

HEALTH, SAFETY, ENVIRONMENTAL, PRODUCT STEWARDSHIP AND SUSTAINABILITY 115 Tabor Road, 4-D4

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July 10, 2021

Mr. Moshood Oduwole EPA Project Coordinator RCRA Operations Branch U.S. Environmental Protection Agency, Region III 1650 Arch Street Philadelphia, PA 19103-2029 Mr. Edward M. Dexter Administrator Solid Waste Program Maryland Department of the Environment 1800 Washington Boulevard Baltimore, MD 21230-1719

Re: Honeywell Baltimore Inner Harbor Site, Second Quarter 2021 Progress Report, No. 127

Dear Messrs. Oduwole and Dexter:

Please find enclosed Quarterly Progress Report No. 127 for the Honeywell Baltimore Inner Harbor (BIH) Site. The report provides the project status and results of environmental monitoring for the period of April 1, 2021, through June 30, 2021, pursuant to Article V, paragraph 3, of the Consent Decree.

Corrective Measures Implementation (CMI)

A. Dismantlement: None.

B. CMI Design: CMI design was completed in 2002.

C. CMI Maintenance

Refer to the *Baltimore Inner Harbor HMS Groundwater Gradient Monitoring Quarterly Report No. 127, Second Quarter 2021*, Section 1.5.2, for a complete list of maintenance repairs. Following are the major repairs performed during the second quarter:

- May 18, 2021—the ultrasonic level sensor for inner piezometer 3 was replaced.
- May 20, 2021—the piezometer level control alarm wiring in vault 9 was repaired.
- May 25, 2021—the pressure indicator for vault 5 was repaired.
- May 25, 2021—the ground fault circuit interrupters in vaults 3 and 4 were replaced.
- May 28, 2021—the air solenoid valve and pressure indicator transmitter in Vault 5 were replaced.
- June 21, 2021—the leak detection system in vault 7 was reset; well 1S was inspected for low-flow pumping issues.
- June 28, 2021—the leak detection control unit was replaced in vault 7.
- June 28, 2021—the control wiring terminations were tightened in vault 7 and vault 11.

D. Redevelopment

Construction of the Wills Wharf office and hotel building began in the second quarter of 2018 and was completed in the fourth quarter of 2020. Jacobs is monitoring the redevelopment activities and providing technical support to

ensure uninterrupted operation of remedial components and continuing compliance of the HMS with the Consent Decree performance criteria.

Following are the major redevelopment activities performed during the second quarter:

Karma Farms Hoop houses removed in April in preparation for upcoming development.

E. Community Events—Redevelopment

 Beatty Development met with the Fells Point Task Force, neighboring Caroline condominiums, 1405 Point residents, 1305 Dock Street residents, and major office tenants to in Q2 to discuss future upcoming redevelopment on Parcel's 3 & 4 as well as the Open Space Parcel.

Agency Correspondence

 April 15, 2021—Emails from Moshood Oduwole (EPA) and from Edward Dexter (MDE) (respectively) to Maria Kaouris (Honeywell) approving, with conditions, Honeywell's request to discontinue sediment monitoring.
 Acknowledgment email from Maria Kaouris.

Attachment 1—Operation and Maintenance Schedule for Third Quarter 2021

Attachment 2—Environmental Media Monitoring Plan (EMMP) Report. Surface water, groundwater, and drainage layer sampling occurred during the second guarter of 2021.

Attachment 3—Head Maintenance System (HMS) Groundwater Gradient Performance Report. The second quarter HMS data document compliance with the groundwater gradient performance standard.

Changes in CMI Reporting

There have been no changes in CMI reporting this quarter.

Problems or Potential Problems Encountered

Water displaced by the Exelon pile driving continues to be slowly released from the upper soil layers and extracted from Vaults 1 and 12. The yield from the formation is approaching de minimis flow.

Copies of Daily Reports, Inspections, and Monitoring Data

The surface water, groundwater, and drainage layer data for the second quarter of 2021 are presented in the attachment to the EMMP report. Individual sample detection limits and electronic copies of the analytical results are also provided in the electronic attachments. The HMS gradient performance data for the reporting period include performance charts, piezometer data, and pumping data. The charts and supporting data are provided in the folder titled "Backup Data" on the quarterly report CD-ROM.

Results for the inspections performed during this quarter are stored onsite.

Projected Work for Third Quarter 2021

A. Maintenance

- Annual sitewide topographic survey will be performed.
- Surface water samples will be collected.
- Sitewide PLC upgrade will commence.

B. Redevelopment: None.

C. CMI Construction: None.

D. Community Events: Beatty Development will provide periodic updates to the local residents as the redevelopment projects progress.

Please call me at 973-455-4131 if you have any questions or comments.

Sincerely,

Maria Kaouris Project Coordinator

cc: Peggy Otum/Arnold and Porter (letter only) Jonathan Flesher/Beatty Development Group, LLC File/Baltimore Inner Harbor Site

Enclosures

Attachment 1 Quarterly Operation and Maintenance Schedule for Third Quarter 2021

July 2021

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
27	28	29	30	1	2 Standard Inspections - MES 1	3
4	5 July 4th Offices Close	6 All Monthly Inspections -Ladder, Fall Equipment, SSMP, Fire Equipment	7	8	9 Standard Inspections - MES 1 Q2 Quarterly Report Due	10
11	12	Piezometer Inspection MES2	14	15	16 Standard Inspections - MES 1	17
18	19	Vault Inspection MES2	21	22	23 Standard Inspections - MES 1	24
25	26	27	28	29	30 Standard Inspections - MES 1	31
1	2	NOTES				

August 2021

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1	2	3 Annual Sump Overflow and Tank Room Leak Detection Test	4	5	6 Standard Inspections - MES 1	7
8	9 All Monthly Inspections -Ladder, Fall Equipment, SSMP, Fire Equipment	Peizometer Inspections MES2	11	12	Standard Inspections - MES 1	14
15	16	17 Vault Inspection MES2 Q3 SWS Primary - MES	18	19	20 Standard Inspections - MES 1	21
22	23	24	25	26	27 Standard Inspections - MES 1	28
29	30	31 Q3 SWS Backup 1	1	2	3 Standard Inspections - MES 1	4
5	6	NOTES				

September 2021

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
29	30	31	1	2	3 Standard Inspections - MES 1	4
5	6 Labor Day-Offices Closed	7 All Monthly Inspections -Ladder, Fall Equipment, SSMP, Fire Equipment	8	9	Standard Inspections - MES 1	11
12	13	14 Piezometer Inspection-MES2	15 Q3 SWS Backup 2	16	17 Standard Inspections - MES 1	18
19	20	Vault Inspection- MES2	22	23	24 Standard Inspections - MES 1	25
26	27	28	29	30	Standard Inspections - MES	2
3	4	NOTES				

Attachment 2 Environmental Media Monitoring Report

Environmental Media Monitoring Plan Quarterly Report No. 127 Second Quarter 2021

Baltimore Inner Harbor Baltimore, Maryland

Prepared for



115 Tabor Road Morris Plains, New Jersey 07950

Prepared by

Jacobs

Jacobs Engineering 2411 Dulles Corner Park Suite #500 Herndon, VA 20171

July 2021



Contents

Acror	nyms ar	nd Abbreviations	iv
1.	Intro	duction	1-1
	1.1	Purpose	1-1
	1.2	Scope of Work	1-1
	1.3	Sampling Conducted This Quarter	1-1
	1.4	Progress Report Organization	1-1
2.	Surfa	ace Water Monitoring	2-1
	2.1	Methodology	
	2.2	Current Quarter Results	
	2.3	Data Review	2-1
3.	Grou	ndwater Monitoring	3-1
	3.1	Methodology	3-1
	3.2	Current Quarter Results	
		3.2.1 Chromium	3-1
		3.2.2 Cyanide	3-2
	3.3	Historical Results	3-2
		3.3.1 Chromium	3-2
		3.3.2 Cyanide	3-2
4.	Drain	nage Layer Monitoring	4-1
	4.1	Methodology	4-1
	4.2	Current Quarter Results	4-1
		4.2.1 Chromium	4-1
		4.2.2 Dissolved Chromium	4-1
		4.2.3 Cyanide	4-2
	4.3	Trend Analysis	4-2
Appe	ndixes		
Α.		ce Water Sampling Program Data	
		Raw Laboratory Data—April 2021	
		Chain-of-Custody Records—April 2021	
	A-3 F	ield Report—April 2021	
В	Grour	ndwater Sampling Program Data	
	A-1 R	Raw Laboratory Data—April 2021	
		Chain-of-Custody Records—April 2021	
	A-3 F	ield Report—April 2021	
С	Drain	age Layer Sampling Program Data	
	A-1 R	Raw Laboratory Data—April 2021	
		Chain-of-Custody Records—April 2021	
	A-3 F	ield Report—April 2021	
D	Curre	ent Quarterly Validation Report	
	D ₋ 1 C	Quality Control Summary—Second Quarter 2021	



Tables

- 2-1 Percent of Average or Actual Surface Water Results below Specific Criteria
- 2-2 Surface Water Sampling Data per Location
- 2-3 Surface Water Sampling Data per Sampling Station
- 3-1 Total Dissolved Chromium Concentrations in Groundwater
- 3-2 Current and Annual Total Dissolved Chromium Concentrations in Groundwater
- 3-3 Groundwater Trend Analysis
- 3-4 Current and Annual Total Dissolved Cyanide Concentrations
- 4-1 Drainage Layer Sampling Data SSMP1
- 4-2 Drainage Layer Sampling Data SSMP2
- 4-3 Drainage Layer Sampling Data SSMP3
- 4-4 Drainage Layer Sampling Data SSMP4
- 4-5 Drainage Layer Sampling Data SSMP4a

Figures

- 2-1 Surface Water Sample Locations
- 3-1 Groundwater Sampling Stations
- 3-2 Historical Total Dissolved Chromium Concentrations in Groundwater
- 3-3 Total Dissolved Chromium Concentrations in Groundwater for OP-3
- 3-4 Total Dissolved Chromium Concentrations in Groundwater for OP-4
- 3-5 Total Dissolved Chromium Concentrations in Groundwater for OP-5
- 3-6 Total Dissolved Chromium Concentrations in Groundwater for OP-7
- 3-7 Total Dissolved Chromium Concentrations in Groundwater for OP-9
- 3-8 Total Dissolved Chromium Concentrations in Groundwater for OP-2
 3-9 Total Dissolved Chromium Concentrations in Groundwater for OP-11
- 3-10 Total Dissolved Chromium Concentrations in Groundwater for NWM-27
- 3-11 Total Dissolved Cyanide Concentrations in Groundwater for OP-2
- 3-12 Total Dissolved Cyanide Concentrations in Groundwater for OP-3
- 4-1 Drainage Layer Sample Point Locations
- 4-2 Drainage Layer Sample Point Water Levels



Acronyms and Abbreviations

μg microgram

BTV background threshold value

EMMP Environmental Media Monitoring Plan

EPA U.S. Environmental Protection Agency

ERM Environmental Resources Management Inc.

F&R Froehling and Robertson

m³ cubic meter

MDE Maryland Department of the Environment

MES Maryland Environmental Services

ng nanogram

PM particulate matter ppb parts per billion

Site Honeywell Baltimore Inner Harbor Site

SSMP Surface Soil Monitoring Plan

TOC total organic carbon



1. Introduction

1.1 Purpose

This document summarizes data collected during the second quarter of 2021 at the Baltimore Inner Harbor Site (Site) as required by the Environmental Media Monitoring Program and set forth in the *Environmental Media Monitoring Plan* (EMMP) and the *Surface Soil Monitoring Plan* (SSMP). The submittal constitutes a Progress Report in accordance with the requirements of Section V.3 of the Consent Decree, entered into by Honeywell (formerly AlliedSignal, Inc.), the U.S. Environmental Protection Agency (EPA), and the Maryland Department of the Environment (MDE) dated September 29, 1989, and requiring that a progress report be submitted every calendar quarter during the life of the Consent Decree.

1.2 Scope of Work

The scope of work outlined in the EMMP (Environmental Media Monitoring Plan) covers sampling and analysis of environmental media before, during, and after dismantlement of the former plant, and the completion of the corrective measures implementation activities at the Honeywell Baltimore Inner Harbor Site (Site). The environmental media sampled as part of the EMMP are air, surface water, groundwater, and sediment.

The scope of work outlined in the SSMP (Surface Soil Monitoring Plan) covers sampling and analysis of environmental media after completion of Corrective Measures Implementation activities at the Site. The only environmental medium sampled as part of the SSMP is the drainage layer effluent.

Media are sampled on varying frequencies as required by the EMMP and the SSMP (quarterly, twice annually, annually, and every 3 years). Only data for the media sampled during each quarter are reported in this quarterly report.

1.3 Sampling Conducted This Quarter

Surface water, groundwater, and drainage layer samples were collected during the second quarter of 2021. Surface water sampling results are described in Section 2, with the analytical data provided in Appendix A. Groundwater sampling results are described in Section 3, with the analytical data provided in Appendix B. Drainage layer sampling results are described in Section 4, with the analytical data provided in Appendix C.

Validata LLC validated all sampling data for the second quarter of 2021. The validation reports for second quarter 2021 surface water monitoring are provided in Appendix D. All data quality objectives were met for sample results reported herein.

1.4 Progress Report Organization

Progress reports prepared in accordance with the Consent Decree are organized by medium. The media section provides a summary of methodology, the current quarter's sampling plan, and a summary of results. Also provided in these sections are a discussion of the sampling event; explanations for any deviations from the EMMP or SSMP procedures; data summaries; and discussion of the data, quality control results, and pertinent data trends. Sampling monitoring details are presented in Sections 2, 3, and 4. Associated analytical data and chain-of-custody records are provided in Appendices A, B, and C. Validation results are presented in Appendix D.



2. Surface Water Monitoring

2.1 Methodology

The surface water monitoring program provides information about surface water quality around the perimeter of the Site, at 18 predetermined stations, and at 2 stations upstream from the Site. Samples are collected at each station during each quarter and analyzed for total dissolved chromium.

Sampling is conducted within 1 hour of low tide and close to the predetermined sampling locations. The pH, temperature, specific conductance, and depth to the river bottom are measured before each sample is collected. A decontaminated Kemmerer sampler is used to collect the samples, which are placed in 500-milliliter plastic bottles. Two samples are collected—the first 1 foot below the water surface and the second 1 foot above the river bottom—at all locations except Station 20, where the water depth may be at or below 1 foot. When this is the case, only one sample is collected at Station 20. A mid-depth sample is required from sampling locations where the depth is more than 10 feet. The lateral placement of each sample location is about 5 feet from the bulkhead/shoreline. Laboratory sampling personnel record measurements and observations on sampling sheets, which are presented in Appendix A.

Surface water sample containers are placed on ice as soon as samples are collected. Field duplicate samples, field blanks, and rinsate blanks are also collected. At the end of the sample round, the samples are filtered and preserved. The samples are then transferred to the laboratory using documented chain-of-custody procedures and a dedicated courier. The samples are analyzed for total dissolved chromium using EPA SW-846 Method 6010B.

The results received from the laboratory are entered into a database in which data for each month are tabulated. When duplicate samples for a given station are taken, the average of the concentrations is used for that station. The analytical results, chain-of-custody documentation, and field sampling reports are presented in Appendix A.

2.2 Current Quarter Results

Surface water sampling for the second quarter of 2020 was performed by Maryland Environmental Services (MES) at all 20 surface water sampling locations on April 7, 2021. The surface water sampling locations are illustrated on Figure 2-1 (at the end of this section). Results for these surface water samples are included in this report. Field notes for the April 7, 2021, surface water sampling are provided in Appendix A-3 of this report.

All of the collected samples were transported to Lancaster Laboratories in Lancaster, Pennsylvania, for total dissolved chromium analysis. Summaries of the surface water data and average concentrations for April 7, 2021, including individual sample detection limits and validated data qualifiers, are presented in Tables 2-1 and 2-2.

2.3 Data Review

The surface water monitoring program is intended to provide information on surface water quality in the immediate vicinity of the waterside perimeter of the Site. This information is used to assess the performance of the corrective measures.

The Consent Decree, Section V, Part 12, establishes the Surface Water Performance Standard: "The surface water performance standard [...] for total chromium shall be 50 parts per billion (ppb), calculated for each sample location by arithmetically averaging the samples taken at all depths over 4 consecutive days." In October 2002, the sample frequency was amended to be 1 day of sampling at each sampling location per quarter.



In addition, the EMMP states that Honeywell will review analytical data for results greater than 11 ppb of dissolved hexavalent chromium. The 11-ppb reporting level is based on the following:

- Code of Maryland Regulation 26.08.02.03-1B, which states that the numerical toxic substance criteria for freshwater shall be applied to the surface water near the Site; and
- National Recommended Water Quality Criteria Correction EPA 822-Z-99-001 (April 1999), which states that the chronic exposure level for dissolved hexavalent chromium in freshwater is 11 ppb.

Total dissolved chromium concentrations detected in surface water samples reported for the second quarter of 2021 are similar to the analytical values reported for the first quarter of 2021. All values reported for the sampling event are below the performance standard of 50 ppb and the analytical detection limit of 15 ppb.

The percentages of actual or average surface water results meeting specific criteria (performance standard, chronic freshwater exposure, and detection limit) are listed in Table 2-1. Results of analyses for total dissolved chromium from each sampling location and each depth are presented in Table 2-2. The average analytical result from each sampling location is presented in Table 2-3.

Table 2-1. Percent of Average or Actual Surface Water Results Below Specific Criteria

Sample Event	Performance	Fresh Water Chronic	Analytical Detection	Method Detection
	Standard	Exposure Level	Limit†	Limit†
	Actual Concentration	Actual Concentration	Actual Concentration	Actual Concentration
	< 50 ppb	<11 ppb	<0 ppb	<0 ppb
4/7/2021	100%	100%	100%	91%

[†] The Analytical Detection Limit as determined by the laboratory QC is 15 ppb.

Table 2-2. Surface Water Sampling Data per Location, April 2021

Station	Reporting	Method Detection	Total Dissolved Chromium (ug/L)
Number	Limit (ug/L)	Limit (ug/L)	4/7/2021
3B	15	1.6	ND
3T	15	1.6	ND
4B	15	1.6	ND *
4T	15	1.6	ND
5B	15	1.6	ND
5T	15	1.6	ND
6B	15	1.6	ND
6T	15	1.6	ND
7B	15	1.6	ND
7T	2.3	1.6	2.3
8B	15	1.6	1.9 J
8T	15	1.6	1.9 J
9B	15	1.6	ND
9T	15	1.6	ND
10B	15	1.6	ND
10T	15	1.6	ND *
11B	15	1.6	ND
11T	15	1.6	ND
12B	15	1.6	ND
12T	15	1.6	ND
13B	15	1.6	ND
13T	15	1.6	ND
14B	15	1.6	ND *
14T	15	1.6	ND
15B	15	1.6	ND
15T	15	1.6	ND
16B	15	1.6	ND
16T	15	1.6	ND
17B	15	1.6	ND
17T	15	1.6	ND
18B	15	1.6	ND
18T	15	1.6	ND
19B	15	1.6	ND
19T	15	1.6	ND
20B	15	1.6	ND
20T	15	1.6	ND *
Cent B	15	1.6	ND
Cent T	15	1.6	ND
Lady B	15	1.6	ND
Lady T	15	1.6	ND

T - Sample collected 1 foot below the surface (TOP)

M - Sample collected from the measured middle of the TOP and BOTTOM measurements (MIDDLE)

B - Sample collected 1 foot from the bottom (BOTTOM)

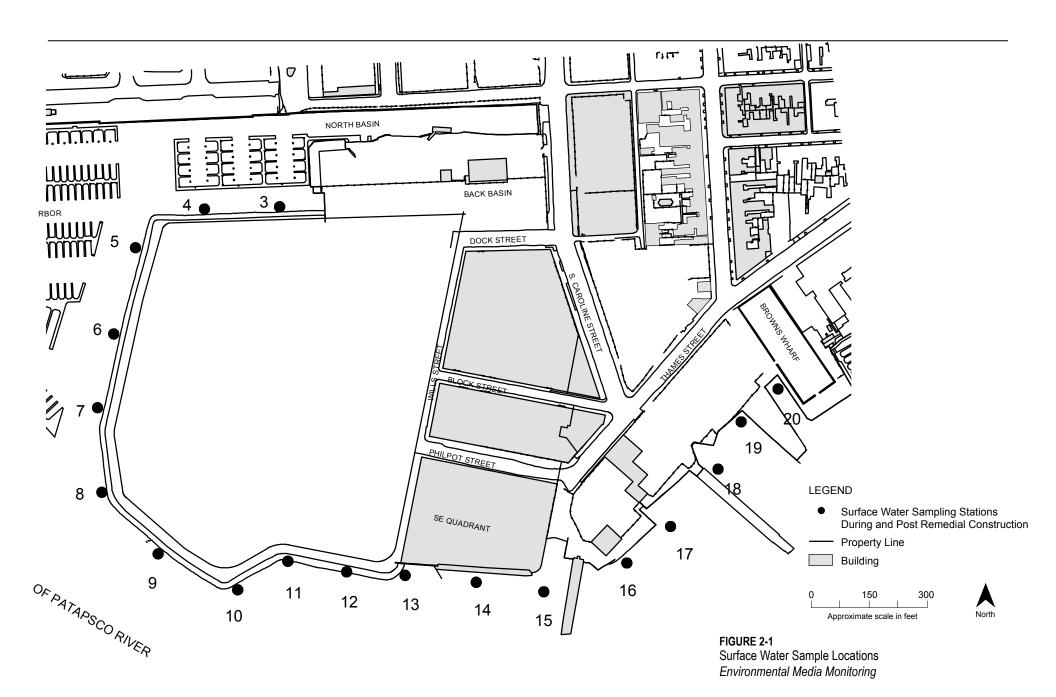
^{* -} Average of the sample result and its Field Duplicate

J - Result was reported below the Reporting Limit and above the Method Dectection Limit

ND - Result not detected at the Method Detection Limit

Table 2-3. Water Sampling Data per Sampling Station, April 2021

	Total Dissolved Chromium (ug/L)
Station	4/7/2021
Number	Station Average of All Depths
3	15
4	15
5	15
6	15
7	9 J
8	1.9 J
9	15
10	15
11	15
12	15
13	15
14	11 J
15	15
16	15
17	15
18	15
19	15
20	15
Cent	15
Lady	15





3. Groundwater Monitoring

3.1 Methodology

The Consent Decree required monthly groundwater monitoring for the first 2 years following completion of remedial construction at nine locations around the perimeter of the Site and in three locations (OP-2, OP-11, and NWM-27) in offsite areas. Four of the perimeter locations (SW-06, SW-11, SW-13, and SW-15) are monitored by collecting surface water samples within 1 foot of the bottom, as described in Section 2.1. The other five perimeter locations (OP-3, OP-4, OP-5, OP-7, and OP-9) are monitored by collecting groundwater samples from onsite piezometers. The three offsite locations are monitored by collecting one sample from a conventional monitoring well (NWM-27) and one sample each from two piezometers (OP-2 and OP-11). All monitoring locations are shown in Figure 3-1.

As of January 2002, the groundwater-monitoring frequency was reduced from monthly to twice per year, as described in Sections 1.2.3 and 5.2.3 of the *Honeywell Baltimore Works Environmental Media Monitoring Plan*, which was approved by EPA and MDE.

Before the monitoring well and piezometers are purged and sampled, measurements of depth to water are recorded on a sampling summary sheet. All designated monitoring wells/piezometers are sampled in accordance with the low-flow sampling procedures detailed in the following documents:

- Low-Flow (Minimal Drawdown) Groundwater Sampling Procedures (EPA/540/S-95/504), April 1996, by Robert W. Puls and Michael J. Barcelona; and
- Recommended Procedures for Low-Flow Purging and Sampling of Groundwater Monitoring Wells (Bulletin No. QAD023), August 8, 1994, by EPA Region III.

During purging and before sample collection, field measurements—including conductivity, pH, temperature, reduction oxidation potential, dissolved oxygen, and turbidity—are measured until the well stabilizes. The sampling time is recorded. The collected samples are filtered, preserved, placed on ice, and then transferred to the laboratory according to chain-of-custody procedures. The samples are analyzed for total dissolved chromium by the laboratory using EPA SW-846 Method 6010B. Two of the samples (OP-3 and OP-2) are also analyzed for total dissolved cyanide using EPA SW-846 Method 9014. Field blanks, temperature blanks, and rinsate blanks are also collected and analyzed for the same parameters.

Results received from the laboratory are entered into a database. Data for each month, quarter, and year are tabulated, averaged, and compared to previous results.

3.2 Current Quarter Results

Groundwater samples were collected on April 14, 2021. MES performed all sample collection, and Lancaster Laboratories performed the sample analysis.

3.2.1 Chromium

Total dissolved chromium was detected in all of the groundwater samples collected from piezometers and monitoring wells except at outer piezometer 11. The results of the second quarter 2021 groundwater sampling were similar to those of the previous 3 years at all locations.

Bottom surface water samples collected along the site perimeter from locations proximal to historical groundwater sampling well locations, had total dissolved chromium levels below the analytical method detection limit of 15 ppb.



3.2.2 Cyanide

Total dissolved cyanide concentrations were within expected variations, based on a review of the historical concentrations. The analytical data report is provided in Appendix B-1.

3.3 Historical Results

3.3.1 Chromium

The second quarter 2021 results from groundwater sampling, averaged to represent two sampling events per year for data comparison for each groundwater monitoring location, are presented in Table 3-1. A statistical review of the analytical data, including the minimum, maximum, average, and standard deviation values for each well location, is presented in Table 3-2. Validated analytical groundwater monitoring results with data qualifiers from the second quarter of 2020, including annual averages for data collected during the last 5 years, are presented in Table 3-3.

The historical total dissolved chromium concentrations in groundwater for each monitoring location are shown in Figure 3-2. Trends for total dissolved chromium concentrations for each groundwater monitoring location are depicted in Figures 3-3 through 3-9. The historical data in these figures were averaged to allow current data to be compared to past sample rounds.

3.3.2 Cyanide

Groundwater samples were collected from two locations (OP-2 and OP-3) for cyanide analysis. The historical trend of cyanide levels is presented in Table 3-4.

Table 3-1
Total Dissolved Chromium Concentrations in Groundwater (mg/l)

Monitoring Wells	Elevation (ft) Top of Well Screen	Current Results mg/l	Sample Detection Limit mg/l		Sample Event Dates						
Outboard Piezometers		Apr, 2021		Oct, 2020	May, 2020	Oct, 2019	Apr, 2019	Oct, 2018	Apr, 2018	Oct, 2017	May, 2017
11B		0.015	0.015	0.0057	0.0150	0.0150	0.0053	0.0053	0.0033	0.0033	0.0018
13B		0.015	0.015	0.003	0.0150	0.0150	0.0053	0.0053	0.0033	0.0033	0.0018
15B		0.015	0.015	0.0047	0.0150	0.0150	0.0053	0.0053	0.0033	0.0033	0.0020
6B		0.015	0.015	0.0036	0.0150	0.0020	0.0053	0.0053	0.0033	0.0033	0.0023
NWM-27	32.68	2.1	0.15	50	410	10.1	2.55	1.69	18	4.99	
OP11	44.47	0.0067	0.015	0.0034	0.0076	0.015	0.011	0.0059	0.024	0.0033	
OP2	64.31	4.40	0.015	4.3	4.39	4.51	4.53	4.37	4.71	4.34	
OP3	68.53	100	0.150	110	117	122	117	122	113	107	
OP4	69.14	0.190	0.015	0.1200	0.0091	0.015	0.0204	2.34	2	52.6	
OP5	60.7	0.011	0.015	0.008	0.54	0.02	0.59	1.12	1.16	1.52	
OP7	55.42	0.015	0.015	0.0105	0.01135	0.015	0.0053	0.0169	0.018	0.03595	
OP9	47.13	1400	1.500	1400	1590	1610	1520	1490	1490	773	

Outboard Piezometers	Apr, 2017	Oct, 2016	Apr, 2016	Dec, 2015	Nov, 2015	Apr, 2015	Oct, 2014	Apr, 2014	Oct, 2013	Apr, 2013	Oct, 2012
11B		0.0024	0.002		0.003	0.0013	0.002	0.0016	0.001	0.001	0.001
13B		0.0018	0.002		0.002	0.0013	0.002	0.0016	0.001	0.001	0.001
15B		0.0018	0.002		0.002	0.0013	0.002	0.0016	0.001	0.0011	0.0011
6B		0.0020	0.002		0.002	0.0025	0.003	0.0016	0.001	0.001	0.001
NWM-27	2.14	270	2010	1300		1700	1820	2200	2280	2450	1910
OP11	0.008	0.0083	0.008	0.0094		0.011	0.019	1.520	0.889	0.869	0.751
OP2	4.71	4.69	4.80	4.78		5.42	5.34	5.52	5.09	5.77	5.14
OP3	130	132	121	116		123	127	146	141	137	140
OP4	2.68	319	285	320		329	298	376	400	3	323
OP5	1.99	2.21	1.67	3.53		3.510	3.900	3.93	4.0	4.0	3.0
OP7	0.140	0.016	0.006	0.0047		0.033	0.026	0.021	0.002	0.002	0.002
OP9	1610	1720	1710	1450		1800	1660	1850	1840	1900	1870

Table 3-1
Total Dissolved Chromium Concentrations in Groundwater (mg/l)

Outboard Piezometers	Apr, 2012	Oct, 2011	Jun, 2011	Apr, 2010	Oct, 2009	Apr, 2009	Oct, 2008	Apr, 2008	Oct, 2007	Apr, 2007	Oct, 2006
11B	0.001	0.001	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.015	0.015
13B	0.002	0.001	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.015	0.015
15B	0.0011	0.001	0.003	0.003	0.003	0.003	0.003		0.002	0.015	0.015
6B	0.001	0.001	0.003	0.003	0.004	0.003	0.003	0.003	0.004	0.015	0.015
NWM-27	2150	2310	1910	1840	1950	2240	174	2130	699	1690	710
OP11	0.507	0.210	0.390	0.470	0.201	0.368	0.192	0.483	0.033	0.122	0.015
OP2	5.20	5.82	5.79	6.31	6.36	6.05	7.12	5.77	7.34	6.33	6.39
OP3	126	142	144	146	153	165	6	189	166	202	199
OP4	17	457	504	503	533	548	616	601	526	684	584
OP5	1.89	2.84	4.61	5.0	6.5	5.4	7.7	7.7	8.1	7.8	.8
OP7	0.012	0.010	0.005	0.006	0.005	0.003	0.004	0.005	0.002	0.015	0.015
OP9	1950	2110	2200	2040	2150	2070	5020	4800	3020	3170	3050

Outboard Piezometers	Apr, 2006	Oct, 2005	Apr, 2005	Oct, 2004	Apr, 2004	Oct, 2003	Apr, 2003	Oct, 2002	Apr, 2002	Jan, 2002	Dec, 2001
11B	0.015	0.015	0.015	0.005	0.010	0.005	0.005	0.005	0.008	0.008	0.008
13B	0.015	0.015	0.015	0.005	0.010	0.005	0.005	0.005	0.008	0.008	0.008
15B	0.015	0.015	0.015			0.005	0.005	0.005	0.008	0.008	0.008
6B	0.015	0.015	0.015	0.005	0.010	0.005	0.005	0.005	0.008	0.009	0.008
NWM-27	1540	1010	874	744	422	603	603	550	930	1100	690
OP11	0.235	0.182	0.026	0.017	0.080	0.005	0.005	0.017	0.009	0.029	0.033
OP2	6.20	6.32	6.08	5.98	5.75	6.16	6.00	5.63	4.90	5.50	5.60
OP3	219	286	288	297	309	342	342	378	440	440	440
OP4	812	1020	1100	1150	1260	1290	1210	1620	1800	1400	1700
OP5	.27	8.67	11.50	11.9	11.9	13.3	15.4	16.9	21.0	19.5	18.5
OP7	0.015	0.015	0.005	0.005	0.010	0.004	0.006	0.005	0.008	0.008	0.008
OP9	2790	2810	2680	2780	2510	2480	2510	2410	2500	2200	2500

Table 3-1
Total Dissolved Chromium Concentrations in Groundwater (mg/l)

Outboard Piezometers	Nov, 2001	Oct, 2001	Sep, 2001	Aug, 2001	Jul, 2001	Jun, 2001	May, 2001	Apr, 2001	Mar, 2001	Feb, 2001	Jan, 2001
11B	0.008	0.008	0.008	0.008	0.008	0.010	0.010	0.01	0.0105	0.01	0.01
13B	0.008	0.008	0.008	0.008	0.008	0.010	0.010	0.01	0.01	0.01	0.01
15B	0.008	0.008	0.008	0.008	0.008	0.010	0.010	0.01	0.01	0.01	0.01
6B	0.008	0.008	0.008	0.008	0.008	0.010	0.010	0.01	0.01	0.01	0.01
NWM-27	1300	830	1000	1500	1300	1600	1700	1300	1500	1600	1600
OP11	0.026	0.032	0.049	0.034	0.032	0.042	0.031	0.01	0.05	0.014	0.012
OP2	4.90	6.20	6.50	5.80	4.80	5.80	6.00	5.75	4.9	6.20	6.10
OP3	480	570	420	410	450	420	430	460	470	450	470
OP4	2000	1700	1800	1800	1800	1900	1800	1900	1900	2000	2000
OP5	20.00	20.50	21.00	17.5	23.5	23.0	23.0	24	25	25.5	26.0
OP7	0.008	0.012	0.008	0.008	0.008	0.010	0.010	0.01	0.01	0.010	0.010
OP9	2650	2500	2600	2400	2500	2500	2400	2400	2400	2300	2600

Outboard Piezometers	Dec, 2000	Nov, 2000	Oct, 2000	Sep, 2000	Aug, 2000	Jul, 2000	Jun, 2000	May, 2000	Apr, 2000	Mar, 2000	Feb, 2000
11B	0.010	0.010	0.010	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002
13B	0.010	0.010	0.010	0.01	0.01	0.01	0.01	0.01	0.010125	0.0105	0.002
15B	0.01	0.010	0.010	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002
6B	0.010	0.010	0.010	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002
NWM-27	1600	1700	1700	1800	1700	1600	1700	1700	1800	3600	2600
OP11	0.015	0.022	0.011	0.010	.01	0.01	0.01	0.01	0.01	0.004	0.047
OP2	6.00	5.90	6.10	5.85	5.90	3.15	3.6	3.7	5.4	8	4.4
OP3	480	500	490	500	510	530	540	580	570	1045	630
OP4	2100	2100	2400	2250	2400	2400	2400	2800	2500	3300	2300
OP5	25.00	26.00	28.00	25.0	24.0	18.0	34	27	33	47	44
OP7	0.010	0.010	0.010	.01	.01	0.012	0.041	0.050	0.051	0.002	0.002
OP9	2500	2400	2700	2500	2500	2400	2400	2800	2500	4500	2400

Table 3-1
Total Dissolved Chromium Concentrations in Groundwater (mg/l)

Outboard Piezometers	Dec, 1999	Aug, 1999	May, 1999	Mar, 1999	Dec, 1998	Sep, 1998	Jun, 1998	Mar, 1998	Dec, 1997	
11B										
13B										
15B										
6B										
NWM-27	1800	2300	1900	1400	1000			610		
OP11	0.020	0.010	0.010	0.030	0.010	2.70				
OP2	7.30	6.50	1.80	2.40	2.80	4.60				
OP3	670	800	670	690	750	780	890	2200	2400	
OP4	2900	3800	2900	2000	3000	1900	2000	2500	3700	
OP5	42.00	31.00	59	45	58	65.0	70.0	130	150	
OP7	0.020	0.010	0.01	0.06	1.6	8.60	0.300	0.020	0.02	
OP9	3200	2200	1800	3200	2200	2300	2800	3600		

Table 3-2 Current and Annual Total Dissolved Chromium Concentrations in Groundwater (mg/l)

Monitoring	Elevation (ft) Top of	Current Results	Sample Detection	Last Sample Round	und No										Notes	
Wells	Well Screen	ppm	Limit	Results	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010	
			ppm	ppm												
Outboard Piezometers																
OP-3	-53.5	100	1.5	110	117	122	117.50	110.0	127	120	137	139	133	139	145	4
OP-4	-57.1	0.19	0.015	0.12	0.0091	0.015	2.19	27.64	302	325	337	201	170	457	504	4
OP-5	-51.3	0.011	0.015	0.0075	0.538	0.015	1.14	1.76	1.96	3.55	3.92	4.00	2.43	3.10	4.82	4
OP-7	-47.6	ND	0.015	0.0100	0.0114	0.015	0.017	0.086	ND	0.019	0.0252	ND	ND	0.01	ND	4
OP-9	-37.8	1400	1.5	1400	1590	1610	1490	1192	1715	1625	1755	1870	1910	2045	2120	4
Deep Surface Water																
SW-06	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4
SW-11	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4
SW-13	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4
SW-15	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4
Offsite Wells																
OP-2	-48.0	4.40	0.015	4.30	4.39	4.51	4.54	4.53	4.75	5.10	5.43	5.43	5.17	5.81	6.11	4
OP-11	-35.5	0.0067	0.015	0.0034	0.0076	0.015	0.015	ND	ND	0.01	0.769	0.879	0.699	0.381	0.442	4
NWM-27	-24.7	2.1	0.015	50.00	410.00	10.10	10.00	3.57	1140	1500	2010	2365	2030	2270	1875	4

NA - Not Applicable ND - Not Detected

ERROR - Numerical data not reported for some portion of the referenced time period

U - Not detected validated results

B - Indicates that the calibration blank had some carryover contamination from these samples.

* - Average of the sample and its duplicate

- 1 Consists of averages of monthly data2 Consists of averages of quarterly data
- 3 Consists of twice annual data (single data point)
 4 Average consists of all available data

Table 3-3 - Groundwater Trend Analysis $^{(1)}$

Wells	Sample Dates	Data Points	Minimum	Maximum	Average	Standard Deviation	Current Quarter Concentrations
Outboard I	<u>Piezometers</u>						
OP-3	December,31 1980 to December,29 2021	79	6	2400	406	388	110
OP-4	December,31 1980 to December,29 2021	78	0	3800	1318	1007	0.12
OP-5	December,31 1980 to December,29 2021	94	0.00	150	19	24	0.01
OP-7	December,31 1980 to December,29 2021	85	0.002	9	0.140	0.945	1.72
OP-9	December,31 1980 to December,29 2021	73	773	5020	2397	705	1400
Offsite We	<u>lls</u>						
OP-2	December,31 1980 to December,29 2021	83	1.80	8.00	5.42	1.10	4.30
OP-11	December,31 1980 to December,29 2021	75	0.002	2.700	0.180	0.406	0.003
NWM-27	December,31 1980 to December,29 2021	69	2	3600	1323	784	50.00

^{1 -} Trend analysis based on Sample Event Results stored in central electronic database.

