals	Total ODC Estimate
		\$0.505					
		per mile					
WBS Task							
	June 1, 2016 MSA						
01000	2018 MW-9 Repair	\$0.00	\$75.00	\$0.00	\$358.00	\$14.32	\$447.32
	Total Dollars	\$0.00	\$75.00	\$0.00	\$358.00	\$0.00	\$447.32

Collis, Frank

From: Collis, Frank
Sent: Tuesday, November 27, 2018 2:39 PM
To: 'Emery, Kathleen (DEC)'
Cc: Lis, James
Subject: RE: [External] RE: Honeywell / Buffalo Research Laboratory - Monthly Progress Report (OCTOBER 2018) to NYSDEC / RCRA Corrective Action Consent Order

Kate,

The excavation for BRL's new North gate (Perry Street) started on 06 NOV 2018, so I will include a discussion of this project in the DEC 2018 report. Also, the Peabody Street catch basin excavation started on 14 NOV 2018; a small amount of soil was generated from this catch basin project.

On 20 NOV 2018, a technician from Alpha Analytical took 3 separate composite samples:

- Soil from past excavations (that was acceptable for reuse on-site)
- Soil from the new Perry Street gate project
- Soil from the Peabody Street Catch Basin

Each sample will be analyzed for total arsenic, TCLP Metals and TCLP Volatiles. Assuming all analyses show the soil is non-hazardous waste, the plan is to send the soil to Waste Management's Chaffee Landfill (will be coordinated by Veolia).

I'll discuss this in more detail in our DEC 2018 report.

Regarding the revised SMP, on 03 JUL 2018, I had forwarded your comments with a marked -up copy of the re-drafted SMP to GHD. Your question made me realize that I had not yet heard back from GHD. I spoke with Chris Andrews at GHD this morning; he will contact me by the end of the week (30 NOV 2018) and provide a schedule for making the necessary revisions. I will keep you in the loop.

Regards,
Frank

Frank P. Collis
HSE Manager
Honeywell | Buffalo Research Laboratory | 20 Peabody St. | Buffalo, NY 14210
Office: 716-827-6325 | Cell: 716-957-9158
Email: frank.collis@honeywell.com

From: Emery, Kathleen (DEC) [mailto:kathleen.emery@dec.ny.gov]
Sent: Monday, November 26, 2018 4:46 PM
To: Collis, Frank <Frank.Collis@Honeywell.com>
Subject: [External] RE: Honeywell / Buffalo Research Laboratory - Monthly Progress Report (OCTOBER 2018) to NYSDEC / RCRA Corrective Action Consent Order

Hi Frank-

Thanks for the October update. Should this also include the info re: excavation for the new north gate or will that be included in November update?

I am trying to recall where we stand with revised SMP. We sent comments in Dec. 2017 and I don't believe that we have rec'd a response since then. Can you update me re: this.

Thanks

-Kate

From: Collis, Frank [<mailto:Frank.Collis@Honeywell.com>]

Sent: Saturday, November 10, 2018 7:46 PM

To: Emery, Kathleen (DEC) <kathleen.emery@dec.ny.gov>

Cc: Sikorski, Robert <Bob.Sikorski@Honeywell.com>; Cantie, Thomas <Thomas.Cantie@Honeywell.com>; Weinheimer, Bruce <Bruce.Weinheimer@Honeywell.com>; Swayze, William D. <william.swayze@honeywell.com>; Lis, James <James.Lis@Honeywell.com>

Subject: Honeywell / Buffalo Research Laboratory - Monthly Progress Report (OCTOBER 2018) to NYSDEC / RCRA Corrective Action Consent Order

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

To:

Kathleen Horrigan Emery, PE

Division of Materials Management

NYSDEC, 270 Michigan Avenue, Buffalo, New York 14203

The purpose of this email is to satisfy the monthly Progress Reporting obligation of the RCRA Corrective Action Consent Order between NYSDEC and Honeywell / Buffalo Research Laboratory (BRL) (as detailed in Exhibit C, item XI, of the Consent Order).

This report is for the month of OCTOBER 2018.

- During the reporting period, there were no soil excavations or any other issues regarding the management of soil.
- As previously discussed in the SEPTEMBER 2018 report, Parsons repaired Monitoring Well #9 on THU, 11 OCT 2018.

Picture of MW #9, taken on 12 OCT 2018:



Please advise if you have any questions or if you require any additional information.

Regards,

Frank P. Collis
HSE Manager
Honeywell | Buffalo Research Laboratory | 20 Peabody St. | Buffalo, NY 14210
Office: 716-827-6325 | Cell: 716-957-9158
Email: frank.collis@honeywell.com

Collis, Frank

From: Collis, Frank
Sent: Monday, December 10, 2018 11:35 PM
To: 'Emery, Kathleen (DEC)'
Cc: Sikorski, Robert; Driscoll, Alice R; Cantie, Thomas; Weinheimer, Bruce; Swayze, William D.; Lis, James
Subject: Honeywell / Buffalo Research Laboratory - Monthly Progress Report (NOVEMBER 2018) to NYSDEC / RCRA Corrective Action Consent Order
Attachments: RE: [External] RE: Soil excavation at Honeywell / Buffalo Research Laboratory - Installation of new truck gate; RE: [External] RE: Soil excavation at Honeywell / Buffalo Research Laboratory - Installation of new truck gate / Repair of Stormwater Receiver; Honeywell BRL, Soil Sampling Results (DEC 2018) (Alpha L1847664).pdf

To:

Kathleen Horrigan Emery, PE
Division of Materials Management
NYSDEC, 270 Michigan Avenue, Buffalo, New York 14203

The purpose of this email is to satisfy the monthly Progress Reporting obligation of the RCRA Corrective Action Consent Order between NYSDEC and Honeywell / Buffalo Research Laboratory (BRL) (as detailed in Exhibit C, item XI, of the Consent Order).