Table 3-4
Current and Annual Total Dissolved Cyanide Concentrations in Groundwater (ug/l)

Monitoring Wells	Elevation (ft) Top of Well Screen	Current Results ug/l	Sample Detection Limit ug/l				Sample Ev	vent Dates			
Outboard Piezometers		Apr, 2021		Oct, 2020	May, 2020	Oct, 2019	Apr, 2019	Oct, 2018	Apr, 2018	Oct, 2017	Apr, 2017
OP2	64.31	10.00	10	10.00	10.00	10.00	5.00	5.00	5.00	5.0	5.0
OP3	68.53	6.3	10	7.5	10.0	24.0	9.5	11.0	13.0	18.0	15.0

Outboard Piezometers	Oct, 2016	Apr, 2016	Dec, 2015	Apr, 2015	Oct, 2014	Apr, 2014	Oct, 2013	Apr, 2013	Oct, 2012	Apr, 2012	Oct, 2011
OP2	5.00	5.00	5.00	8.70	5.00	5.0	5.0	5.0	5.0	5.0	5.0
OP3	12.0	14.0	9.9	5.0	16.00	14.0	19.0	5.0	17.0	9.5	13.0

Outboard Piezometers	Jun, 2011	Sep, 2010	Apr, 2010	Oct, 2009	Apr, 2009	Oct, 2008	Apr, 2008	Oct, 2007	Apr, 2007	Oct, 2006	Apr, 2006
OP2	5.00	11.00	23.00	5.00	5.0	5.0	5.0	5.0	10.0	10.0	10.0
OP3	13.0	24.0	5.0	18.0	19.0	12.0	25.0	9.5	26.0	22.0	10.0

Outboard Piezometers	Oct, 2005	Apr, 2005	Oct, 2004	Apr, 2004	Oct, 2003	Apr, 2003	Oct, 2002	Apr, 2002	Jan, 2002	Nov, 2001	Aug, 2001
OP2	10.00	10.00	10.00	10.0	5.00	5.00	5.00	10.00	10.00	10.00	10.0
OP3	35.0	17.0	34.0	20	30	36.0	40.4	24.0	15.0	47.0	42.0

Outboard Piezometers	May, 2001	Feb, 2001	Nov, 2000	Aug, 2000	May, 2000	Feb, 2000	Dec, 1999	Aug, 1999	May, 1999	Mar, 1999	Dec, 1998
OP2	10.00	10.00	10.00	10.00	10	10	5	5	5	5	5
OP3	18.0	37.0	10.0	41.0	53.0	110.00	110.0	37.00	69.00	55.00	29.00

Table 3-4
Current and Annual Total Dissolved Cyanide Concentrations in Groundwater (ug/l)

Outboard Piezometers	Sep, 1998	Jun, 1998	Mar, 1998				
OP2							
OP3	9.0	14.0	1.0				

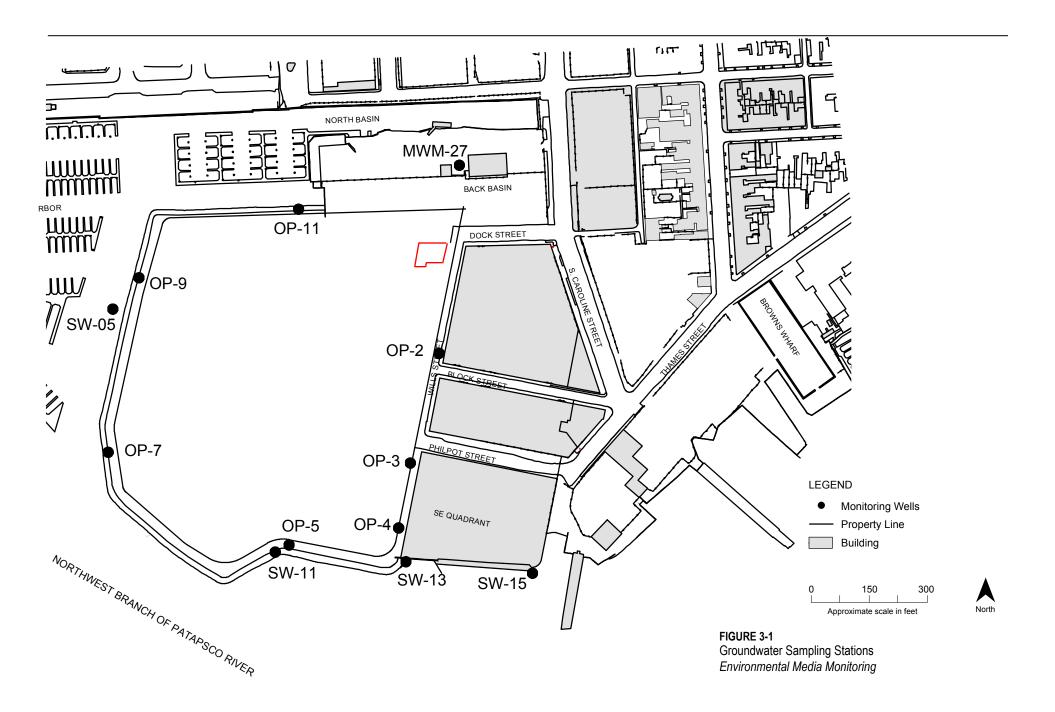


Figure 3-2
Historical Total Dissolved Chromium Concentrations in Groundwater

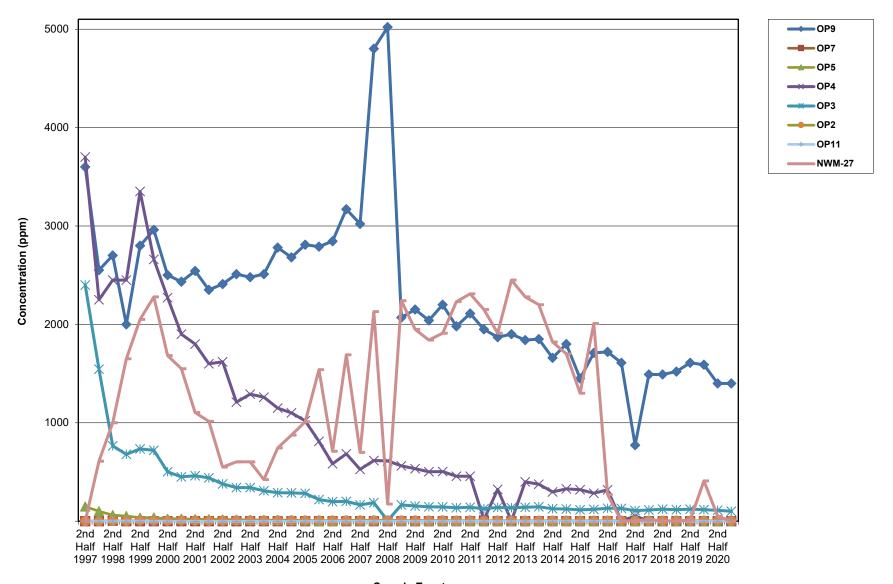
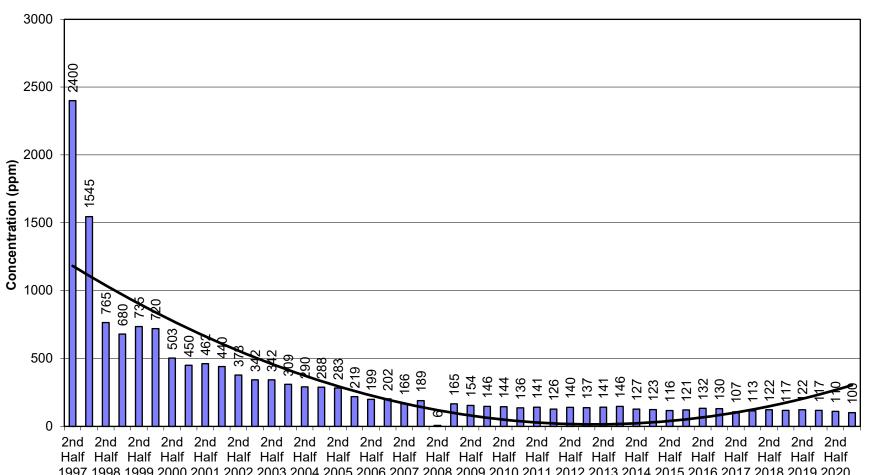


Figure 3-3 **Total Dissolved Chromium Concentrations in Groundwater for OP-3**

(Values between 1998 and 2001 are averaged over a six month period. Subsequent values represent a individual sample results. See Table 3-1)

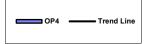
- Trend Line

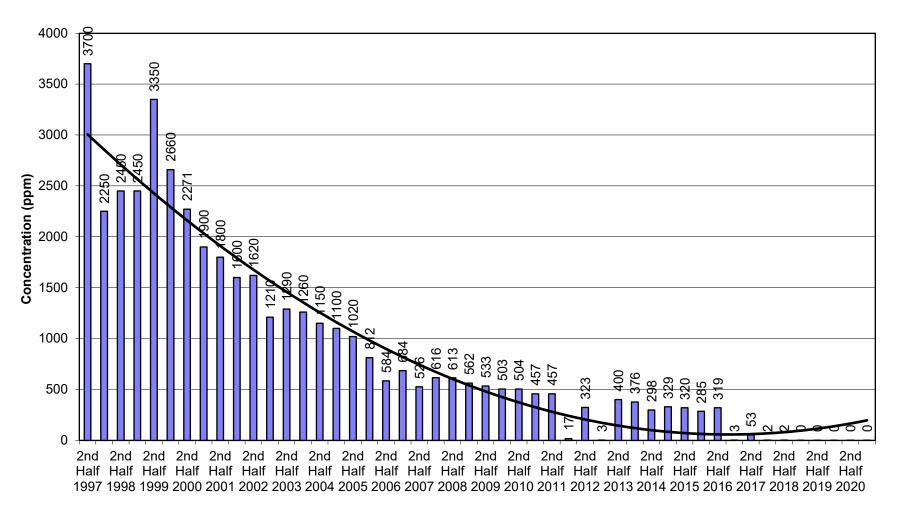


1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020

Figure 3-4
Total Dissolved Chromium Concentrations in Groundwater for OP-4

(Values between 1998 and 2001 are averaged over a six month period. Subsequent values represent a individual sample results. See Table 3-1)





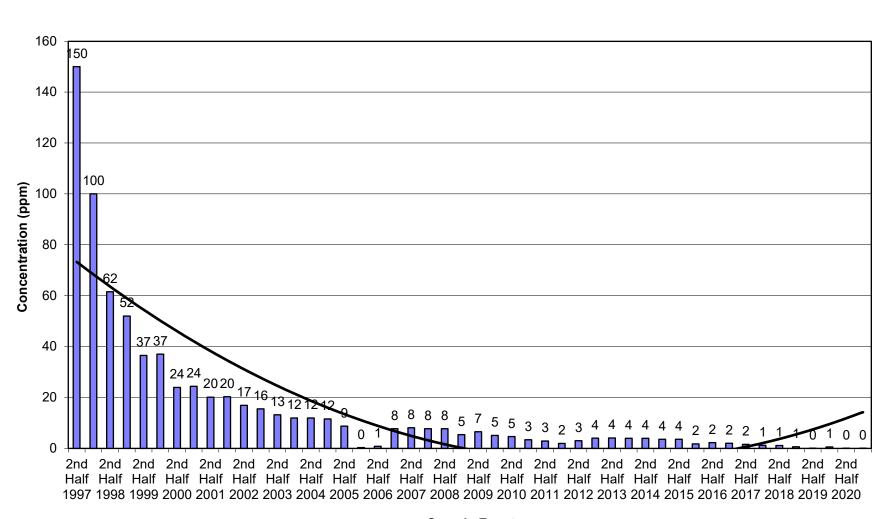
Sample Event

Figure 3-5

Total Dissolved Chromium Concentrations in Groundwater for OP-5

(Values between 1998 and 2001 are averaged over a six month period. Subsequent values represent a individual sample results. See Table 3-1)

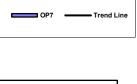
OP5 — Trend Line

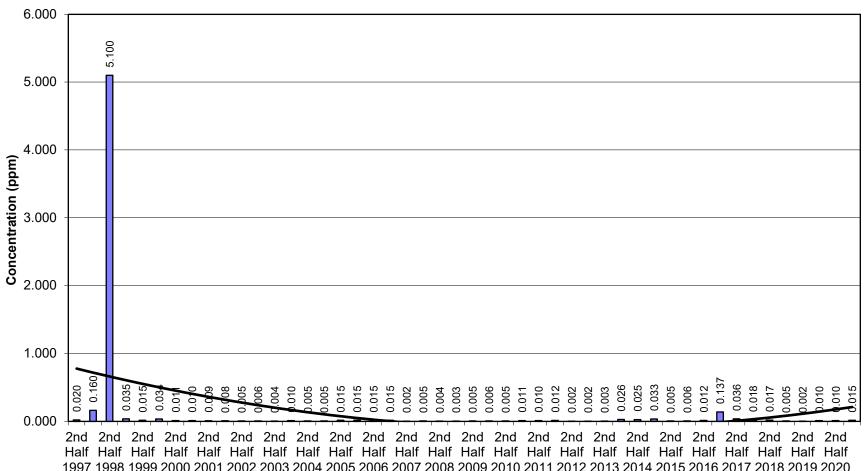


Sample Event

Figure 3-6 **Total Dissolved Chromium Concentrations in Groundwater for OP-7**

(Values between 1998 and 2001 are averaged over a six month period. Subsequent values represent a individual sample results. See Table 3-1)

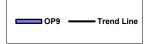


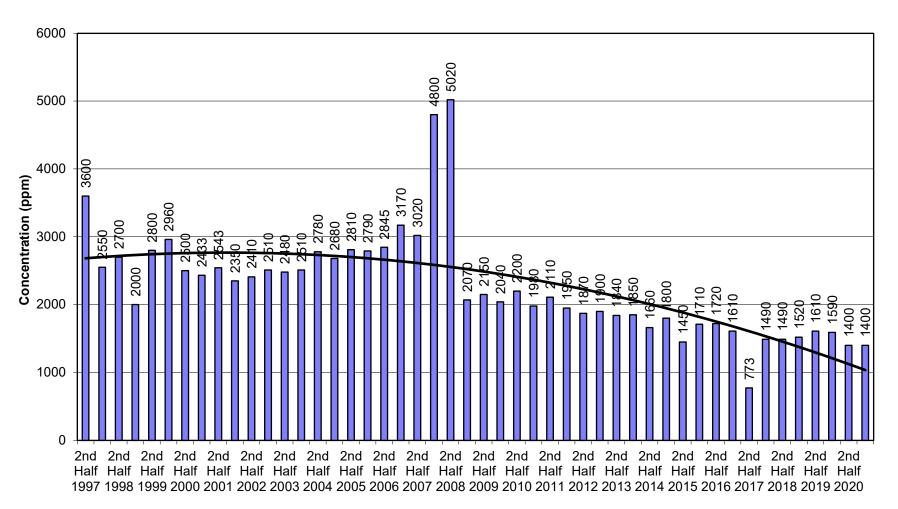


1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020

Figure 3-7
Total Dissolved Chromium Concentrations in Groundwater for OP-9

(Values between 1998 and 2001 are averaged over a six month period. Subsequent values represent a individual sample results. See Table 3-1)





Sample Event

Figure 3-8
Total Dissolved Chromium Concentrations in Groundwater for OP- 2

(Values between 1998 and 2001 are averaged over a six month period. Subsequent values represent a individual sample results. See Table 3-1)

OP2 — Trend Line

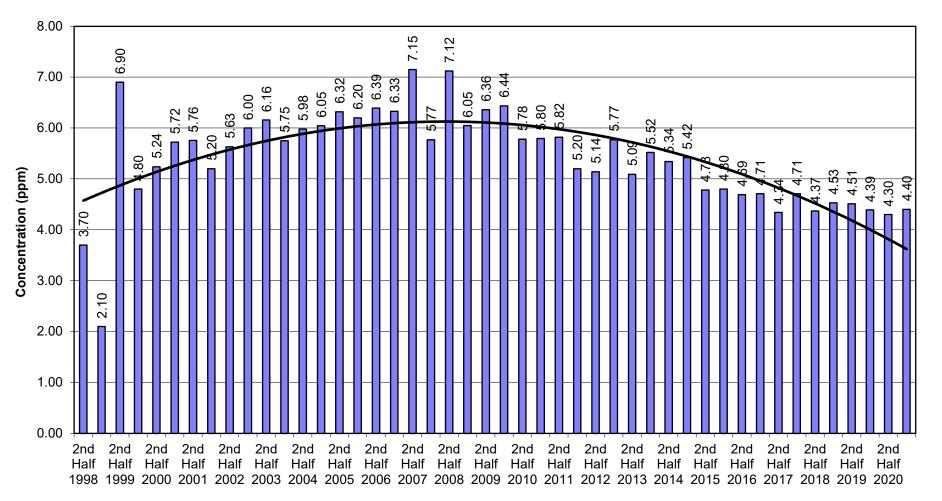


Figure 3-9
Total Dissolved Chromium Concentrations in Groundwater for OP-11

(Values between 1998 and 2001 are averaged over a six month period. Subsequent values represent a individual sample results. See Table 3-1)

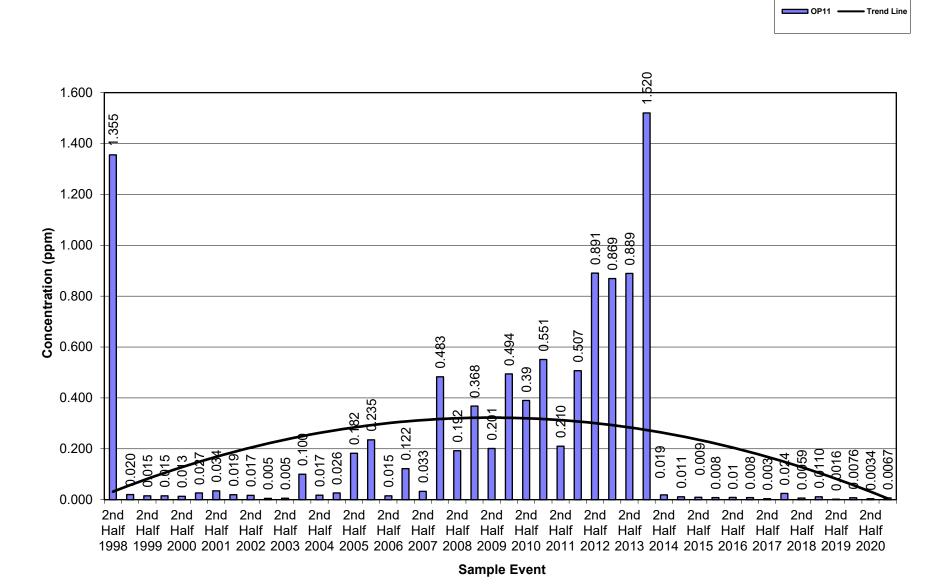
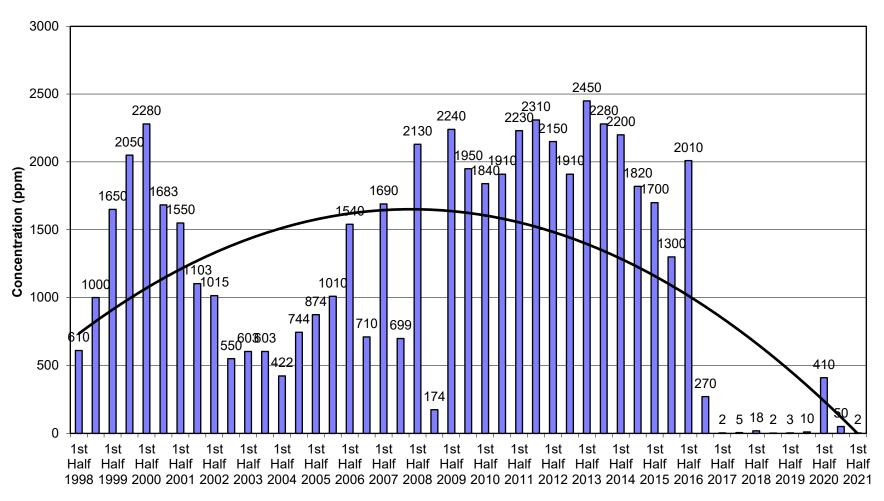


Figure 3-10
Total Dissolved Chromium Concentrations in Groundwater for NWM-27

(Values between 1998 and 2001 are averaged over a six month period. Subsequent values represent a individual sample results. See Table 3-1)

NWM-27
Trend Line



Sample Event

Figure 3-11 Total Dissolved Cyanide Concentrations in Groundwater OP-2
(Values between 1998 and 2001 are averaged over a six month period. Subsequent values represent a individual sample results. See Table 3-1)

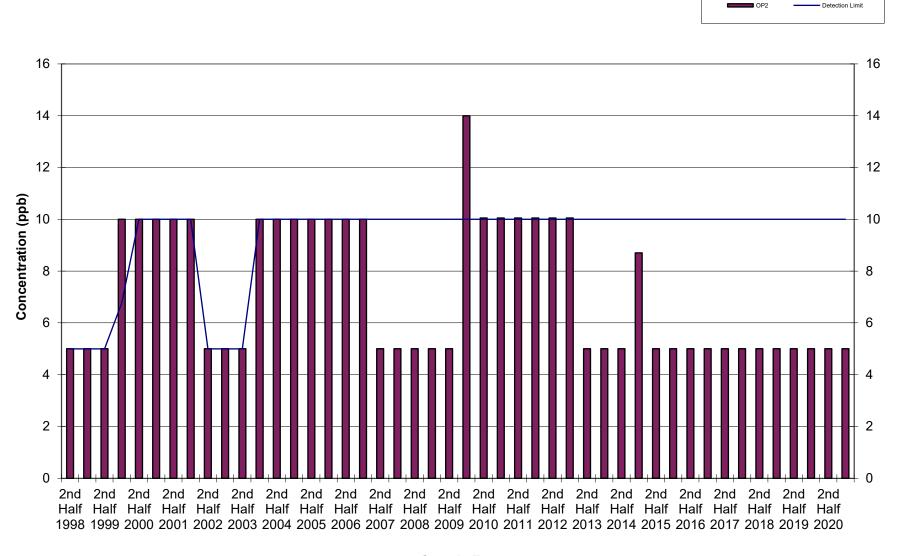
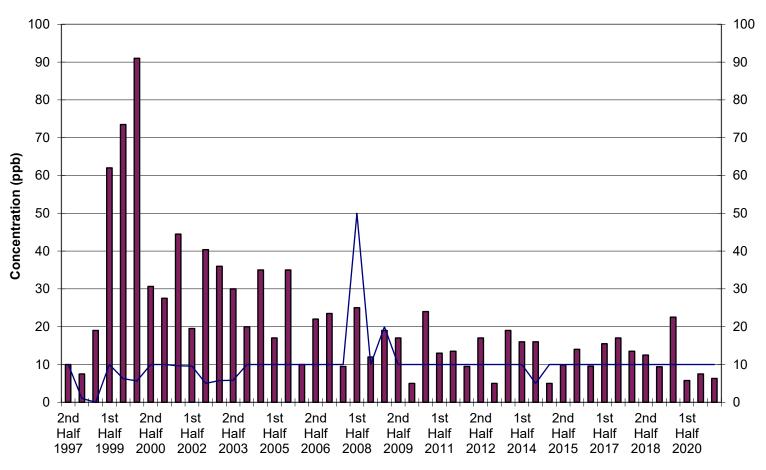


Figure 3-12

Total Dissolved Cyanide Concentrations in Groundwater OP-3 (Values between 1998 and 2001 are averaged over a six month period. Subsequent values represent a individual sample res OP3 — Detection Limit



Sample Event



4. Drainage Layer Monitoring

4.1 Methodology

Section V, Paragraph 7(a) of the Consent Decree requires the promulgation of an SSMP to establish requirements to monitor the performance of the remedial action. Annual sampling of water passing though the drainage layer and infiltration trench is one of the methods used to evaluate this performance. Four perimeter locations, depicted in Figure 4-1, have been sampled for total chromium, filtered total chromium, and filtered total cyanide. As part of the Area 1, Phase 1 construction, one of the perimeter locations (SSMP4) was relocated, and an additional perimeter location (SSMP4A) was added. The relocated location and additional location were sampled during the April 8, 2015, sampling event. The depth to water in each sampling location is checked monthly to gauge the flow of water, if any, from the drainage layer into the sample point. Sample point SSSP1 is located at the end of a perforated pipe running within a toe drain along the landward perimeter of the site. Points SSMP2 and SSMP3 are located within an infiltration trench running along the harbor perimeter of the site. The other two locations, SSMP4 and SSMP4A, are located at the intersection of a pair of drainpipes located to the east and west of the Exelon Tower in a valley in the synthetic layers and the originally installed toe drain system. SSMP4 drains to the east around the site and out through SSMP1. SSMP4A connects to the original HDPE drainpipe located in the rip rap fill outboard of the hydraulic barrier.

Before sample collection begins, a volume of water is analyzed for temperature, dissolved oxygen, specific conductance, and redox potential. Three sample volumes are then withdrawn from the sample point using a peristaltic pump and dedicated tubing. The sampling time is recorded. Once the samples are collected, the appropriate samples are filtered; then all of the samples are preserved, placed on ice, and transferred to the laboratory using documented chain-of-custody procedures. The samples are analyzed for total chromium and total dissolved chromium by the laboratory using EPA SW-846 Method 6010B or for total dissolved cyanide using EPA SW-846 Method 9014, whichever method is stated on the chain-of-custody form for that particular sample. Field blanks, temperature blanks, and rinsate blanks are also collected.

MES performs all sampling. Lancaster Laboratories performs all analysis. Results received from the laboratory are entered into a database.

Beginning in the first quarter of 2017, sampling of the drainage layer was performed to establish a new baseline as part of the revision to the site Surface Soil Monitoring Plan. Drainage layer sampling was performed approximately every 6 weeks over the course of 1 year. The last of the eight sampling events was performed on January 18, 2018. The results of the re-baseline sampling are currently under review and will be incorporated and submitted as an addendum to the revised SSMP document.

4.2 Current Quarter Results

Drainage layer samples were collected on April 28, 2021. The results from the event are attached to this report as Appendix C. Water elevations from each sample point, the tidal elevation when the water elevation was taken, and monthly rainfall totals are presented in Figure 4-2.

The validation report for the sampling event is included in Appendix D.

4.2.1 Chromium

The total chromium results for the current sample round, as well as historical results, are shown in Tables 4-1 through 4-5. Total chromium levels for the 2020 drainage layer sampling were similar to the results of the 2019 sampling.

4.2.2 Dissolved Chromium

The total dissolved chromium results for the current sample round, as well as historical results, are shown in Tables 4-1 through 4-5. Dissolved chromium results were below the limit of quantitation and the method detection limit at most sampled locations.



4.2.3 Cyanide

The total dissolved cyanide results, as well as historical results, for the sample points are shown in Tables 4-1 through 4-5. The total dissolved cyanide results were below the sample detection limit at all locations.

4.3 Trend Analysis

Results from all SSMP sampling locations were consistent with sampling from the 2019 drainage layer sampling. Current and historical sampling results are provided in Tables 4-1 through 4-5.

Table 4-1
Drainage Layer Sampling Data SSMP1
Second Quarter 2021

Year	CR	CR	Cyanide	Spec.	pH Temp.		D.O.	ORP
	mg/L	(Filtered)	μg/l	Cond.	S.U.	°C	mg/L	mV
		Mg/L		ms/cm				
2021	-	-	-	-	-	-	-	-
2020	0.0057	0.0047	5	2.3	7.47	19.03	3.97	155
2019	0.0643	0.0053	5	0.699	7.37	16.56	2.73	59
2018	0.0037	0.0033	5	1.91	7.24	14.11	3.09	49
2017	0.0385	0.0041	5	0.00	6.73	15.37	4.26	144
2016	0.0301	0.002	5	1.96	7.50	27.09	6.25	111
2015	0.0041	0.0013	5		6.46	9.55	4.85	206
2014	0.0027	0.0016	5	0.316	6.71	12.6	10.74	3
2013	0.0031	0.0018	5	0.75	6.98	21.19	5.14	146
2012	0.0046	0.0029	10	0.795	5.68	14.58	6.13	260
2011	0.0079	0.0034	5	0.901	6.62	19.7	0.37	9
2010	0.0061	0.0034	5	-	1	-	-	-
2009	0.0032	0.0095	5	0.704	1	13.5	8.95	-
2008	0.0289	0.0023	5	-	-	20	6.43	-
2007	0.0793	0.015	10	-	-	17.38	0	-
2006	0.0103	0.015	10	0.661	6.39	19.1	7.98	-
2005	0.0053	0.015	10	795	6.64	16.4	-	-
2004	0.01	0.01	10	1448	6.7	22.6	4.9	-
2003	0.0121	0.006	5	568	7.64	15.1	3.15	-
2002	0.008	0.008	10	0.63	7.16	11.1	9.26	-
2001	0.01	0.01	10	3.3	6.5	8.8	-	-
2000	0.011	0.01	10	-	-	-	-	-

Table 4-2
Drainage Layer Sampling Data SSMP2
Second Quarter 2021

Year	CR	CR	Cyanide	Spec.	d. S.U. °C mg,		D.O.	ORP
	mg/L	(Filtered)	μg/l	Cond.			mg/L	mV
		mg/L		ms/cm				
2021	0.0045	0.029	10	0.232	6.10	19.95	6.1	170
2020	0.0016	0.0016	5	0.177	6.57	21.94	4.09	228
2019	0.0053	0.0053	5	0.128	7.07	18.40	3.26	269
2018	-	ı	-	-	ı	1	-	-
2017	-	ı	-	-	ı	-	-	-
2016	0.0439	0.002	5	1.64	7.90	25.47	4.53	18
2015	0.0038	0.0013	5	1.56	8.17	8.21	5.60	143
2014	0.0033	0.0017	5	1.35	6.93	13.43	9.64	-24
2013	0.0011	0.0011	5	1.20	6.90	21.65	3.86	78
2012	0.0028	0.0014	1	2.54	6.59	14.22	5.07	200
2011	0.0034	0.0034	5	2.01	6.5	6.5 20.1	0.88	34
2010	-	ı	-	-	ı	-	-	-
2009	-	ı	-	-	ı	-	-	-
2008	-	-	-	-	-	-	-	-
2007	0.116	0.015	10	-	-	-	-	-
2006	0.015	0.015	10	20.1	2.59	19.4	7.84	-
2005	0.015	0.015	10	11360	7.27	18.3	-	-
2004	0.01	0.01	10	123.5	6.99	23.5	3.37	-
2003	0.005	0.005	5	360.8	7.92	15	5.16	-
2002	0.008	0.008	10	0.246	7.14	8.3	10.65	-
2001	0.01	0.01	10	66.4	7.23	6.7	-	-
2000	0.01	0.01	10	-	-	-	-	-

Table 4-3
Drainage Layer Sampling Data SSMP3
Second Quarter 2021

Year	CR	CR	Cyanide	Spec.	рН	Temp.	D.O.	ORP
	mg/L	(Filtered)	μg/l	Cond.	S.U.	°C	mg/L	mV
		mg/L		ms/cm				
2021	0.0052	0.015	10	18.7	7.44	18.4	18.81	-139
2020	0.0016	0.0016	5	20.3	7.39	19.62	2.71	-246
2019	0.0074	0.0053	5	17.6	7.73	18.79	1.37	-277
2018	0.0033	0.0033	5	23.9	6.49	13.06	1.38	92
2017	0.0047	0.0021	5	29.1	7.20	17.41	5.32	-145
2016	0.0048	0.002	5	23.3	7.64	18.12	4.93	-9
2015	0.0049	0.0013	5	18.4	6.14	8.79	4.12	127
2014	0.0030	0.0020	5	19.3	6.69	10.98	7.30	-104
2013	0.0011	0.0012	5	18.9	7.00	22.54	8.05	-98
2012	0.0016	0.0019	10	13.8	7.14	14.79	8.82	167
2011	0.0034	0.0034	5	2.696	6.89	19.8	0.75	12
2010	0.0034	0.0034	5	-	1	-	-	-
2009	0.003	0.003	5	31.9	1	13.8	9.88	-
2008	0.0023	0.0023	5	-	-	19.1	3.26	-
2007	0.015	0.015	10	-	-	20.89	0	-
2006	0.015	0.015	10	12.9	6.71	20	4.11	-
2005	0.015	0.015	10	6460	6.35	19.5	-	-
2004	0.01	0.01	10	5750	7.45	23.8	4.9	-
2003	0.005	0.005	5	1919	7.38	15.1	3.35	-
2002	0.008	0.008	10	23.8	6.95	8.3	4.9	-
2001	0.01	0.01	10	23.55	7.21	6.8	-	-
2000	0.01	0.01	10	-	-	-	-	-

Table 4-4
Drainage Layer Sampling Data SSMP4 (Relocated between 2014 and 2015)
Second Quarter 2021

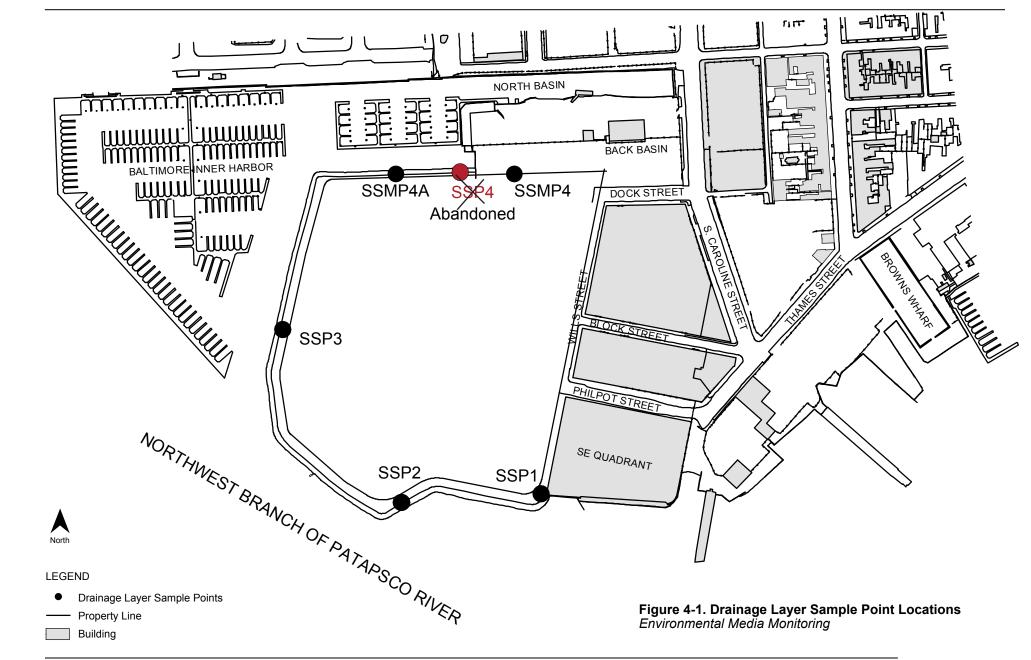
Year	CR	CR	Cyanide	Spec.	рН	Temp.	D.O.	ORP
	mg/L	(Filtered)	μg	ug Cond. S.U. °C ms/cm		mg/L	mV	
		mg/L						
2021	0.0098	0.015	11	24.8	7.82	19.45	6.72	23
2020	0.0016	0.0027	5	9.36	6.91	16.01	7.51	114
2019	0.0064	0.0062	5	5.58	6.93	16.61	2.75	277
2018	0.005	0.0038	16	18.90	7.10	12.04	0.00	73
2017	0.004	0.0049	20	7.150	8.27	13.62	2.23	176
2016	0.0169	0.0156	5	1.95	7.41	13.85	9.78	310
2015 ¹	0.0329	0.0173	5	0.793	8.82	9.50	5.64	85
2014	0.0033	0.0031	5	1.95	6.69	7.31	7.51	85
2013	0.0083	0.0069	5	1.83	6.51	20.05	8.64	218
2012	0.0106	0.0110	10	2.38	7.32	15.40	9.18	189
2011	0.0058	0.004	5	1.592	7.34	19.8	0.88	41
2010	0.0073	0.0069	5	-	1			
2009	0.0093	0.0086	5	6.44	1	13.1	10.79	-
2008	0.0023	0.0023	5	-	-	19	3.1	-
2007	0.0049	0.0024	10	-	-	19.94	9.02	-
2006	0.015	0.015	10	1.46	7.19	18.7	5.82	-
2005	0.015	0.015	10	1215	7.01	19.1	-	-
2004	0.0043	0.0037	10	5756	7.44	21.1	6.14	-
2003	0.0031	0.0024	5	677	8.26	15	6.71	-
2002	0.008	0.008	10	1.62	7.3	9.7	10.27	-
2001	0.01	0.01	10	1376	7.78	7.2	-	-
2000	0.01	0.01	10	-	-	-	-	-

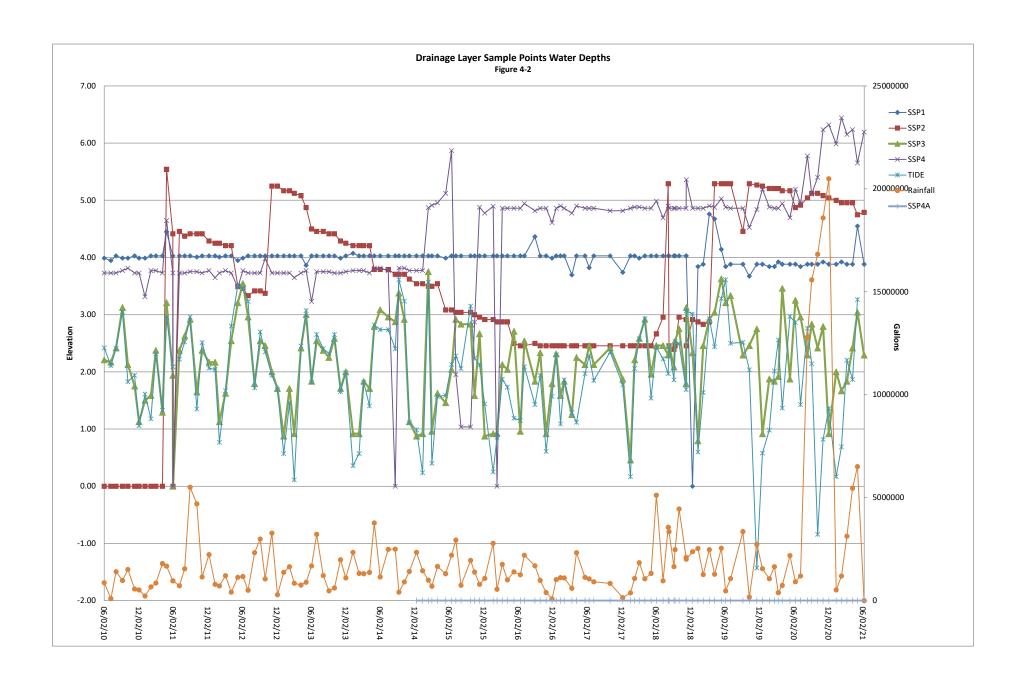
Note 1 – Sample was erroneously labelled SSMP4A rather than SSMP4 in the field

Table 4-5
Drainage Layer Sampling Data SSMP4A
Second Quarter 2021

Year	CR	CR	Cyanide	Spec.	рН	Temp.	D.O.	ORP
	mg/L	(Filtered)	μg/L	Cond.	S.U.	°C	°C mg/L	mV
		mg/L		ms/cm				
2021	0.013	0.0026	10	0.504	8.70	23.93	13.56	56
2020	0.0031	0.0016	5	6.58	7.31	17.42	4.4	108
2019	0.0207	0.0053	5	0.629	7.78	17.19	3.18	109
2018	0.0037	0.0033	5	3.14	7.54	15.10	3.02	96
2017	0.007	0.0037	5	1.04	7.90	15.27	3.11	115
2016	0.0458	0.0237	5	5.41	7.99	15.88	9.71	107
2015 ¹	0.17	0.0354	5	0.793	8.64	9.31	5.99	62

Note 1 – This sample was labelled SSMP4 rather than SSMP4A in the field





Appendix A Surface Water Sampling Program Data

Appendix A-1
Raw Laboratory Data—April 2021



Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC 2425 New Holland Pike Lancaster, PA 17601 Tel: (717)656-2300

Laboratory Job ID: 410-35284-1

Client Project/Site: Baltimore Inner Harbor, MD

For:

Honeywell International Inc Remediation & Evaluation Services 115 Tabor Road Morris Plains, New Jersey 07950

Attn: Ms. Maria Kaouris

Matalia R ~ =

Authorized for release by: 4/19/2021 11:45:32 AM

Natalie Luciano, Principal Project Manager (717)556-7258

Natalie.Luciano@eurofinset.com

·····LINKS ······

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
- · Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
 Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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Natalie Luciano

Matalia RZ =

Principal Project Manager

4/19/2021 11:45:32 AM

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Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Detection Summary	6
Client Sample Results	9
QC Sample Results	16
QC Association Summary	19
Lab Chronicle	22
Certification Summary	30
Method Summary	31
Sample Summary	32
Chain of Custody	33
Racaint Chacklists	39

3

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Definitions/Glossary

Client: Honeywell International Inc Job ID: 410-35284-1 Project/Site: Baltimore Inner Harbor, MD

Qualifiers

M	eta	Is
•••		•

Qualifier **Qualifier Description**

Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery

1C

Result is from the primary column on a dual-column method. 2C Result is from the confirmation column on a dual-column method.

CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

Duplicate Error Ratio (normalized absolute difference) **DER**

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL Minimum Level (Dioxin) ML MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

PRES Presumptive **Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) TEF **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Honeywell International Inc Project/Site: Baltimore Inner Harbor, MD Job ID: 410-35284-1

Job ID: 410-35284-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-35284-1

Page 5 of 39

Receipt

The samples were received on 4/8/2021 5:19 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.7°C and 2.8°C

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): 12B_040721 (410-35284-20). The container labels list a collection time of 1016, while the COC lists 1018. The client COC was followed.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Honeywell International Inc Project/Site: Baltimore Inner Harbor,	MD	Detec	lion oun	ıııaı y		Job ID	: 410-35284-1
Client Sample ID: 3T_040721						Lab Sample ID: 4	110-35284-1
No Detections.						•	
Client Sample ID: 3B_040721						Lab Sample ID: 4	110-35284-2
No Detections.						•	
Client Sample ID: 4T_040721						Lab Sample ID: 4	110-35284-3
No Detections.							
Client Sample ID: 4B_040721						Lab Sample ID: 4	110-35284-4
No Detections.						-	
Client Sample ID: 5T_040721						Lab Sample ID: 4	110-35284-5
No Detections.						-	
Client Sample ID: 5B_040721						Lab Sample ID: 4	110-35284-6
No Detections.						-	
Client Sample ID: 6T_040721						Lab Sample ID: 4	110-35284-7
No Detections.						-	
Client Sample ID: 6B_040721						Lab Sample ID: 4	110-35284-8
No Detections.							
Client Sample ID: 7T_040721						Lab Sample ID: 4	110-35284-9
Analyte		Qualifier	RL		Unit	Dil Fac D Method	Prep Type
Chromium	2.3	J	15	1.6	ug/L	1 6010C	Dissolved
Client Sample ID: 7B_040721						Lab Sample ID: 41	0-35284-10
No Detections.							
Client Sample ID: 8T_040721						Lab Sample ID: 41	10-35284-11
Analyte		Qualifier	RL	MDL	Unit	Dil Fac D Method	Prep Type
Chromium	1.9	J	15	1.6	ug/L	1 6010C	Dissolved
Client Sample ID: 8B_040721						Lab Sample ID: 41	0-35284-12
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D Method	Prep Type
Chromium	1.9	J	15	1.6	ug/L	1 6010C	Dissolved
Client Sample ID: 9T_040721						Lab Sample ID: 41	0-35284-13
No Detections.							
Client Sample ID: 9B_040721						Lab Sample ID: 41	0-35284-14
No Detections.							
Client Sample ID: 10T_04072	1					Lab Sample ID: 41	0-35284-15
En Brasilia							

This Detection Summary does not include radiochemical test results.

No Detections.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: Honeywell International Inc Project/Site: Baltimore Inner Harbor, MD	Job ID: 410-35284-1
Client Sample ID: 10B_040721	Lab Sample ID: 410-35284-16
No Detections.	
Client Sample ID: 11T_040721	Lab Sample ID: 410-35284-17
No Detections.	
Client Sample ID: 11B_040721	Lab Sample ID: 410-35284-18
No Detections.	
Client Sample ID: 12T_040721	Lab Sample ID: 410-35284-19
No Detections.	
Client Sample ID: 12B_040721	Lab Sample ID: 410-35284-20
No Detections.	
Client Sample ID: 13T_040721	Lab Sample ID: 410-35284-21
No Detections.	
Client Sample ID: 13B_040721	Lab Sample ID: 410-35284-22
No Detections.	
Client Sample ID: 14T_040721	Lab Sample ID: 410-35284-23
No Detections.	
Client Sample ID: 14B_040721	Lab Sample ID: 410-35284-24
No Detections.	
Client Sample ID: 15T_040721	Lab Sample ID: 410-35284-25
No Detections.	
Client Sample ID: 15B_040721	Lab Sample ID: 410-35284-26
No Detections.	
Client Sample ID: 16T_040721	Lab Sample ID: 410-35284-27
No Detections.	
Client Sample ID: 16B_040721	Lab Sample ID: 410-35284-28
No Detections.	
Client Sample ID: 17T_040721	Lab Sample ID: 410-35284-29
No Detections.	
Client Sample ID: 17B_040721	Lab Sample ID: 410-35284-30
No Detections.	
Client Sample ID: 18T_040721	Lab Sample ID: 410-35284-31
No Detections.	

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

	Detecti	ion oun	iiiiai y			
Client: Honeywell International Inc Project/Site: Baltimore Inner Harbor, M	D			Job IE	D: 410-35284-1	
Client Sample ID: 18B_040721				Lab Sample ID: 4	10-35284-32	
No Detections.						
Client Sample ID: 19T_040721				Lab Sample ID: 4	10-35284-33	
No Detections.						
Client Sample ID: 19B_040721				Lab Sample ID: 4	10-35284-34	
No Detections.						
Client Sample ID: 20T_040721				Lab Sample ID: 4°	10-35284-35	
No Detections.						
Client Sample ID: 20B_040721				Lab Sample ID: 4	10-35284-36	
No Detections.						
Client Sample ID: Cent T_0407	'21			Lab Sample ID: 4	10-35284-37	
No Detections.						
Client Sample ID: Cent B_0407	721			Lab Sample ID: 4	10-35284-38	
No Detections.						
Client Sample ID: Lady T_0407	721			Lab Sample ID: 4	10-35284-39	
No Detections.						
Client Sample ID: Lady B_040	721			Lab Sample ID: 4	10-35284-40	
No Detections.						
Client Sample ID: D1_040721				Lab Sample ID: 410-35284-41		
No Detections.						
Client Sample ID: D2_040721				Lab Sample ID: 4	10-35284-42	
No Detections.						
Client Sample ID: D3_040721				Lab Sample ID: 4	10-35284-43	
Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type	
Chromium	2.1 J	15	1.6 ug/L	1 6010C	Dissolved	
Client Sample ID: D4_040721				Lab Sample ID: 4	10-35284-44	
No Detections.						
Client Sample ID: FB_040721				Lab Sample ID: 4	10-35284-45	
No Detections.						
Client Sample ID: RB1_040721				Lab Sample ID: 4	10-35284-46	
No Detections.						
Client Sample ID: RB2_040721				Lab Sample ID: 4	10-35284-47	
No Detections.						

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client: Honeywell International Inc Project/Site: Baltimore Inner Harbor, MD

Client Sample ID: 3T_040721

Lab Sample ID: 410-35284-1 Date Collected: 04/07/21 09:40

Matrix: Water

Matrix: Water

Matrix: Water

Dil Fac

Date Received: 04/08/21 17:19

Method: 6010C - Metals (ICP) - Dissolved Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed

Chromium ND 15 04/14/21 14:38 04/15/21 14:09 1.6 ug/L Client Sample ID: 3B 040721 Lab Sample ID: 410-35284-2

Date Collected: 04/07/21 09:41 **Matrix: Water**

Date Received: 04/08/21 17:19

Method: 6010C - Metals (ICP) - Dissolved Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Chromium ND 15 1.6 ug/L 04/14/21 14:38 04/15/21 16:01

Lab Sample ID: 410-35284-3 Client Sample ID: 4T_040721

Date Collected: 04/07/21 09:44 Date Received: 04/08/21 17:19

Method: 6010C - Metals (ICP) - Dissolved

Analyte Result Qualifier RL **MDL** Unit Dil Fac Prepared Analyzed Chromium ND 15 1.6 ug/L 04/14/21 14:38 04/15/21 16:04

Client Sample ID: 4B 040721 Lab Sample ID: 410-35284-4 **Matrix: Water**

Date Collected: 04/07/21 09:46 Date Received: 04/08/21 17:19

Method: 6010C - Metals (ICP) - Dissolved Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Chromium ND 15 1.6 ug/L 04/14/21 14:38 04/15/21 16:08

Client Sample ID: 5T_040721 Lab Sample ID: 410-35284-5

Date Collected: 04/07/21 09:47 Date Received: 04/08/21 17:19

Method: 6010C - Metals (ICP) - Dissolved Result Qualifier Analyte RL **MDL** Unit Prepared Analyzed Dil Fac Chromium ND 15 1.6 ug/L 04/14/21 14:49 04/15/21 21:04

Client Sample ID: 5B_040721 Lab Sample ID: 410-35284-6

Date Collected: 04/07/21 09:49 **Matrix: Water** Date Received: 04/08/21 17:19

Method: 6010C - Metals (ICP) - Dissolved

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 15 04/14/21 14:49 04/15/21 21:07 Chromium ND 1.6 ug/L

Client Sample ID: 6T_040721 Lab Sample ID: 410-35284-7 **Matrix: Water**

Date Collected: 04/07/21 09:50 Date Received: 04/08/21 17:19

Method: 6010C - Metals (ICP) - Dissolved Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Chromium ND 15 1.6 ug/L 04/14/21 14:49 04/15/21 21:16

Client: Honeywell International Inc Job ID: 410-35284-1 Project/Site: Baltimore Inner Harbor, MD Lab Sample ID: 410-35284-8 Client Sample ID: 6B 040721 Date Collected: 04/07/21 09:52 **Matrix: Water** Date Received: 04/08/21 17:19 Method: 6010C - Metals (ICP) - Dissolved Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac Chromium ND 15 04/14/21 14:49 04/15/21 21:20 1.6 ug/L Client Sample ID: 7T 040721 Lab Sample ID: 410-35284-9 Date Collected: 04/07/21 09:53 **Matrix: Water** Date Received: 04/08/21 17:19 Method: 6010C - Metals (ICP) - Dissolved Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Chromium 2.3 J 15 1.6 ug/L 04/14/21 14:49 04/15/21 21:23 Client Sample ID: 7B_040721 Lab Sample ID: 410-35284-10 Date Collected: 04/07/21 09:54 **Matrix: Water** Date Received: 04/08/21 17:19 Method: 6010C - Metals (ICP) - Dissolved Analyte Result Qualifier RL **MDL** Unit Dil Fac Prepared Analyzed Chromium ND 15 1.6 ug/L 04/14/21 14:49 04/15/21 21:26 Lab Sample ID: 410-35284-11 Client Sample ID: 8T 040721 Date Collected: 04/07/21 09:56 **Matrix: Water** Date Received: 04/08/21 17:19 Method: 6010C - Metals (ICP) - Dissolved Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Chromium 15 1.6 ug/L 04/14/21 14:49 04/15/21 21:30 1.9 J Client Sample ID: 8B 040721 Lab Sample ID: 410-35284-12 Date Collected: 04/07/21 09:58 **Matrix: Water** Date Received: 04/08/21 17:19 Method: 6010C - Metals (ICP) - Dissolved Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac **Chromium** 1.9 J 15 1.6 ug/L 04/14/21 14:49 04/15/21 21:33 Client Sample ID: 9T_040721 Lab Sample ID: 410-35284-13 Date Collected: 04/07/21 09:59 **Matrix: Water** Date Received: 04/08/21 17:19 Method: 6010C - Metals (ICP) - Dissolved Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 15 04/14/21 14:49 04/15/21 21:36 Chromium ND 1.6 ug/L

04/14/21 14:49 04/15/21 21:39

Prepared

Lab Sample ID: 410-35284-14

Analyzed

RL

15

MDL Unit

1.6 ug/L

Result Qualifier

ND

Client Sample ID: 9B_040721

Method: 6010C - Metals (ICP) - Dissolved

Date Collected: 04/07/21 10:01

Date Received: 04/08/21 17:19

Analyte

Chromium

Matrix: Water

Dil Fac

Client Sample Results Client: Honeywell International Inc Job ID: 410-35284-1 Project/Site: Baltimore Inner Harbor, MD Lab Sample ID: 410-35284-15 Client Sample ID: 10T 040721 Date Collected: 04/07/21 10:02 **Matrix: Water** Date Received: 04/08/21 17:19 Method: 6010C - Metals (ICP) - Dissolved Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac Chromium ND 15 04/14/21 14:49 04/15/21 21:43 1.6 ug/L Client Sample ID: 10B 040721 Lab Sample ID: 410-35284-16 Date Collected: 04/07/21 10:04 **Matrix: Water** Date Received: 04/08/21 17:19 Method: 6010C - Metals (ICP) - Dissolved Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Chromium ND 15 1.6 ug/L 04/14/21 14:49 04/15/21 21:46 Client Sample ID: 11T_040721 Lab Sample ID: 410-35284-17 Date Collected: 04/07/21 10:11 **Matrix: Water** Date Received: 04/08/21 17:19 Method: 6010C - Metals (ICP) - Dissolved Analyte Result Qualifier RL **MDL** Unit Dil Fac Prepared Analyzed Chromium ND 15 1.6 ug/L 04/14/21 14:49 04/15/21 20:44 Lab Sample ID: 410-35284-18 Client Sample ID: 11B 040721 Date Collected: 04/07/21 10:13 **Matrix: Water** Date Received: 04/08/21 17:19 Method: 6010C - Metals (ICP) - Dissolved Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Chromium ND 15 1.6 ug/L 04/14/21 14:49 04/15/21 21:55 Client Sample ID: 12T 040721 Lab Sample ID: 410-35284-19 Date Collected: 04/07/21 10:16 **Matrix: Water** Date Received: 04/08/21 17:19 Method: 6010C - Metals (ICP) - Dissolved Result Qualifier Analyte RL **MDL** Unit Prepared Analyzed Dil Fac Chromium ND 15 1.6 ug/L 04/14/21 14:49 04/15/21 21:59 Lab Sample ID: 410-35284-20 Client Sample ID: 12B 040721 Date Collected: 04/07/21 10:18 **Matrix: Water** Date Received: 04/08/21 17:19

 Method: 6010C - Metals (ICP) - Dissolved

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Chromium
 ND
 15
 1.6
 ug/L
 04/14/21 14:49
 04/15/21 22:02
 1

Date Received: 04/08/21 17:19

 Method: 6010C - Metals (ICP) - Dissolved

 Analyte
 Result Othromium
 Qualifier
 RL ND
 MDL unit ug/L
 D 04/14/21 14:38
 Prepared 04/14/21 14:38
 Analyzed 04/15/21 16:11
 D 1

Client Sample Results Client: Honeywell International Inc Job ID: 410-35284-1 Project/Site: Baltimore Inner Harbor, MD Lab Sample ID: 410-35284-22 Client Sample ID: 13B 040721 Date Collected: 04/07/21 10:21 **Matrix: Water** Date Received: 04/08/21 17:19 Method: 6010C - Metals (ICP) - Dissolved Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac Chromium ND 15 04/14/21 14:49 04/15/21 22:05 1.6 ug/L Client Sample ID: 14T 040721 Lab Sample ID: 410-35284-23 Date Collected: 04/07/21 10:23 **Matrix: Water** Date Received: 04/08/21 17:19 Method: 6010C - Metals (ICP) - Dissolved Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Chromium ND 15 1.6 ug/L 04/14/21 14:49 04/15/21 22:09 Client Sample ID: 14B_040721 Lab Sample ID: 410-35284-24 Date Collected: 04/07/21 10:24 **Matrix: Water** Date Received: 04/08/21 17:19 Method: 6010C - Metals (ICP) - Dissolved Analyte Result Qualifier RL **MDL** Unit Dil Fac Prepared Analyzed Chromium ND 15 1.6 ug/L 04/14/21 14:23 04/15/21 18:54 Lab Sample ID: 410-35284-25 Client Sample ID: 15T 040721 Date Collected: 04/07/21 10:25 **Matrix: Water** Date Received: 04/08/21 17:19 Method: 6010C - Metals (ICP) - Dissolved Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Chromium ND 15 1.6 ug/L 04/14/21 14:23 04/15/21 18:57 Client Sample ID: 15B 040721 Lab Sample ID: 410-35284-26 Date Collected: 04/07/21 10:26 **Matrix: Water** Date Received: 04/08/21 17:19 Method: 6010C - Metals (ICP) - Dissolved Result Qualifier Analyte RL **MDL** Unit Prepared Analyzed Dil Fac Chromium ND 15 1.6 ug/L 04/14/21 14:23 04/15/21 19:07

 Method: 6010C - Metals (ICP) - Dissolved

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Chromium
 ND
 15
 1.6
 ug/L
 04/14/21 14:23
 04/15/21 19:10
 1

Date Received: 04/08/21 17:19

Client Sample ID: 16T_040721

Date Collected: 04/07/21 10:28

Date Received: 04/08/21 17:19

 Method: 6010C - Metals (ICP) - Dissolved

 Analyte
 Result Chromium
 Qualifier
 RL ND
 MDL Unit ug/L
 D Verpared 04/14/21 14:23
 Analyzed Analyzed 04/15/21 19:13
 Dil Fac 04/15/21 19:13

Lab Sample ID: 410-35284-27

Client: Honeywell International Inc Project/Site: Baltimore Inner Harbor, MD Client Sample ID: 17T 040721

Lab Sample ID: 410-35284-29

Matrix: Water

Date Received: 04/08/21 17:19

Date Collected: 04/07/21 10:31

Method: 6010C - Metals (ICP) - Dissolved										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chromium	ND		15	1.6	ug/L		04/14/21 14:23	04/15/21 19:16	1

Matrix: Water

Date Collected: 04/07/21 10:33 Date Received: 04/08/21 17:19

Method: 6010C - Metals (ICP) -	Dissolved								
Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		15	1.6	ug/L		04/14/21 14:23	04/15/21 19:20	1

Date Collected: 04/07/21 10:35 Date Received: 04/08/21 17:19

Method: 6010C - Metals (ICP) - DissolvedAnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil FacChromiumND151.6ug/L04/14/21 14:2304/15/21 19:231

Date Received: 04/08/21 17:19

 Method: 6010C - Metals (ICP) - Dissolved

 Analyte
 Result Chromium
 Qualifier
 RL ND
 MDL unit ug/L
 D Verpared 04/14/21 14:23
 Analyzed Analyzed 04/15/21 19:26
 D VII Fac 04/14/21 14:23

Date Collected: 04/07/21 10:49 Date Received: 04/08/21 17:19

Method: 6010C - Metals (ICP) - Dissolved

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac

Chromium ND 15 16 ug/l 04/14/21 14:23 04/15/21 18:34 1

Chromium ND 15 1.6 ug/L 04/14/21 14:23 04/15/21 18:34 1

Client Sample ID: 19B 040721 Lab Sample ID: 410-35284-34

Date Collected: 04/07/21 10:50 Date Received: 04/08/21 17:19

 Method: 6010C - Metals (ICP) - Dissolved

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Chromium
 ND
 15
 1.6
 ug/L
 04/14/21 14:23
 04/15/21 19:30
 1

Date Received: 04/07/21 17:19

 Method: 6010C - Metals (ICP) - Dissolved

 Analyte
 Result Othromium
 Qualifier
 RL ND
 MDL unit ug/L
 D 04/14/21 14:23
 Prepared 04/14/21 14:23
 Analyzed 04/15/21 19:33
 Dil Fac 04/14/21 14:23

Client: Honeywell International Inc Project/Site: Baltimore Inner Harbor, MD Lab Sample ID: 410-35284-36 Client Sample ID: 20B 040721 Date Collected: 04/07/21 10:55 Date Received: 04/08/21 17:19 Method: 6010C - Metals (ICP) - Dissolved Analyte Result Qualifier RL **MDL** Unit D Prepared Chromium ND 15 1.6 ug/L

Matrix: Water

Analyzed Dil Fac 04/14/21 14:23 04/15/21 19:36

Lab Sample ID: 410-35284-37 **Matrix: Water**

Date Collected: 04/07/21 09:36 Date Received: 04/08/21 17:19

Client Sample ID: Cent T 040721

Method: 6010C - Metals (ICP) - Dissolved Result Qualifier RL **MDL** Unit Prepared Analyzed Chromium ND 15 1.6 ug/L 04/14/21 14:49 04/15/21 22:12

Client Sample ID: Cent B_040721 Lab Sample ID: 410-35284-38 **Matrix: Water**

Date Collected: 04/07/21 09:38 Date Received: 04/08/21 17:19

Method: 6010C - Metals (ICP) - Dissolved Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Chromium ND 15 1.6 ug/L 04/14/21 14:23 04/15/21 19:46

Lab Sample ID: 410-35284-39 Client Sample ID: Lady T_040721 Date Collected: 04/07/21 09:33 **Matrix: Water**

Date Received: 04/08/21 17:19

Method: 6010C - Metals (ICP) - Dissolved Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Chromium ND 15 1.6 ug/L 04/14/21 14:23 04/15/21 19:49

Client Sample ID: Lady B 040721 Lab Sample ID: 410-35284-40

Date Collected: 04/07/21 09:34 Date Received: 04/08/21 17:19

Method: 6010C - Metals (ICP) - Dissolved Result Qualifier Analyte RL **MDL** Unit Prepared Analyzed Dil Fac Chromium ND 15 1.6 ug/L 04/14/21 14:23 04/15/21 19:52

Client Sample ID: D1_040721 Lab Sample ID: 410-35284-41 Date Collected: 04/07/21 09:46

Date Received: 04/08/21 17:19

Method: 6010C - Metals (ICP) - Dissolved Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 15 04/14/21 14:23 04/15/21 19:56 Chromium ND 1.6 ug/L

Client Sample ID: D2_040721 Lab Sample ID: 410-35284-42 Date Collected: 04/07/21 10:02 **Matrix: Water**

Date Received: 04/08/21 17:19

Method: 6010C - Metals (ICP) - Dissolved Result Qualifier Analyte RL **MDL** Unit Prepared Analyzed Dil Fac 04/14/21 14:23 04/15/21 19:59 Chromium ND 15 1.6 ug/L

Matrix: Water

Client Sample Results

Client: Honeywell International Inc Job ID: 410-35284-1 Project/Site: Baltimore Inner Harbor, MD Lab Sample ID: 410-35284-43 Client Sample ID: D3 040721 Date Collected: 04/07/21 10:24 **Matrix: Water** Date Received: 04/08/21 17:19 Method: 6010C - Metals (ICP) - Dissolved Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac 15 04/14/21 14:16 04/15/21 16:34 Chromium 2.1 J 1.6 ug/L Client Sample ID: D4 040721 Lab Sample ID: 410-35284-44 Date Collected: 04/07/21 10:53 **Matrix: Water** Date Received: 04/08/21 17:19 Method: 6010C - Metals (ICP) - Dissolved Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Chromium ND 15 1.6 ug/L 04/14/21 14:16 04/15/21 16:37 Lab Sample ID: 410-35284-45 Client Sample ID: FB_040721 Date Collected: 04/07/21 10:46 **Matrix: Water** Date Received: 04/08/21 17:19 Method: 6010C - Metals (ICP) - Dissolved Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Chromium ND 15 1.6 ug/L 04/14/21 14:16 04/15/21 16:47 Lab Sample ID: 410-35284-46 Client Sample ID: RB1_040721 Date Collected: 04/07/21 10:09 **Matrix: Water**

 Method: 6010C - Metals (ICP) - Dissolved

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Chromium
 ND
 15
 1.6
 ug/L
 04/14/21 14:16
 04/15/21 16:50
 1

 Client Sample ID: RB2 040721
 Lab Sample ID: 410-35284-47

Date Collected: 04/07/21 10:48 Date Received: 04/08/21 17:19

Date Received: 04/08/21 17:19

 Method: 6010C - Metals (ICP) - Dissolved

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Chromium
 ND
 15
 1.6
 ug/L
 04/14/21 14:16
 04/15/21 16:53
 1

4/19/2021

Client: Honeywell International Inc Project/Site: Baltimore Inner Harbor, MD Job ID: 410-35284-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-114548/1-A

Matrix: Water

Analysis Batch: 115260

MB MB

Analyte

Result Qualifier ND

RL 15 **MDL** Unit 1.6 ug/L

Prepared 04/14/21 14:16 04/15/21 16:02

Client Sample ID: Lab Control Sample

Client Sample ID: Method Blank

Analyzed Dil Fac

Prep Type: Total/NA

Prep Batch: 114548

Prep Type: Total/NA

Prep Batch: 114548

Prep Type: Total/NA

Prep Batch: 114557

Prep Type: Total/NA

Prep Batch: 114557

Lab Sample ID: LCS 410-114548/2-A

Matrix: Water

Chromium

Analyte

Chromium

Analysis Batch: 115260

Spike Added 499 LCS LCS 511

Result Qualifier

Unit ug/L

D %Rec 102

%Rec. Limits 80 - 120

Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 115315

MB MB

Lab Sample ID: MB 410-114557/1-A

Result Qualifier Analyte Chromium ND

RL 15 **MDL** Unit 1.6 ug/L

Prepared

Dil Fac Analyzed 04/14/21 14:23 04/15/21 18:22

Lab Sample ID: LCS 410-114557/2-A

Matrix: Water

Analysis Batch: 115315

Analyte Chromium

Lab Sample ID: MB 410-114567/1-A

Matrix: Water

Analysis Batch: 115220

MB MB Analyte Result Qualifier

Chromium

Lab Sample ID: LCS 410-114567/2-A **Matrix: Water**

Analysis Batch: 115220

Analyte

Chromium

Analyte

Chromium

Lab Sample ID: MB 410-114571/1-A **Matrix: Water**

Analysis Batch: 115356

Chromium Lab Sample ID: LCS 410-114571/2-A

Matrix: Water

Analysis Batch: 115356

Analyte

ND

MB MB Result Qualifier

ND

499

Spike

Added

Spike

Added

499

499

Spike LCS LCS Added

RL

15

RL

15

Result Qualifier 505

LCS LCS

479

Result Qualifier

MDL Unit

1.6 ug/L

LCS LCS

496

Result Qualifier

MDL Unit

1.6 ug/L

Unit ug/L

Unit

ug/L

Unit

ug/L

%Rec

Prepared

96

Prepared

%Rec

100

D %Rec

80 - 120 101

Client Sample ID: Lab Control Sample

%Rec.

Limits

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 114567

Dil Fac

Dil Fac

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyzed

Prep Batch: 114567 %Rec.

Limits 80 - 120

Client Sample ID: Method Blank

Prep Type: Total/NA **Prep Batch: 114571**

Analyzed

04/14/21 14:49 04/15/21 20:32

Client Sample ID: Lab Control Sample

Prep Type: Total/NA **Prep Batch: 114571**

%Rec.

Limits

80 - 120

284-1

Client: Honeywell International Inc Project/Site: Baltimore Inner Harbor, MD Job ID: 410-35284-1

Method: 6010C - Met	tals (ICP)
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Chromium

Lab Sample ID: 410-35284	-33 MS						C	lient S	ample ID:	19T_0	40721
Matrix: Water									Prep Typ	e: Diss	solved
Analysis Batch: 115315									Prep Ba	atch: 1	14557
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chromium	ND		499	499		ug/L		100	75 - 125		
- Lab Sample ID: 410-35284	-33 MSD						C	lient S	ample ID:	19T 0	40721
Matrix: Water									Prep Typ		
Analysis Batch: 115315									Prep Ba		
7 maryone Batom 110010	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chromium	ND		499	488		ug/L		98	75 - 125	2	20
Lab Cample ID: 440 25204	22 DH						_	liant C	omolo ID:	40T 0	40724
Lab Sample ID: 410-35284	-33 DU						C	lient S	ample ID:	_	
Matrix: Water									Prep Typ		
Analysis Batch: 115315	0	0		BU	DII				Prep Ba	atcn: 1	
Ameliate		Sample			DU	11	_			DDD	RPD
Analyte		Qualifier			Qualifier	Unit	D			RPD	Limit
Chromium	ND			ND		ug/L				NC	20
Lab Sample ID: 410-35284	-1 MS							Client S	Sample ID	: 3T_0	40721
Matrix: Water									Prep Typ	e: Diss	solved
Analysis Batch: 115220									Prep Ba	atch: 1	14567
-	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chromium	ND		499	468		ug/L		94	75 - 125		
_ Lab Sample ID: 410-35284	_1 MSD							Client 9	Sample ID	· 3T 0	40721
Matrix: Water	-1 MOD							Onem (Prep Typ		
Analysis Batch: 115220									Prep Ba		
Analysis Baton. 110220	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chromium	ND		499	469		ug/L		94	75 - 125	0	20
- - <u>-</u>							_				
Lab Sample ID: 410-35284	-21 MS						C	lient S	ample ID:		
Matrix: Water									Prep Typ		
Analysis Batch: 115220									Prep Ba	atch: 1	14567
	-	Sample	Spike		MS		_		%Rec.		
Analyte Chromium	Result	Qualifier	Added	Result 479	Qualifier	Unit ug/L	D	%Rec 96	75 - 125		
- - -	ND		499	479		ug/L		90	75-125		
Lab Sample ID: 410-35284	-1 DU							Client S	Sample ID	: 3T_0	40721
Matrix: Water									Prep Typ	e: Diss	solved
Analysis Batch: 115220									Prep Ba	atch: 1	14567
-	Sample	Sample		DU	DU						RPD
Analyte		Qualifier		Result	Qualifier	Unit	D			RPD	Limit
Chromium	ND			ND		ug/L				NC	20
_ Lab Sample ID: 410-35284	_17 MS						C	liont S	ample ID:	11T 0	<i>4</i> 0721
Matrix: Water	- 17 1110							ment o	Prep Typ	_	
Analysis Batch: 115356									Prep Ba		
Alialysis Datell. 110000	Sample	Sample	Spike	ме	MS				%Rec.	aton. I	1737 1
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Chromium	ND	- GuuiiiiCi		560	- Guanner	ua/l		112	75 125		

Eurofins Lancaster Laboratories Env, LLC

75 - 125

112

560

ug/L

499

ND

QC Sample Results

Client: Honeywell International Inc Job ID: 410-35284-1 Project/Site: Baltimore Inner Harbor, MD

Method: 6010C - Metals (ICP)

Lab Sample ID: 410-35284-17 MSD Matrix: Water Analysis Batch: 115356					C		ample ID: Prep Type Prep Ba	e: Diss	olved		
-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chromium	ND		499	536		ug/L		107	75 - 125	4	20

Lab Sample ID: 410-35284	-37 MS						Clie		•	nt T_040721
Matrix: Water									Prep Type	e: Dissolved
Analysis Batch: 115356									Prep Ba	tch: 114571
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chromium	ND		499	498		ug/L		100	75 - 125	

Lab Sample ID: 410-35284-1	7 DU					Client S	Sample ID: 11T 04	40721
Matrix: Water							Prep Type: Diss	olved
Analysis Batch: 115356							Prep Batch: 1	14571
_	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Chromium	ND		ND		ua/l		NC	20

QC Association Summary

Client: Honeywell International Inc Project/Site: Baltimore Inner Harbor, MD Job ID: 410-35284-1

Metals

Prep Batch: 114548

Lab Sample ID 410-35284-43	Client Sample ID D3 040721	Prep Type Dissolved	Matrix Water	Method Prep Batch Non-Digest Prep
410-35284-44	D3_040721 D4_040721	Dissolved	Water	Non-Digest Prep
410-35284-45	FB_040721	Dissolved	Water	Non-Digest Prep
410-35284-46	RB1_040721	Dissolved	Water	Non-Digest Prep
410-35284-47	RB2_040721	Dissolved	Water	Non-Digest Prep
MB 410-114548/1-A	Method Blank	Total/NA	Water	Non-Digest Prep
LCS 410-114548/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep

Prep Batch: 114557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep E
410-35284-24	14B_040721	Dissolved	Water	Non-Digest Prep
410-35284-25	15T_040721	Dissolved	Water	Non-Digest Prep
410-35284-26	15B_040721	Dissolved	Water	Non-Digest Prep
410-35284-27	16T_040721	Dissolved	Water	Non-Digest Prep
410-35284-28	16B_040721	Dissolved	Water	Non-Digest Prep
410-35284-29	17T_040721	Dissolved	Water	Non-Digest Prep
410-35284-30	17B_040721	Dissolved	Water	Non-Digest Prep
410-35284-31	18T_040721	Dissolved	Water	Non-Digest Prep
410-35284-32	18B_040721	Dissolved	Water	Non-Digest Prep
410-35284-33	19T_040721	Dissolved	Water	Non-Digest Prep
410-35284-34	19B_040721	Dissolved	Water	Non-Digest Prep
410-35284-35	20T_040721	Dissolved	Water	Non-Digest Prep
410-35284-36	20B_040721	Dissolved	Water	Non-Digest Prep
410-35284-38	Cent B_040721	Dissolved	Water	Non-Digest Prep
410-35284-39	Lady T_040721	Dissolved	Water	Non-Digest Prep
410-35284-40	Lady B_040721	Dissolved	Water	Non-Digest Prep
410-35284-41	D1_040721	Dissolved	Water	Non-Digest Prep
410-35284-42	D2_040721	Dissolved	Water	Non-Digest Prep
MB 410-114557/1-A	Method Blank	Total/NA	Water	Non-Digest Prep
LCS 410-114557/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep
410-35284-33 MS	19T_040721	Dissolved	Water	Non-Digest Prep
410-35284-33 MSD	19T 040721	Dissolved	Water	Non-Digest Prep

Prep Batch: 114567

19T_040721

410-35284-33 DU

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-35284-1	3T_040721	Dissolved	Water	Non-Digest Prep	
410-35284-2	3B_040721	Dissolved	Water	Non-Digest Prep	
410-35284-3	4T_040721	Dissolved	Water	Non-Digest Prep	
410-35284-4	4B_040721	Dissolved	Water	Non-Digest Prep	
410-35284-21	13T_040721	Dissolved	Water	Non-Digest Prep	
MB 410-114567/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-114567/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	
410-35284-1 MS	3T_040721	Dissolved	Water	Non-Digest Prep	
410-35284-1 MSD	3T_040721	Dissolved	Water	Non-Digest Prep	
410-35284-21 MS	13T_040721	Dissolved	Water	Non-Digest Prep	
410-35284-1 DU	3T 040721	Dissolved	Water	Non-Digest Prep	

Dissolved

Water

Prep Batch: 114571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-35284-5	5T_040721	Dissolved	Water	Non-Digest Prep	

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Non-Digest Prep

Page 19 of 39

2

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4

6

8

40

11

13

14

4/19/2021

QC Association Summary

Client: Honeywell International Inc
Project/Site: Baltimore Inner Harbor, MD

Job ID: 410-35284-1

Metals (Continued)

Prep Batch: 114571 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-35284-6	5B_040721	Dissolved	Water	Non-Digest Prep	
410-35284-7	6T_040721	Dissolved	Water	Non-Digest Prep	
410-35284-8	6B_040721	Dissolved	Water	Non-Digest Prep	
410-35284-9	7T_040721	Dissolved	Water	Non-Digest Prep	
410-35284-10	7B_040721	Dissolved	Water	Non-Digest Prep	
410-35284-11	8T_040721	Dissolved	Water	Non-Digest Prep	
410-35284-12	8B_040721	Dissolved	Water	Non-Digest Prep	
410-35284-13	9T_040721	Dissolved	Water	Non-Digest Prep	
410-35284-14	9B_040721	Dissolved	Water	Non-Digest Prep	
410-35284-15	10T_040721	Dissolved	Water	Non-Digest Prep	
410-35284-16	10B_040721	Dissolved	Water	Non-Digest Prep	
410-35284-17	11T_040721	Dissolved	Water	Non-Digest Prep	
410-35284-18	11B_040721	Dissolved	Water	Non-Digest Prep	
410-35284-19	12T_040721	Dissolved	Water	Non-Digest Prep	
410-35284-20	12B_040721	Dissolved	Water	Non-Digest Prep	
410-35284-22	13B_040721	Dissolved	Water	Non-Digest Prep	
410-35284-23	14T_040721	Dissolved	Water	Non-Digest Prep	
410-35284-37	Cent T_040721	Dissolved	Water	Non-Digest Prep	
MB 410-114571/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-114571/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	
410-35284-17 MS	11T_040721	Dissolved	Water	Non-Digest Prep	
410-35284-17 MSD	11T_040721	Dissolved	Water	Non-Digest Prep	
410-35284-37 MS	Cent T_040721	Dissolved	Water	Non-Digest Prep	
410-35284-17 DU	11T_040721	Dissolved	Water	Non-Digest Prep	

Analysis Batch: 115220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-35284-1	3T_040721	Dissolved	Water	6010C	114567
410-35284-2	3B_040721	Dissolved	Water	6010C	114567
410-35284-3	4T_040721	Dissolved	Water	6010C	114567
410-35284-4	4B_040721	Dissolved	Water	6010C	114567
410-35284-21	13T_040721	Dissolved	Water	6010C	114567
MB 410-114567/1-A	Method Blank	Total/NA	Water	6010C	114567
LCS 410-114567/2-A	Lab Control Sample	Total/NA	Water	6010C	114567
410-35284-1 MS	3T_040721	Dissolved	Water	6010C	114567
410-35284-1 MSD	3T_040721	Dissolved	Water	6010C	114567
410-35284-21 MS	13T_040721	Dissolved	Water	6010C	114567
410-35284-1 DU	3T_040721	Dissolved	Water	6010C	114567

Analysis Batch: 115260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-35284-43	D3_040721	Dissolved	Water	6010C	114548
410-35284-44	D4_040721	Dissolved	Water	6010C	114548
410-35284-45	FB_040721	Dissolved	Water	6010C	114548
410-35284-46	RB1_040721	Dissolved	Water	6010C	114548
410-35284-47	RB2_040721	Dissolved	Water	6010C	114548
MB 410-114548/1-A	Method Blank	Total/NA	Water	6010C	114548
LCS 410-114548/2-A	Lab Control Sample	Total/NA	Water	6010C	114548

Eurofins Lancaster Laboratories Env, LLC

Page 20 of 39

2

3

4

7

8

10

11

13

1 /

QC Association Summary

Client: Honeywell International Inc Job ID: 410-35284-1 Project/Site: Baltimore Inner Harbor, MD

Metals

Analysis Batch: 115315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-35284-24	14B_040721	Dissolved	Water	6010C	114557
410-35284-25	15T_040721	Dissolved	Water	6010C	114557
410-35284-26	15B_040721	Dissolved	Water	6010C	114557
410-35284-27	16T_040721	Dissolved	Water	6010C	114557
410-35284-28	16B_040721	Dissolved	Water	6010C	114557
410-35284-29	17T_040721	Dissolved	Water	6010C	114557
410-35284-30	17B_040721	Dissolved	Water	6010C	114557
410-35284-31	18T_040721	Dissolved	Water	6010C	114557
410-35284-32	18B_040721	Dissolved	Water	6010C	114557
410-35284-33	19T_040721	Dissolved	Water	6010C	114557
410-35284-34	19B_040721	Dissolved	Water	6010C	114557
410-35284-35	20T_040721	Dissolved	Water	6010C	114557
410-35284-36	20B_040721	Dissolved	Water	6010C	114557
410-35284-38	Cent B_040721	Dissolved	Water	6010C	114557
410-35284-39	Lady T_040721	Dissolved	Water	6010C	114557
410-35284-40	Lady B_040721	Dissolved	Water	6010C	114557
410-35284-41	D1_040721	Dissolved	Water	6010C	114557
410-35284-42	D2_040721	Dissolved	Water	6010C	114557
MB 410-114557/1-A	Method Blank	Total/NA	Water	6010C	114557
LCS 410-114557/2-A	Lab Control Sample	Total/NA	Water	6010C	114557
410-35284-33 MS	19T_040721	Dissolved	Water	6010C	114557
410-35284-33 MSD	19T_040721	Dissolved	Water	6010C	114557
410-35284-33 DU	19T 040721	Dissolved	Water	6010C	114557

Analysis Batch: 115356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-35284-5	5T_040721	Dissolved	Water	6010C	114571
410-35284-6	5B_040721	Dissolved	Water	6010C	114571
410-35284-7	6T_040721	Dissolved	Water	6010C	114571
410-35284-8	6B_040721	Dissolved	Water	6010C	114571
410-35284-9	7T_040721	Dissolved	Water	6010C	114571
410-35284-10	7B_040721	Dissolved	Water	6010C	114571
410-35284-11	8T_040721	Dissolved	Water	6010C	114571
410-35284-12	8B_040721	Dissolved	Water	6010C	114571
410-35284-13	9T_040721	Dissolved	Water	6010C	114571
410-35284-14	9B_040721	Dissolved	Water	6010C	114571
410-35284-15	10T_040721	Dissolved	Water	6010C	114571
410-35284-16	10B_040721	Dissolved	Water	6010C	114571
410-35284-17	11T_040721	Dissolved	Water	6010C	114571
410-35284-18	11B_040721	Dissolved	Water	6010C	114571
410-35284-19	12T_040721	Dissolved	Water	6010C	114571
410-35284-20	12B_040721	Dissolved	Water	6010C	114571
410-35284-22	13B_040721	Dissolved	Water	6010C	114571
410-35284-23	14T_040721	Dissolved	Water	6010C	114571
410-35284-37	Cent T_040721	Dissolved	Water	6010C	11457
MB 410-114571/1-A	Method Blank	Total/NA	Water	6010C	11457
LCS 410-114571/2-A	Lab Control Sample	Total/NA	Water	6010C	11457
410-35284-17 MS	11T_040721	Dissolved	Water	6010C	11457
410-35284-17 MSD	11T_040721	Dissolved	Water	6010C	11457
410-35284-37 MS	Cent T_040721	Dissolved	Water	6010C	11457 <i>′</i>
410-35284-17 DU	11T_040721	Dissolved	Water	6010C	11457

Eurofins Lancaster Laboratories Env, LLC

Job ID: 410-35284-1

Client: Honeywell International Inc Project/Site: Baltimore Inner Harbor, MD

Lab Sample ID: 410-35284-1

Matrix: Water

Client Sample ID: 3T 040721 Date Collected: 04/07/21 09:40

Date Received: 04/08/21 17:19

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114567	04/14/21 14:38	UJLA	ELLE
Dissolved	Analysis	6010C		1	115220	04/15/21 14:09	UCIG	ELLE

Client Sample ID: 3B_040721 Lab Sample ID: 410-35284-2

Date Collected: 04/07/21 09:41 **Matrix: Water** Date Received: 04/08/21 17:19

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114567	04/14/21 14:38	UJLA	ELLE
Dissolved	Analysis	6010C		1	115220	04/15/21 16:01	UCIG	ELLE

Client Sample ID: 4T_040721 Lab Sample ID: 410-35284-3

Date Collected: 04/07/21 09:44 **Matrix: Water**

Date Received: 04/08/21 17:19

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114567	04/14/21 14:38	UJLA	ELLE
Dissolved	Analysis	6010C		1	115220	04/15/21 16:04	UCIG	ELLE

Client Sample ID: 4B_040721 Lab Sample ID: 410-35284-4 Date Collected: 04/07/21 09:46 **Matrix: Water**

Date Received: 04/08/21 17:19

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114567	04/14/21 14:38	UJLA	ELLE
Dissolved	Analysis	6010C		1	115220	04/15/21 16:08	UCIG	ELLE

Client Sample ID: 5T 040721 Lab Sample ID: 410-35284-5

Date Collected: 04/07/21 09:47 Date Received: 04/08/21 17:19

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114571	04/14/21 14:49	N3PD	ELLE
Dissolved	Analysis	6010C		1	115356	04/15/21 21:04	UCIG	ELLE

Client Sample ID: 5B 040721 Lab Sample ID: 410-35284-6

Date Collected: 04/07/21 09:49 **Matrix: Water** Date Received: 04/08/21 17:19

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114571	04/14/21 14:49	N3PD	ELLE
Dissolved	Analysis	6010C		1	115356	04/15/21 21:07	UCIG	ELLE

Matrix: Water

Client: Honeywell International Inc Project/Site: Baltimore Inner Harbor, MD

Client Sample ID: 6T_040721 Date Collected: 04/07/21 09:50 Lab Sample ID: 410-35284-7

Matrix: Water

Date Received: 04/08/21 17:19

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114571	04/14/21 14:49	N3PD	ELLE
Dissolved	Analysis	6010C		1	115356	04/15/21 21:16	UCIG	ELLE

Client Sample ID: 6B_040721

Lab Sample ID: 410-35284-8

Matrix: Water

Date Collected: 04/07/21 09:52 Date Received: 04/08/21 17:19

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114571	04/14/21 14:49	N3PD	ELLE
Dissolved	Analysis	6010C		1	115356	04/15/21 21:20	UCIG	ELLE

Client Sample ID: 7T_040721

Lab Sample ID: 410-35284-9

Date Collected: 04/07/21 09:53 Date Received: 04/08/21 17:19 Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114571	04/14/21 14:49	N3PD	ELLE
Dissolved	Analysis	6010C		1	115356	04/15/21 21:23	UCIG	ELLE

Client Sample ID: 7B 040721

Lab Sample ID: 410-35284-10

Date Collected: 04/07/21 09:54 Date Received: 04/08/21 17:19 Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114571	04/14/21 14:49	N3PD	ELLE
Dissolved	Analysis	6010C		1	115356	04/15/21 21:26	UCIG	ELLE

Client Sample ID: 8T 040721

Lab Sample ID: 410-35284-11

Matrix: Water

Date Collected: 04/07/21 09:56 Date Received: 04/08/21 17:19

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114571	04/14/21 14:49	N3PD	ELLE
Dissolved	Analysis	6010C		1	115356	04/15/21 21:30	UCIG	ELLE

Client Sample ID: 8B 040721

Lab Sample ID: 410-35284-12

Matrix: Water

Date Collected: 04/07/21 09:58 Date Received: 04/08/21 17:19

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114571	04/14/21 14:49	N3PD	ELLE
Dissolved	Analysis	6010C		1	115356	04/15/21 21:33	UCIG	ELLE

Client: Honeywell International Inc Project/Site: Baltimore Inner Harbor, MD

Client Sample ID: 9T 040721 Lab Sample ID: 410-35284-13 Date Collected: 04/07/21 09:59

Matrix: Water

Date Received: 04/08/21 17:19

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114571	04/14/21 14:49	N3PD	ELLE
Dissolved	Analysis	6010C		1	115356	04/15/21 21:36	UCIG	ELLE

Client Sample ID: 9B_040721

Date Collected: 04/07/21 10:01 Date Received: 04/08/21 17:19

Lab Sample ID: 410-35284-14

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114571	04/14/21 14:49	N3PD	ELLE
Dissolved	Analysis	6010C		1	115356	04/15/21 21:39	UCIG	ELLE

Client Sample ID: 10T_040721

Date Collected: 04/07/21 10:02 Date Received: 04/08/21 17:19

Lab Sample ID: 410-35284-15

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114571	04/14/21 14:49	N3PD	ELLE
Dissolved	Analysis	6010C		1	115356	04/15/21 21:43	UCIG	ELLE

Client Sample ID: 10B 040721

Date Collected: 04/07/21 10:04

Date Received: 04/08/21 17:19

Lab Sample ID: 410-35284-16

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114571	04/14/21 14:49	N3PD	ELLE
Dissolved	Analysis	6010C		1	115356	04/15/21 21:46	UCIG	ELLE

Client Sample ID: 11T 040721

Date Collected: 04/07/21 10:11

Date Received: 04/08/21 17:19

Lab Sample ID: 410-35284-17 **Matrix: Water**

Batch Batch Dilution Batch Prepared Method Factor Number or Analyzed Analyst **Prep Type** Type Run Lab 114571 04/14/21 14:49 N3PD ELLE Non-Digest Prep Dissolved Prep Dissolved Analysis 115356 04/15/21 20:44 UCIG **ELLE** 1

Client Sample ID: 11B 040721

Date Collected: 04/07/21 10:13

Date Received: 04/08/21 17:19

Lab Sample ID: 410-35284-18

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114571	04/14/21 14:49	N3PD	ELLE
Dissolved	Analysis	6010C		1	115356	04/15/21 21:55	UCIG	ELLE

Date Collected: 04/07/21 10:16 Date Received: 04/08/21 17:19

Lab Sample ID: 410-35284-19

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114571	04/14/21 14:49	N3PD	ELLE
Dissolved	Analysis	6010C		1	115356	04/15/21 21:59	UCIG	ELLE

Client Sample ID: 12B_040721

Date Collected: 04/07/21 10:18 Date Received: 04/08/21 17:19

Lab Sample ID: 410-35284-20

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114571	04/14/21 14:49	N3PD	ELLE
Dissolved	Analysis	6010C		1	115356	04/15/21 22:02	UCIG	ELLE

Client Sample ID: 13T_040721

Date Collected: 04/07/21 10:19 Date Received: 04/08/21 17:19

Lab Sample ID: 410-35284-21

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114567	04/14/21 14:38	UJLA	ELLE
Dissolved	Analysis	6010C		1	115220	04/15/21 16:11	UCIG	ELLE

Client Sample ID: 13B 040721

Date Collected: 04/07/21 10:21

Date Received: 04/08/21 17:19

Lab Sample ID: 410-35284-22 **Matrix: Water**

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114571	04/14/21 14:49	N3PD	ELLE
Dissolved	Analysis	6010C		1	115356	04/15/21 22:05	UCIG	ELLE

Client Sample ID: 14T 040721

Date Collected: 04/07/21 10:23

Date Received: 04/08/21 17:19

Lab Sample ID: 410-35284-23 **Matrix: Water**

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114571	04/14/21 14:49	N3PD	ELLE
Dissolved	Analysis	6010C		1	115356	04/15/21 22:09	UCIG	ELLE

Client Sample ID: 14B 040721

Date Collected: 04/07/21 10:24

Date Received: 04/08/21 17:19

Lab Sample ID: 410-35284-24

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114557	04/14/21 14:23	UJLA	ELLE
Dissolved	Analysis	6010C		1	115315	04/15/21 18:54	UCIG	ELLE

Client: Honeywell International Inc Project/Site: Baltimore Inner Harbor, MD

Client Sample ID: 15T 040721

Date Collected: 04/07/21 10:25 Date Received: 04/08/21 17:19

Lab Sample ID: 410-35284-25

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114557	04/14/21 14:23	UJLA	ELLE
Dissolved	Analysis	6010C		1	115315	04/15/21 18:57	UCIG	ELLE

Client Sample ID: 15B_040721

Date Collected: 04/07/21 10:26 Date Received: 04/08/21 17:19

Lab Sample ID: 410-35284-26

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114557	04/14/21 14:23	UJLA	ELLE
Dissolved	Analysis	6010C		1	115315	04/15/21 19:07	UCIG	ELLE

Client Sample ID: 16T_040721

Date Collected: 04/07/21 10:28 Date Received: 04/08/21 17:19

Lab Sample ID: 410-35284-27

Matrix: Water

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114557	04/14/21 14:23	UJLA	ELLE
Dissolved	Analysis	6010C		1	115315	04/15/21 19:10	UCIG	ELLE

Client Sample ID: 16B 040721

Date Collected: 04/07/21 10:30

Date Received: 04/08/21 17:19

Lab Sample ID: 410-35284-28 **Matrix: Water**

Lab Sample ID: 410-35284-29

Lab Sample ID: 410-35284-30

Batch **Batch** Dilution Batch Prepared **Prep Type** Method Run Factor Number or Analyzed Analyst Type Lab Prep Dissolved Non-Digest Prep 114557 04/14/21 14:23 UJLA ELLE Dissolved Analysis 6010C 1 115315 04/15/21 19:13 UCIG **ELLE**

Client Sample ID: 17T 040721

Date Collected: 04/07/21 10:31

Date Received: 04/08/21 17:19

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114557	04/14/21 14:23	UJLA	ELLE
Dissolved	Analysis	6010C		1	115315	04/15/21 19:16	UCIG	ELLE

Client Sample ID: 17B 040721

07/21 10:33	Matrix: Water
)8/21 17:19	
atch Batch Dilution Batch	Prepared
atch Batch Dilution Batch	Prepared

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114557	04/14/21 14:23	UJLA	ELLE
Dissolved	Analysis	6010C		1	115315	04/15/21 19:20	UCIG	ELLE

Matrix: Water

Matrix: Water

Matrix: Water

Date Collected: 04/07/21 10:35 Date Received: 04/08/21 17:19

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114557	04/14/21 14:23	UJLA	ELLE
Dissolved	Analysis	6010C		1	115315	04/15/21 19:23	UCIG	ELLE

Lab Sample ID: 410-35284-32 Client Sample ID: 18B_040721

Date Collected: 04/07/21 10:36 **Matrix: Water**

Date Received: 04/08/21 17:19

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114557	04/14/21 14:23	UJLA	ELLE
Dissolved	Analysis	6010C		1	115315	04/15/21 19:26	UCIG	ELLE

Client Sample ID: 19T_040721

Lab Sample ID: 410-35284-33 Date Collected: 04/07/21 10:49 **Matrix: Water**

Date Received: 04/08/21 17:19

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114557	04/14/21 14:23	UJLA	ELLE
Dissolved	Analysis	6010C		1	115315	04/15/21 18:34	UCIG	ELLE

Client Sample ID: 19B 040721 Lab Sample ID: 410-35284-34 Date Collected: 04/07/21 10:50