This report is for the month of NOVEMBER 2018.

- In November 2018, there were two excavation projects at BRL:
 - [1] The excavation for BRL's new North gate (Perry Street) started on 06 NOV 2018. (see attached email correspondence, dated 08 NOV 2018, RE: Soil excavation at Honeywell / Buffalo Research Laboratory - Installation of new truck gate)
 - [2] The Peabody Street catch basin excavation started on 14 NOV 2018; a small amount of soil was generated from this catch basin project. (See attached email correspondence, dated 08 NOV 2018, RE: Soil excavation at Honeywell / Buffalo Research Laboratory - Installation of new truck gate / Repair of Stormwater Receiver).

On 20 NOV 2018, a technician from Alpha Analytical took 3 separate composite soil samples:

- Soil from past excavations (that was acceptable for reuse on-site)
- Soil from the new Perry Street gate project
- Soil from the Peabody Street Catch Basin

The analytical report from these soil samples is attached:

						Serial_No:12031818:
Project Name:	SOIL SAMPLING				Lab Number:	L184766
Project Number:	Not Specified				Report Date:	12/03/18
Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive	
L1847664-01	PERRY ST. GATE	SOIL	BUFFALO, NY	11/20/18 13:45	11/20/18	
L1847664-02	PAST EXCAVATIONS	SOIL	BUFFALO, NY	11/20/18 13:50	11/20/18	
L1847664-03	PEABODY ST. CATCH BASIN	SOIL	BUFFALO, NY	11/20/18 13:55	11/20/18	

- The TCLP Organics in all 3 samples are None Detected (ND).
 - All TCLP Metals (and total Arsenic) analyses show the soil is non-hazardous.
 - BRL is working with Veolia Environmental to profile this soil for disposal at Waste Management's Chaffee Landfill.
-
- GHD is working on the revisions to BRL's Site Management Plan; a final draft should be available for transmittal to NYSDEC by 19 DEC 2018.

Regards,
Frank

Frank P. Collis
HSE Manager
Honeywell | Buffalo Research Laboratory | 20 Peabody St. | Buffalo, NY 14210
Office: 716-827-6325 | Cell: 716-957-9158
Email: frank.collis@honeywell.com

Collis, Frank

From: Collis, Frank
Sent: Thursday, January 10, 2019 5:27 PM
To: 'Emery, Kathleen (DEC)'
Cc: Sikorski, Robert; Driscoll, Alice R; Cantie, Thomas; Weinheimer, Bruce; Swayze, William D.; Lis, James
Subject: Honeywell / Buffalo Research Laboratory - Monthly Progress Report (DECEMBER 2018) to NYSDEC / RCRA Corrective Action Consent Order
Attachments: Manifests - soil disposed of in DEC 2018.pdf

To:
Kathleen Horrigan Emery, PE
Division of Materials Management
NYSDEC, 270 Michigan Avenue, Buffalo, New York 14203

The purpose of this email is to satisfy the monthly Progress Reporting obligation of the RCRA Corrective Action Consent Order between NYSDEC and Honeywell / Buffalo Research Laboratory (BRL) (as detailed in Exhibit C, item XI, of the Consent Order).

This report is for the month of DECEMBER 2018.

- In DECEMBER 2018, there were no excavations at BRL.
- As discussed in last month's Progress Report, soil generated from recent BRL projects was sampled and analyzed:

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive
L1847664-01	PERRY ST. GATE	SOIL	BUFFALO, NY	11/20/18 13:45	11/20/18
L1847664-02	PAST EXCAVATIONS	SOIL	BUFFALO, NY	11/20/18 13:50	11/20/18
L1847664-03	PEABODY ST. CATCH BASIN	SOIL	BUFFALO, NY	11/20/18 13:55	11/20/18

Serial_No:12031818:
Project Name: SOIL SAMPLING
Project Number: Not Specified
Lab Number: L1847664
Report Date: 12/03/18

- The TCLP Organics in all 3 samples are None Detected (ND).
- All TCLP Metals (and total Arsenic) analyses show the soil is non-hazardous.
- On 18 DEC 2018, the soil was transported to Waste Management's Chaffee Landfill. A copy of the manifests corresponding to the soil shipments is attached.
- As previously discussed, BRL's consultant (GHD) has revised BRL's Site Management Plan (SMP). The SMP will be finalized and transmitted to NYSDEC.
- BRL's 4Q2018 Soil Inspection was performed on 19 DEC 2018
- BRL will submit the 'Periodic Review Report' (for year 2018) to NYSDEC by 31 JAN 2019

Regards,

Frank

Frank P. Collis

HSE Manager

Honeywell | Buffalo Research Laboratory | 20 Peabody St. | Buffalo, NY 14210

Office: 716-827-6325 | Cell: 716-957-9158

Email: frank.collis@honeywell.com