Date Received: 04/08/21 17:19

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114557	04/14/21 14:23	UJLA	ELLE
Dissolved	Analysis	6010C		1	115315	04/15/21 19:30	UCIG	ELLE

Client Sample ID: 20T 040721 Lab Sample ID: 410-35284-35

Date Collected: 04/07/21 10:53

Analysis

6010C

Date Received: 04/08/21 17:19

Dissolved

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114557	04/14/21 14:23	UJLA	ELLE
Dissolved	Analysis	6010C		1	115315	04/15/21 19:33	UCIG	ELLE

Client Sample ID: 20B 040721 Lab Sample ID: 410-35284-36

Date Collected: 04/07/21 10:55 **Matrix: Water** Date Received: 04/08/21 17:19

115315 04/15/21 19:36 UCIG

Batch **Batch** Dilution Batch **Prepared** Number or Analyzed **Prep Type** Type Method Run Factor Analyst Lab Dissolved Prep Non-Digest Prep 114557 04/14/21 14:23 UJLA ELLE

ELLE

Date Collected: 04/07/21 09:36 Date Received: 04/08/21 17:19

Lab Sample ID: 410-35284-37

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114571	04/14/21 14:49	N3PD	ELLE
Dissolved	Analysis	6010C		1	115356	04/15/21 22:12	UCIG	ELLE

Client Sample ID: Cent B_040721

Date Collected: 04/07/21 09:38 Date Received: 04/08/21 17:19

Lab Sample ID: 410-35284-38

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114557	04/14/21 14:23	UJLA	ELLE
Dissolved	Analysis	6010C		1	115315	04/15/21 19:46	UCIG	ELLE

Client Sample ID: Lady T_040721

Date Collected: 04/07/21 09:33 Date Received: 04/08/21 17:19

Lab Sample ID: 410-35284-39

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114557	04/14/21 14:23	UJLA	ELLE
Dissolved	Analysis	6010C		1	115315	04/15/21 19:49	UCIG	ELLE

Client Sample ID: Lady B_040721

Date Collected: 04/07/21 09:34 Date Received: 04/08/21 17:19

Lab Sample ID: 410-35284-40

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114557	04/14/21 14:23	UJLA	ELLE
Dissolved	Analysis	6010C		1	115315	04/15/21 19:52	UCIG	ELLE

Client Sample ID: D1 040721

Date Collected: 04/07/21 09:46 Date Received: 04/08/21 17:19

Lab Sample ID: 410-35284-41

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114557	04/14/21 14:23	UJLA	ELLE
Dissolved	Analysis	6010C		1	115315	04/15/21 19:56	UCIG	ELLE

Client Sample ID: D2 040721

Date Collected: 04/07/21 10:02

Date Received: 04/08/21 17:19

Lab Sample ID: 410-35284-42

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114557	04/14/21 14:23	UJLA	ELLE
Dissolved	Analysis	6010C		1	115315	04/15/21 19:59	UCIG	ELLE

Client: Honeywell International Inc Project/Site: Baltimore Inner Harbor, MD

Client Sample ID: D3_040721 Date Collected: 04/07/21 10:24 Lab Sample ID: 410-35284-43

Matrix: Water

Date Received: 04/08/21 17:19

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114548	04/14/21 14:16	N3PD	ELLE
Dissolved	Analysis	6010C		1	115260	04/15/21 16:34	UCIG	ELLE

Client Sample ID: D4_040721

Date Collected: 04/07/21 10:53 Date Received: 04/08/21 17:19 Lab Sample ID: 410-35284-44

Matrix: Water

		Batch	Batch		Dilution	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
	Dissolved	Prep	Non-Digest Prep			114548	04/14/21 14:16	N3PD	ELLE
Į	Dissolved	Analysis	6010C		1	115260	04/15/21 16:37	UCIG	ELLE

Client Sample ID: FB_040721

Date Collected: 04/07/21 10:46 Date Received: 04/08/21 17:19 Lab Sample ID: 410-35284-45

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114548	04/14/21 14:16	N3PD	ELLE
Dissolved	Analysis	6010C		1	115260	04/15/21 16:47	UCIG	ELLE

Client Sample ID: RB1 040721

Date Collected: 04/07/21 10:09

Date Received: 04/08/21 17:19

Lab Sample ID: 410-35284-46

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114548	04/14/21 14:16	N3PD	ELLE
Dissolved	Analysis	6010C		1	115260	04/15/21 16:50	UCIG	ELLE

Client Sample ID: RB2 040721

Date Collected: 04/07/21 10:48

Date Received: 04/07/21 10:48

Lab Sample	ID: 410-35284-47
_	Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			114548	04/14/21 14:16	N3PD	ELLE
Dissolved	Analysis	6010C		1	115260	04/15/21 16:53	UCIG	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Honeywell International Inc Project/Site: Baltimore Inner Harbor, MD Job ID: 410-35284-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Prog	ram	Identification Nur	nber Expiration Date	
Maryland	State)	100	06-30-22	
The following analyte	s are included in this report,	but the laboratory is r	not certified by the governing aut	nority. This list may include analy	tes for wh
The following analyte the agency does not	• '	but the laboratory is r	not certified by the governing aut	nority. This list may include analy	tes for wh
,	• '	but the laboratory is r Matrix	not certified by the governing aut Analyte	nority. This list may include analy	tes for wh

Method Summary

Client: Honeywell International Inc Project/Site: Baltimore Inner Harbor, MD Job ID: 410-35284-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	ELLE
Non-Digest Prep	Preparation, Non-Digested Aqueous Metals	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

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Sample Summary

Client: Honeywell International Inc Project/Site: Baltimore Inner Harbor, MD Job ID: 410-35284-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-35284-1	3T_040721	Water	04/07/21 09:40	04/08/21 17:19	
410-35284-2	3B_040721	Water	04/07/21 09:41	04/08/21 17:19	
410-35284-3	4T_040721	Water	04/07/21 09:44	04/08/21 17:19	
410-35284-4	4B_040721	Water	04/07/21 09:46	04/08/21 17:19	
410-35284-5	5T_040721	Water	04/07/21 09:47	04/08/21 17:19	
410-35284-6	5B_040721	Water	04/07/21 09:49	04/08/21 17:19	
410-35284-7	6T_040721	Water	04/07/21 09:50	04/08/21 17:19	
410-35284-8	6B_040721	Water	04/07/21 09:52	04/08/21 17:19	
410-35284-9	7T_040721	Water	04/07/21 09:53	04/08/21 17:19	
410-35284-10	7B_040721	Water	04/07/21 09:54	04/08/21 17:19	
410-35284-11	8T_040721	Water	04/07/21 09:56	04/08/21 17:19	
410-35284-12	8B_040721	Water	04/07/21 09:58	04/08/21 17:19	
410-35284-13	9T_040721	Water	04/07/21 09:59	04/08/21 17:19	
410-35284-14	9B_040721	Water	04/07/21 10:01	04/08/21 17:19	
410-35284-15	10T_040721	Water	04/07/21 10:02	04/08/21 17:19	
410-35284-16	10B_040721	Water	04/07/21 10:04	04/08/21 17:19	
410-35284-17	11T 040721	Water	04/07/21 10:11	04/08/21 17:19	
410-35284-18	11B_040721	Water	04/07/21 10:13	04/08/21 17:19	
410-35284-19	12T_040721	Water	04/07/21 10:16	04/08/21 17:19	
410-35284-20	12B 040721	Water	04/07/21 10:18	04/08/21 17:19	
410-35284-21	13T_040721	Water	04/07/21 10:19	04/08/21 17:19	
410-35284-22	13B_040721	Water	04/07/21 10:21	04/08/21 17:19	
410-35284-23	 14T_040721	Water	04/07/21 10:23	04/08/21 17:19	
410-35284-24	14B_040721	Water	04/07/21 10:24	04/08/21 17:19	
410-35284-25	15T_040721	Water	04/07/21 10:25	04/08/21 17:19	
410-35284-26	15B_040721	Water	04/07/21 10:26	04/08/21 17:19	
410-35284-27	16T_040721	Water	04/07/21 10:28	04/08/21 17:19	
410-35284-28	16B_040721	Water	04/07/21 10:30	04/08/21 17:19	
410-35284-29	17T_040721	Water	04/07/21 10:31	04/08/21 17:19	
410-35284-30	17B_040721	Water	04/07/21 10:33	04/08/21 17:19	
410-35284-31	18T_040721	Water	04/07/21 10:35	04/08/21 17:19	
410-35284-32	18B_040721	Water	04/07/21 10:36	04/08/21 17:19	
410-35284-33	19T_040721	Water	04/07/21 10:49	04/08/21 17:19	
410-35284-34	19B_040721	Water	04/07/21 10:50	04/08/21 17:19	
410-35284-35	20T_040721	Water	04/07/21 10:53	04/08/21 17:19	
410-35284-36	20B_040721	Water	04/07/21 10:55	04/08/21 17:19	
410-35284-37	Cent T_040721	Water	04/07/21 09:36	04/08/21 17:19	
410-35284-38	Cent B_040721	Water	04/07/21 09:38	04/08/21 17:19	
410-35284-39	Lady T_040721	Water	04/07/21 09:33	04/08/21 17:19	
410-35284-40	Lady B_040721	Water	04/07/21 09:34	04/08/21 17:19	
410-35284-41	D1_040721	Water	04/07/21 09:46	04/08/21 17:19	
410-35284-42	D2_040721	Water	04/07/21 10:02	04/08/21 17:19	
410-35284-43	D3_040721	Water	04/07/21 10:24	04/08/21 17:19	
410-35284-44	D4_040721	Water	04/07/21 10:53	04/08/21 17:19	
410-35284-45	FB_040721	Water	04/07/21 10:46	04/08/21 17:19	
410-35284-46	_ RB1_040721	Water	04/07/21 10:09	04/08/21 17:19	
410-35284-47	RB2_040721	Water	04/07/21 10:48	04/08/21 17:19	
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Eurofins Lancaster Laboratories Env, LLC

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2	-3M			- 3M 040721	4/7/2021		WSW	WATER	REG		grab		_													
3	38	1.92	2.92	3B_040721	4/7/2021	941	w-sw	WATER	REG	1	grab	Υ	х													
4	4T	0.00	2.60	4T_040721	4/7/2021	944	W-SW	WATER	REG	1	grab	Υ	х													
-5-	4M			4M-040721	4///2021		W-SW	WATER	REO		grab		_				- 1									
6	4B	1.67	2.67	4B 040721	4/7/2021	946	W-SW	WATER	REG	1	grab	Υ	х													
7	5T	-	3.75	5T_040721	4/7/2021	947	w-sw	WATER	REG	1	grab	Υ	х													
-	- 5M			5M_040721	4/7/2021		W-6W	WATER	REC		grab															
9	5B	2.75	3.75	5B_040721	4/7/2021	949	W-SW	WATER	REG	1	grab	Υ	Х													
10	6T	0.00	3.15	6T_040721	4/7/2021	950	w-sw	WATER	REG	1_	grab	Υ	Х				7.5									
	6M			6M_040721	4/7/2021		W-9W	WATER	REC		nrah.					T										
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July 4/8/21 17:00

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1	7T	0.00	3.32	7T_040721	4/7/2021	453	W-SW	WATER	REG	1	grab	Y	Х													
2	7M			7M_040721	4/7/2021		W-3W	WATER	REG		grab			\Box												
3	7B	2.33	3.33	7B_040721	4/7/2021	954	W-SW	WATER	REG	1	grab	Υ	х				-									
4	8T	0.0	350	BT_040721	4/7/2021	956	W-SW	WATER	REG	1	grab	Y	х				_									
-5-	- GM			6M_648724	4/7/2021		W.SW	WATER	PEC		grab															
6	88	2.50	3.50	8B_040721	4/7/2021	948	w-sw	WATER	REG	1	grab	Υ	х													
7	9T	0.00		9T_040721	4/7/2021	959	W-SW	WATER	REG	1	grab	Y	х				1.0									
-	9M			9M_040721	4/7/2021		w-sw-	WATER	REO	_	grab															
9	9B	1175		98_040721	4/7/2021	1001	w-sw	WATER	REG	1	grab	Υ	Х													
10	10T	0.00	3.01	10T_040721	4/7/2021	1002	W-SW	WATER	REG	_ 1	grab	Υ	X				- 1									
F	1014	_		10M_040721	4/7/2021		WEW	WATER	REG		grab															
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San	pling Co.:	Maryland	Environme	ntal Service	EDD To:		matthew.gillis	@jacobs.co	m			ion of	Site:	BALT	MOR	E, MD	_			gram	300	ace v	वास		Lab ID	Ш
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	Location ID	Depth	Depth	Field Sample ID																					Sampling Method	Lab Sample
	*	(ft)	(ft)								Units	,													(code)	Numbers
1	11T	0.60	3.00	11T_040721	4/7/2021	1911	W-SW	WATER	REG	4	grab	Υ	Х											Х		
2	1110	-		11W_040721	4/7/2021			WATER	REG	 	grab								- 1			1				
3	11B	2.00	3.00	118_040721	4/7/2021	1013	w-sw	WATER	REG	1	grab	Υ	Х				T		\top	\top						
4	12T	0.00	2.15	12T_040721	4/7/2021	1016	W-SW	WATER	REG	1	grab	Υ	Х													
-6-	12M		-	1314_040721	4/7/2021		W-5W	WATER	REG	-	grab						- 1									
6	12B	1.75	2.79	12B_040721	4/7/2021	1018,	W-SW	WATER	REG	1	grab	Υ	х			\Box		0								
7	13T		3.08	13T_040721	4/7/2021	1019	W-SW	WATER	REG	1	grab	Y	Х						\neg	\top		\top		\vdash		
-	13M			13M_040721	4/7/2021		w.sw	WATER	REO		UTHO			-		$\neg \uparrow$										
9	138	2-08	3.00	138_040721	4/7/2021	1021	W-SW	WATER	REG	1	grab	Υ	х								T					
10	14T	0,00	3.58	14T_040721	4/7/2021	1023	W-SW	WATER	REG	1	grab	Υ	х							\top						
77	1414			14M 040721	4/7/2021		W-3W	WATER	REG		grab		_						\top		T					
12	148	2.58	358	14B_040721	4/7/2021	1024	W-SW	WATER	REG	1	grab	Υ	Х													
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Reli	nquished by	201	m	Compan	MES		Received by							Com	рапу	K	رر	30°	onditio	n			Cust	ody S	eals Intact	
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ζ,	2 xx+	TE		Date/Time L	1 VIZI	1204		7 41	114	120			ate/Ti						ooler T							
Pre	servatives: (Other	; Specify					(pH<2):/4Deg 0	2); 17 (4C #	OH (pH>12	& Asco	rbic Aci	d); 12 (4	IC H2S	04 (ph	1<2) &	Na2S2	Q3); 1:	(Zn Ac	etate); s	p (spe	cial ins	truction	\$)			

John 4/8/21 17:00

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2425	New Holland Pik	(0)			H	one	ywel		Chain	Of Cu	ıstod	y / A	naly	/sis F	Requ	est										30905-102620-4
	aster, PA 17605-3 656-2300	2425			Privileged &	Confidentia	1	N						Raltim	on ter	or Har	nor							-	Lab Proj # (SDG):	
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	ipling Co.:				-		121 -	M7 N			Locati	J. 01 .			<u> </u>	$\overline{}$	T:				Samp	ung	Т	-	Site ID	BALTIMORE
_	nt Contact: (na Kaouris	ame, co.,	address)	Sampler: PO#	450001380	DX, 11	1,300			Preserv	ativa	3		-	+				_			-		ab Job#	
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	s Plains, NJ 0795	0		_		Consultant			CH2M								200									
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	ple Receipt rewiedgement To	- professional and the second	distriacel TAfemen	os.com: .com: barnice.kidd@iacobs.com;								Sample			- 1	-							- 1			
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		8	la letamitific	antion .	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Grab	Field Fil	0109/AS												Copyright AESI; Version LS Unauthorized use strictly prohibited.	
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	Location ID	Depth (ft)	Depth (ft)	Field Sample ID							Units														Sampling Method (code)	Lab Sample Numbers
1	15T	0.00	1.50	15T_040721	4/7/2021	1625	W-SW	WATER	REG	1	grab	Υ	х				1									
2	15M			15M_040721	4/7/2021		-w-sw-	WATER	REG		grab						-									
3	15B	0.50	1.50	15B_040721	4/7/2021	1026	W-SW	WATER	REG	1	grab	Υ	х													
4	16T	0.00		16T_040721	4/7/2021	1028	w-sw	WATER	REG	1	grab	Υ	х					Г								
4	1614			10W_040721	4/7/2021		W-SW	WATER	REC		grab						- 1									
6	16B	8.58	9.58	16B_040721	4/7/2021	1830	w-sw	WATER	REG	1	grab	Υ	х				1		-							
7	17T	0.00	3.00	17T_040721	4/7/2021	1031	w-sw	WATER	REG	1_	grab	Υ	х								L					
-	1711			17M_040721	4/7/2021		w-sw	WATER	PEG-		orab						1									
9	178	2.00	3.0	17B_040721	4/7/2021	1033	w-sw	WATER	REG	1	grab	Υ	х		\perp	\perp	11					<u> </u>				
10	18T	0.00	9.75	18T_040721	4/7/2021	1036	w-sw	WATER	REG	1	grab	Υ	×			\perp	146	L	_	_						
17	18M	-		18M_040721	4/7/2021		WSTW	WATER	REG		grab				_			_	_		\perp	_				
12	18B	8.75	19.70	18B_040721	4/7/2021	1036	w-sw	WATER	REG	1	grab	Υ	×													
Rel	inquished by	~ BV	M	Compar	M HE		Received by							Com	pany	uc	بلاني	Con	dition		T		Custo	dy Se	als Intact	
Г				Date/Time 4	7/71	425	0	حط				D	ate/Ti	me/ 1	1/25	4)	7	Coo	ler Ten	np.						
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N	J 33-1-1	KT		Date/Time	18/21	1204		MYK			1-//	8/2	(10	0			\bot	ler Ter							
Pre	sarvatives: (Othe	er; Specify):					0 (none); 1 (4 l (pH<2), 4Deg	Deg C); 2 (H C); 11 (4C N	CI pH<2); 3 (aOH (pH>12	HNO3 pl	H<2; 4 irbic Aci	(H2SO4	4 pH<2 4C H25	?); 5 (Na SO4 (pH	OH pH> <2) & N	12); 6 (f a25203	NaOH, Z); 13 (Zr	n Acet	ale); 7 (ite); sp	H2SC (speci	4 (pH< al instr	2), 4 D actions	eg C));	8 (HC	l pH<2); 9 (HCl 4 Deg l	C); 10 (HNO3
			,																							

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Lancaster Laboratories

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_	nt Contact: (n	ame, co.,	audress	1	Sampler:	45000138	ME, JM	JM.			Preser	in Allera	3			-	-	-	-	_	4	-	-	-		Site ID Lab Job #	BALTIWORE
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L	Location ID	Depth (ft)	Depth (ft)	Field Sample ID							Units											1				Sampling Method (code)	Lab Sample Numbers
1	19T	10.00	6.50	19T_040721	4/7/2021	1049	w-sw	WATER	REG	4	grab	Υ	х				-		\perp	\perp					Х		
	19M			19M_040721	AIT/2024		W-SW	WATER	REC		onab	_												l			
3	198	5.50	6.50	19B_040721	4/7/2021	1050	w-sw	WATER	REG	1	grab	Υ	х									П					
4	20T	0.00	7.50	20T_040721	4/7/2021	1053	W-SW	WATER	REG	1	grab	Υ	х														
-5-	20M			20M_040721	4/1/2021		WSW	WATER	REG	_	grab		_														
в	20B	1.50	2.50	208040721	4/7/2021	165	w-sw	WATER	REG	1	grab	Υ	х														
7	Cent T	0.00	7.92	Cent T_040721	4/7/2021	936	W-SW	WATER	REG	1	grab	Υ	х														
-0-	Cent M			Oent M_040721	4/7/2021		W-SW-	WATER	REG	_	DIRD	-	_														
9	Cent B	6.92	7.92	Cent B_040721	4/7/2021	938	W-SW	WATER	REG	1	grab	Υ	Х					1									
10	LADY T	0.00	1.83	Lady T_040721	4/7/2021	933	w-sw	WATER	REG	1	grab	Y	х														
11	Lady-M			Lady M_040721	4/7/2021		wsw-	WATER	REC-		grab							:			\perp						
12	LADY B	0.83	1.83	Lady B_040721	4/7/2021	934	w-sw	WATER	REG	1	grab	Y	х												L		
		-04			11/1/		In				_			_				. 10					Is	71-			
Rel	inquished b	\sim $_{\rm UY}$	m	Compan	MAICI		Received by	^					. =		npany	Jes	(۵)		onditi		4			Justo	oay S	eals Intact	
				Date/Time 4	7/21	1425	P\$/	/_				D	ate/Ti	" 4]		Z E	W	4		Temp.							
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7	דפאנה			Date/Time L	18/21	1204		my		00		(JUD				N-202	221. 41			Temp.			1				
Pre	(pH<2), 4Deg C); 11 (4C NaOH (bH>12) & Ascorbid Acid), 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (2n Acetate); sp (special instructions)																										

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ampling Co.:	Maryland	Environmen	ntal Service	EDD To:		matthew.gillise	Djacobs.co	om			n at Si	ito: E	BALTIM	ORE, N	D	_		gram	Sum	CE TVE	SAUT	Lab (D	KINDEL LINE
lient Contact: (r	ame, co.,	address) .	Sampler:	HM	PUT	4,1	N				\neg	T	T				T				Site ID	BALTIMORE
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		le identific	ation	Sample Date	Sample	Sample Type	Sample Matrix	Sample Purpose		Сомр	Perd	8W6010			Ιl					1 1		8.9 Unauthorized use strictly probabiled.	
Location ID	Start Depth	End Depth	Field Sample ID			1,7,74	Matte	T di poss	COIR	0.1	-	_,										Sampling Method	Lab Sample
	(ft)	(ft)	, , , , , , , , , , , , , , , , , , ,				1111			Units		Von										(code)	Numbers
14B	1.67	2.67	D1_040721	4/7/2021	946	w-sw	WATER	FD	1	grab	Υ	х					-						
2 10T	10.00	3.01	D2_040721	4/7/2021	1002	w-sw	WATER	FD	1	grab	Υ	x				- 1		1					
148		3.58	D3_040721	4/7/2021	1024	w-sw	WATER	FD	1	grab	Y	х											
ZOT	000	2.50	D4_040721	4/7/2021	1053	w-sw	WATER	FD	1	grab	Υ	х											
FIELDQC	_		FB_040721	4/7/2021		BLKWATER	WATER	FB	1	grab	Y	x	\perp	\perp		4	_	_	_		1		
FIELDQC	1-	-	RB1_040721	4/7/2021		BLKWATER	WATER	EB	1	grab	Y	x	_	\perp	Ш	_	1	_	_	Ш			
FIELDQC	-	_	RB2_040721	4/7/2021	1048	BLKWATER	WATER	EB	1	grab	Υ	X	_	+	Ш	_	1	\perp	_		\sqcup		
FIELDQC			RB3_040721	4/7/2021		BLKWATER	WATER	FB	1	grab.	<u> </u>	7	\dashv	+	Н	\dashv	-	+	\vdash		\vdash		
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7777			Date/Time	41812	1/20	toH<2), 4Deg (JOON	- 11	010	1		te/Tim					T reloc						

July 9/8/2/17:00

Login Sample Receipt Checklist

Client: Honeywell International Inc Job Number: 410-35284-1

Login Number: 35284 List Source: Eurofins Lancaster Laboratories Env

List Number: 1

Creator: Rivera, Tatiana

Creator: Rivera, Tatiana		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (=6C, not frozen).</td <td>True</td> <td></td>	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (=6C, not frozen).</td <td>N/A</td> <td></td>	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	N/A	

Eurofins Lancaster Laboratories Env

Page 39 of 39 4/19/2021

Appendix A-2 Chain-of-Custody Records—April 2021



410-35284 Chain of Custody

2426 New Holland Pike Lancaster, PA 17605-2425 (717) 858-2300 Privileged & Confidential N Site Name: Baltimore Inner Harbor Phase: Sampling Co.: Maryland Environmental Service EDD To: matthew.gillis@jacobs.com Location of Site: BALTIMORE, MD Program Sampling. Client Contact: (name, co., address) Maria Kacuma PO # 4500013808 Preservative 3 Analysis Turnaround Time (TAT): 7 Morris Plains, NJ 07950 Preservative 3 Analysis Turnaround Time (TAT): 7 Consultant Ch2M Sample Rousipt Hard Copy To Any Klopper Hard Copy To Any Klopper Sample Maria Kacums Sample Maria Kacums Sample Maria Kacums Sample S	IUI	COC# Lab Proj # (SDG): Lab ID Site ID	10905-102629-1
Privileged & Confidential N Site Name: Baltimore Inner Harbor Phase: Sampling Co.: Maryland Environmental Service EDD To: matthew.gillis@jacobs.com Location of Site: BALTIMORE, MD Program Sampling Co.: Maryland Environmental Service EDD To: matthew.gillis@jacobs.com Location of Site: BALTIMORE, MD Program Sampling Co.: Maryland Environmental Service EDD To: matthew.gillis@jacobs.com Location of Site: BALTIMORE, MD Program Sampling Co.: Maria Kaouns Program Sampling Co.: Maria Kaouns Consultant Co.: Maria Kaouns Consultant Co.: Maria Kaouns Program Sample Reteipt Full Report TAT: 14 Sample Reteipt Full Report TAT: 14 Sample Reteipt Sample Samp	Tot	Lab ID	
Sampling Co.: Maryland Environmental Service EDD To: matthew.gillis@jacobs.com Location of Site: BALTIMORE, MD Program Sampling Client Contact: (name, co., address) Sampler: A	To T	Lab ID	
Sampling Co.: Maryland Environmental Service EDD To: matthew.gillis@jacobs.com Location of Site: BALTIMORE, MD Program Sampling Client Contact: (name, co., address) Sampler: A			
Client Contact: (name, co., address) Sampler: A		Site ID	111
Analysis Turnaround Time (TAT): 7 Morris Plains, NJ 07950 Consultant CH2M Sample Receipt Hard Copy To Arny Klopper Invoice To: Maria Keouris Sample Isample Sample Sample Sample Sample Sample Sample Sample Sample Cont. Sample Isample Isample Sample Sampl			BALTIMORE
Morris Plains, NJ 07950 Consultant CH2M Preliminary Dafa To Sample Receipt Hard Copy To Amy Klopper Full Report TAT: Invoice To: Sample Klandis Kaouris Sample S		Lab Job#	
Sample Receipt Hard Copy To Amy Klopper Full Report TAT: 14 Invoice To: Maria Keouris Sample S		Authorized User:	Honeywell
Sample Receipt Hard Copy To Amy Klopper Full Report TAT: 14 Invoice To: Maria Keouris Sample S	. 1	Secretary and the second	Fred A Test Fee
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	SWSD	Copyright AESt: Version 0.8 Unauthorized use strictly probabiled.	
Start End			
Location ID Depth (ft) Field Sample ID Units a		Sampling Method (code)	Lab Sample Numbers
1 3T 0.00 2.92 3T_040721 4772021 940 W-SW WATER REG 4 grab Y X	Х		
3 3M_UGOT21 GT72021 W.SW WATER REG GOAD			
3 3B 1.92 2.92 3B_040721 4772021 94) W-SW WATER REG 1 grab Y X			
4 4T 0.00 2-10 4T_040721 477/2021 944 W-SW WATER REG 1 grab Y X			
15 IM M. 040721 4///2021 W-SW WATER RED 9185			
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
7 5T 0.00 3.75 5T_040721 4/7/2021 947 W-SW WATER REG 1 grab Y X			
8 5M 5M 040721 47/2021 W 6W WATER REC 9/8b			
9 5B Z.75 3.75 5B_040721 4772021 949 W-SW WATER REG 1 grab Y X			
10 8T 0.00 3.25 8T_040721 4772021 950 W-SW WATER REG 1 grab Y X			
6M			
12 6B 2.75 3.75 6B_040721 4/7/2021 962 W-SW WATER REG 1 978b Y X			
165	Custody S	Seals Intact	
Date/Time 417/2/47 M Date/Time Cooler Temp.			
Date/Time U/R/7 1394 W Date/Time Cooler Temp. Privaryativas: Other: Specify :	Custody S	Seals Intact	

July 4/8/21 17:00

Time

4/19/2021

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Lancaster Labo	ratories														Ti.			_	_				AESI Ref:	44280,31869
2425 New Holland Pik	:0				Hone	eywe		Chain	Of C	ustod	y / An	alysi	is Red	ques	t								COC#	30905-102620-2
Lancaster, PA 17605-2	2425				1101-1	53																		
(717) 656-2300				Privileged &	Confidenti	al .	N			Site Na	1958 *	В	ltimore	RIH		_	Pha		T			\neg	Lab Proj # (SDG):	
Sampling Co.:	Maryland	Environmen	ntal Service	EDD To:		matthew.gillise	Miscobs cr)m			on of SH		_		1			gram		ace III	ator	-	Lab ID	141
Client Contact: (na				Sampler:			M. VI			-	JII C.	-	Limo	1	1	-		1	Same	_ ممنام	T		Site ID	BALTIMORE
Maria Kaourts	,,	,		PO#	450001380		1111			Preserve	ritive	3	_			-	+	+-	+	 -	+		Lab Job #	
115 Tabor Rd				Analysis To				7			~						_	1	+	\vdash	1	_	Authorized User:	Honeywell
Morris Plains, NJ 07950	00				Consultant	ı		CH2M			9													
Preliminary Data To	MITTING W.E.		LEST COVALIDATA TOUR CON							ا ۾ ا	Sample	F		1		- 1	ľ				/		Text & Excel File Drive	Excel & Text File
Sample Receipt	THE PERSON NAMED IN		Company Adjust the Appropriate Com-				_			osite/Grab	N P	СРгоши												Order
Hard Copy To	Amy Klop	per		Fu	ill Report T/	AT:		14		ite.	6	ž.				=		l						
Invoice To:	Maria Kao	uris								00	Filter	ģ												
				Sample	Sample Time	Sample	Sample	Sample		Сощр	Field	SW6010				=							Copyright AESt: Version 8.6 Unauthorized use	
	Sampl	e Identifica	ition	Date	i ime	Туре	Matrix	Purpose	Cont.	ŬΙ	Ú.	S	+		_	1		+	╄	╄	4	igspace	etrictly prohibited,	
Location ID	Depth (ft)	Depth (ft)	Field Sample ID							Unita		JOIL.				- 000							Sampling Method (code)	Lab Sample Numbers
1 7T	0.00	3.33	7T_040721	4/7/2021	953	W-SW	WATER	REG	1	grab	Y	x												
2 7M	$\overline{}$		/M_040721	4/7/2021	\vdash	W-SW	WATER	REC		grab		\Box						\top	\top					
3 7B	2.33	333	7B_040721	4/7/2021	954	W-SW	WATER	REG	1_1_	grab	Υ	x					_	+	\top		\vdash			
4 8T	0.0	350	8T_040721	4/7/2021	956	w-sw	WATER	REG	1	grab	Υ	x				\Box								
-5 8M			6M_648721	4/7/2021		WSW	WATER	REC		grab		-					T							
6 8B	2.50	3.50	88_040721	4/7/2021	948	w-sw	WATER	REG	1	grab	Y	x				\neg	\neg		\top					
7 9T	00.0	2,75	9T_040721	4/7/2021	959	w-sw	WATER	REG	1	grab	-	x					\top	+	+	_	_			
8 9M			9M_040721	47/2021		-W-9W-	WATER	REO		grab							+	_	+	_	_			
9 9B	1,75	2.74	98_040721	4/7/2021	1001	w-sw	WATER	REG	1	dtap	Y	x						1						
10 10T	0.00	3.01	10T_040721	4/7/2021	LOOZ	W-SW	WATER	REG	1	grab	Y	x						1						
T1 10M			10M 040721	4/7/2024		WSW	WATER	REG	_	grap		7									\top	\Box		
12 10B	Z.01	3.01	10B_040721	4/7/2021	1004	W-SW	WATER	REG	1	grab	Y	х												
										-														
Relinquished b	S	m	Сотра	" MEI		Received by						C	Compan	يمال ا	الهمن	50	ondition		Т		Custo	ody Se	sals Intact	
, , ,			Date/Time L	7/211	425	MA	1				Date	e/Time	17/7	1/	142	25°	ooler Te	mp.	Т					
Relinquished by	71/1	\	Compa	ny		Received by	- it	1	2 407			- 30	ompan	/			ondition				Custo	ody Se	eals Intact	
TUNE		1	Date/Time A	1421	100	JUN	918	141	LO	Ø	Date	e/Time				C	ooler Te	mp.						

John 4/8/21 17:00 Cor 4-8-21 1719

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La	ncaster Labo	ratories																							AESI Ref:	44280.32010
2425	5 New Holland Pik	•			l H	one	ywel		Chain	Of C	usto	iy / A	naly	sis i	Req	uest									COC#	30905-102620-3
Lane	caster, PA 17605-	2425					J																			
(717	7) 656-2300				Privileged &	Confident	al	N			Site N	ame:		Baltin	nore Ir	nner H	arbor		PI	1430:	Т				Lab Proj # (SDG):	
Sar	mpling Co.:	Maryland	Environme	ental Service	EDD To:		matthew.gillise	Qiacobs.co	m		Locat	MOR	E, MD				ogram	34	ICO Y	वारा		Lab ID	E STATE			
Cile	ent Contact: (n	me, co.,	address)	Sampler:	AM.	RI JE	HT I								T			\neg	Ť	-	noline.	T		Site ID	BALTIMORE
Man	ia Kaouris				PO#	45000138		7,4,1			Preser	rative	3						-	_	1				Lab Job#	
	Tabor Rd				Analysis T	urnaround	Time (TAT):		7								T								Authorized User:	Honeywell
	ris Plains, NJ 0795					Consultan	t		CH2M			6 2								-1						
Frei	liminary Data To			et com tarvar i la lagoria della comi	ii ii							Sample	_										1		Taxt & Family le Princ	Exert & Text File
	nple Receipt	THE RESERVE AND ADDRESS OF	AND PERSONS IN CO.	ha con : £1,044 104 TA© man £00				-			1 2		mn.		- 1		- 1						ı			- United
	d Copy To	Amy Klop		parties and see linear results and and	Fu		14		E/G	Filtered	Chron		- 1		- 1						1					
	oice To:	Maria Ka									1 2	#	0 0					- 1	- 1				1	9		
					Sample	Sample	Sample	Sample	Sample	# 01	Comp	plei-	SW6010						- 1					SWSD	Copyright AESE Version B.B Unsuthorized use	
\vdash		Samp	le identific	cation	Date	Time	Туре	Matrix	Purpose	Cont.	ŭ	iÈ	Ŝ			_	_		+	-	+	-	\vdash	ž	strictly problems.	
	Location ID	Depth	Depth	Field Sample ID				341																	Sampling Method	Lab Sample
	44	(n)	(ft)								Unita														(code)	Numbers
1	11T	0.60	3.00	11T_040721	4/7/2021	1911	W-SW	WATER	REG	4	grab	Υ	Х											Х		
2	11101			11M_040721	4/7/2021		- W-9W	WATER	REG		erob					П			\neg		Т		Т			
3	11B	2.0	3.00	11B 040721	4/7/2021	1013	w-sw	WATER	REG		grab	Υ	Х			\neg	\neg									
4	12T		2.15	12T_040721	4/7/2021	1016	W-SW	WATER	REG	1	grab	Ÿ	X			\dashv	\dashv			+	+		1			
+		0.00	V. 13			1010				 '	grab	'	<u> </u>	-	-	-	\rightarrow	-	_	+	+	+	-	-	-	
-6-	12M		2 -6	1314_040731	4/7/2024	INIGA	W-3W	WATER	REG		grab			\dashv		\rightarrow	-	-	-	+	+	-	\vdash	-		
6	12B		7.79	12B_040721	4/7/2021	1018	W-SW	WATER	REG	1	grab	Υ	Х			_	_		_	\perp			_	_		
7	13T	0.0	3.08	13T_040721	4/7/2021	1019	W-SW	WATER	REG	1	grab	Y	Х													
8	15M			13M_040721	4/7/2021		W-SW	WATER	REG	-	DIED			-												
9	1	7-08	3.0%	138_040721	4/7/2021	1021	w-sw	WATER	REG	1	grab	Υ	х								Т					
10			3.58	14T_040721	4/7/2021	1023	w-sw	WATER	REG	1	grab	Υ	Х						\neg	\neg	T					
-	1414			14M 040721	4/7/2021		W-3W	WATER	REG		grab							10	\neg		\top		\Box			
12		1 40	3.58	148_040721	4/7/2021	1024	W-SW	WATER	REG	1	grab	Y	X				\neg			+			\top			
		12.0	7		4772021	1106	11-011	TWATER	11120	<u> </u>											_					1
Rel	linquished by	~M	M	Compa		Received by							Com	ърапу	10	ىي	اهج	onditio	on .	T		Cust	ody S	eals Intact		
	- (3		111	Date/Time	14171	1476	NA	1				D	ate/Tir	ng,/	17	7	/1		cooler	Temp.			\top			
Rel	(Inquistract by	. 1		Compa	DV C	160	Received by	0 1	1 10		+				pany	4	- [-		onditi	n n	+		Cust	ody S	eals Intact	
(7 77	} /\			नीर्यटा	1204	TWX	1 4	1/2	120	ф	D	ate/Tir						cooler		+		1	, -		
Pre	servatives: (Othe	r; Specify	<u> </u>		111 26	1	(pH<2);/4Deg 0); 11 (4C #	OH (pH>12						1<2) &	Na2S2	Q3); 1:				cial Ins	truction	\$)		-·	

John 4/8/21 17:00

an	caster Lab	oratorie	5	100	A CHARLEST WINDOW								-											IA	ESI Ref:	44280.32343
_	New Holland Pi		toda			H	nne	ywel		Chain (Of Cı	ustod	v / Ai	naiv	sis R	eaue	st							ā	OC#	30905-102620-4
	aster, PA 17605						UIIC,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								•								H		
) 656-2300					Privileged &	Confidentia	al	N			Site N	ıme:		Baltimo	ore Inne	r Harb	or	Ph	180:				L	ab Proj # (SDG):	
San	npling Co.:	Marylan	d Env	vironmer	ntal Service	EDD To:		matthew.gillis	@jacobs.co	om		Locati	on of S	ite:	BALTIA	ORE,	MD		Sal Pro	npring"	Surfac		ter	L	ab ID	2 LU
Clie	nt Contact: (r	ame, co	ad	dress)		Sampler:	AM.	By. Th	MZ L				\Box			Т	Т			\top				S	ite ID	BALTIMORE
_	a Kaouris		,			PO#	450001380	16	1,31			Preserv	ative	3		V.0								L	ab Job#	
	Tabor Rd					Analysis Ti				7							T	J.						4	wthorized User:	Honeywell
	ris Plains, NJ 079		NOTE:N	(B) track	RECEIPT TO THE RECEIPT OF THE PERSON OF THE		Consultani			CH2M										1				100	Text & Excel File Drive	Excel & Text File
Sample Receipt Indianation of the control of the co				1							6 2											ľ	ext & Excel File Drive	Order		
	igie Receipt nowledgement T	· VIII	NAME OF A	Second Lab	tim partos kida biscobs ecis.							0	Ē	_										- [İ
Haro	d Сору То						il Report T	AT:		14		site/Grab	N N	Time.				l						- 1		0
Invoice To: Maria Kaouris										site	Iten	Chr				:					- 1					
						Sample	Sample	Sample	Sample	Sample	# of	Сошро	Field Filtered Sample	SW6010 Chror										(a.	opyright AESI: Version & Unauthorized use	
		San		dentific End	ation	Date	Time	Туре	Matrix	Purpose	CONC	Ü	证	ົທ			+							ď	trictly prohibited.	
	Location ID	Depth (ft)	ם	Oepth (ft)	Field Sample ID							Unite													Sampling Method (code)	Lab Sample Numbers
1	15T	0.00	7 1	.50	15T_040721	4/7/2021	1825	w-sw	WATER	REG	1	grab	Υ	х					_							
2	15M		+		15M_040721	4/7/2021		-w-cw-	WATER	REG		grab		_				-								
3	15B	0.50	١١,	.50	15B_040721	4/7/2021	1026	w-sw	WATER	REG	1	grab	Υ	Х												
4	16T	0.0	519	.Sx	16T_040721	4/7/2021	1028	w-sw	WATER	REG	1	grab	Υ	Х				11								
Ŀ	18M		\top		10M_040721	4/7/2021		W-SW	WATER	REG		grab	L.					1						- 1		, ,
8	16B	8.5	09	.40	16B 040721	4/7/2021	1830	w-sw	WATER	REG	1	grab	Y	X												
7	17T	0.0	~	.00	17T_040721	4/7/2021	1031	w-sw	WATER	REG	1	grab	Υ	х												
			-		17M_040721	4/7/2021		w-sw	WATER	REG-		orab		_				117								
9		2.0	03	3.0	17B_040721	4/7/2021	1033	w-sw	WATER	REG	1	grab	Y	х												
10	18T	0.0	0	1.75	18T_040721	4/7/2021	1036	w-sw	WATER	REG	1	grab	Υ	х												
77	18M		-		18M_040721	4/7/2021		_W STW	WATER	REG		grab														
12		8.7	<u>ر</u> د	1.74	18B_040721	4/7/2021	1036	w-sw	WATER	REG	1	grab	Υ	х												
Ral	inquished by	h	1/\	^ ~]	Compar	nvl \		Received by				т -			Comp	any		201	Conditio	n	Т	_	Custod	dy Sea	als Intact	
F		VVU	<u>Y Y</u>	V \	Date/Time U	117	475	N	<u></u>			\vdash	Da	ite/Ti	me/ 17	15 7	11)	2	Cooler T	emp.						
Rel	linguished by	12 50			Compa	ny	100	Received by	110				11		Cam	апу	72		Conditio				Custod	dy Sea	als Intact	
T	1-66 CM	KA			Date/Time 4	18/21	1204	<	WK			4	8/2	ite/Ti	2:0	0		10	Cooler T	emp.					VI	
Pre	eservatives: (Oth	er Specif	v)·					0 (none); 1 (4 I (pH<2), 4Deg (Deg C); 2 (H C); 11 (4C N	CI pH<2); 3 (laOH (pH>12	HNO3 p	H<2; 4	(H2SO4 1); 12 (4	pH<2 C H25); 5 (NaC iO4 (pH4	OH pH>1 <2) & Na	2); 8 (N 25203)	aOH; Zn.	Acetale);	7 (H2SC	04 (pH< al instru	:2), 4 D uctions)	eg C)); 8	8 (HCI	pH<2); 9 (HCI 4 Deg 0	C); 10 (HNO3
		upwell	,,,											_												

John 4/8/21 17:00 Car 4-821 17:00

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Lar	icaster Labo	ratories	77																	AESI Ref:	44280,33376					
2425	New Holland Pik	•			H	one	ywel		Chain	Of C	usto	dy / A	Analy	ysis	Req	uest									COC#	30905-102620-5
Lane	aster, PA 17805-	425					J																			
(717	656-2300				Privileged &	Confidenti	al	N		7,	Site N	lame:		Baltin	nore I	nner H	arbor		Phase:						Lab Proj # (SDG):	
San	npling Co.:	Maryland	Environme	ntal Service	EDD To:		matthew.gillis	@jacobs.co	m		Locat	ion of	Site:	BALT	IMOR	E, MD		1	P	ogram		maco			Lab ID	LU
Clie	nt Contact: (n	me, co.,	address)	Sampler:	IFM .	SLI JM	.TM										\Box			1		T		Site ID	BALTIMORE
	a Kaouris				PO#	45000138		7			Preser	vative	3					-							Lab Job #	
_	Tabor Rd						Time (TAT):		7			2									Т	Т			Authorized User:	Honeywell
	is Plains, NJ 0795]				Consultan	t		CH2M			apple					- 1			- 1	-	- [
	minary Data To	C PARTY		Party Statement of the Party	l l						9	Sample	Ę								- [1	Test & Exist File Date	Excel & Text File Order
	nle Receipt		All Normalities		1						ပ်		шпшо	ll										1		
	Copy To	Maria Kad		ls Street; Baltimore, MD 21231	Fu	il Report T	AT:		14		osite/G	Iter	Š								-			Ι.	1	
HIAC	ice to:	Imana Nac	Juna		Sample	Sample	Sample	Sample	Sample	# 01	1 8	ield Filtered	50	1 1							-			MSMSD	Copyright AESI: Version	
		Samp	le identific	ation	Date	Time	Туре	Matrix	Purpose	Cont.	Ö	Fiel	SW6010			_								MSA	If A Unauthorized use strictly prohibited.	
Γ	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID				83			Units											3			Sampling Method (code)	Lab Sample Numbers
	19T	0.00	6.50	19T_040721	4/7/2021	1049	w-sw	WATER	REG	4	grab	Υ	х											х		
	19M			19M_040721	A17/2021		W-5W	WATER	REC		orah.	-	-									Т	\top			(=-
3	19B	5.50	6.50	198_040721	4/7/2021	1050	w-sw	WATER	REG	1	grab	Y	х					=			\top			Т		
4	20T	0.00	7.50	20T_040721	4/7/2021	1053	w-sw	WATER	REG	1	grab	Y	х						\neg							
\vdash				-			WSW									\neg			\neg	_		\neg		\top		
-	20M		26	20M_040721	4/1/2021	1100	10.210	WATER	REG		grab					\rightarrow	-	-	+	-	+	+	+	+		
8	20B	1.50	2.50	208040721	4/7/2021	1055	W-SW	WATER	REG	1	grab	Υ	X				-	-	-	+	+	+	+	╀		
7	Cent T	0.00	7.92	Cent T_040721	4/7/2021	936	W-SW	WATER	REG	1	grab	Y	Х	\square			4		\perp	_	\bot	\bot	_	_		
-0-	Cent M			Gent M_040721	A/7/2021		W-SW	WATER	REG		grap	<u> </u>	_				\perp				\perp					
9	Cent B	6.92	7.92	Cent B_040721	4/7/2021	938	w-sw	WATER	REG	1	grab	Y	х									\perp	\perp			
10	LADY T	0-00	1.83	Lady T_040721	4/7/2021	1933	w-sw	WATER	REG	1	grab	Y	X									\perp				
11	Lady-M			Lady M 040721	4/7/2021		w-sw	WATER	REC		grab		_													
12	LADY B	0.83	1.83	Lady B_040721	4/7/2021	934	w-sw	WATER	REG	1	grab	Y	х													
																_										
Rel	inquished b	NUY	M	Compan	1111		Received by	_							npany	Ju	4	751	ondition		\perp		Cus	tody S	ieals Intact	
				Date/Time 🗸	7/21	1425	P\$	/_\				D	ate/Ti	^m "41	7	7	14	Z	ooler	Temp.						
Rel	inquisited by	λ		Compan			Received by	010				h		Coll	npany	77.0		-	Condition Custo					tody 5	eals Intact	
Date/Time					18/21	1204						X Lb							ooler		T					
Pre	servatives: (Othe	r; Specity):					(pH<2), 4Deg 0	c); 11 (4C N	аОН (βН>12	Asco	rbid Aci	0): 12 (4	4C H2S	3O4 (pł	1<2) &	Na2S2(03); 13	(Zn Ad	etate);	sp (spe	cial in	structio	uz)			

ancaster Lab 125 New Holland P ancaster, PA 17605	Hon			Honeywell Chain Of Cu						ustody / Analysis Request											AESI Ref: COC#	44280,36398 30905-102620-6			
17) 656-2300				Privileged &	Privileged & Confidential				N I				Battim	ore Inn	e Hari	bor		Phase:	T	_			Lab Proj # (SDG):		
ampling Co.:	Maryland	Environme	ntal Service	EDD To:	Djacobs.co	Site Name:						_	Progra	m 1-2	orrect			Lab ID	SUMPRIMILLIANTE						
lent Contact: (Sampler: HM, PV, TN													T	-	ample.	1		Site ID	HALTIMORE		
eria Kaourts				PO#	45000138		سبب	_		Preserve	dy6	3			1				_	+			Lab Job #	the Company of the Company of the Company	
5 Tabor Rd				Analysis T	umaround	Time (TAT):		7			-												Authorized User:	Honeywell	
orris Plains, NJ 079					Consultan	it	- 1	CH2M			흕								- 1						
eliminary Data To	Section 12		1. Maria Panasa Banasa							4	Filtered Sample	Ę			1		1						Text & Excel File Drive	Excel & Text File C	
implo eceipt	in all help		(B) PYSANT					14		ğ	P	Ë			1			- 1							
ırd Copy To	Arny Klor			Fu	Full Report TAT:					site/Grab	Fe	5				1	ы		- 1						
voice To:	Maria Ka	ouris		Sample	Sample	Sample	Sample	Sample	# of	0 1	E D	SW6010											Copyright AESI: Version		
	Samp	le identific	ation	Date	Time	Туре	Matrix	Purpose		Сомр	ReE	8We			-			- 1		-1			8.9 Unauthorized use outcily probbbled,		
Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID		Te.					Unita		John To											Sampling Method (code)	Lati Sample Numbers	
4B	1.60		D1_040721	4/7/2021	946	w-sw	WATER	FD	1	grab	Y	Х								\neg					
107	0.00	3.01	D2_040721	4/7/2021	1002	w-sw	WATER	FD	1	grab	Y	х													
148		3.58	D3_040721	4/7/2021	1024	w-sw	WATER	FD	1	grab	Y	Х							\top	\top	1				
ZOT	00		D4_040721	4/7/2021	1052	w-sw	WATER	FD	1	grab	Υ	Х													
FIELDQC	-		FB_040721	4/7/2021		BLKWATER	WATER	FB	1	grab	Y	х		_	1	_	Ш			_		_	1		
FIELDQC	_	_	RB1_040721	4/7/2021	1009	BLKWATER	WATER	EB	1	grab	Y	х									\perp				
FIELDOC		-	RB2_040721	4/7/2021	1048	BLKWATER	WATER	EB	1	grab	Υ	х		\perp	\perp	_			4	1	\perp	1			
FIELDOC			RB3_040721	4/7/2021	-	BLKWATER	WATER	FR	-	grab	<u> </u>	7		+	+	+		\dashv	+	+	+	_			
					-				-			_	\square	+	+	+	- 1		+	+	+	+			
0					_						_		\sqcup		_	+			\dashv	\rightarrow	-	_			
11																									
2	7				1											T									
	1	Ma.	Comp	and it		Received by							Com	necul \$			Cond	linn			Ic	ustody	Seals Intact		
elinquished b	vm	INN	Date/Time		1170	W	1.			-	Da	te/Tj	ובלו		54	<u>~></u>	1	r Temp	. +						
elinguighed by 3	21		Comp	MAGE	146	Received by		-//	2 /2	12	: br	_4	Com	Z./	14.	25	Cond	tion	\dashv		Ci	ustody	Seals Intact		
324	/\		Date/Time	यायी 2)\\\		8/6	11		te/Ti		1			Cook	r Temp	3.						
servatives: (Oth	ar Scacibe			771 01 -		(pH<2), 4Ded (1. 11 (4C N			orbic Act	1 12 (4	C H2	SO4 (pt	101 B No	29201	11 13 12	n Acete	tel: sp t	SDecia	Inetru	ctions)				

Jul 9/8/4 17:00

Appendix A-3 Field Report—April 2021

BALTIMORE INNER HARBOR SURFACE WATER SAMPLING

April 7, 2021

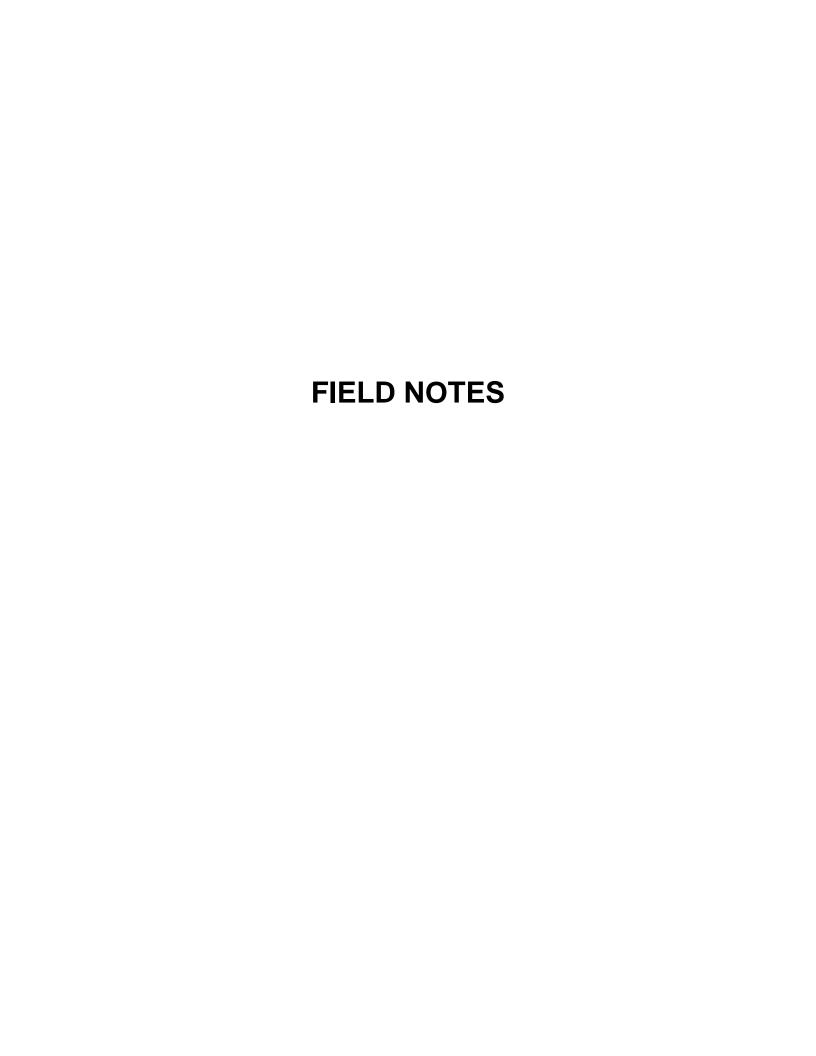




METER CALIBRATION LOG

BIH CALIBRATION LOG

			W. 1. 0		
DATE	ME	METER	BUFFER	SAMPLING EVENT	INITIALS
7/11/18	8,00	10RIBA3	AUTOCAL	SEDIMENT SAMPLING	LV
8/6/18	800	HURIBA 3	AUTOCAL	SURFACE WATER	AH
10/3/18	# 5 525	HORIBZ	AUTOCAL	Ground water	AH
11/19/19	755	HORIBA 3	AVTUCAL	· SURFACE WATER	LV/CI+
3/4/19	945	HORIBA 3	AUTOIAL	SURFACE WATER	W
4/10/19	0530	Honba 1	Autocal	Grandwater	BL
4/1/19	930	HORIBA3	Aviocal	& Drainage Layer	BRK/W
3/14/19	830	I HORIBA3	Aurocal	Surface water	CH
6120119	915	1DRIBA3	Aurocal	surface water	(0
10/2/19	545	TORIBAI	Autocal	Groundwater	CO
10/23/19	812	ITORIBA 3	Aurord	Surface water	co
3/5/20	648	Horiba 3	Autocas	SWFaa Wate	AM
5/19/20	700	HMba 31	Authul	Ground war	AB
611126	850	thomba3	Aut o (a)	Surface Water	AB
6/2/10	917	Honba3	AUTOCO	Dramage Layer	AB
9/11/20	0840	Horiba 3	Auto Cal	Surface Water	BL
10/6/20	092 0645	Horiba 3	Auto Cal	Groundwater	13 L
11/13/20	M850	Horiba 3	Auto Cal	Surface Water	BL
2/24/201	0900	Horiba3	Autolal	Surface Water	(0)
4/7/21	0850	Horba 3	Auto Cal	Surface Water	13 L
		2 70 8 1			
1 1 3 3 1					
8 1 1 3		8 1 8 8			1 3 9
		3 X			
		3 B S II	0 1 7 0		
		1 1 31 1	2 5 0 5		
					3 1 1 7
			1 1 1 1		2 2
7 1 3					1 1 1
	3 1 8 1			V 1 V 4 V I V 3 B	1 4 1
		1 1 2 1 6			
		V 1 4 V I			
		1 1 2 2			
			8 8		
Scale: 1 square =					lite in the Rain
Scale Square		1	1	1.0	wee in the Million



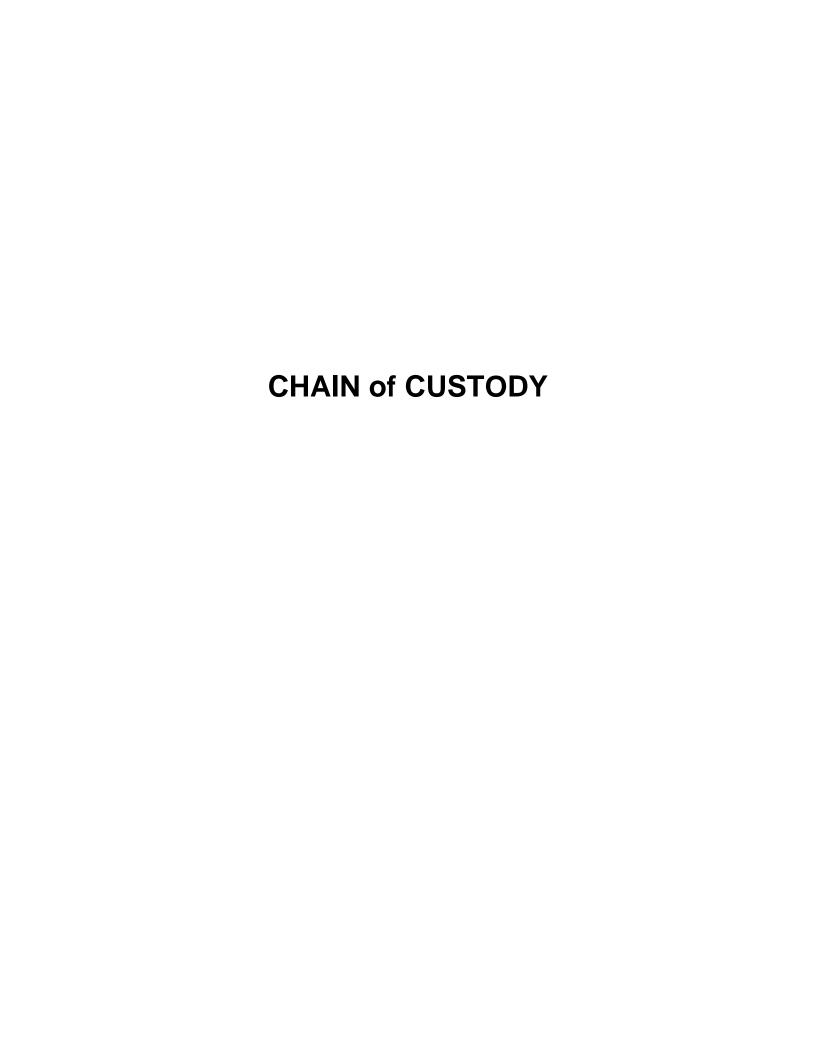
Bi	H Surface	417/21										
San Boa	npiers: All 1 Captain:	ч, ЈМ,	BL									
Low	Ther Cond Tide: 10 ing Winda	itions: 5 123am w: 9:22	7°F Su	1114 : 23am		10 10 10 10 10 10 10 10 10 10 10 10 10 1						
	Depth to L	Sample	Time (MRS)	pH (unik)	Temp (co)	Sp. cond.	Inihab					
Ladyt	1'10"	0/	933	6.22	H.81	4.69	AM					
Lady B	1-10%	10 %	934	6.45	14.08	8.83	AM					
CentT	7/11/0	9>	936	6.85	14.86	4.08	AM					
CentB	7/11/2	6/11/	938	6.78	12.77	12.50	AM					
3 7 🕱	2'11"	0-	940	7.14	13.25	4.65	AM					
3 B	2/11/	1/11/2	941	7.10	13.43	8.74	AM					
41	2/83	0	944	7.16	13.82	8,94	AM					
48 Dup	2'8"	1/8/-	946	7.24	13.42	7,99	AM					
ST	3-9"	0′	947	7.43	13.08	6.21	AM					
5 8 0	3-90	2'9"	949	7.40	8.46	8.14	AM					
6.7	3'3"	8	950	7.50	13.30	6.34	AM					
6 B	3′3″	2′3″	952	7.52	13.37	1,35	AM					
77	3'4"	0-	953	7.55	13.30	7,42	AM					
73	3-43	2/4%	954	7.53	13.39	8.34	TAM					
					15 5 35 6 4 1 0 7 1	5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
Scale: 1 squa	re =	1		8 8 8 B		<u> </u>						

BIM Surface Wonter Sampling 41													
Sample	Depth to bothm	Sample Depth	Time (MRS)	pH (unls)	Temp (c)	Sp. cond (ms/cm)	Inihals						
787	367	0	956	7.64	13,62	6,49	AM						
88	3-6=	2'65	958	7.42	13.61	8.04	AM						
97	2-9=	0-	959	7.19	13.49	7,14	AM						
98	2-9"	1/9%	1001	7.70	13.57	7.64	AM						
10 T Day	3'1"	0	1002	7.81	13.43	5.80	AM						
RB IIT*	3'1"	2-1-	1004	7.74 9.11 7.04	13.36 15.27 14.46	AM 8.59 0.0013 5.51	AM AM AM						
116	3'0"	2'0"	1013	7,27	14.03	8.19	AH						
TSI	7-9-	0-	1016	7.59	13.99	6.02	AM						
128	2-90	1/9%	1018	7,57	13.41	8.54	AM						
13T	311	D'	1019	7.68	13.99	6,78	AM						
138	3111	2' 1"	1021	7.71	13.48	8.34	AM						
47	3'7=	0	1023	7.75	13.44	7.60	AM						
14B04	3'7"	MB 27	1024	7.72	13.13	9.43	AM						
15T	1'6"	٥٧	1075	7.72	13.13	8.47	AM						
15B	1/6"	61	1026	7.47	13.03	9.04	AM						
767	9-70	0'	1028	7.76	13.44	9.21	AM						
16B	9-75	8-74	1030	7.69	12,87	11,7	AM						
	1 121												
Scale: 1 squa	re =			<u> </u>			Rite in the Rain						

BIH Surface Water Samp	plins
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4/7/21

Somple	Depth to Bottom		Time (MB)	PH (cms)	Temp (C)	Sp cond (ms/cm	Initial
IMT	3'0"	D'	1031	7.77	13.58	9.20	AM
178	3'0"	2 0=	1033	7.78	13,42	9.35	AM
18T	9-90	0-	1035	7.83	13.75	9,02	AM
18B	9'91	8-9:	1536	7.71	13.07	11:7	AM
WARB		-	1048	8.85	16.81	0.001	AM.
AM GBFE	_		1046	9, 22	15.64	0.0005	AM
19Tx	6'6'	0-	1049	6,64	14.99	8.69	AM
198	66'	5'6'	1050	6.79	13.71	10.8	AH
ZOTA	p 2'6"	0/	1053	7.14	13.91	7.33	AM
208	2'6"	1/6"	1055	7. 27	13.74	8.97	AM
				M			
			7 7				



Land	aster Lab	oratorie	S								_	-	_		-		-	_		_		-		_	AESI Ref:	44280,31144
2425 N	ew Holland P	lko			1	Chain Of Custody / Analysis Request															COC#	30905-102620-1				
Lanca	ter, PA 17606	5-2425				Honeywe Chain Of Custody / Analysis Request												COOM	00000-102620-							
	58-2300				Privileged 8	I N	In.	*********	-	n	ore Inner Harbor Phase:						_			_						
Samp	ling Co.:	Maryland	Environmen	ntal Service	EDD To: matthew.gillis@			Miscobs o				Site Name: Location of Site: I					mor	_	Phas		Surface vyater			_	Lab Proj # (SDG):	
Clien	Contact: (r	name, co.	address)		Sampler:	AM.	72 /	L. ML			Local	uon or	OILE.	BALTIN	IORE	, MD	-	_	Prog	ram	Samo	ina	(2)	_	Lab ID	LLI
Marin F	Bouris				PO#	4500013	806	71.17	F	_	Preser	vative	3		-	_		-	+		\vdash	_	-	_	Site ID	BALTIMORE
115 Ta					Analysis T	umaround	Time (TAT):		7			~				_		-		-		-	\dashv	$\overline{}$	Lab Job # Authorized User:	Honeywell
	Plains, NJ 079 nary Data To		Sillia Dilla and Ca	com CUVAU WAS no come		Consulta	nt		CH2M			e e					- 10-		1		1 4	- 1		- 1	Hadionzed Cast.	The state of the s
1	-2	ber usa t	A UTS master	can							4	Sample	E		- 1		13		1			- 1	- 1	- 1	Text & Excel File Drive	Ewel & fextFile
	Receipt			CONTRACTOR AND SOME SOME SOME SOME SOME SOME SOME SOME							S S	S pa	Chromlum		- 1							- 1	- 1			Critical
Hard C		Amy Klop Maria Ka			F	III Report	ort TAT: 14				ite.	tere	Chic		- 1		1	4	1				- 1	- 1		
mvorce	10.	Iwana na	buris		Sample	Sample	Sample	Sample	Sample	# of	Composite/Grab	Ē				- [100							SD	Copyright AESt: Version	
Sample Identification			ition	Date	Time	Type	Matrix	Purpose		Con	Teld Filter	SW6010											5 0,0	I,I Unsuthorized use strictly prohibited.		
	ID	Start Depth	End					W 1835					-				100	1				-		2	notelly proteined.	
٠.	ocation ID	(ft)	Depth (ft)	Field Sample ID					100				qdd												Sampling Method	Lab Sample
T				7.85 (S. 100)		12/12					Units		d		-			-							(code)	Numbers
1 -	3T	0.00	2.92	3T_040721	4/7/2021	940	W-SW	WATER	REG	4	grab	Y	Х											x		
-9-	3M			- 3M_040721	4/7/2021	-	-w-sw-	WATER	REG-		grab	_	_													
3	3B	1.92	292	3B_040721	4/7/2021	941	W-SW	WATER	REG	1	grab	Y	х				112	$\overline{}$						_		
4	4T	0.00	2.61	4T_040721	4/7/2021	QUU	w-sw	WATER	REG	1	grab	Y	X		1	1	1	+			7		7	7		
-5	-4M			4M-040724	4/7/2021		w-sw	WATER	REG		grab-						0.14						_			
6	4B	1.67	2.67	4B_040721	4/7/2021	9416	w-sw	WATER	REG		grab	¥	×		+	7	+	\vdash	+			_	-	+		
7	5T	0.00	3.75	5T_040721	4/7/2021	947	W-SW	WATER	REG		grab	Ÿ	X	_	+		700		+				+	+		
-8	-5M			5M_040721	4/7/2024		-w-sw-	WATER	REG		grab		_		+	1	T.		+		\rightarrow		+	+		
9	5B	2.75	375	5B 040721	4/7/2021	949	w-sw	WATER	REG	1	grab	Y	x	+	+	1	+	-				-	+	\dashv		
10	6T	0.00	3.15	6T 040721		950		San autoria anno	20072	7.20				-	+	+		-	\vdash	-	\dashv	-+-	+	\rightarrow		
		0.00	2,60	1.1.7	4/7/2021	150	W-SW	WATER	REG	-1	grab	Y	Х	-	+	+	+-	-	+				-	-		
44	6M	175	220	6M_040721	4/7/2021-	000	-W-SW	WATER-	-REG_	_	orab.		-		4	-	-	_	\vdash		_	_	4	_		
12	6B	16.00	325	6B_040721	4/7/2021	952	W-SW	WATER	REG	1	grab	Y	Х				J. S.							\perp		
Relinqu	shed by	mi	M	Company	MES		Received by					_		Compa	пу	46-	4	Con	dition			Cu	istody	y Sea	als Intact	
			1	Date/Time	41717	114%	M	Λ				Da	te/Tim	1-12	-	142		Cool	er Tem	р.		+	-	-		
Relinqu	shed by		_	Company	11114	1116	Received by						4!	Compa		- 6	2	Con	dition	-		C	istocki	Sen	ils Intact	
				Date/Time								Da	te/Tim		+			-	er Tem	0.		- 00	Library	Jul	in mass	
Pressorv	atives: (Other	r; Specify):					(pH<2), 4Deg C	; 11 (4C Na	OH (pH>12)	& Ascort	bic Ackl)	-	Sea Chilip		& Na	28203)	13 (Zn				instruct	ions)				

	caster Lab New Holland P							NN									16					AESI Ref:	44280.31869
					1	non	eywe		Chain	Of C	usto	dy / /	Analy	/sis F	Reque	est	100					COC#	30905-10262
	autor, PA 17608	-2425					0	m m									800						1 397 G C
-	666-2300				Privileged &	Confiden	tial	N	-		Sito N	lame:		Baltim	ore BlH		7	Phase:	_	_		Lab Proj # (SDG):	
	pling Co.:		Environment	tal Service	EDD To:		matthew.gillis	@jacobs.co	m				Site:	BALTI	MORE.	MD	_	Program	Suria	od yvan	en -	Lab ID	
	nt Contact: (r	ame, co.	address)		Sampler:	IAM,	1341	M. VI	4					T	T	Ť	T		Comp	lina	\neg	Site ID	BALTIMO
-	Kaouria				PO #	45000138	306		_,		Preserv	entive	3									Lab Job #	
1	abor Rd Plains, NJ 079	en .			Analysis 1		Time (TAT):		7			6				7					_	Authorized User:	Honeywe
	ninary Data To		allis vince by	com GOVA DATAMENSO com		Consultar	ıt .		CH2M			Sample											
99		France vit	References	A STATE OF THE PARTY OF THE PAR							Q.	Light Light	Ę	- 1	- 1	1	15		1 1	- 1	- 1	Text & Excelible Drive	Excel & Text
	le Receipt Copy To	Amy Klop		ntime CUVALILIATIA TEMBRICAME							site/Grab	8	Chromium		- 1			1 1 1	1 1				
	е То:	Maria Ka			F	ull Report 1	AT:		14		site	Filtered	ਰ		- 1		1.00		1 1				
		100			Sample	Sample	Sample	Sample	Sample	# of	og o	F	SW6010	20				6 11 31				Copyright AESI; Version	_
			le Identificat	tion	Date	Time	Type	Matrix	Ригрове	Cont.	Comp	Field	3W6	-	-		1.0					8.0 Unauthorized use strictly prohibited.	
		Start Depth	End																+			strictly promoned.	
	Location ID	(ft)	Depth (ft)	Field Sample ID							Units		ng/L				7.					Sampling Method (code)	Lab Sam
L	7T	0.00	3.33	7T_040721	4/7/2021	953	W-SW	WATER	REG	1	grab	Υ	х				1						
-	7M	-		7NI_046721	4/7/2021		w-sw	WATER	REG		grab.					1			\vdash	_	_		-
	7B	2.33	333	7B_040721	4/7/2021	954	w-sw	WATER	REG	4	grab	· ·	x		_				+	_	_		
	8T	0.00	350	8T_040721	4/7/2021	956	w-sw	WATER	REG	1	grab	v	X	_		1		-	+	_	_	+	
L	814		_~_	6M-949724	4/7/2021	1	.w.sw.	WATER	REG		aroh			_	_	+-	-		+		-	-	
Г	88	2.50	350	88 040721	4/7/2021	958	W-SW	WATER	REG	4	grab	v	х	_	+	+	-	-+-	+	-	+	1	
Ī	9T	0.0	3.50	9T_040721	4/7/2021	959	W-SW						-	-	-	+	-		\vdash	_			
		0.00	9,10	9M_040721	4/7/2021	-10-1		WATER	REG	-1-	grab	Y	Х	-	_	+			\vdash	_		4	
H	98	INS	274			LIAL		WATER	-REG		-Diep		-	-	_			-	\perp	_			
-	10T		3.01	98_040721	4/7/2021	1001	W-SW	WATER	REG	1	grab	Y	X	-	-		\vdash		\square				
-		0.00	5.01	10T_040721	4/7/2021	1005	W-SW	WATER	REG	1	grab	Υ	Х	_		-							
-	10%	Ø 1.	- A -	10M_040721	4/7/2021	TV IS	-w-sw-	WATER	REG		grab		-										
-	10B	2.01	3.01	108_040721	4/7/2021	11001	W-SW	WATER	REG	_1_	grab	Υ	X									536	
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-	- inda	4 46)	V	Date/Time [] []	2/2/1	10/	3176.1	1		_	_	Di	ite/Tim	3-73-2516-5	Jo	100	-	Cooler Temp.			ratural c	Jugas IIItaut	
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i infl	maned by			Company			Received by							Compa	iny			Condition		Cı	ustody S	Seals Intact	
-	vatives: (Other			Date/Time									te/Tim					Cooler Temp. cetate); sp (speci					

Lancaster Lal		SEAN					18									7			-	_	_	_	AESI Ref:	44280,32010
2425 New Holland					one	ywe		Chain	Of C	usto	dy / /	Anal	ysis	Requ	ıest	11							COC#	30905-102620-0
Lancaster, PA 1760 (717) 666-2300	35-2425					0																		A 100 150 100 100
				Privileged a	Confident	ial	N			Site I	Vame:		Baltin	nore In	ner Ha	rbor		Phase	. 1				Lab Proj # (SDG):	
Sampling Co.:	Maryland	Environmen	tal Service	EDD To:		matthew.gillig	@jacobs.c	mo			tion of		BALT			-	_	Progr		ultace	vvaie:		Lab ID	E LU
Client Contact: Maria Kaouria	(name, co.	address)		Sampler:	BM.	BL. JA	MT.I				12			T			1			amolio		T-	Site ID	BALTIMORE
115 Tabor Rd				PO#	45000138		7.0			Prese	vative	3								_	-	+	Lab Job#	BALTIWORE
Morris Plains, NJ 07	950			Analysis 1		Time (TAT):		7								1				_	1	+	Authorized User:	Honeywell
Preliminary Data To	molition.w.	gillisadacea fiirigi atoba (com; OFVALIDATATIIns veen		Consultar	ıt		CH2M			Sample ?					1								Facel & Text File
Sample Receipt	ruhithew		CONTRACTOR TARGETS OF	19					_	de		Ë			- 1	100	1						Text S Excel File Drive	Greet
Hard Copy To	Amy Klop	per		Fi	III Report T	AT:		14		te/G	pare	hron				2								
Invoice To:	Maria Ka	ouris								Iso	Æ	00	1									100	ı	
	Samp	le Identificat	tion	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Comp	Field Filte	SW5010 Chromium				3			1			MS/MSD	Copyright AESI: Version 8.0 Unauthorized use strictly prohibited.	
Location ID	Depth (ft)	Depth (ft)	Field Sample ID																			-	Sampling Method	Lab Sample
1 11T	0.60	3.00	11T 040721	4/7/2021	1011		de la companya de la			Units				-	_				_	_		II N	(code)	Numbers
-2 11M	10.00	3.00			IDIL	W-SW	WATER	REG	4	grab	Y	X	-	-	_	100	-	_		\perp		X		
	7 10	7.42	11M_040721	4/7/2021	(X) =	Wesw	WATER	REG	_	grab-	_	-				15								
3 118	2.00	3.00	11B_040721	4/7/2021	1013	W-SW	WATER	REG	1_	grab	Υ	Х				18								
4 12T	0.00	2.75	12T_040721	4/7/2021	1016	W-SW	WATER	REG	. 9	grab	Υ	х				18					\top			
5 12M			12M_040721	4/7/2024		-wew-	WATER	REG		-arab-									一	\neg	+			
6 128	1.75	7.79	12B_040721	4/7/2021	1018	W-SW	WATER	REG		grab	v	х		\dashv	+	-		- 1	+	+	+	\vdash		
7 137	0.00	3.08	13T_040721	4/7/2021	1019	W-SW			-1-		-	_	-	+	-	-	\vdash	\rightarrow	+	+	+-	\vdash		
7 13M		2.50		CHARGO CONTROL	101-1	00000	WATER	REG	1	grab	Y	X	-	-	_	-	\vdash	-		+	+			
9 13B	7-08	3.00	19W_040721	1/7/2021	11.71	W.SW.	WATER	REG		grab"			-	_	_			_	_					
	10000		138_040721	4/7/2021	1021	W-SW	WATER	REG	1	grab	Υ	Х				1								
10 14T	0.00	3.58	14T_040721	4/7/2021	1023	W-SW	WATER	REG	1	grab	Y	Х												
TT 14M		_	14M_040721	4/7/2021		-wsw	WATER	REG		grap	-	-				4)								
12 14B	2.58	3.58	14B_040721	4/7/2021	1024	W-SW	WATER	REG	1	grab	Υ	х				75	-							
Relinquished by	mol	m	Company	MES		Received by		_		_			Compa	any M	1	20	Condit	ion	$\overline{}$		Custo	ody Se	als Intact	
1.0	1		Date/Time [] /	7/2/1	475	M	_				Da	ite/Tim	9/1	7/2	T	1112	Cooler	Temp.	\top					
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Appendix B Groundwater Sampling Program Data

Appendix B-1 Raw Laboratory Data—April 2021



Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC 2425 New Holland Pike Lancaster, PA 17601 Tel: (717)656-2300

Laboratory Job ID: 410-36100-1 Client Project/Site: Baltimore

For:

Honeywell International Inc Remediation & Evaluation Services 115 Tabor Road Morris Plains, New Jersey 07950

Attn: Ms. Maria Kaouris



Authorized for release by: 4/23/2021 2:09:01 PM

Natalie Luciano, Principal Project Manager (717)556-7258

Natalie.Luciano@eurofinset.com

·····LINKS ······

Review your project results through

Total Access

Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- · QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
- · Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
- · Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Natalie Luciano

Matalia RZ =

Principal Project Manager

4/23/2021 2:09:02 PM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Detection Summary	6
Client Sample Results	8
QC Sample Results	11
QC Association Summary	13
Lab Chronicle	15
Certification Summary	18
Method Summary	19
Sample Summary	20
Chain of Custody	21
Receipt Checklists	22
Correspondence	23

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Definitions/Glossary

Client: Honeywell International Inc Job ID: 410-36100-1

Project/Site: Baltimore

Qualifiers

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present
PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

4/23/2021

Case Narrative

Client: Honeywell International Inc

Project/Site: Baltimore

Job ID: 410-36100-1

Job ID: 410-36100-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-36100-1

Receipt

The samples were received on 4/15/2021 4:59 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.2° C

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

Method 9012B: The following sample(s) were found to contain residual chlorine: OP2_041421 (410-36100-4) and OP3_041421 (410-36100-10). The chlorine was treated and removed prior to preparation/analysis.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Job ID: 410-36100-1

Client: Honeywell International Inc

Project/Site: Baltimore

Client Sample ID: OP7_041421 Lab Sample ID: 410-36100-1

No Detections.

Client Sample ID: OP11_041421 Lab Sample ID: 410-36100-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	6.7	J	15	1.6	ug/L	1		6010C	Total
									Recoverable

Client Sample ID: OP5_041421 Lab Sample ID: 410-36100-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	11	J	15	1.6	ug/L	1		6010C	Total
									Recoverable

Client Sample ID: OP2_041421 Lab Sample ID: 410-36100-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil F	ac	D	Method	Prep Type
Chromium	4400		15	1.6	ug/L		1		6010C	Total
										Recoverable

Client Sample ID: OP3_041421 Lab Sample ID: 410-36100-5

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac	Method	Prep Type
Chromium	100000	150	16 ug/L	10	6010C	Total
						Recoverable
Cyanide, Total	0.0074 J	0.010	0.0050 mg/L	1	9012B	Total/NA

Client Sample ID: OP4_041421 Lab Sample ID: 410-36100-6

Analyte	Result Qu	ualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	190	15	1.6	ug/L	1		6010C	Total
								Recoverable

Client Sample ID: OP9_041421

Analyte	Result	Qualifier	RL MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	1400000		00 160	ug/L	100	_	6010C	Total
								Recoverable

Client Sample ID: NVM-27 041421

_									
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	2100		150	16	ug/L	10	_	6010C	Total
									Recoverable

Client Sample ID: OP7_041421 Lab Sample ID: 410-36100-9

No Detections.

Client Sample ID: OP3_041421 Lab Sample ID: 410-36100-10

_						
Analyte	Result Qualifie	r RL	MDL Unit	Dil Fac	D Method	Prep Type
Cyanide, Total	0.0052 J	0.010	0.0050 mg/L	1	9012B	Total/NA

Client Sample ID: QC_041421 Lab Sample ID: 410-36100-11

No Detections.

This Detection Summary does not include radiochemical test results.

Lab Sample ID: 410-36100-7

Lab Sample ID: 410-36100-8

4/23/2021

Detection Summary

Client: Honeywell International Inc Job ID: 410-36100-1

Project/Site: Baltimore

Client Sample ID: QC_041421

Lab Sample ID: 410-36100-12

No Detections.

4

5

7

8

10

11

13

14

Matrix: Water

Matrix: Water

4/23/2021

Client Sample ID: OP7_041421

Lab Sample ID: 410-36100-1 Date Collected: 04/14/21 09:50 Matrix: Water

Date Received: 04/15/21 16:59 Sample Depth: 4.88 - 5.02

Method: 6010C - Metals (ICP) - Tota	al Recoverable							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND ^3+	15	1.6	ug/L		04/19/21 02:55	04/19/21 12:05	1

Client Sample ID: OP11_041421 Lab Sample ID: 410-36100-2 **Matrix: Water**

Date Collected: 04/14/21 07:38 Date Received: 04/15/21 16:59 Sample Depth: 14.80 - 15.00

Method: 6010C - Metals (ICP) - Tota	al Recoverab	le							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	6.7	J	15	1.6	ug/L		04/16/21 23:04	04/23/21 08:04	1

Lab Sample ID: 410-36100-3 Client Sample ID: OP5_041421 **Matrix: Water**

Date Collected: 04/14/21 08:34 Date Received: 04/15/21 16:59 Sample Depth: 4.35 - 4.25

Method: 6010C - Metals (ICP) - Tot	al Recoverable							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	11 J	15	1.6	ug/L		04/16/21 23:04	04/23/21 08:08	1

Client Sample ID: OP2_041421 Lab Sample ID: 410-36100-4

Date Collected: 04/14/21 12:29 Date Received: 04/15/21 16:59 Sample Depth: 11.00 - 10.00

Method: 6010C - Metals (ICP) -	· Total Recoverab	ole							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	4400		15	1.6	ug/L		04/16/21 23:04	04/23/21 07:57	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cvanide, Total	ND	F1	0.010	0.0050	ma/L		04/20/21 06:30	04/20/21 14:27	1

Lab Sample ID: 410-36100-5 Client Sample ID: OP3_041421

Date Collected: 04/14/21 13:21 Date Received: 04/15/21 16:59 Sample Depth: 17.00 - 16.95

Method: 6010C - Metals (ICP)	- Total Recoverab	le							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	100000		150	16	ug/L		04/16/21 23:04	04/23/21 08:29	10
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0074	J	0.010	0.0050	mg/L		04/20/21 06:30	04/20/21 14:34	1

Project/Site: Baltimore

Client Sample ID: OP4_041421

Date Collected: 04/14/21 10:48

Date Received: 04/15/21 16:59 Sample Depth: 9.80 - 10.00

Lab Sample ID: 410-36100-6

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Method: 6010C - Metals (ICP) - Total Recoverable Analyte Result Qualifier RL MDL Unit Dil Fac D Prepared Analyzed 15 04/16/21 23:04 04/23/21 08:01 Chromium 190 1.6 ug/L

Client Sample ID: OP9_041421 Lab Sample ID: 410-36100-7

Date Collected: 04/14/21 14:06 Date Received: 04/15/21 16:59 Sample Depth: 6.70 - 6.87

Method: 6010C - Metals (ICP) - Total Recoverable Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 1500 1400000 160 ug/L 04/19/21 02:55 04/20/21 14:21 Chromium 100

Client Sample ID: NVM-27_041421 Lab Sample ID: 410-36100-8

Date Collected: 04/14/21 06:40 Date Received: 04/15/21 16:59 Sample Depth: 5.70 - 23.20

Method: 6010C - Metals (ICP) - Total Recoverable Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared 150 04/19/21 02:55 04/20/21 14:24 Chromium 16 ug/L 2100

Client Sample ID: OP7_041421 Lab Sample ID: 410-36100-9

Date Collected: 04/14/21 09:50 Date Received: 04/15/21 16:59 Sample Depth: 4.88 - 5.02

Method: 6010C - Metals (ICP) - Total Recoverable Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chromium ND 15 1.6 ug/L 04/19/21 02:55 04/20/21 14:34

Client Sample ID: OP3 041421 Lab Sample ID: 410-36100-10

Date Collected: 04/14/21 13:21 Date Received: 04/15/21 16:59 Sample Depth: 17.00 - 16.95

General Chemistry Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 0.010 0.0050 mg/L 04/20/21 06:30 04/20/21 14:36 Cyanide, Total 0.0052

Client Sample ID: QC 041421 Lab Sample ID: 410-36100-11

Date Collected: 04/14/21 12:52 Date Received: 04/15/21 16:59

Cyanide, Total

Method: 6010C - Metals (ICP) - Total Recoverable Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed Chromium ND 15 1.6 ug/L 04/19/21 02:55 04/20/21 14:37 **General Chemistry** RL MDL Analyte Result Qualifier Unit Prepared Analyzed Dil Fac

0.010

0.0050

mg/L

ND

Eurofins Lancaster Laboratories Env, LLC

04/20/21 14:37

04/20/21 06:30

Page 9 of 23

Client Sample Results

Client: Honeywell International Inc

ND

Project/Site: Baltimore

Cyanide, Total

Date Collected: 04/14/21 12:46 Matrix: Water

Date Received: 04/15/21 16:59

Method: 6010C - Metals (ICP) - Total Red	overab	le							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		15	1.6	ug/L		04/16/21 23:04	04/23/21 06:22	1
General Chemistry	- "	Qualifier	DI.	MDI		ь	Duamanad	Analysed	Dil Fac

0.010

0.0050 mg/L

04/20/21 06:30

5

Job ID: 410-36100-1

04/20/21 14:38

7

10

12

1 1

Project/Site: Baltimore

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-115816/1-A

Matrix: Water

Analyte

Chromium

Analysis Batch: 118322

Client Sample ID: Method Blank	
Prep Type: Total Recoverable	
Prep Batch: 115816	

MB MB Dil Fac Result Qualifier RLMDL Unit Prepared Analyzed ND 15 1.6 ug/L 04/16/21 23:04 04/23/21 06:16

Lab Sample ID: LCS 410-115816/2-A Client Sample ID: Lab Control Sample **Matrix: Water Prep Type: Total Recoverable Analysis Batch: 118322 Prep Batch: 115816**

Spike LCS LCS %Rec.

Added Analyte Result Qualifier Unit D %Rec Limits Chromium 499 478 ug/L 96 80 - 120

Lab Sample ID: 410-36100-12 MS Client Sample ID: QC 041421 **Matrix: Water Prep Type: Total Recoverable Prep Batch: 115816**

Analysis Batch: 118322 Sample Sample Spike MS MS %Rec.

Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Chromium ND 499 567 ug/L 114 75 - 125

Lab Sample ID: 410-36100-12 MSD Client Sample ID: QC_041421 **Matrix: Water Prep Type: Total Recoverable**

Analysis Batch: 118322

Prep Batch: 115816 MSD MSD Sample Sample Spike %Rec.

RPD Added %Rec Limit Analyte Result Qualifier Result Qualifier Unit Limits Chromium ND 499 590 118 75 - 125 ug/L

Client Sample ID: QC_041421 Lab Sample ID: 410-36100-12 DU **Prep Type: Total Recoverable**

Matrix: Water

Analysis Batch: 118322

Prep Batch: 115816 Sample Sample DII DII RPD Analyte Result Qualifier Result Qualifier Unit RPD Limit Chromium ND ND ug/L

Lab Sample ID: MB 410-116038/1-A Client Sample ID: Method Blank **Matrix: Water Prep Type: Total Recoverable**

Analysis Batch: 116330

MB MB

MDL Unit Analyzed Analyte Result Qualifier RL D Prepared Dil Fac Chromium ND ^3+ 15 1.6 ug/L 04/19/21 02:55 04/19/21 12:00

Lab Sample ID: LCS 410-116038/2-A Client Sample ID: Lab Control Sample

Matrix: Water

Analysis Batch: 116927

Prep Batch: 116038 LCS LCS Spike %Rec. Added Result Qualifier Limits Analyte Unit D %Rec

Chromium 499 505 ug/L 101 80 - 120 Client Sample ID: OP7_041421

Lab Sample ID: 410-36100-1 MS

Matrix: Water

Analysis Batch: 116330

Prep Batch: 116038 Spike MS MS Sample Sample %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chromium ND ^3+ 499 482 ^3+ ug/L 97 75 - 125

Eurofins Lancaster Laboratories Env, LLC

Prep Batch: 116038

Prep Type: Total Recoverable

Prep Type: Total Recoverable

Client: Honeywell International Inc

Sample Sample

ND ^3+

Result Qualifier

Project/Site: Baltimore

Job ID: 410-36100-1

Method: 6010C - Metals (ICP)

Lab Sample ID: 410-36100-1 MSD Client Sample ID: OP7_041421

Spike

babbA

499

Matrix: Water

Analyte

Chromium

Analysis Batch: 116330

Prep Type: Total Recoverable

Prep Batch: 116038 RPD %Rec Limits RPD Limit 100 75 - 125 3 20

Lab Sample ID: 410-36100-1 DU Client Sample ID: OP7_041421

Matrix: Water

Analysis Batch: 116330

Prep Type: Total Recoverable

Prep Batch: 116038

Sample Sample DU DU RPD Result Qualifier RPD Limit Analyte Result Qualifier Unit D Chromium ND ^3+ ND ^3+ ug/L NC 20

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 410-116569/2-A Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 116909

MSD MSD

496 ^3+

Result Qualifier

Unit

ug/L

Prep Type: Total/NA **Prep Batch: 116569**

MB MB Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Cyanide, Total ND 0.010 0.0050 mg/L 04/20/21 06:30 04/20/21 14:26

Lab Sample ID: LCS 410-116569/1-A **Client Sample ID: Lab Control Sample**

Matrix: Water

Analysis Batch: 116909

Prep Type: Total/NA

Prep Batch: 116569

Spike LCS LCS %Rec. Analyte Added Qualifier Unit %Rec Limits Result Cyanide, Total 0.200 0.208 104 90 - 110 mg/L

Lab Sample ID: 410-36100-4 MS

Matrix: Water

Analysis Batch: 116909

Client Sample ID: OP2_041421

Prep Type: Total/NA **Prep Batch: 116569**

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Cyanide, Total ND F1 0.200 0.0388 F1 72 - 114 mg/L

Lab Sample ID: 410-36100-4 DU

Matrix: Water

Analysis Batch: 116909

Client Sample ID: OP2_041421

Prep Type: Total/NA

Prep Batch: 116569 RPD

Sample Sample Analyte Result Qualifier Result Qualifier RPD Limit Unit D ND F1 Cyanide, Total NC 20 ND mg/L

DU DU

QC Association Summary

Client: Honeywell International Inc Job ID: 410-36100-1

Project/Site: Baltimore

Metals

Prep Batch: 115816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-36100-2	OP11_041421	Total Recoverable	Water	3005A	
410-36100-3	OP5_041421	Total Recoverable	Water	3005A	
410-36100-4	OP2_041421	Total Recoverable	Water	3005A	
410-36100-5	OP3_041421	Total Recoverable	Water	3005A	
410-36100-6	OP4_041421	Total Recoverable	Water	3005A	
410-36100-12	QC_041421	Total Recoverable	Water	3005A	
MB 410-115816/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-115816/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
410-36100-12 MS	QC_041421	Total Recoverable	Water	3005A	
410-36100-12 MSD	QC_041421	Total Recoverable	Water	3005A	
410-36100-12 DU	QC_041421	Total Recoverable	Water	3005A	

Prep Batch: 116038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-36100-1	OP7_041421	Total Recoverable	Water	3005A	
410-36100-7	OP9_041421	Total Recoverable	Water	3005A	
410-36100-8	NVM-27_041421	Total Recoverable	Water	3005A	
410-36100-9	OP7_041421	Total Recoverable	Water	3005A	
410-36100-11	QC_041421	Total Recoverable	Water	3005A	
MB 410-116038/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-116038/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
410-36100-1 MS	OP7_041421	Total Recoverable	Water	3005A	
410-36100-1 MSD	OP7_041421	Total Recoverable	Water	3005A	
410-36100-1 DU	OP7_041421	Total Recoverable	Water	3005A	

Analysis Batch: 116330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-36100-1	OP7_041421	Total Recoverable	Water	6010C	116038
MB 410-116038/1-A	Method Blank	Total Recoverable	Water	6010C	116038
410-36100-1 MS	OP7_041421	Total Recoverable	Water	6010C	116038
410-36100-1 MSD	OP7_041421	Total Recoverable	Water	6010C	116038
410-36100-1 DU	OP7_041421	Total Recoverable	Water	6010C	116038

Analysis Batch: 116927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-36100-7	OP9_041421	Total Recoverable	Water	6010C	116038
410-36100-8	NVM-27_041421	Total Recoverable	Water	6010C	116038
410-36100-9	OP7_041421	Total Recoverable	Water	6010C	116038
410-36100-11	QC_041421	Total Recoverable	Water	6010C	116038
LCS 410-116038/2-A	Lab Control Sample	Total Recoverable	Water	6010C	116038

Analysis Batch: 118322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-36100-2	OP11_041421	Total Recoverable	Water	6010C	115816
410-36100-3	OP5_041421	Total Recoverable	Water	6010C	115816
410-36100-4	OP2_041421	Total Recoverable	Water	6010C	115816
410-36100-5	OP3_041421	Total Recoverable	Water	6010C	115816
410-36100-6	OP4_041421	Total Recoverable	Water	6010C	115816
410-36100-12	QC_041421	Total Recoverable	Water	6010C	115816
MB 410-115816/1-A	Method Blank	Total Recoverable	Water	6010C	115816
LCS 410-115816/2-A	Lab Control Sample	Total Recoverable	Water	6010C	115816

Page 13 of 23

QC Association Summary

Client: Honeywell International Inc

Job ID: 410-36100-1 Project/Site: Baltimore

Metals (Continued)

Analysis Batch: 118322 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-36100-12 MS	QC_041421	Total Recoverable	Water	6010C	115816
410-36100-12 MSD	QC_041421	Total Recoverable	Water	6010C	115816
410-36100-12 DU	QC_041421	Total Recoverable	Water	6010C	115816

General Chemistry

Prep Batch: 116569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-36100-4	OP2_041421	Total/NA	Water	9012B	
410-36100-5	OP3_041421	Total/NA	Water	9012B	
410-36100-10	OP3_041421	Total/NA	Water	9012B	
410-36100-11	QC_041421	Total/NA	Water	9012B	
410-36100-12	QC_041421	Total/NA	Water	9012B	
MB 410-116569/2-A	Method Blank	Total/NA	Water	9012B	
LCS 410-116569/1-A	Lab Control Sample	Total/NA	Water	9012B	
410-36100-4 MS	OP2_041421	Total/NA	Water	9012B	
410-36100-4 DU	OP2_041421	Total/NA	Water	9012B	

Analysis Batch: 116909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-36100-4	OP2_041421	Total/NA	Water	9012B	116569
410-36100-5	OP3_041421	Total/NA	Water	9012B	116569
410-36100-10	OP3_041421	Total/NA	Water	9012B	116569
410-36100-11	QC_041421	Total/NA	Water	9012B	116569
410-36100-12	QC_041421	Total/NA	Water	9012B	116569
MB 410-116569/2-A	Method Blank	Total/NA	Water	9012B	116569
LCS 410-116569/1-A	Lab Control Sample	Total/NA	Water	9012B	116569
410-36100-4 MS	OP2_041421	Total/NA	Water	9012B	116569
410-36100-4 DU	OP2 041421	Total/NA	Water	9012B	116569

Job ID: 410-36100-1

Project/Site: Baltimore

Client Sample ID: OP7_041421

Date Collected: 04/14/21 09:50 Date Received: 04/15/21 16:59

Client: Honeywell International Inc

Lab Sample ID: 410-36100-1

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			116038	04/19/21 02:55	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	116330	04/19/21 12:05	WJM9	ELLE

Client Sample ID: OP11_041421

Date Collected: 04/14/21 07:38 Date Received: 04/15/21 16:59 Lab Sample ID: 410-36100-2

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			115816	04/16/21 23:04	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	118322	04/23/21 08:04	MDP5	ELLE

Client Sample ID: OP5_041421

Date Collected: 04/14/21 08:34

Date Received: 04/15/21 16:59

Lab Sample ID: 410-36100-3

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			115816	04/16/21 23:04	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	118322	04/23/21 08:08	MDP5	ELLE

Client Sample ID: OP2_041421

Date Collected: 04/14/21 12:29

Date Received: 04/15/21 16:59

Lab Sample ID: 410-36100-4

Matrix: Water

	Batch	Batch Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total Recoverable	Prep	3005A			115816	04/16/21 23:04	UJL8	ELLE	
Total Recoverable	Analysis	6010C		1	118322	04/23/21 07:57	MDP5	ELLE	
Total/NA	Prep	9012B			116569	04/20/21 06:30	UNJS	ELLE	
Total/NA	Analysis	9012B		1	116909	04/20/21 14:27	JCG7	ELLE	

Client Sample ID: OP3_041421

Date Collected: 04/14/21 13:21

Date Received: 04/15/21 16:59

Lab Sample ID: 410-36100-5

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total Recoverable	Prep	3005A			115816	04/16/21 23:04	UJL8	ELLE	
Total Recoverable	Analysis	6010C		10	118322	04/23/21 08:29	MDP5	ELLE	
Total/NA	Prep	9012B			116569	04/20/21 06:30	UNJS	ELLE	
Total/NA	Analysis	9012B		1	116909	04/20/21 14:34	JCG7	ELLE	

Client Sample ID: OP4_041421

Date Collected: 04/14/21 10:48

Date Received: 04/15/21 16:59

Lab Sample ID: 410-36100-6

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			115816	04/16/21 23:04	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	118322	04/23/21 08:01	MDP5	ELLE

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Page 15 of 23

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4/23/2021

Client: Honeywell International Inc Project/Site: Baltimore

Client Sample ID: OP9_041421

Date Collected: 04/14/21 14:06 Date Received: 04/15/21 16:59

Lab Sample ID: 410-36100-7

Matrix: Water

	Batch Batch		Dilution	Batch	Prepared			
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			116038	04/19/21 02:55	UJL8	ELLE
Total Recoverable	Analysis	6010C		100	116927	04/20/21 14:21	MDP5	ELLE

Client Sample ID: NVM-27_041421 Lab Sample ID: 410-36100-8

Date Collected: 04/14/21 06:40 Date Received: 04/15/21 16:59

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			116038	04/19/21 02:55	UJL8	ELLE
Total Recoverable	Analysis	6010C		10	116927	04/20/21 14:24	MDP5	ELLE

Client Sample ID: OP7_041421

Lab Sample ID: 410-36100-9

Matrix: Water

Date Collected: 04/14/21 09:50 Date Received: 04/15/21 16:59

Batch Batch Dilution Batch Prepared Туре Method Factor Number or Analyzed Prep Type Run Analyst Lab Total Recoverable Prep 3005A 116038 04/19/21 02:55 UJL8 **ELLE** 116927 04/20/21 14:34 ELLE Total Recoverable 6010C MDP5 Analysis 1

Client Sample ID: OP3_041421

Lab Sample ID: 410-36100-10

Matrix: Water

Date Collected: 04/14/21 13:21 Date Received: 04/15/21 16:59

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	9012B			116569	04/20/21 06:30	UNJS	ELLE
Total/NA	Analysis	9012B		1	116909	04/20/21 14:36	JCG7	ELLE

Client Sample ID: QC 041421

Lab Sample ID: 410-36100-11

Date Collected: 04/14/21 12:52 **Matrix: Water** Date Received: 04/15/21 16:59

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			116038	04/19/21 02:55	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	116927	04/20/21 14:37	MDP5	ELLE
Total/NA	Prep	9012B			116569	04/20/21 06:30	UNJS	ELLE
Total/NA	Analysis	9012B		1	116909	04/20/21 14:37	JCG7	ELLE

Client Sample ID: QC_041421 Lab Sample ID: 410-36100-12

Date Collected: 04/14/21 12:46 **Matrix: Water**

Date Received: 04/15/21 16:59

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			115816	04/16/21 23:04	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	118322	04/23/21 06:22	MDP5	ELLE
Total/NA	Prep	9012B			116569	04/20/21 06:30	UNJS	ELLE
Total/NA	Analysis	9012B		1	116909	04/20/21 14:38	JCG7	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: Honeywell International Inc

Project/Site: Baltimore

Job ID: 410-36100-1

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

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Accreditation/Certification Summary

Client: Honeywell International Inc

Project/Site: Baltimore

Job ID: 410-36100-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority		ogram	Identification Number	Expiration Date		
Maryland		ate	100	06-30-22		
The following analytes:	are included in this report hi	it the laboratory is not certific	ed by the governing authority. This list ma	v include analytes for w		
the agency does not off	• •	it the laboratory to not certifi	ed by the governing additionty. This list the	ay include analytes for w		
0 ,	• •	Matrix	Analyte	ny include analytes for w		
the agency does not off	fer certification.	•	, , ,	my include analytes for w		

0-30100-1

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Method Summary

Client: Honeywell International Inc

Project/Site: Baltimore

Job ID: 410-36100-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	ELLE
9012B	Cyanide, Total andor Amenable	SW846	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	ELLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

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Sample Summary

Client: Honeywell International Inc

Project/Site: Baltimore

Job ID: 410-36100-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
410-36100-1	OP7_041421	Water	04/14/21 09:50	04/15/21 16:59	4.88 - 5.02
410-36100-2	OP11_041421	Water	04/14/21 07:38	04/15/21 16:59	14.80 - 15.00
410-36100-3	OP5_041421	Water	04/14/21 08:34	04/15/21 16:59	4.35 - 4.25
410-36100-4	OP2_041421	Water	04/14/21 12:29	04/15/21 16:59	11.00 - 10.00
410-36100-5	OP3_041421	Water	04/14/21 13:21	04/15/21 16:59	17.00 - 16.95
410-36100-6	OP4_041421	Water	04/14/21 10:48	04/15/21 16:59	9.80 - 10.00
410-36100-7	OP9_041421	Water	04/14/21 14:06	04/15/21 16:59	6.70 - 6.87
410-36100-8	NVM-27_041421	Water	04/14/21 06:40	04/15/21 16:59	5.70 - 23.20
410-36100-9	OP7_041421	Water	04/14/21 09:50	04/15/21 16:59	4.88 - 5.02
410-36100-10	OP3_041421	Water	04/14/21 13:21	04/15/21 16:59	17.00 - 16.95
410-36100-11	QC_041421	Water	04/14/21 12:52	04/15/21 16:59	
410-36100-12	QC_041421	Water	04/14/21 12:46	04/15/21 16:59	

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Lancaster Labo	ratories													18 (18) (18) (18) (18) (18) (18) (18) (18) (18) (18) (18) (18) (18) (18) (18) (18) (18) (18)									44299.35999
2425 New Holland Plk	8				nne	ywel		Cha _	410-3	36100	Cha	in of	Cust	ody								COC#	30905-102315-
Lancaster, PA 17605-	2425			•	UIIC		•																91
(717) 656-2300				Privileged &	Confidenti	al	N			Site N	ame:		Baltim	ore			Phi	150:				Lab Proj # (SDG):	
Sampling Co.:	Maryland	Environmer	ntal Service	EDD To:		Locus Focus(r	natthew.gil	llis@jacobs	.com)		ion of	Site:	BALTI	MORE,	RE, MD		Sampling Program					Lab ID	ш
Client Contact: (na	me. co	address)		Sampler:	BL. RK. Al	M TC IM														П		Site ID	BALTIMORE
Maria Kaouris		,		PO#	45001080					Preserv	ative	3	5									Lab Job #	
115 Tabor Rd			***************************************			Time (TAT):		7														Authorized User:	Honeywell
Morris Plains, NJ 0795	0			1	Consultan			CH2M					1										
Preliminary Data To	matriew.s			41																		Text & Excel File Drive	Excel & Text File
Sample Receipt Acknowledgement To	nalTen.i	GaZlar (b	E-MA										(auto)										
Hard Copy To	Christina .										2		age		1								
	Validata, I			Full Report TAT: 14			14			jd.		Cya									l		
Invoice To:	Maria Kac				перыст	,,,,		17		Q.	Sar	E	otal			-						l	A
	115 Tabo			-						9/9	Pe	E C	12 T									1	
	Morris Pla	ins, NJ 079	50							1 1 1		Ü	&								0		
	Samp	le Identifica	ation	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Grab	Field Filtered Sample	SW6010 Chrom	SW9010/9012 Total Cyande (auto)								MS/MSD	Copyright AESI: Version 8.0 Unauthorized use strictly prohibited.	
Location ID	Start Depth (ft)	End Depth (ft)	Fleid Sample ID		Point date (dat)			See 1 of 1		Units		ррш	dqq					li				Sampling Method (code)	Lab Sample Numbers
1 OP7	4.88	5.02	OP7_041421	4/14/2021	0950	GW-GWS	WATER	REG	4	grab	Υ_	х									х	BladPump	
2 OP11	14.80	15.11	OP11_041421	4/14/2021	0738	GW-GWS	WATER	REG	1	grab	Υ	×										BladPump	
3 OP5	435	4.25	OP5_041421	4/14/2021	0834	GW-GWS	WATER	REG	1	grab	Υ	х			-					\perp		BladPump	
4 OP2	11.00	10.00	OP2_041421	4/14/2021	1229	GW-GWS	WATER	REG	2	grab	Υ	×	х							\perp		BladPump	
5 OP3	17.0	16.95	OP3_041421	4/14/2021	1321	GW-GWS	WATER	REG	2	grab	Υ	х	х		\perp					\perp		BladPump	
6 OP4	9.80	10.00	OP4_041421	4/14/2021	IMX	GW-GWS	WATER	REG	1	grab	Υ	х					\perp			4		BladPump	
7 OP9	6.78	69	OP9_041421	4/14/2021	1400	GW-GWS	WATER	REG	1	grab	Υ	х		_	\perp							BladPump	
8 NWM-27	5.70	23.20	NWM-27_041421	4/14/2021	0640	GW-GWS	WATER	REG	1	grab	Υ	х						_	\perp			BladPump	
9 OP7	4.88	5.02	OP7_041421	4/14/2021	0950	GW-GWS	WATER	FD	1	grab	Υ	х		_			\perp	_		\perp		BladPump	
10 OP3	17.00	1695	OP3_041421	4/14/2021	1321	GW-GWS	WATER	FD	1	grab	Υ		х	_	_			_		\perp		BladPump	
11 QC	-	-	QC_041421	4/14/2021	1251	BLKWATER	WATER	FB	2	grab	Υ	х	×	_	+			\perp		_			
12 QC			QC_041421	4/14/2021	X-46	BLKWATER	WATER	FEB	2	grab	Υ	Х	X					\perp					
Relinquished by			Compa	ny Mf		Received by							Com	pany	Juli	2	Condition						
In	1/2		Date/Time	411412	1 144	5 V		9			D	ate/Tir	me_//	4/2/	14	450	Cooler Te	emp.		\top			
Relinquished by	1		Compa	ny NE	3	Received by							Com			C	Condition						
HUKU	K		Date/Time 4	-15-21	12:02	W				4/1	chi	ate/Tir	J &.T)		C	Cooler Te	mp.	3:2	8			
Preservatives: (Othe	. Ac		5			0 (none); 1 (4 D	leg C); 2 (HC	CI pH<2); 3 (I	HNO3 pH	(<2); 4 (t	12SO4	pH<2);	5 (NaO	H pH>12); 6 (NaO	H, Zn Ace	rtate); 7 (i	12504 (pH<2), 4 D	eg C))); B (HCI p	H<2); 9 (HCl 4 Deg C);	10 (HNO3 (pH<2),

Page 21 of 23

Login Sample Receipt Checklist

Client: Honeywell International Inc Job Number: 410-36100-1

Login Number: 36100 List Source: Eurofins Lancaster Laboratories Env

List Number: 1

Creator: Sanchez, Melvin E

Creator. Sanchez, Mervin E		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (=6C, not frozen).</td <td>True</td> <td></td>	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (=6C, not frozen).</td <td>N/A</td> <td></td>	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	N/A	

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Cyms, Carolyn

Cyms, Carolyn From:

Monday, April 19, 2021 6:31 AM Sent:

Bernice Kidd; Robert Steele; HTS Data Mgmt Group; Karen Mordock; Katherine Beach; To:

Matt Gillis

Eurofins Lancaster Laboratories Env Sample Login Confirmation files from 410-36100 Subject:

Baltimore

Attachments: Std_Tal_Login_Ack_ChkLst_Lmt for 410-36100-1.pdf; COC 410-36100

(202104161602).pdf

Hello,

Attached, please find the Sample Confirmation files for job 410-36100; Baltimore

The following sample(s) were found to contain residual chlorine for the Cyanide analysis: OP2 041421 (410-36100-4) and OP3 041421 (410-36100-10). The chlorine was treated and removed prior to preparation/analysis.

Please feel free to contact me or your PM, Natalie Luciano, if you have any questions.

Thank you.

Carolyn M Cyms

Sample Control Supervisor

Eurofins Lancaster Laboratories Env, LLC

E-mail: Carolyn.Cyms@eurofinset.com www.eurofinsus.com/env



Reference: [410-199842] Attachments: 2

>> Bank information has changed, please refer to remittance information on invoice. < <

Appendix B-2 Chain-of-Custody Records—April 2021

Lancaster Laboratories												H H H ()						•				Α	ESI Ref:	44299.35999	
2425 New Holland Pike					Honeywell Cha 410-36100 Chain of Custody											ā		30905-102315-							
Lancaster, PA 17605-2425																91									
(717) 656-2300					Privileged & Confidential		N		Site Name:			Baltimore			Phase:				- I	Lab Proj # (SDG):					
Sampling Co.: Maryland Environmental Service					EDD To:	D To: Locus Focus(r		natthew.gil	w.gillis@jacobs.com)		1		. В/	BALTIMORE, MD			Sampling Program			L	ab ID	ш			
					ervice	Sampler:	BL, RK, AI	A TC IM				Location	0.5.0	+	\top	\Box							s	Site ID	BALTIMORE
Client Contact: (name, co., address) Maria Kaouns						PO# 4500108077					Preservati	70 3		5								L.	ab Job #		
115 Tabor Rd						Analysis Turnaround Time (TAT):			7												\neg		A	Authorized User:	Honeywell
Morri	is Plains, NJ 07950)				Consultant			CH2M										1 1		7.6			(
Prell	minary Data To	-															1	11					ÿ	est & Excel File Drive	Excel & Test File Order
Sample Receipt Acknowledgement To Hard Copy To Christina Jensen					ALC: UNITED IN										SW601DP012 Total Cyande (auto)								Г		
Hard	I Сору То	Christina Validata,		n		10-44								ande			-								
		3346 NE		St.		Full Report TAT:				14		اما	. 5	5											
Invoice To: Maria Kaouris 115 Tabor Road										te/Grab ered Sample			27										\wedge		
<u> </u>		Morris Pla	ains, N.	J 07950		-			,	8	5		8						۰	. 1	1				
		Samp	ole Iden	ntification		Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Сотр	SW6010 Chron		DAMS							MS/MSD	C 8.	opyright AESI: Version .0 Unauthorized use trictly prohibited.	
	Location ID	Start Depth (ft)	End Dept (ft)	th	Field Sample ID		ratum pärti santa	l.	i en en en en en en en en en en en en en	an roll a		Units		шиф	qdd									Sampling Method (code)	Lab Sample Numbers
1	OP7	4.88	5.0)2	OP7_041421	4/14/2021	0950	GW-GWS	WATER	REG	4	grab	YX									X		BladPump	
2	OP11	14.90	15	D	OP11_041421	4/14/2021	0738	GW-GWS	WATER	REG	1	grab	YX											BladPump	
3	OP5	H.35	42	75	OP5_041421	4/14/2021	083	GW-GWS	WATER	REG	1	grab	YX								_			BladPump	
4	OP2	11.00	10.1	(X)	OP2_041421	4/14/2021	1229	GW-GWS	WATER	REG	2	grab	y x		х			-						BladPump	
5	OP3	17.00	16:	95	OP3_041421	4/14/2021	1321	GW-GWS	WATER	REG	2	grab	y x		х									BladPump	
6	OP4	9.80	10.1	00	OP4_041421	4/14/2021	1148	GW-GWS	WATER	REG	1	grab	y x						\perp					BladPump	
7	OP9	6.70	69		OP9_041421	4/14/2021	1406	GW-GWS	WATER	REG	1	grab	y x											BladPump	
8	NWM-27	5.70	23.	20	NWM-27_041421	4/14/2021	0640	GW-GWS	WATER	REG	1	grab	Y X				Ц							BladPump	
9	OP7	4.88	5.1	04	OP7_041421	4/14/2021	0950	GW-GWS	WATER	FD	1	grab	Y X		\perp			1			_		\perp	BladPump	
10	OP3	17.00	169	35_	OP3_041421	4/14/2021	1321	GW-GWS	WATER	FD	1	grab	Y	1	×				\perp		\perp		\perp	BladPump	
11	QC				QC_041421	4/14/2021	1252	BLKWATER	WATER	FB	2	grab	y x		×	1_		-1		_	\perp				
12	QC				QC_041421	4/14/2021	12-4b	BLKWATER	WATER	150	2	grab	y X		×										
Reli	inquished by	-			Compan	V · MF	-	Received by						(Compar	1y)	wh	∠ Cor	dition			T			
1	hall	1			Date/Time	411412	1 144	5 V		2			Date	Time	Illu	14/	144	5 Coo	ler Temp).					
Relinquished by Compa				ME	3	Received by							Compa	עי		Cor	dition				T				
1	HAKL	2	. ,		Date/Time 44	15-21	12:02	NOT				4/15	Date	Time	00			Cod	ler Temp).	3.2	7			
Pre	servatives: (Other	r; Specify):			_5			0 (none); 1 (4 D 4Deg C); 11 (40	eg C); 2 (HC C NaOH (pH:	I pH<2); 3 (H	INO3 pH bic Acid)	<2); 4 (H25 ; 12 (4C H2	O4 pH< SO4 (pl	:2); 5 (1<2) 8	(NaOH p	H>12); 6	(NaOH, Zn Acetal	Zn Acetat	e); 7 (H2S	O4 (ph	(<2), 4 De	eg C)); B (I	HCI pH	<2); 9 (HCl 4 Deg C); 1	0 (HNO3 (pH<2),

Page 21 of 23

Appendix B-3 Field Report—April 2021

BALTIMORE INNER HARBOR GROUNDWATER WELL MONITORING

April 14, 2021

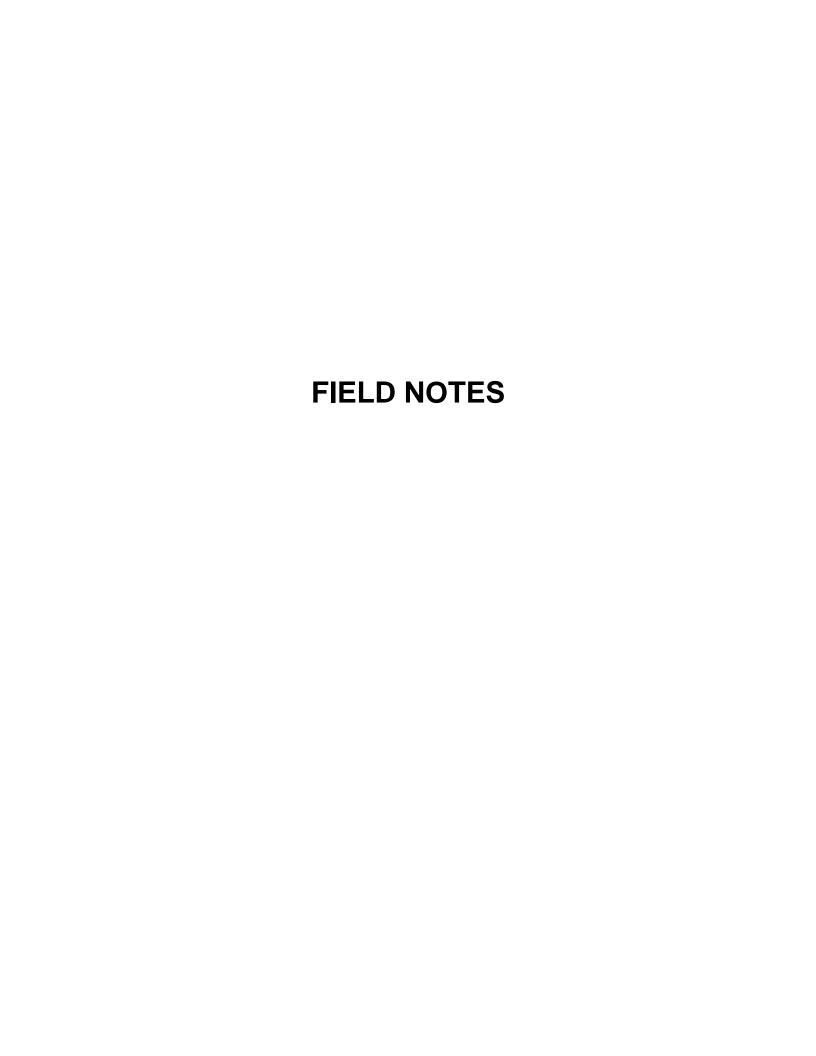






BIH	CALIBRATION	106
יווע	Chellyking	V 01

DATE	ME	METER	BUFFER	SAMPLING EVENT	INITIALS
7/11/18	800	10RIBA3	AUTOCAL	SEDIMENT SAMPLING	LV
8/6/18	800	HURIBA 3	AUTOCAL	SURFACE WATER	AH
10/3/18	Wt 525	HORIBZ	AUTOCAL	Ground water	AH
11/19/12	755	HURBA3	AVTOCAL	· SURFACE WATER	LV /Cit
3/4/19	945	HORIBA 3	AUTOIAL	SURFACE WATER	W
4/10/19	0530	Honba 1	Autocal:	Grandwater	BL
4/0/7/19	930	HORIBA3	Aubial	G Dramagilayer	BRKIW
3/14/19	830	1 hori BA3	Auroin	Surface water	CH
6120119	915	10RIBA3	Aunoul	surface water	(0
10/2/17	545	TORIBAI	Autocal	Groundwater	CO
10/23/19	815	HORIBA 3	Autoral	surface water	CO
3/6/20	648	Horiba 3	Hutocal	SWAAA Wate	AM
5/19/20	700	HMba 37	Autocal	Ground war	AB
6[1]20	850	thomba3	AMD (al	Surface Water	The state of the s
6/2/20	917	Honba3	HUTTOCOL		AB
9/11/20	0840	Horiba 3	Auto Cal	Surface Water	BL BL
10/6/20	0920645	Horiba 3	Auto Cal	Groundwater	_
11/13/20	0850	Horiba 3	Auto Cal	Surface Water	BL
2/24/201		Horiba3	floto (al	Surface Water	0
4/7/21	0850	Horiba 3 g	AutoCal	Surface Water	BL
4/19/21	0603	HONDONS	Aut o Cal	Groundwater	BL
4/14/21	095	HMDAT	Auto (ul	Grundwate	AMITC
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			(a) (b) (c) (d) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d		I R R R
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	* 11 * 1 * 1 * 1 * 1 * 1 * 1 * 1 * 1 *				Rite in the Rain
Scale: 1 square	=				



BIH GW Samply Date 4/14/21 Semples BL, RK, TC, SM, AM NWH-2-17 AM well: Arrivaltime Det3 10:29 finish time: 10:58 Sample Collection Time: 1048 Beginny Hzo view. 57- 9-64-Ending (HEO Love! 10.00 9.80 Cond Time ItzO level (units) 00 Turb ORP Femp (CC) (ms/cm) (mg/L) (P1) (hrs) (NTU) (MV) 10:39 8.33 59 49 10.05 17.68 9.87 0.723 17.04 5.83 0.390 8.9 51 10:41 9.70 10.10 16.96 10.43 9.23 0.376 5.10 9.1 40 10.18 4.69 10:45 16.92 10.16 8.94 0374 7.5 71 10:47 (6)45Z 16.91 47 10.18 8.75 0.373 75 TU Pite in the Rain Scale: 1 square =

BIH GW Sampling Date: 4.14 2021 Well OP-7 Samplers: Am, Jm, Rx BITTLE Arrival Time Finds Time: 1005 Well Diameter: 4" Sample Collection Time. 0950 Beginning Hzo Cevel: 4.88' Ending Ho (evel 5.02' psample Collection Time: Time Temp PH Cand DO turb ORP Mro len (00) (NRS) (Mils) Imslam myll (MV) mV) (pt) 09:26 13.81 8.37 5.63 14:11 4.2 117 5.00 09,28 14.23 8.30 10,8 1.84 102 130 5.00 09:30 14.31 8.21 16.4 0.12 3.1 133 5.05 09:32 14.32 810 21.1 Ø 0.8 131 5.10 09:34 14.33 8:10 22,1 0 D 105 5.05 69:36 14.33 8.17 22:2 0 46 X 5.60 09:38 14.33 8.22 223 0 Ø 5 5.10 09:40 14.31 22.3 8.26 0 -11 0 5.08 09:42 14.30 8,29 12.2 Ø 8 -255.08 09:44 14.30 8.32 22.2 -34 X 8 5.11 09:46 14.32 8.31 22.3 0 -43 X 5.11 09.48 14.31 8.31 22.4 0 0 -47 5.15 Scale: 1 square =

BIM GW Sampling Date 4.14.2021 (Nell UP 5 Samples AM, JM, RK, be, Te Arrival Time: 08:03 First Time 08.48 Well Dimeser 4" Service collection Time 08.34 Beginning Molevel: 4.35' the level 4.25' Endina Time Temp Da PH Cond Turb ORP Mo leu (MRI) (0) ints) (ms/cm) (my/1) mV) NTU (A) 08:17 13.33 531 0.633 9.71 1.6 283 4.40 08:19 1446 6.22 1.47 0 231 0.7 4.45 08.21 14.57 6.55 1.45 0 0.5 171 4.55 08.23 14.60 6.73 1.45 D 04 128 4.56 08:25 14.60 4.84 1.45 0 97 0.1 4.60 08.27 14.61 6.93 1.45 8 0.3 73 460 08:29 6.99 14.6 1.48 Ø 1.5 58 4.51 08:31 14.62 7.07 1.50 0 3.0 52 4.52 08:33 14.61 7.12 1.50 8 3.3 48 4.52 52 5.8 57.8 Scale: 1 square =

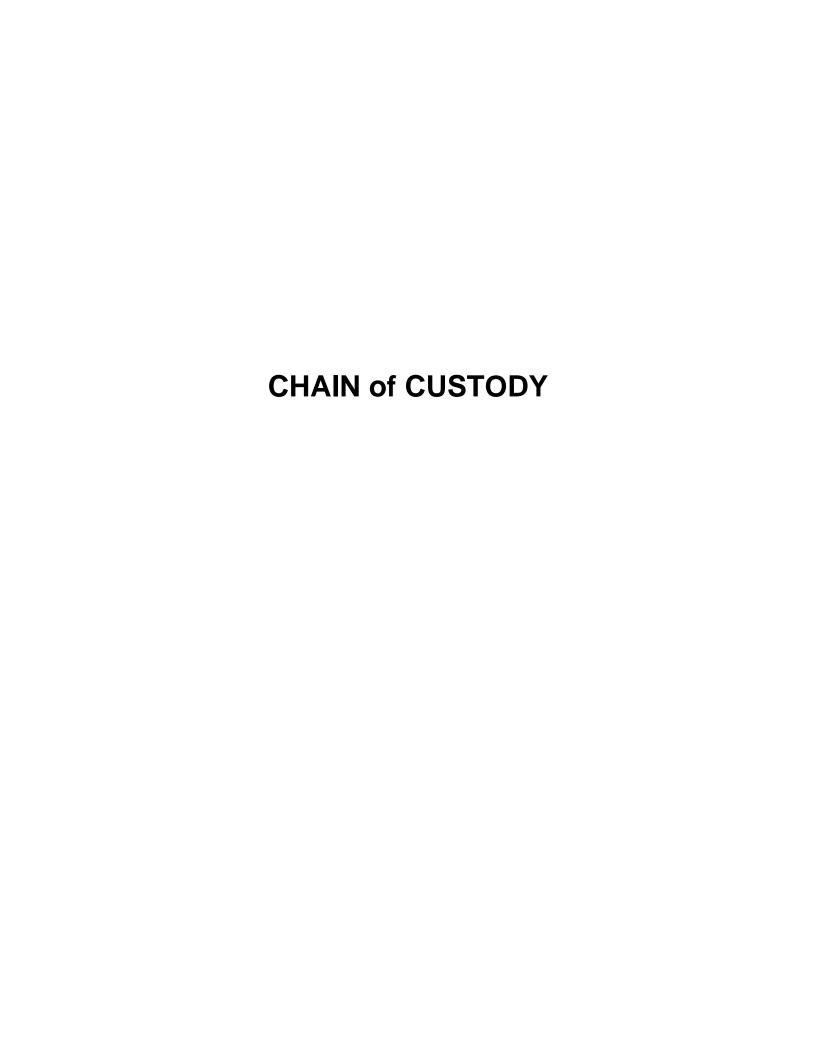
	in Sampl)ak 4142	1021	,
well	OF Z				Samo	des Am, J	m, RK, BL	, TC
Amalt	ine: 12:12						2 2 2	12
FA. W. T.	nove : 12.4	12						i
							1 1 1	
Well Die	emeter: 6	"		Sar	nple collec	tion Time	12:29	1
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Ending	nie (rever: 10	,00				3 3 3	Ģ.
Time	Temp	рΜ	Cond	00	tub	1 ORP	1 Moi	er
(VRS)	((0)	(units)	(ms/cn)	(mgle)	(UTU)	(mv)	(F+)	
2:22	16.22	7.26	5.72	3.79	11.3	184	10.2	
2.24	16.19	6.82	5.82	4.45	6.1	182	10.2	į
12.26	16.16	6.78	5.83	4.48	5.7	180	10.3	G
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1		<u> </u>	1000					5
								10

BIH GW Sampling Date: 4.14.2021 Well DP 3 Samplers: Am, Jm, RK, BL, TCE Amvaltime: 13:03 Finish Time: 1335 Well Digneter. 6" Sample collection Time: 13:21 Beginning 1/20 her 1700' Ending 1/20 level: 16.95 Turb ORP HzO level Cond Time Temp Ha 00 (mg/L) (units) (hrs) (00) (P1) (ms/cm) (NTU) (mV) 13.14 7.47 268 11.21 152 17.00 5.2 17.10 27 5.99 3.7 193 13:16 17.39 6.18 17.15 13 18 17:40 6.04 8 4.0 212 6.05 17:20 Ø 13:20 17.40 5.97 604 223 1720 42 212 21.2 243.2 193 19.3 2123 Scale: 1 square =

	GWSan	<u> </u>			\mathcal{O}	nte 41420	21
(Ne.) 1	APLI	- NWM-2	7		Sand	ers AM Tr	Nek
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07:27	14.65	7.03	3,99	1.89	8.2	205	15.70
07.29	14.83	6.78	4.39	1.08	4.7	ורו	15.75
J7:31	14.87	6.66	4.49	0.59	3.9	165	15.60
07:33	14.90	6.57	4.60	0.42	3.5	160	15.91
07:35	14.93	4.53	4.66	Ø	3.3	158	15.86
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Preliminary Data To Sample Receipt Acknowledgement To													auto)								Text & Excel File Drive	Excel & Yext Film Order
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Invoice To:	Maria Kad 115 Tabo Morris Pla	r Road	07950							site/Grab	Filtered Sample) Chromium	SW9010/9012 Total Cyanide (auto)								,	
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Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units		шфф	ppb								Sampling Method (code)	Lab Sampie Numbers
1 OP7	4.58	5.02	OP7_041421	4/14/2021	1950	GW-GWS	WATER	REG	4	grab	Y	х								×	BladPump	
2 OP11	14.90	151	OP11_041421	4/14/2021	1738	GW-GWS	WATER	REG	1	grab	Υ	х									BladPump	
3 OP5	4.35	420	OP5_041421	4/14/2021	0834	GW-GWS	WATER	REG	1	grab	Υ	х									BladPLmp	
4 OP2	1100	10.0	OP2_041421	4/14/2021	1229	GW-GWS	WATER	REG	2	grab	Υ	х	х								BladPump	
5 OP3	1718	169	OP3_041421	4/14/2021	1321	GW-GWS	WATER	REG	2	grab	Υ	х	х			1					BladPump	
6 OP4	9.80	10.01	OP4_041421	4/14/2021	1748	GW-GWS	WATER	REG	1	grab	Y	х									BladPump	
7 OP9	6.78	6.8	OP9_041421	4/14/2021	1400	GW-GWS	WATER	REG	1	grab	Y	х									BladPLmp	
8 NWM-27	2.10	234	NWM-27_041421	4/14/2021	0640	GW-GWS	WATER	REG	1	grab	Y	х									BladPLmp	
9 OP7	-	5.0	OP7_041421	4/14/2021	0950	GW-GW\$	WATER	FD	1	grab	Υ	Х				1		1			BladPLmp	
10 OP3	17.00	169	OP3_041421	4/14/2021	1321	GW-GWS	WATER	FD	1	grab	Υ		х			1					BladPump	
11 QC	*		QC_041421	4/14/2021	1457	BLKWATER	WATER	FB	2_	grab	Y	х	х		-	1	\vdash	-				
12 QC	-3-		QC_041421	4/14/2021	×46	BLKWATER	WATER	1EB	2	grab	Υ	Х	Х			1						
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Relinquished by	V -		Company Date/Time	У	- 3	Received by	3					oto/T:-		pany			dition					
Preservatives: (Other;	Specify):		Date/Init			0 (none); 1 (4 De 4Deg C); 11 (4C	eg C); 2 (HC	l pH<2); 3 (H	INO3 pH	<2); 4 (H	12804	pH<2);	5 (NaC	OH pH>1	2); 6 (NaOH, Z	Acetate	e); 7 (H2SC	04 (pH<2)	, 4 Deg C	C)); 8 (HCl p	H<2); 9 (HCl ≠ Deg C);	10 (HNO3 (pH=2),

Appendix C Drainage Layer Sampling Program Data

Appendix C-1
Raw Laboratory Data—April 2021



Environment Testing America

ANALYTICAL REPORT

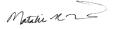
Eurofins Lancaster Laboratories Env, LLC 2425 New Holland Pike Lancaster, PA 17601 Tel: (717)656-2300

Laboratory Job ID: 410-37807-1

Client Project/Site: Baltimore Inner Harbor, MD

Honeywell International Inc Remediation & Evaluation Services 115 Tabor Road Morris Plains, New Jersey 07950

Attn: Ms. Maria Kaouris



Authorized for release by: 5/11/2021 1:57:37 PM

Natalie Luciano, Principal Project Manager (717)556-7258

Natalie.Luciano@eurofinset.com

results through Total Access



Visit us at:

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



3

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
- · Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
 Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Matalia R =

Natalie Luciano Principal Project Manager 5/11/2021 1:57:37 PM

Page 2 of 24

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Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Detection Summary	6
Client Sample Results	8
QC Sample Results	11
QC Association Summary	14
Lab Chronicle	16
Certification Summary	19
Method Summary	20
Sample Summary	21
Chain of Custody	22
Receipt Chacklists	24

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Definitions/Glossary

Client: Honeywell International Inc Job ID: 410-37807-1 Project/Site: Baltimore Inner Harbor, MD

Qualifiers

Metals

Qualifier **Qualifier Description**

Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

These commonly used abbreviations may or may not be present in this report.
Listed under the "D" column to designate that the result is reported on a dry weight basis
Percent Recovery
Result is from the primary column on a dual-column method.
Result is from the confirmation column on a dual-column method.
Contains Free Liquid
Colony Forming Unit
Contains No Free Liquid
Duplicate Error Ratio (normalized absolute difference)
Dilution Factor
Detection Limit (DoD/DOE)
Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
Decision Level Concentration (Radiochemistry)
Estimated Detection Limit (Dioxin)
Limit of Detection (DoD/DOE)
Limit of Quantitation (DoD/DOE)
EPA recommended "Maximum Contaminant Level"
Minimum Detectable Activity (Radiochemistry)
Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive **Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Page 4 of 24

Case Narrative

Client: Honeywell International Inc Project/Site: Baltimore Inner Harbor, MD Job ID: 410-37807-1

Job ID: 410-37807-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-37807-1

Receipt

The samples were received on 4/29/2021 6:19 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2° C

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): SSMP3_DLF_042821 (410-37807-3). The container labels list a time of 12:20, while the COC lists 12:19. The client COC was followed.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Job ID: 410-37807-1

Client Sample ID: SSMF	22 DIE 0/2821					1.	ah.	Sample II	D: 410-37807-1
Chefit Sample ID. SSWIP	Z_DLI _042021						טג	Sample IL	7. 410-37007-1
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	29		15	1.6	ug/L	1		6010C	Dissolved
Client Sample ID: SSMF	P2_DL_042821					La	ab	Sample II): 410-37807-2
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	4.5	J	15	1.6	ug/L	1	_	6010C	Total Recoverable
							_		
Client Sample ID: SSMF	P3_DLF_042821					La	ab	Sample II	D: 410-37807-3
Client Sample ID: SSMF No Detections.	P3_DLF_042821					Lá	ab	Sample II	D: 410-37807-3
								•	D: 410-37807-3 D: 410-37807-4
No Detections.	P3_DL_042821	Qualifier	RL	MDL	Unit		ab	•	
No Detections. Client Sample ID: SSMF	P3_DL_042821		RL 15		Unit ug/L	La	ab	Sample II	D: 410-37807-4
No Detections. Client Sample ID: SSMF Analyte	23_DL_042821					La Dil Fac	ab	Sample II	D: 410-37807-4 Prep Type
No Detections. Client Sample ID: SSMF Analyte	P3_DL_042821 Result 5.2					La Dil Fac	ab D	Sample II	Prep Type Total
No Detections. Client Sample ID: SSMF Analyte Chromium	P3_DL_042821 Result 5.2 P4_DLF_042821				ug/L	La Dil Fac	ab D	Sample II	Prep Type Total Recoverable
No Detections. Client Sample ID: SSMF Analyte Chromium Client Sample ID: SSMF	P3_DL_042821 Result 5.2 P4_DLF_042821	J	15	1.6	ug/L Unit	Dil Fac	ab D	Sample II	Prep Type Total Recoverable 0: 410-37807-5
No Detections. Client Sample ID: SSMF Analyte Chromium Client Sample ID: SSMF Analyte	P3_DL_042821 Result 5.2 P4_DLF_042821 Result 0.011	J	15 RL	1.6	ug/L Unit	La Dil Fac Dil Fac Dil Fac 1	ab D ab	Sample II Method 6010C Sample II Method 9012B	Prep Type Total Recoverable D: 410-37807-5 Prep Type

Client Sample ID: SSWP4A_DLF_042821

9.8 J

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	O Method	Prep Type
Chromium	2.6	J	15	1.6	ug/L	1	6010C	Dissolved

15

1.6 ug/L

Client Sample	ID: SSMP4A	_DL_042821
----------------------	------------	------------

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
Chromium	13	J	15	1.6	ug/L	1	6010C	Total Recoverable

illent Sample ID: SSMPSDOP_DLF_042621	
No Detections.	

Client Sample ID: S	55WP3DUP	υL	042821
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Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Chromium	5.3 J	15	1.6 ug/L	1	6010C	Total Recoverable

Client Sample ID: QC_FBF_042821

No Detections.

Client Sample ID: QC_FB_042821

No Detections.

Chromium

This Detection Summary does not include radiochemical test results.

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6010C

Total Recoverable

Lab Sample ID: 410-37807-7

Lab Sample ID: 410-37807-8

Lab Sample ID: 410-37807-9

Lab Sample ID: 410-37807-10

Lab Sample ID: 410-37807-11

Lab Sample ID: 410-37807-12

Detection Summary

Client: Honeywell International Inc Project/Site: Baltimore Inner Harbor, MD Job ID: 410-37807-1

Client Sample ID: QC_EBF_042821 Lab Sample ID: 410-37807-13

No Detections.

Client Sample ID: QC_EB_042821 Lab Sample ID: 410-37807-14

No Detections.

Client Sample Results

Client: Honeywell International Inc Project/Site: Baltimore Inner Harbor, MD Lab Sample ID: 410-37807-1 Client Sample ID: SSMP2_DLF_042821 Date Collected: 04/28/21 11:38 **Matrix: Water** Date Received: 04/29/21 18:19 Method: 6010C - Metals (ICP) - Dissolved Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chromium 15 1.6 ug/L 05/03/21 17:57 05/04/21 21:27 29 **General Chemistry - Dissolved** Result Qualifier RL MDL Unit D Analyte Prepared Analyzed Dil Fac Cyanide, Total ND 0.010 05/10/21 12:32 05/10/21 17:07 0.0050 mg/L Client Sample ID: SSMP2 DL 042821 Lab Sample ID: 410-37807-2 Date Collected: 04/28/21 11:38 **Matrix: Water** Date Received: 04/29/21 18:19 Method: 6010C - Metals (ICP) - Total Recoverable Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 4.5 J 15 1.6 ug/L 05/03/21 08:42 05/05/21 19:29 Chromium Client Sample ID: SSMP3_DLF_042821 Lab Sample ID: 410-37807-3 Date Collected: 04/28/21 12:19 Matrix: Water Date Received: 04/29/21 18:19 Method: 6010C - Metals (ICP) - Dissolved Analyte Result Qualifier RL MDL D Dil Fac Unit Prepared Analyzed Chromium ND 15 1.6 ug/L 05/03/21 17:57 05/04/21 21:23 **General Chemistry - Dissolved** Analyte Qualifier RL MDL Dil Fac Unit D Prepared Analyzed Result Cyanide, Total 0.010 05/10/21 12:32 05/10/21 17:04 ND 0.0050 mg/L Client Sample ID: SSMP3_DL_042821 Lab Sample ID: 410-37807-4 Date Collected: 04/28/21 12:19 Matrix: Water Date Received: 04/29/21 18:19 Method: 6010C - Metals (ICP) - Total Recoverable Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chromium 5.2 J 15 1.6 ug/L 05/03/21 08:42 05/04/21 14:41 Client Sample ID: SSMP4 DLF 042821 Lab Sample ID: 410-37807-5 Date Collected: 04/28/21 14:25 Matrix: Water Date Received: 04/29/21 18:19 Method: 6010C - Metals (ICP) - Dissolved Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chromium ND 15 1.6 05/03/21 03:58 05/03/21 12:08 ug/L **General Chemistry - Dissolved** Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 0.010 05/10/21 12:32 0.011 0.0050 mg/L 05/10/21 16:59 Cyanide, Total Client Sample ID: SSMP4 DL 042821 Lab Sample ID: 410-37807-6 Date Collected: 04/28/21 14:25 **Matrix: Water** Date Received: 04/29/21 18:19 Method: 6010C - Metals (ICP) - Total Recoverable Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chromium 9.8 J 15 1.6 ug/L 05/03/21 08:42 05/04/21 14:55

Eurofins Lancaster Laboratories Env, LLC

5/11/2021

Page 8 of 24

Job ID: 410-37807-1

Client Sample Results

Client: Honeywell International Inc Project/Site: Baltimore Inner Harbor, MD Lab Sample ID: 410-37807-7 Client Sample ID: SSMP4A_DLF_042821 Date Collected: 04/28/21 13:28 **Matrix: Water** Date Received: 04/29/21 18:19 Method: 6010C - Metals (ICP) - Dissolved Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chromium 15 1.6 ug/L 05/03/21 17:57 05/04/21 21:39 2.6 **General Chemistry - Dissolved** Result Qualifier RL MDL Unit D Analyte Prepared Analyzed Dil Fac Cyanide, Total ND 0.010 05/10/21 12:32 05/10/21 17:09 0.0050 mg/L Client Sample ID: SSMP4A DL 042821 Lab Sample ID: 410-37807-8 Date Collected: 04/28/21 13:28 **Matrix: Water** Date Received: 04/29/21 18:19 Method: 6010C - Metals (ICP) - Total Recoverable Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 15 13 J 1.6 ug/L 05/03/21 08:42 05/04/21 14:59 Chromium Client Sample ID: SSMP3DUP_DLF_042821 Lab Sample ID: 410-37807-9 Date Collected: 04/28/21 12:19 Matrix: Water Date Received: 04/29/21 18:19 Method: 6010C - Metals (ICP) - Dissolved Analyte Result Qualifier RL MDL D Dil Fac Unit Prepared Analyzed Chromium ND 15 1.6 ug/L 05/03/21 17:57 05/04/21 21:36 **General Chemistry - Dissolved** Analyte RL MDL Dil Fac Result Qualifier Unit D Prepared Analyzed 0.010 Cyanide, Total 05/10/21 12:32 05/10/21 17:06 ND 0.0050 mg/L Client Sample ID: SSMP3DUP_DL_042821 Lab Sample ID: 410-37807-10 Date Collected: 04/28/21 12:19 Matrix: Water Date Received: 04/29/21 18:19 Method: 6010C - Metals (ICP) - Total Recoverable Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chromium 5.3 J 15 1.6 ug/L 05/03/21 08:42 05/04/21 14:52 Client Sample ID: QC FBF 042821 Lab Sample ID: 410-37807-11 Date Collected: 04/28/21 15:04 Matrix: Water Date Received: 04/29/21 18:19 Method: 6010C - Metals (ICP) - Dissolved Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chromium ND 15 1.6 ug/L 05/03/21 17:57 05/04/21 21:42 **General Chemistry - Dissolved** Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 0.010 Cyanide, Total ND 0.0050 mg/L 05/10/21 16:46 05/11/21 11:10 Client Sample ID: QC FB 042821 Lab Sample ID: 410-37807-12 Date Collected: 04/28/21 15:04 **Matrix: Water** Date Received: 04/29/21 18:19 Method: 6010C - Metals (ICP) - Total Recoverable Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chromium ND 15 1.6 ug/L 05/03/21 08:42 05/04/21 14:48

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Job ID: 410-37807-1

6

Page 9 of 24 5/11/2021

Client Sample Results

Client: Honeywell International Inc

Project/Site: Baltimore Inner Harbor, MD

Client Sample ID: QC_EBF_042821

Lab Sample ID: 410-37807-13

Matrix: Water

Matrix: Water

Job ID: 410-37807-1

Date Collected: 04/28/21 15:12 Date Received: 04/29/21 18:19

Method: 6010C - Metals (ICP) - Dissolved

Analyte Result Qualifier RL MDL Unit D Prepared

 Analyte
 Result
 Qualifier
 RL
 MDL ug/L
 Unit ug/L
 D ug/L
 Prepared D5/03/21 17:57
 Analyzed Dil Fac D6/03/21 21:45
 Dil Fac D1

General Chemistry - Dissolved

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Cyanide, Total
 ND
 0.010
 0.005
 mg/L
 05/10/21 12:32
 05/10/21 17:03
 1

Client Sample ID: QC_EB_042821 Lab Sample ID: 410-37807-14

Date Collected: 04/28/21 15:12 Date Received: 04/29/21 18:19

Method: 6010C - Metals (ICP) - Total Recoverable

 Analyte
 Result Qualifier
 RL ND
 MDL Unit
 D Prepared
 Analyzed Analyzed
 Dil Fac

 Chromium
 ND
 15
 1.6 ug/L
 05/03/21 08:42
 05/04/21 14:45
 1

11

13

Prep Type: Total/NA

Prep Batch: 121896

Prep Batch: 121624

Prep Batch: 121624

Client: Honeywell International Inc Project/Site: Baltimore Inner Harbor, MD

Method: 6010C - Metals (ICP)

Client Sample ID: Method Blank Lab Sample ID: MB 410-121480/1-A

Matrix: Water

Matrix: Water

Analyte

Chromium

Analysis Batch: 121771

Prep Type: Total/NA **Prep Batch: 121480**

MB MB Dil Fac Result Qualifier RLMDL Unit D Prepared Analyzed ND 15 1.6 ug/L 05/03/21 03:56 05/03/21 11:22

Lab Sample ID: LCS 410-121480/2-A Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 121771 Prep Batch: 121480**

Spike LCS LCS %Rec.

Added Analyte Result Qualifier Unit D %Rec Limits Chromium 30.0 30.0 ug/L 100 80 - 120

Lab Sample ID: MB 410-121896/1-A Client Sample ID: Method Blank

Analysis Batch: 122477

мв мв

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chromium 15 05/03/21 17:57 05/04/21 20:52 ND 1.6 ug/L

Lab Sample ID: LCS 410-121896/2-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water

Analysis Batch: 122477 **Prep Batch: 121896** Spike LCS LCS %Rec.

Added Analyte Result Qualifier Unit %Rec Limits

Chromium 30.0 30.3 101 80 - 120 ug/L

Lab Sample ID: MB 410-121624/1-A Client Sample ID: Method Blank **Matrix: Water Prep Type: Total Recoverable**

Analysis Batch: 122965

MR MR

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac

15 Chromium ND 1.6 ug/L 05/03/21 08:42 05/05/21 19:17

Lab Sample ID: LCS 410-121624/2-A Client Sample ID: Lab Control Sample **Matrix: Water Prep Type: Total Recoverable**

Analysis Batch: 122965

Spike LCS LCS %Rec.

Added Analyte Result Qualifier Unit D %Rec Limits Chromium 30.0 28.5 ug/L 95 80 - 120

Lab Sample ID: 410-37807-2 MS Client Sample ID: SSMP2_DL_042821

Matrix: Water Prep Type: Total Recoverable

Analysis Batch: 122965 Prep Batch: 121624

MS MS Sample Sample Spike %Rec. Result Qualifier Added Result Qualifier Limits Analyte Unit D %Rec Chromium 4.5 J. 30.0 34.6 ug/L 100 75 - 125

Lab Sample ID: 410-37807-2 MSD Client Sample ID: SSMP2_DL_042821

Matrix: Water

Prep Type: Total Recoverable Analysis Batch: 122965 **Prep Batch: 121624**

MSD MSD RPD Spike Sample Sample %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Chromium 4.5 J 30.0 33.4 ug/L 97 75 - 125 20

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Client: Honeywell International Inc Project/Site: Baltimore Inner Harbor, MD

Method: 6010C - Metals (ICP)

Lab Sample ID: 410-37807-2 DU Client Sample ID: SSMP2_DL_042821

Matrix: Water

Analysis Batch: 122965

Prep Type: Total Recoverable Prep Batch: 121624

RPD Limit

Sample Sample DU DU Result Qualifier RPD Analyte Result Qualifier Unit Chromium 4.5 J 4.33 J ug/L 20

Lab Sample ID: 410-37807-5 MS Client Sample ID: SSMP4_DLF_042821 **Matrix: Water**

Analysis Batch: 121771

Prep Type: Dissolved Prep Batch: 121480

Sample Sample Spike MS MS %Rec. Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits Chromium ND 30.0 27.4 ug/L 91 75 - 125

Lab Sample ID: 410-37807-5 MSD Client Sample ID: SSMP4_DLF_042821

Matrix: Water

Analysis Batch: 121771

Prep Type: Dissolved Prep Batch: 121480

Sample Sample MSD MSD RPD Spike %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chromium ND 30.0 27.2 75 - 125 ug/L

Lab Sample ID: 410-37807-5 DU Client Sample ID: SSMP4_DLF_042821

Matrix: Water

Analysis Batch: 121771

Prep Type: Dissolved

Prep Batch: 121480

DU DU Sample Sample RPD Result Analyte Result Qualifier Qualifier Limit Unit Chromium ND ND ug/L 20

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 410-124414/2-A Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 124587

Prep Type: Total/NA

Prep Batch: 124414

MDL Unit Dil Fac Analyte Result Qualifier RL Prepared Analyzed Cyanide, Total ND 0.010 0.0050 mg/L 05/10/21 12:32 05/10/21 16:57

Lab Sample ID: LCS 410-124414/1-A Client Sample ID: Lab Control Sample **Matrix: Water**

LCS LCS

Analysis Batch: 124587

Prep Type: Total/NA Prep Batch: 124414

%Rec.

Spike Added Result Qualifier %Rec Limits Analyte Unit D 0.201 Cyanide, Total 0.199 mg/L 90 - 110

MB MB

Lab Sample ID: 410-37807-5 MS Client Sample ID: SSMP4 DLF 042821 **Matrix: Water**

Analysis Batch: 124587

Prep Type: Dissolved Prep Batch: 124414

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Cyanide, Total 0.011 0.201 0.195 mg/L 92 72 _ 114

QC Sample Results

Client: Honeywell International Inc Job ID: 410-37807-1

Project/Site: Baltimore Inner Harbor, MD

Analysis Batch: 124587

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Sample Sample

Lab Sample ID: 410-37807-5 DU Client Sample ID: SSMP4_DLF_042821

Matrix: Water

Prep Type: Dissolved Prep Batch: 124414

RPD

AnalyteResult
Cyanide, TotalResult
0.011Qualifier
0.012Qualifier
0.0121Unit
mg/LDRPDLimit
6

DU DU

7

8

10

13

QC Association Summary

Client: Honeywell International Inc Project/Site: Baltimore Inner Harbor, MD Job ID: 410-37807-1

Metals

Prep Batch: 121480

Lab Sample ID 410-37807-5	Client Sample ID SSMP4_DLF_042821	Prep Type Dissolved	Matrix Water	Method Prep Batch Non-Digest Prep
MB 410-121480/1-A	Method Blank	Total/NA	Water	Non-Digest Prep
LCS 410-121480/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep
410-37807-5 MS	SSMP4_DLF_042821	Dissolved	Water	Non-Digest Prep
410-37807-5 MSD	SSMP4_DLF_042821	Dissolved	Water	Non-Digest Prep
410-37807-5 DU	SSMP4_DLF_042821	Dissolved	Water	Non-Digest Prep

Prep Batch: 121624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-37807-2	SSMP2_DL_042821	Total Recoverable	Water	3005A	_
410-37807-4	SSMP3_DL_042821	Total Recoverable	Water	3005A	
410-37807-6	SSMP4_DL_042821	Total Recoverable	Water	3005A	
410-37807-8	SSMP4A_DL_042821	Total Recoverable	Water	3005A	
410-37807-10	SSMP3DUP_DL_042821	Total Recoverable	Water	3005A	
410-37807-12	QC_FB_042821	Total Recoverable	Water	3005A	
410-37807-14	QC_EB_042821	Total Recoverable	Water	3005A	
MB 410-121624/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-121624/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
410-37807-2 MS	SSMP2_DL_042821	Total Recoverable	Water	3005A	
410-37807-2 MSD	SSMP2_DL_042821	Total Recoverable	Water	3005A	
410-37807-2 DU	SSMP2_DL_042821	Total Recoverable	Water	3005A	

Analysis Batch: 121771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-37807-5	SSMP4_DLF_042821	Dissolved	Water	6010C	121480
MB 410-121480/1-A	Method Blank	Total/NA	Water	6010C	121480
LCS 410-121480/2-A	Lab Control Sample	Total/NA	Water	6010C	121480
410-37807-5 MS	SSMP4_DLF_042821	Dissolved	Water	6010C	121480
410-37807-5 MSD	SSMP4_DLF_042821	Dissolved	Water	6010C	121480
410-37807-5 DU	SSMP4_DLF_042821	Dissolved	Water	6010C	121480

Prep Batch: 121896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-37807-1	SSMP2_DLF_042821	Dissolved	Water	Non-Digest Prep	
410-37807-3	SSMP3_DLF_042821	Dissolved	Water	Non-Digest Prep	
410-37807-7	SSMP4A_DLF_042821	Dissolved	Water	Non-Digest Prep	
410-37807-9	SSMP3DUP_DLF_042821	Dissolved	Water	Non-Digest Prep	
410-37807-11	QC_FBF_042821	Dissolved	Water	Non-Digest Prep	
410-37807-13	QC_EBF_042821	Dissolved	Water	Non-Digest Prep	
MB 410-121896/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-121896/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Analysis Batch: 122329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-37807-4	SSMP3_DL_042821	Total Recoverable	Water	6010C	121624
410-37807-6	SSMP4_DL_042821	Total Recoverable	Water	6010C	121624
410-37807-8	SSMP4A_DL_042821	Total Recoverable	Water	6010C	121624
410-37807-10	SSMP3DUP_DL_042821	Total Recoverable	Water	6010C	121624
410-37807-12	QC_FB_042821	Total Recoverable	Water	6010C	121624
410-37807-14	QC_EB_042821	Total Recoverable	Water	6010C	121624

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Page 14 of 24

QC Association Summary

Client: Honeywell International Inc Project/Site: Baltimore Inner Harbor, MD Job ID: 410-37807-1

Metals

Analysis Batch: 122477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-37807-1	SSMP2_DLF_042821	Dissolved	Water	6010C	121896
410-37807-3	SSMP3_DLF_042821	Dissolved	Water	6010C	121896
410-37807-7	SSMP4A_DLF_042821	Dissolved	Water	6010C	121896
410-37807-9	SSMP3DUP_DLF_042821	Dissolved	Water	6010C	121896
410-37807-11	QC_FBF_042821	Dissolved	Water	6010C	121896
410-37807-13	QC_EBF_042821	Dissolved	Water	6010C	121896
MB 410-121896/1-A	Method Blank	Total/NA	Water	6010C	121896
LCS 410-121896/2-A	Lab Control Sample	Total/NA	Water	6010C	121896

Analysis Batch: 122965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-37807-2	SSMP2_DL_042821	Total Recoverable	Water	6010C	121624
MB 410-121624/1-A	Method Blank	Total Recoverable	Water	6010C	121624
LCS 410-121624/2-A	Lab Control Sample	Total Recoverable	Water	6010C	121624
410-37807-2 MS	SSMP2_DL_042821	Total Recoverable	Water	6010C	121624
410-37807-2 MSD	SSMP2_DL_042821	Total Recoverable	Water	6010C	121624
410-37807-2 DU	SSMP2_DL_042821	Total Recoverable	Water	6010C	121624

General Chemistry

Prep Batch: 124414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
410-37807-1	SSMP2_DLF_042821	Dissolved	Water	9012B	
410-37807-3	SSMP3_DLF_042821	Dissolved	Water	9012B	
410-37807-5	SSMP4_DLF_042821	Dissolved	Water	9012B	
410-37807-7	SSMP4A_DLF_042821	Dissolved	Water	9012B	
410-37807-9	SSMP3DUP_DLF_042821	Dissolved	Water	9012B	
410-37807-11	QC_FBF_042821	Dissolved	Water	9012B	
410-37807-13	QC_EBF_042821	Dissolved	Water	9012B	
MB 410-124414/2-A	Method Blank	Total/NA	Water	9012B	
LCS 410-124414/1-A	Lab Control Sample	Total/NA	Water	9012B	
410-37807-5 MS	SSMP4_DLF_042821	Dissolved	Water	9012B	
410-37807-5 DU	SSMP4 DLF 042821	Dissolved	Water	9012B	

Analysis Batch: 124587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-37807-1	SSMP2_DLF_042821	Dissolved	Water	9012B	124414
410-37807-3	SSMP3_DLF_042821	Dissolved	Water	9012B	124414
410-37807-5	SSMP4_DLF_042821	Dissolved	Water	9012B	124414
410-37807-7	SSMP4A_DLF_042821	Dissolved	Water	9012B	124414
410-37807-9	SSMP3DUP_DLF_042821	Dissolved	Water	9012B	124414
410-37807-13	QC_EBF_042821	Dissolved	Water	9012B	124414
MB 410-124414/2-A	Method Blank	Total/NA	Water	9012B	124414
LCS 410-124414/1-A	Lab Control Sample	Total/NA	Water	9012B	124414
410-37807-5 MS	SSMP4_DLF_042821	Dissolved	Water	9012B	124414
410-37807-5 DU	SSMP4 DLF 042821	Dissolved	Water	9012B	124414

Analysis Batch: 124987

-					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-37807-11	QC_FBF_042821	Dissolved	Water	9012B	124414

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Page 15 of 24

Client: Honeywell International Inc Project/Site: Baltimore Inner Harbor, MD

Client Sample ID: SSMP2_DLF_042821

Date Collected: 04/28/21 11:38

Lab Sample ID: 410-37807-1

Matrix: Water

Date Received: 04/29/21 18:19

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			121896	05/03/21 17:57	UJLA	ELLE
Dissolved	Analysis	6010C		1	122477	05/04/21 21:27	UCIG	ELLE
Dissolved	Prep	9012B			124414	05/10/21 12:32	UJE2	ELLE
Dissolved	Analysis	9012B		1	124587	05/10/21 17:07	UJE2	ELLE

Client Sample ID: SSMP2_DL_042821

Lab Sample ID: 410-37807-2 Date Collected: 04/28/21 11:38

Matrix: Water

Date Received: 04/29/21 18:19

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			121624	05/03/21 08:42	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	122965	05/05/21 19:29	UCIG	ELLE

Client Sample ID: SSMP3_DLF_042821

Lab Sample ID: 410-37807-3 Date Collected: 04/28/21 12:19

Matrix: Water

Date Received: 04/29/21 18:19

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			121896	05/03/21 17:57	UJLA	ELLE
Dissolved	Analysis	6010C		1	122477	05/04/21 21:23	UCIG	ELLE
Dissolved	Prep	9012B			124414	05/10/21 12:32	UJE2	ELLE
Dissolved	Analysis	9012B		1	124587	05/10/21 17:04	UJE2	ELLE

Client Sample ID: SSMP3_DL_042821

Lab Sample ID: 410-37807-4 Date Collected: 04/28/21 12:19 **Matrix: Water**

Date Received: 04/29/21 18:19

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			121624	05/03/21 08:42	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	122329	05/04/21 14:41	MDP5	ELLE

Client Sample ID: SSMP4_DLF_042821

Lab Sample ID: 410-37807-5 Date Collected: 04/28/21 14:25 **Matrix: Water**

Date Received: 04/29/21 18:19

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			121480	05/03/21 03:58	UJL8	ELLE
Dissolved	Analysis	6010C		1	121771	05/03/21 12:08	MDP5	ELLE
Dissolved	Prep	9012B			124414	05/10/21 12:32	UJE2	ELLE
Dissolved	Analysis	9012B		1	124587	05/10/21 16:59	UJE2	ELLE

Job ID: 410-37807-1

Client: Honeywell International Inc Project/Site: Baltimore Inner Harbor, MD

Client Sample ID: SSMP4_DL_042821

Date Collected: 04/28/21 14:25 Date Received: 04/29/21 18:19 Lab Sample ID: 410-37807-6

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			121624	05/03/21 08:42	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	122329	05/04/21 14:55	MDP5	ELLE

Client Sample ID: SSMP4A_DLF_042821

Date Collected: 04/28/21 13:28 Date Received: 04/29/21 18:19

Lab Sample ID: 410-37807-7

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			121896	05/03/21 17:57	UJLA	ELLE
Dissolved	Analysis	6010C		1	122477	05/04/21 21:39	UCIG	ELLE
Dissolved	Prep	9012B			124414	05/10/21 12:32	UJE2	ELLE
Dissolved	Analysis	9012B		1	124587	05/10/21 17:09	UJE2	ELLE

Client Sample ID: SSMP4A_DL_042821

Date Collected: 04/28/21 13:28

Lab Sample ID: 410-37807-8

Matrix: Water

Date Received: 04/29/21 18:19

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			121624	05/03/21 08:42	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	122329	05/04/21 14:59	MDP5	ELLE

Client Sample ID: SSMP3DUP_DLF_042821

Date Collected: 04/28/21 12:19

Date Received: 04/29/21 18:19

Lab	Sample	ID: 410-37807-9
		B. B A Co A. A A

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			121896	05/03/21 17:57	UJLA	ELLE
Dissolved	Analysis	6010C		1	122477	05/04/21 21:36	UCIG	ELLE
Dissolved	Prep	9012B			124414	05/10/21 12:32	UJE2	ELLE
Dissolved	Analysis	9012B		1	124587	05/10/21 17:06	UJE2	ELLE

Client Sample ID: SSMP3DUP_DL_042821

Date Collected: 04/28/21 12:19 Date Received: 04/29/21 18:19

Lab Sample ID: 410-37807-10

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A		- <u> </u>	121624	05/03/21 08:42	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	122329	05/04/21 14:52	MDP5	ELLE

Client Sample ID: QC_FBF_042821

Date Collected: 04/28/21 15:04 Date Received: 04/29/21 18:19

Lab Sample ID: 410-37807-11

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method Run		Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			121896	05/03/21 17:57	UJLA	ELLE
Dissolved	Analysis	6010C		1	122477	05/04/21 21:42	UCIG	ELLE

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Page 17 of 24

Lab Chronicle

Client: Honeywell International Inc Project/Site: Baltimore Inner Harbor, MD

Job ID: 410-37807-1

Client Sample ID: QC_FBF_042821

Lab Sample ID: 410-37807-11 Date Collected: 04/28/21 15:04

Matrix: Water

Date Received: 04/29/21 18:19

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	9012B			124414	05/10/21 16:46	UJE2	ELLE
Dissolved	Analysis	9012B		1	124987	05/11/21 11:10	JCG7	ELLE

Client Sample ID: QC_FB_042821

Lab Sample ID: 410-37807-12

Matrix: Water

Date Collected: 04/28/21 15:04 Date Received: 04/29/21 18:19

	Batch	Batch		Dilution	Batch	Prepared				
Prep Type	Туре	Method	Run		Number	or Analyzed	Analyst	Lab		
Total Recoverable	Prep	3005A			121624	05/03/21 08:42	UJLA	ELLE		
Total Recoverable	Analysis	6010C		1	122329	05/04/21 14:48	MDP5	ELLE		

Client Sample ID: QC_EBF_042821

Lab Sample ID: 410-37807-13

Matrix: Water

Date Collected: 04/28/21 15:12 Date Received: 04/29/21 18:19

	Batch	Batch	Dilution	Batch	Prepared		Lab	
Prep Type	Type	Method Run		Factor	Number	or Analyzed		
Dissolved	Prep	Non-Digest Prep			121896	05/03/21 17:57	UJLA	ELLE
Dissolved	Analysis	6010C		1	122477	05/04/21 21:45	UCIG	ELLE
Dissolved	Prep	9012B			124414	05/10/21 12:32	UJE2	ELLE
Dissolved	Analysis	9012B		1	124587	05/10/21 17:03	UJE2	ELLE

Client Sample ID: QC_EB_042821

Lab Sample ID: 410-37807-14

Matrix: Water

Date Collected: 04/28/21 15:12 Date Received: 04/29/21 18:19

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			121624	05/03/21 08:42	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	122329	05/04/21 14:45	MDP5	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Honeywell International Inc Project/Site: Baltimore Inner Harbor, MD Job ID: 410-37807-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

thority		gram	Identification Number	Expiration Date		
laryland	Sta	te	100	06-30-22		
				ay include analytes for wh		
0 ,		Matrix	Analyte			
Analysis Method	Prep Method					
Analysis Method	Prep Method					

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Method Summary

Client: Honeywell International Inc Project/Site: Baltimore Inner Harbor, MD Job ID: 410-37807-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	ELLE
9012B	Cyanide, Total andor Amenable	SW846	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	ELLE
Non-Digest Prep	Preparation, Non-Digested Aqueous Metals	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

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Sample Summary

Client: Honeywell International Inc Project/Site: Baltimore Inner Harbor, MD Job ID: 410-37807-1

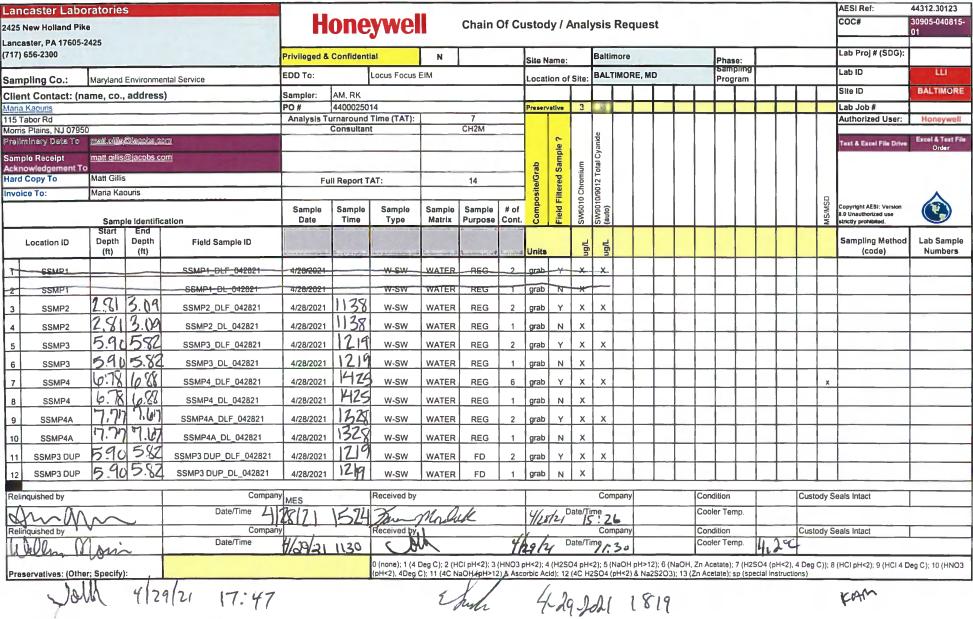
Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-37807-1	SSMP2_DLF_042821	Water	04/28/21 11:38	04/29/21 18:19	
410-37807-2	SSMP2_DL_042821	Water	04/28/21 11:38	04/29/21 18:19	
410-37807-3	SSMP3_DLF_042821	Water	04/28/21 12:19	04/29/21 18:19	
410-37807-4	SSMP3_DL_042821	Water	04/28/21 12:19	04/29/21 18:19	
410-37807-5	SSMP4_DLF_042821	Water	04/28/21 14:25	04/29/21 18:19	
410-37807-6	SSMP4_DL_042821	Water	04/28/21 14:25	04/29/21 18:19	
410-37807-7	SSMP4A_DLF_042821	Water	04/28/21 13:28	04/29/21 18:19	
410-37807-8	SSMP4A_DL_042821	Water	04/28/21 13:28	04/29/21 18:19	
410-37807-9	SSMP3DUP_DLF_042821	Water	04/28/21 12:19	04/29/21 18:19	
410-37807-10	SSMP3DUP_DL_042821	Water	04/28/21 12:19	04/29/21 18:19	
410-37807-11	QC_FBF_042821	Water	04/28/21 15:04	04/29/21 18:19	
410-37807-12	QC_FB_042821	Water	04/28/21 15:04	04/29/21 18:19	
410-37807-13	QC_EBF_042821	Water	04/28/21 15:12	04/29/21 18:19	
410-37807-14	QC_EB_042821	Water	04/28/21 15:12	04/29/21 18:19	

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410-37807 Chain of Custody

	ncaster Labo		S			^ ^ ^ ^ ^ ^ ^	2010						_												44312.30140
	New Holland Pike caster, PA 17605-2				H	one	ywel		Chain (Of Cu	ıstod	y / A	naly	sis	Req	uest								COC#	30905-40815-0
) 656-2300	425			Privileged &	Confident	ial	N			Site Na	ame:	Ī	Baltin	nore				Phase:	T				Lab Proj # (SDG):	
San	npling Co.:	Maryland	Environm	ental Service	EDD To:		Locus Focus I	EIM			Locatio		Site:	BALT	IMORI	E, MD			Sampii Progra	ng				Lab ID	LU
Clie	ent Contact: (na	me, co.	addres	s)	Sampler:	AM, RK																		Site ID	BALTIMORE
	a Kaouris				PO #	44000250					Preserva	tive	8	- 8	D									Lab Job#	
	15 Tabor Rd				ırnaround Consultan	Time (TAT):		7 CH2M									1 1							Authorized User:	Honeywell
	is Plains, NJ 07950 iminary Data To		@iacobs c	m		Consultan			СП2М			2		g	- 1	1 1								A December 1	Excel & Text File
													- 1	Cyanide		- 1								Text & Excel File Drive	Order
	iple Receipt nowledgement To			com							qe	Sami	Ę	otal C					- 1						
	d Сору То		-1000 Wil	lls Street, Baltimore, MD 21231	Fu	II Report T	AT:		14		Jg.	pa	Ē	2 Tc			1 1				-1				
nvo	lice To:	Maria Ka	ouris-115	Tabor Rd, Morris Plaines, NJ							site	ilter	5	106/0											_
			le Identifi	ication	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Grab	Field Filtered Sample	SW6010 Chromium	SW9010/9012 Total C (auto)										Copyright AESI: Version 8.0 Unauthorized use strictly prohibited.	
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID						To server and	Units		ug/L	ng/L										Sampling Method (code)	Lab Sample Numbers
1	QC			QC_FBF_042821	4/28/2021	1504	BLKWATER	WATER	FB	2	grab	Υ	х	х								T			
2	QC	_		QC_FB_042821	4/28/2021	1504	BLKWATER	WATER	FB	1	grab	N	х												
3	ac		_	QC_EBF_042821	4/28/2021	1512	BLKWATER	WATER	EB	2	grab	Y	x	x											
4	QC	-		QC_EB_042821	4/28/2021	1512			EB	1	grab	N	х												
5																									
6																						T			
7															\neg		\top			1			+		
8															_		1	\dashv	\dashv	\top		+	+		
																		\dashv	\dashv	+		+	+		
9												_	_			_		_	\dashv	+	_	+	+	 	
10													\dashv	-	-	_	+	\dashv	+	+	+	+	+	 	
11															-			-	+	+	+	+	+		
12				1					L						_										
Reli	nquished by			Compan	MES		Received by							Com	1			Condi	tion			Cus	stody So	eals Intact	
A	41/m			Date/Time L	128/21	152	Bar	Mor	dek		4/28/	/21 DE	ate/Tin	ne : 2 /				Coole	r Temp						
Reli	nguished by			Compan			Received by				<u> </u>			Com	pany			Condi				Cus	stody S	eals Intact	
U	Alex 186	ani		Date/Time	14/29/21	1130	701				4/29	120	ate/Tim	ne//;	30			Coole	r Temp)	1,20				
Pre	servatives: (Other	; Specify)	:				0 (none); 1 (4 E (pH<2), 4Deg 0	Deg C); 2 (H C); 11 (40 ₇ N	C1 pH<2); 3 (aOH (pH>12	HNO3 p	H<2); 4 (orbic Acid	(H2SO d); 12 (4 pH<2 4C H2	2); 5 (N SO4 (p	laOH p H<2) 8	H>12); 6 Na2 S 20	(NaOH, 2 03); 13 (Z	n Acet	tate); 7 (ate); sp	H2SO (specia	4 (pH<2 al instruc), 4 De tions)	g C)); 8	(HCI pH<2); 9 (HCI 4 De	eg C); 10 (HNO3
	V	oll	- 4	129/4 17:47			2	Juni			42	91	el 1	1	81	9									

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Page 23 of 24 5/11/2021

Login Sample Receipt Checklist

Client: Honeywell International Inc Job Number: 410-37807-1

Login Number: 37807 List Source: Eurofins Lancaster Laboratories Env

List Number: 1

Creator: Sanchez, Melvin E

Creator: Sanchez, Melvin E		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal is intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (=6C, not frozen).</td <td>True</td> <td></td>	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (=6C, not frozen).</td <td>N/A</td> <td></td>	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	N/A	

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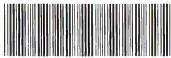
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Appendix C-2 Chain-of-Custody Records—April 2021



Lancaster Labo	ratories						_		-													AESI Ref:	44312.30123
2425 New Holland Pike	9			H	one	ywel		Chain (Of Cu	sto	dy / A	maly	/sis	Reque	st								30905-040815- 01
Lancaster, PA 17605-2	425																						
(717) 656-2300				Privileged &	Confident	al	N			Site N	lame:		Balti	nore			Phase					Lab Proj # (SDG):	
Sampling Co.:	Maryland	Environme	ntal Service	EDD To:		Locus Focus I	EIM			Local	ion of	Site:	BALT	IMORE, N	ID		Progra					Lab ID	ш
Client Contact: (na	me. co	address	3)	Sampler:	AM, RK						-											Site ID	BALTIMORE
Mana Kaouris				PO#	44000250	14				Preser	vative	3	- 5									Lab Job#	
115 Tabor Rd				Analysis Tu				7														Authorized User:	Honeywell
Morris Plains, NJ 07950					Consultan			CH2M		4			e		1 1		1 1			1 1			
Freiminery Date To		Misperios, es	200								e		/aux		1 1		1 1		Ĭ			Text & Excel File Drive	Excel & Text File Order
Sample Receipt Acknowledgement To Hard Copy To	matt gillis	@jacobs co	<u>om</u>							ap	Field Filtered Sample ?		otal Cy				11						
Hard Copy To	Matt Gillis			Fu	II Report T	AT:		14		JS/8	2	Chromium	12 Ti		1 1		1 1			Ш		I	
Invoice To:	Maria Kad	ouris								site	ilter	5	1,00				1 1		1	l l		I	^
				Sample	Sample	Sample	Sample	Sample	# of	Composite/Grab	P P	SW6010	SW9010/9012 Total (auto)				1 1				MS/MSD	Copyright AESI: Version	
	Samp	le Identific	ation	Date	Time	Туре	Matrix	Purpose	Cont.	Co	Fie	SW	SW				1 1			Ш	MS.	8.0 Unauthorized use strictly prohibited.	
Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID		Pedico and SIR					Units		Jg/L	ug/L									Sampling Method (code)	Lab Sample Numbers
T SSMD1	(,	(,	SSMP1 DLF 042021	4/20/2021		w.sw	WATER	REG	2	arab	Y	×											
2 SSMP1	231	3.09	SSMP1_DL_042821	4/28/2021	1138	VV-SVV	WATER	REG	1	grab		×				-		+			Н		
3 SSMP2	L.61	2.07	SSMP2_DLF_042821	4/28/2021	1138	W-SW	WATER	REG	2	grab		Х	Х		+-+	-	+	-	+		\vdash		
4 SSMP2	7.81	2.(1)	SSMP2_DL_042821	4/28/2021	1. 20	W-SW	WATER	REG	1	grab	N	X	-		++	-	++	+	+		Н		
5 SSMP3	5.90	582	SSMP3_DLF_042821	4/28/2021	1219	W-SW	WATER	REG	2	grab	Y	Х	X		-		+	+	+				
6 SSMP3	590	5.82	SSMP3_DL_042821	4/28/2021	1219	W-SW	WATER	REG	1	grab	N	Х	L	_	\vdash		\vdash	\dashv	-				
7 SSMP4	6:18	1088	SSMP4_DLF_042821	4/28/2021	1429	w-sw	WATER	REG	6	grab	Υ	Х	х		\sqcup		\sqcup	\perp	4_		х		
8 SSMP4	6.8	(0.88	SSMP4_DL_042821	4/28/2021	1425	W-SW	WATER	REG	1	grab	N	х					7	\perp					
9 SSMP4A	ויר, ד	1,67	SSMP4A_DLF_042821	4/28/2021	132	w-sw	WATER	REG	2	grab	Υ	х	х										
10 SSMP4A	ור.די	7.67	SSMP4A_DL_042821	4/28/2021	1328	w-sw	WATER	REG	1	grab	N	х											
11 SSMP3 DUP	590		SSMP3 DUP_DLF_042821	4/28/2021	1219	W-SW	WATER	FD	2	grab	Υ	х	x										
12 SSMP3 DUP	5.90	5.82	SSMP3 DUP_DL_042821	4/28/2021	1219	w-sw	WATER	FD	1	grab	N	х											
Relinquished by			Compan	MES		Received by							Con	npany		Cor	dition	$\overline{}$		Custo	ody Se	eals Intact	
draga.	^^		Date/Time A	78171	1474	There !	Mal	ık		4/1	do D	ate/Tir	me 7	_		Cod	ler Temp						
Relinguished by	4~		Compan	y all	1-16-1	Received by	1			114	1-1	15	Con	npany		Cor	dition	_		Custo	ody Se	eals Intact	
11 0000 (Y	Mi	_	Date/Time	1/29/21	1130				4/	9/	y D	ate/Tir	_	30			ler Temp	4	290				
Barrier	. Sac-14 1					0 (none); 1 (4 E	Deg C); 2 (H	ICI pH<2); 3 ((HNO3 p	H<2);	4 (H2SC	04 pH<	2); 5 (NaOH pH>	2); 6 (NaC)Η, Ζπ Α	cetate); 7	(H2SO4	(pH<2),	4 Deg	C)); 8 ((HCI pH<2); 9 (HCI 4 D	eg C); 10 (HNO3
Preservatives: (Other	, specity)		1			(pH<2), 4Deg (); 11 (40 N	aUnepH>12	ASCO	HDIC A	aσ); 12	40 H2	304 (pris∠) & Na	23203); 1	J (ZN AC	erate); sp	special	instructi	ons)			
Jal	M	4/2	9/21 17:47				2	huhr		4	رير	12	DI	18	19							kam	

-	ncaster Labo		S			000			<u> </u>	24.0																44312.30140 30905-40815-02
	5 New Holland Pik					ulle	ywel		Chain	Of C	ustoc	ly / A	Maly	/SIS	Req	uest									COC#	30305-40615-02
_	caster, PA 17605- 7) 656-2300	2425			Privileged &	Confident	ial	N			Site N	ame.		Baltin	more			-15	Phas	۵.					Lab Proj # (SDG):	
Sar	mpling Co.:	Maryland	Environm	ental Service	EDD To:		Locus Focus	EIM			Locat		Site:	BALT	IMOR	E, MD			Sam	gillig			-		Lab ID	LU
Clic	ent Contact: (n	ame, co.,	, addres	s)	Sampler:	AM, RK												1							Site ID	BALTIMORE
Mar	ia Kaouris				PO#	44000250	14				Preserv	ative	3	- 5	Ō		11				1				Lab Job#	
	Tabor Rd						Time (TAT):		7		7														Authorized User:	Honeywell
	ris Plains, NJ 0795		@lessberg			Consultan	t		СН2М					9												
Pre	liminary Data To	man quis	@incobs c	joini :			Cyanide 7											Text & Excel File Drive	Escal & Test File Order							
	nple Receipt inowledgement To		@jacobs (m							ap	Samp	En	otal Cy												
Har	d Copy To	Matt Gillis	s-1000 Wi	lls Street, Baltimore, MD 21231	Fu	II Report T	AT:		14		یار اور	pa	E	2 T			1									
Inve	oice To:	Maria Ka	ouris-115	Tabor Rd, Morris Plaines, NJ							site	Iter	5	/901			- 1									
		Samo	ole Identifi	cation	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Grab	Field Filtered Sample	SW6010 Chromum	SW9010/9012 Total (auto)							4				Copyright AESI: Version 8.0 Unauthorized use strictly prohibited.	
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Personación del esta					50 mm	Units		ug/L	ng/L											Sampling Method (code)	Lab Sample Numbers
1	QC			QC_FBF_042821	4/28/2021	1504	BLKWATER	WATER	FB	2	grab	Υ	х	х												
2	QC	_		QC_FB_042821	4/28/2021	1504	BLKWATER	WATER	FB	1	grab	N	х													
3	ac	_		QC_EBF_042821	4/28/2021	1512	BLKWATER	WATER	EB	2	grab	Υ	х	х												
4	QC	-		QC_EB_042821	4/28/2021	1512	BLKWATER	WATER	EB	1	grab	N	х													
5																										
6																										
7																										
8																	\perp									
9																_			$oxed{oxed}$						9	
10								1								_	\perp									
11																	\perp									
12							1																			
Rel	linquished by			Compan	MES		Received by				Т			Con	npany			Con	dition				Custo	dy Se	als Intact	
A	All			Date/Time L	178/71	157	1 Kan	Mor	drk		4/28	2/2 P	ate/Ti	me :: 7_				Coo	ler Ten	np.						
Rei	linguished by			Compan	ly		Received by				1	, ,			npany			Con	dition		_		Custo	dy Se	als Intact	
L	Alin 181	an		Date/Time	4/29/21	1130		/			4/2	1/2	ate/Ti	me//;	30			Coo	ler Ten	np.	4,	ኒ ኖ				
Pre	servatives: (Othe	r; Specify)	:				D (none); 1 (4 [(pH<2), 4Deg (Deg C); 2 (H C); 11 (4Q ₃ N	ICI pH<2); 3	(HNO3 2) & Asc	pH<2); 4 orbic Ac	(H2SC	04 pH< (4C H2	2); 5 (I	NaOH p	H>12); 3 Na2S	6 (NaOl	I, Zn Ac	etate); state); s	7 (H2S	O4 (pi	H<2), 4	4 Deg (C)); 8 (HCl pH<2); 9 (HCl 4 D	eg C); 10 (HNO3
	V	oll	- 4	129/4 17:47	,		2	Juni			/.				181		,,,,,,,									

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Page 23 of 24 5/11/2021

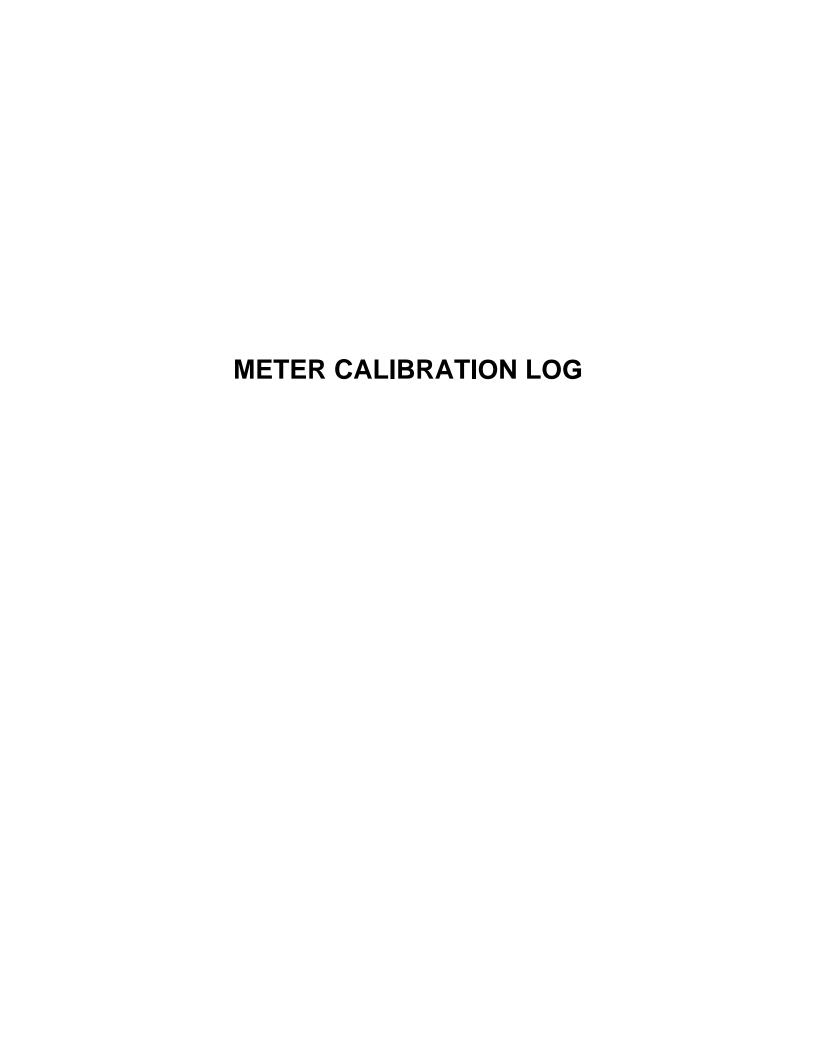
Appendix C-3 Field Report—April 2021

BALTIMORE INNER HARBOR DRAINAGE LAYER MONITORING

April 28, 2021

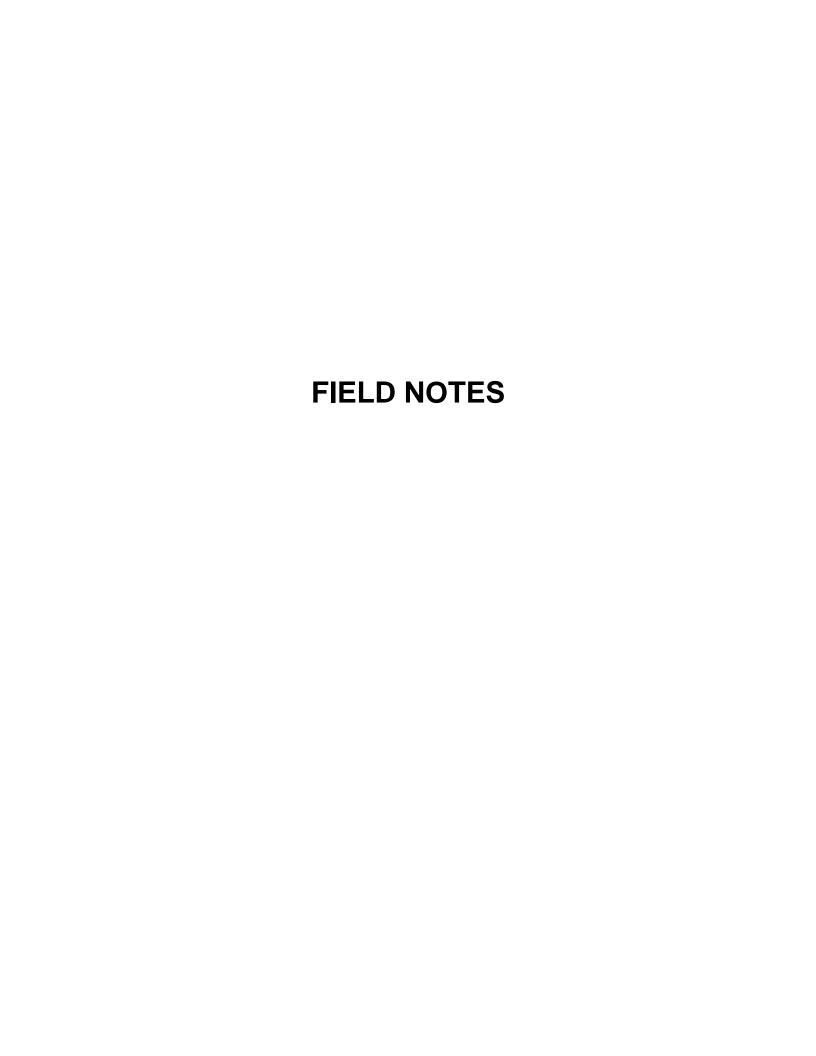






BIH CALIBRATION LOG

DATE	ME	METER	BUFFER	SAMPLING EVENT	INITIALS
7/11/18	800	10FIBA3	AUTOCAL	SEDIMENT SAMPUNG	
8/6/18	800	HURIBA 3	AUTOCAL	SURFACE WATER	AH
1013118	# 5 5 25	HORIBA	AUTOCAL	Ground water	AH
11/19/12	755	HORIBA 3	AVTOCAL	· SURFACE WATER	Ly /cit
3/4/19	945	HORIBA 3	AUTOCAL	SURFACE WATER	W
4110/19	0530	Honba 1	Autocal	Grandwater	BL
4/1/7/19	930	HORIBA3	Aviocal	& Drainage Layer	BRK/W
3/14/19	830	THORIBA3	Aurocal	Surface water	CH
6124119	915	10RIBA3	Aurocal	surface water	(0
10/2/17	545	TORIBAI	Autocal	Grownwater	C (6)
10/23/19	815	ITORIBA 3	Aurord	surface water	CO
3/6/20	648	Horiba 3	Autocas	SWFaa Note	AM
5/19/20	700	HMbg 31	Authal	Ground ware	AB
611126	850	tonba3	ALM D(al	Surface Water	111
6/2/20	917	Honbas	Autocal		格
9/11/20	0840	Horiba 3	Auto Cal	Surface Water	BL
10/6/20	092 0645	Honba 3	Anto Cal	Groundwater	13 L
11/13/20	0850	Horiba 3	Auto Cal	Surface Water	BL
2/24/201	0900	Horiba3	Autolal	Surface Water	Co
4/7/21	0850	Horiba 3 a	AutoCal	Surface Water	BL
4/19/21	0603	HONDOM'S	Aut o Cal	Groundwater	BL
4114121	095	HMDA7	Autolal	Grundwate	AMITO
4/28/21	1031	Honba 1	Autocal		AMIEK
9123121	1001	HOHILAL	1100000	CHIVII (AVOCCE	13-11-5
	2 1				
*					-
			1 1 1		
					1 1 1
) H		
Scale: I square	=				Rete in the Rain



314	Drainage	Layer Sar	npling	4/28/21
Wlath SSMP	w Condit	ions: Partly	Cloudy, Windy	Sampler: AM, RK
Samp Dyth Begir End Sam	le #: SSMP3 SSMP3 n to Bottor ming H20 ing H20 le ple Collection	-DLF-04282 DL-04282 n:7.13 1 (vcl: 5.90) vcl: 5.82' n time: 12	21	
PH: 7 DO: 18 SP. CO TUYD ORP: Temp	.44 8.81 mg/L nd:18.7 ms/k :3.2 NTU -139 MV :18.40 °C	<i>x</i>		DUP =: SSMP3 DUP_DE-CH7821 SSMP3 DUP_DE-CH7821 (Ollection tyme: 1220
Field	Blank			
	ple #: QC_ ple (a)Pection	FB_04282	1 1504	
C	1.08 .85 mg/L nd: 0.028 n :0.0 NTU :254 mv):30.27 °C	nslem		

BIH Drainage layer Sampling 4/28/21	
Samplers: AM, RK	- 7
Equipment Blank:	
Sample #: QC - EBF_042821	
Sample Collection time: 1512	
PH: 4.32 DD: 1,19 mg/L Sp. Cond: 0.023 ms/cm Twb: 0.0 NTU DRP: 395 mV Tump: 31.00 °C	
SSMP 4	
Sample #: SSMP4_DLF_0428/21 SSMP4_DL-0428/21	
Depth to Bottom: 9.65' Beginning H20 mbepth Kvil: 6:78' Ending H20 level: 6.88' Sample Collection time: 1425	
PH: 7.82 DO: 6.72 malton Sp. Cond: 24.8 8 ms/cm	X .
ORP: 23 mV Temp: 19.45 °C	
	9
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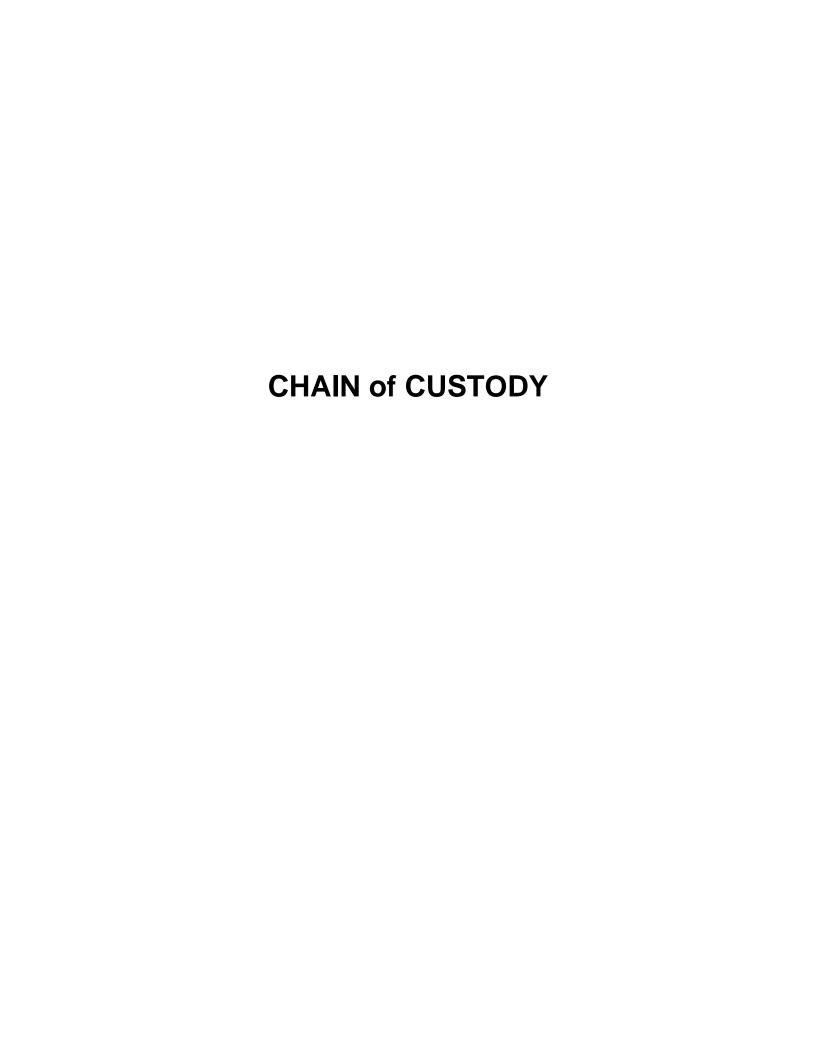
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SSMP 7: Well Wal dry, No Sample	taken
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PH: 8.70 DO: 13.56 mall Sp. Cond: 0.504 ms/cm Turb: 23.9 NTU DRP: 56 mV Temp: 23.93 °C	

Scale: 1 square =____

Rite in the Rain

BIH Drainage Layer Sampling	4/28/21
Sampiers: AM, RK	
SSMPZ:	
Sample #: SSMPZ_DLF_042821 SSMPZ_DL_042821	
Depth to bottom: 6.90° Beginning H20 level: 2.81° Ending H20 level: 3.09° Sample collection time: 11:38	
PH: 6.10 D0: 6.10 mg/L Sp. Cond: 0.232 ms/cm Turb: 1.4 NTU DRP: 170 mv Tump: 19.95°C	
TOTAL PLANT	

Scale: 1 square =____



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Appendix D Current Quarterly Validation Report

Appendix D-1
Quality Control Summary—Second Quarter
2021

QUALITY CONTROL SUMMARY

This section is a summary of the quality control (QC) review results for samples collected on April 7, 2021, for the Honeywell, Baltimore Inner Harbor project. Eurofins Lancaster Laboratories of Lancaster, Pennsylvania performed the chemical analyses for all samples. The samples were verified in accordance with National Functional Guidelines for Inorganic Review (U.S. EPA 2017) as applicable to the specification contained in SW-846 methodologies, and the project specific requirements set forth in the Work Plan. One sample delivery group (SDG) was associated with this data set: 410-35284-1. All field samples and associated QC samples were analyzed for total and/or dissolved chromium by SW-846 6010C. Samples were filtered in the field for dissolved metals analysis.

The quality of the data was assessed according to the U.S. EPA's PARCC (precision, accuracy, representativeness, completeness, and comparability) parameters. These criteria were used to identify unacceptable or biased data that could result in corrective actions being implemented or otherwise require qualification of the data. The following is a brief summary of PARCC criteria that were reviewed during verification of the data.

PRECISION AND ACCURACY

Precision and accuracy were evaluated based on the QC results generated from laboratory matrix spike and matrix spike duplicate (MS/MSD) samples, laboratory control samples (LCS), laboratory control duplicate (LCSD) samples, and laboratory duplicate samples. In addition, initial and continuing calibration results were used to assess accuracy.

REPRESENTATIVENESS

Representativeness was evaluated through the analysis of method blank samples, field blank samples, and calibration blank samples. Analysis of these types of samples is important to distinguish between ambient sampling and analytical levels, and actual site contamination.

COMPLETENESS

Data completeness was evaluated based on the samples requested on the chain-of-custody documentation and the samples reported by the laboratory.

COMPARABILITY

Comparability was achieved by analyzing the samples according to the specified standard methods. Lancaster Eurofins laboratory used U.S. EPA methods for the analysis of the samples. The reporting limits were elevated if the sample was analyzed at a dilution.

The following paragraphs summarize the review of data based on the PARCC criteria.

FIELD DUPLICATES

Four chromium field duplicate samples were collected during this sampling event and analyzed. All acceptance criteria were met.

LABORATORY REPLICATES

Two chromium laboratory replicates were analyzed during this sampling round. The results compared.

LABORATORY BLANKS

The laboratory analyzed blanks in accordance to the analytical method. Chromium was not detected in the blanks.

FIELD BLANKS

Three equipment rinsate blanks and one field blank sample were collected during this sampling event. Chromium was not detected in the field blanks.

MATRIX SPIKE/MATRIX SPIKE DUPLICATES

Five chromium MS/MSD sets were analyzed during this sampling event. All acceptance criteria for precision and accuracy were met.

SAMPLE RECEIPT, HOLDING TIMES AND PRESERVATION

The samples were received within the recommended temperature of $4\pm2^{\circ}$ C at 1.7 and 2.8° C. All samples were prepared and analyzed within holding time criteria.

SUMMARY OF DATA QUALITY AND RELIABILITY

The evaluation of the data against PARCC criteria provided information on the data quality and reliability. All data are of known and acceptable quality based on the laboratory-established acceptance control limits or U.S. EPA guidance.

Attachment 3 HMS Groundwater Gradient Performance Report

Head Maintenance System Groundwater Gradient Monitoring Quarterly Report No. 127 Second Quarter 2021

Baltimore Inner Harbor Baltimore, Maryland

Prepared for



115 Tabor Road Morris Plains, New Jersey 07950

Prepared by

Jacobs

Jacobs Engineering 2411 Dulles Corner Park Suite #500 Herndon, VA 20171

July 2021



Contents

Acro	nyms aı	nd Abbreviations	iii
1.	HMS	Groundwater Gradient Monitoring Report	1-1
	1.1	Purpose	1-1
	1.2	Objective	1-1
	1.3	Groundwater Gradient Performance Standard	1-1
	1.4	Gradient Data—Second Quarter of 2021	1-2
	1.5	Qualified Data	1-2
		1.5.1 System Performance	1-3
		1.5.2 System Events	1-3
	1.6	Below-grade Vault Inspection	1-3
	1.7	The HMS Pumping	1-4
2.	Piezo	ometer Verification and Site Surveying	2-1
	2.1	Manual Verification of Sensor Readings	2-1
		2.1.1 Actions Taken to Correct Variance in Reported Values	
	2.2	Verification Surveying	2-2

Appendixes

- Α **HMS Gradient Charts**
- В
- HMS Pumping Charts Manual Verification Reports Ċ

Tables

1-1 System Events



Acronyms and Abbreviations

DDP Final Area 1, Phase 1 Detailed Development Plan, Baltimore Works Site,

Baltimore, Maryland (December 3, 2013)

EPA U.S. Environmental Protection Agency

HMS Head Maintenance System

INSQL Industrial System Query Language

MDE Maryland Department of the Environment

MSS Master Supervisory System

Performance Standard Groundwater Gradient Performance Standard

RAM random access memory

RIC remote intelligence controller

Site Honeywell Baltimore Inner Harbor Site



1. HMS Groundwater Gradient Monitoring Report

1.1 Purpose

This report documents the performance of the hydraulic barrier and head maintenance system (HMS) at the Baltimore Inner Harbor Site (site), during the second quarter of 2021. The submittal constitutes a Progress Report in accordance with the requirements of Section V.3 of the Consent Decree, entered into by Honeywell (formerly AlliedSignal, Inc.), the U.S. Environmental Protection Agency (EPA), and the Maryland Department of the Environment (MDE) dated September 29, 1989, and requiring that a progress report be submitted every calendar quarter during the life of the Consent Decree. This report provides the data required to satisfy the requirements specified by the *Groundwater Gradient Monitoring Plan* (June 1995).

1.2 Objective

The objective of this report is to document the performance of the vertical hydraulic barrier and head maintenance system (HMS) at the Site. The HMS installed as part of the final remedial construction at the Site includes vaults, pumps, controls, valves, conduits, and tanks. This report documents compliance with the Groundwater Gradient Performance Standard (performance standard), which requires Honeywell to maintain an inward groundwater gradient at the Site. The HMS performance is monitored, controlled, and recorded by the Master Supervisory System (MSS) installed at the Site as part of the corrective measures.

1.3 Groundwater Gradient Performance Standard

The performance standard is set forth in Section V, Paragraphs 13.b and c, of the Consent Decree, Second Amendment:

b. The following Groundwater Gradient Performance Standard shall be established: for each pair of piezometers, for every 30 day period, the average hydraulic head measured at the piezometer inside the barrier shall be lower than the average hydraulic head measured at the piezometer outside the barrier, and the absolute value of the average hydraulic head differential shall be greater than a value which represents the sum of 0.01 feet plus two times the maximum potential error of measurement of the hydraulic head in any one piezometer. Said value shall represent the arithmetic average of hourly readings for the aforementioned period.

and

c. Defendant shall monitor the performance of the deep vertical hydraulic barrier at the points and times and in the manner specified in the approved Groundwater Gradient Monitoring Plan.

The performance standard was also described by the *Corrective Measures Implementation Program Plan*, May 1990, Section 2.3.2, Subpart 1, Horizontal Groundwater Gradient Performance Standard:

Piezometer pairs, one on the inside and one on the outside of the hydraulic barrier, located as described in the Consent Decree, will be monitored at the required frequency to demonstrate that an inward hydraulic gradient exists. Each piezometer will be measured hourly and averaged arithmetically over a 30-day period, to determine that the 30-day running average of the inside piezometer's hydraulic head is at least 0.01 foot less than the corresponding outside piezometer's hydraulic head for each piezometer pair location. Additionally, for each performance standard piezometer pair, for any hourly head measurement, if the inward gradient decreases to where the inside piezometric head is 0.01 foot, or less, than the outside piezometric head, groundwater extraction will commence in the vicinity of the inside piezometer. Groundwater extraction will continue until the piezometric head at the outside piezometer becomes greater than 0.01 foot relative to the corresponding inside piezometer.

The performance standard was further developed, based on design review, in the *HMS Corrective Measures Prefinal Design Plans, Volume II, Design Report*, 1994. The design report incorporated into



the performance standard the calculation of the HMS's inherent measurement error for the water levels, as detailed in the report's Section 3.4 and Appendix 2.2. The performance standard calculation for each piezometer pair was established as the minimum head difference, plus twice the measurement error at one piezometer, or

Performance Standard = [0.01 foot + (2 × HMS water level measurement error)].

The 1994 design report calculated the HMS piezometer measurement error based on the then-current design and instrumentation selection. This calculation was revised because the water level instrumentation was updated and installed into the HMS piezometers. The current performance standard for the installed ultrasonic water level devices is [0.01 foot + (2 × 0.031 measurement error)] = 0.072 foot. The revised error calculation memorandum is presented in Appendix E of the *Baltimore Works Operation and Maintenance Plan*, dated May 2001.

1.4 Gradient Data—Second Quarter of 2021

During the second quarter of 2021, the HMS groundwater gradient met the performance standard according to the data recorded by the MSS. Data were not recorded during brief periods at certain locations when the water level monitoring system was disabled due to maintenance or in the event of an equipment malfunction. The groundwater gradient data are presented in Appendix A. The data are presented via charts and plots that include the following:

- One 30-day running hourly average gradient chart (represents a compilation of all 16 piezometer pair gradients) documents that the groundwater gradient measured across the Site were above the calculated performance standard of 0.072 foot.
- Sixteen quarterly well level charts, one for each piezometer pair, indicate when a piezometer pair's
 hourly gradient falls below the MSS control set point (the programmed gradient set point that initiates
 pumping activity) and when the extraction wells begin to pump. The charts illustrate the approximate
 pumping periods and rates. The MSS control set point is established above the calculated
 performance standard (a preset operating margin). The MSS control set point is set to 0.10 foot,
 slightly above the calculated performance criterion of 0.072 foot, as discussed in Section 1.3.
- Three monthly summary plots of the groundwater gradient for the Site indicate the average of the hourly gradients for the specified month, for each piezometer pair.

This report is provided as a digital download, and all supporting data for the second quarter of 2021 are presented as follows:

- The data were transferred to Microsoft Excel workbooks from the Industrial System Query Language (INSQL) database, which resides on the MSS.
- Each workbook, except the pump rate comparison, contains separate worksheets for the source data, formatted data, and the data chart, and includes the individual piezometer readings.
- The summary 30-day running hourly average gradient chart is complex and may not open with less than 128 megabytes of random access memory (RAM).

An explanation of qualified data for each period is presented below.

1.5 Qualified Data

Select data used to generate the graphical representation of the 30-day running hourly average gradient may be interpolated (all other charts use the MSS data as recorded). Interpolation of the data may occur whenever a short-term problem occurs, such as a temporary loss of communications with ultrasonic sensors or a short-term power failure.



1.5.1 System Performance

In instances when an interruption in data collection occurred, the MSS data logging system was evaluated and repaired so data collection could resume. During these events, if the hourly gradient reached the MSS control set point, pumping started automatically unless system power was lost. The 30-day running hourly average gradient remained in compliance with the performance standard during the second quarter.

1.5.2 System Events

During this quarter, the system was monitored consistently to maintain system performance and reduce periodic data non-acquisition. Table 1-1 presents descriptions of system events during this quarter.

Table 1-1. System Events

Date	Description
4/07/2021	Monthly piezometer inspections were performed.
4/07/2021	The quarterly surface water sampling was performed.
4/14/2021	The semiannual groundwater sampling was performed.
4/15/2021	Monthly vault inspections were performed.
4/28/2021	The annual drainage layer sampling was performed.
5/04/2021	Monthly piezometer inspections were performed.
5/13/2021	Monthly vault inspections were performed.
5/18/2021	Replaced IP3 ultrasonic sensor.
5/20/2021	Repair wiring to address piezometer alarm in vault 9.
5/25/2021	Repair pressure indicator transmitter (PIT) in vault 5.
5/27/2021	Replace failed GFCI in vaults 3 and 4.
5/28/2021	Replaced air solenoid valve and pressure indicator transmitter (PIT) in vault 5.
6/8/2021-6/9/2021	Monthly piezometer inspections were performed.
6/16/2021	Monthly vault inspection were performed
6/21/2021	Vault 7 reset leak detection system
6/23/2021	Inspect well 1S. Check distance to bottom and investigate poor well pumping flow rate.
6/28/2021	Replaced V7 Leak detection control unit
6/28/2021	Tightened control system terminal connections V7 and V11.

1.6 Below-grade Vault Inspection

The equipment in the 13 below-grade vaults, located generally equidistant from each other along the perimeter of the Site, is inspected every month. Inspections are completed by staff from the site operations and maintenance (O&M) provider, Maryland Environmental Service.

The inspections identified the following items:

- April 2021
 - Multiple sump leads were cleaned to remove calcification.



- Receptacle Ground Fault Interrupters (GFI's) in Vault 3 and Vault 4 failed to trip during testing and were replaced on May 27, 2021
- Vault 5 pressure indicating transmitter (PIT) was not operating and was replaced on 5/28/2021

May 2021

- Multiple sump leads were cleaned to remove calcification.
- Vault 3 and Vault 4 GFCl's were not operating and were replaced on May 27, 2021.
- The desiccant containers for all the electrical control panels were inspected and replaced, as needed.

June 2021

- Vault 1 pressure indicating transmitter (PIT) was not functioning and was reset.
- Vault 3 and Vault 4 GFCI's were tested and are still functioning correctly after repair made on May 27, 2021

1.7 The HMS Pumping

The HMS has pumped groundwater at a stable rate since the completion of the multimedia cap in the second quarter of 1999, with a steady state condition reached in 2005. With the start of the installation of pile and opening of the synthetic layers during site redevelopment starting in June 2014, the pumping rates have increased. Groundwater pumping volumes by the HMS pumps for April, May, and June were approximately 6,263 gallons, 7,845 gallons, and 2,002 gallons, respectively. An additional estimated 6,954 gallons of water was extracted by the sump pumps.

The rate of groundwater pumping generally increases during the winter months, when tides are lower, and decreases generally in the summer months, when tides are higher. Groundwater pumping volumes from 1999 through the second quarter of 2021 were compared and are presented in two charts in Appendix B. These charts include the total pump volume per month and quarterly pump volume per extraction well.

During site development, construction perforations of the synthetic layers of the cap were required to drive pile. While the synthetic layers were removed, rainfall did account for a significant volume of water generated by the HMS. All synthetic layer penetrations for the Exelon Tower construction were closed on May 27, 2015. In February 2016, excavation began in preparation for the sheet pile wall extension associated with the Point Street Apartments construction project. In March 2016, the geomembrane was opened and sheet pile driving began; driving was completed on March 28, 2016. HMS components were monitored closely during all below-cap work. On April 11, 2016, all synthetic layer penetrations associated with the Point Street Apartments construction were closed. Construction of the Wills Wharf office building began in May 2018. Between June 18, 2018, and August 24, 2018, sections of the geomembrane over the southeast portion of Area 1 were removed to allow sheet pile reinforcement and pile cap construction. Upon completion of the sheet pile installation and pile cap construction, the multimedia cap over the impacted areas was restored in accordance with the Final Area 1, Phase 1 Detailed Development Plan, Baltimore Works Site, Baltimore, Maryland (December 3, 2013) (DDP). Intrusive work activities associated with the Wills Wharf construction concluded on August 24, 2018. Water continues to be extracted by the shallow groundwater system and the sump system. Water volumes generated by the sump system are being recorded.

Section 5.2.1 of the DDP stated that potentially 700,000 gallons of water will be displaced during development pile driving. Construction-related activities have increased the volume of extracted groundwater during the period covered by this report. The HMS system performed as intended, maintaining the 30-day running average groundwater gradient below the performance standard throughout the second quarter.



2. Piezometer Verification and Site Surveying

Section V.13 of the Consent Decree defines the requirements for monitoring the performance of the deep hydraulic barrier as follows: "...defendant shall monitor the performance of the deep vertical hydraulic barrier at the points and times and in the manner specified in the approved Groundwater Gradient Monitoring Plan." Section 4 of the *Groundwater Gradient Monitoring Plan* defines the procedures for validating water level readings taken by the HMS as "...obtaining manual measurements, resurveying of the piezometers and calibration and precision testing of the instrumentation." Section 4.7 of the *Groundwater Gradient Monitoring Plan* states that "...verification activities will be reported in the quarterly progress reports." These activities are described in this section.

2.1 Manual Verification of Sensor Readings

The *Groundwater Gradient Monitoring Plan* defines the procedures to obtain manual measurements in the following manner: "Each piezometer will be opened, and an electronic water level instrument will be inserted to record the current level." Section 4.2 of the *Groundwater Gradient Monitoring Plan* states that "replicate analyses will occur on 20 percent of manual water level measurements collected to assess precision." The data quality goal for precision is ± 5 percent, or less than 0.01 foot. Section 4.2 defines accuracy as "the difference between experimental results and true values." The method for determining accuracy is later defined as follows: "...accuracy will be based upon these readings." This statement is interpreted to mean that accuracy will be assessed by reviewing the readings taken during manual verification. The data quality goal for accuracy is ± 10 percent, or less than 0.02 foot.

Manual verification readings began with the installation of the final ultrasonic water level sensor in July 1999. Manual verification readings were taken every 2 weeks until December 2001 to establish a statistically relevant database of manual readings. In December 2001, the frequency of readings was reduced to once per month. Historically, only the data from the first monthly verification readings taken each quarter were included in the quarterly report. In compliance with comments in the U.S. Army Corps of Engineers report to EPA titled, *Honeywell Baltimore Works Surface Water Split Sampling and Horizontal Gradient Manual Verification Audit Report* (August 26, 2005), all manual verification readings taken during the time period covered by this report are included herein.

On April 7, 2021, groundwater elevation readings from 21 of the piezometers indicated that there was a difference greater than 0.02 foot between the value reported by the automated measurement devices and the manual measurements. The differences between 12 of the manual measurements from the piezometers and the automatic readings reported by the HMS were greater than 0.05 foot, and 4 of the differences were greater than 0.10 foot. The differences between the gradients recorded by the MSS computer from March 9, 2021, to April 7, 2021, and the gradients measured manually on April 1, 2020, were also reviewed. During this time period, a gradient greater than 0.072 was maintained even when the difference between the automated readings taken by the MSS and the manual readings taken during the manual verification readings were taken into account. These data are presented in Appendix C.

On May 7, 2021, readings from 21 of the piezometers indicated a difference greater than 0.02 foot between the measurement devices and the manual measurements. The differences between 8 of the manual measurements from the piezometers and the automatic readings reported by the HMS were greater than 0.05 foot, and 4 of the differences greater than 0.10 foot. The differences between the gradients recorded by the MSS computer from April 7, 2021, to May 7, 2021, and the gradients measured manually on May 12, 2020, were reviewed. During the specified time period, a gradient greater than 0.072 was maintained, even when the differences between the automated readings taken by the MSS and the manual readings taken during the manual verification readings were taken into account. These data are presented in Appendix C.

On June 8, 2021, readings from 23 piezometers indicated a difference greater than 0.02 foot between the measurement devices and the manual measurements. The differences between 15 of the manual measurements from the piezometers and the automatic readings reported by the HMS were greater than 0.05 foot, and 4 of the differences were greater than 0.10 foot. The differences between the gradients



recorded by the MSS computer from May 7, 2020, to June 8, 2021, and the gradients measured manually on June 9, 2020, were reviewed. During the specified time period, a gradient greater than 0.072 was maintained, even when the differences between the automated readings taken by the MSS and the manual readings taken during the manual verification readings were taken into account. These data are presented in Appendix C.

The precision of the manual readings taken during the second quarter was 100 percent, as defined by the *Groundwater Gradient Monitoring Plan*. The manual verification readings taken during this quarter are included in Appendix C.

2.1.1 Actions Taken to Correct Variance in Reported Values

The following actions were taken to address the variance between the manual water level elevations taken in the field and the readings reported by the HMS:

- All data reported to the MSS were reviewed daily, except for data collected on weekends or holidays, which were reviewed on the following workday.
- The ultrasonic water level meters were calibrated using correction values obtained from manual verification readings taken in April, May, and June 2021. Additional manual verification readings were taken as needed due to development construction and noted errors.
- On May 18, 2021 the ultrasonic level sensor for inner piezometer 3 (deep) was replaced
- On June 10, 2021, manual water level readings were taken at piezometers OP3S, IP5, OP5, IP6 and OP10 to obtain a more accurate reading.

2.2 Verification Surveying

Section 4.7 of the *Groundwater Gradient Monitoring Plan* specifies that annual surveying of the groundwater level reference elevation point will occur until three consecutive measurements show no change. Thereafter, the frequency of verification surveying is once every other year for three events, or 6 years. If no change is noted, then verification surveying will occur once every 5 years until there is a change in elevation readings.

Section 5.4 of the *Honeywell Baltimore Works Operation and Maintenance Plan* states that annual measurement of six settlement monitoring points will occur until three consecutive measurements show no change. Section 4.2 of the *Groundwater Gradient Monitoring Plan* defines the precision and accuracy goals of the readings taken during verification surveying as 0.01 and 0.02 foot, respectively.

The 2020 annual site survey was performed between August 24, 2020, and September 23, 2020, by Stantec. The next survey event is anticipated to be completed in the third quarter of 2021.

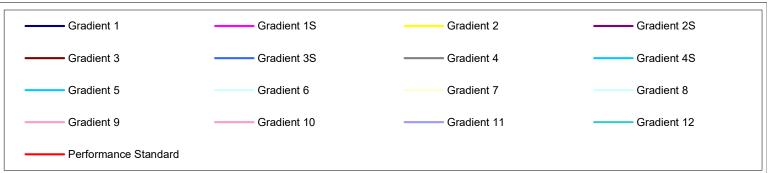
The accuracy of the surveying method for the 2020 annual survey was reported as plus or minus 0.01 foot, thereby meeting the accuracy requirement. In response to comments on the *Baltimore Inner Harbor HMS Groundwater Gradient Monitoring Quarterly Progress Report First Quarter, 2005*, Honeywell clarified that errors in precision and accuracy can be additive. If the current reading is within 0.03 foot of the reading from the prior year, no change in elevation reading is noted for that location.

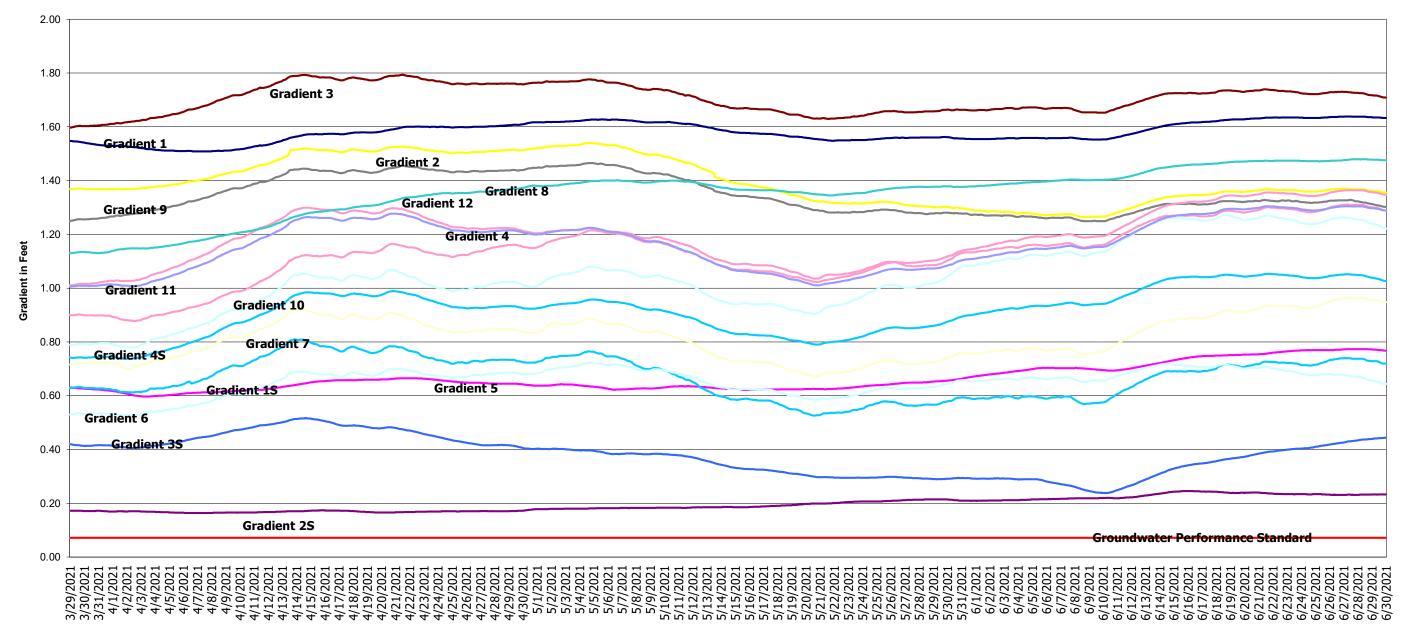
The Baltimore Inner Harbor HMS Groundwater Gradient Monitoring Quarterly Report No. 92–Third Quarter 2011 included a review of the historical verification surveying data and established the precedent that current survey results be compared to historical maximum and minimum reported values. All of the vertical readings obtained during the 2020 annual verification survey were between the maximum and minimum historical values reported for each location, or within an acceptable deviation. Certain monitoring point measurements for 2020 were significantly different when compared to historical values, because of changes made to the site layout for area redevelopment

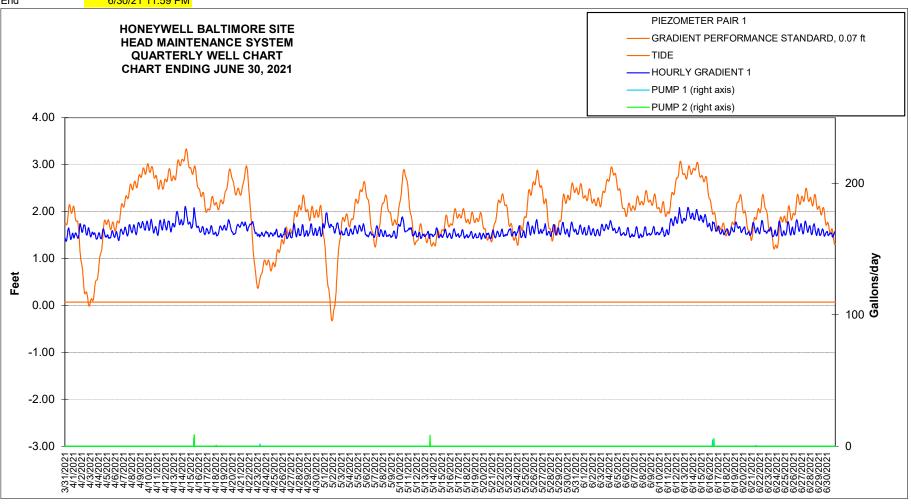
Appendix A HMS Gradient Charts

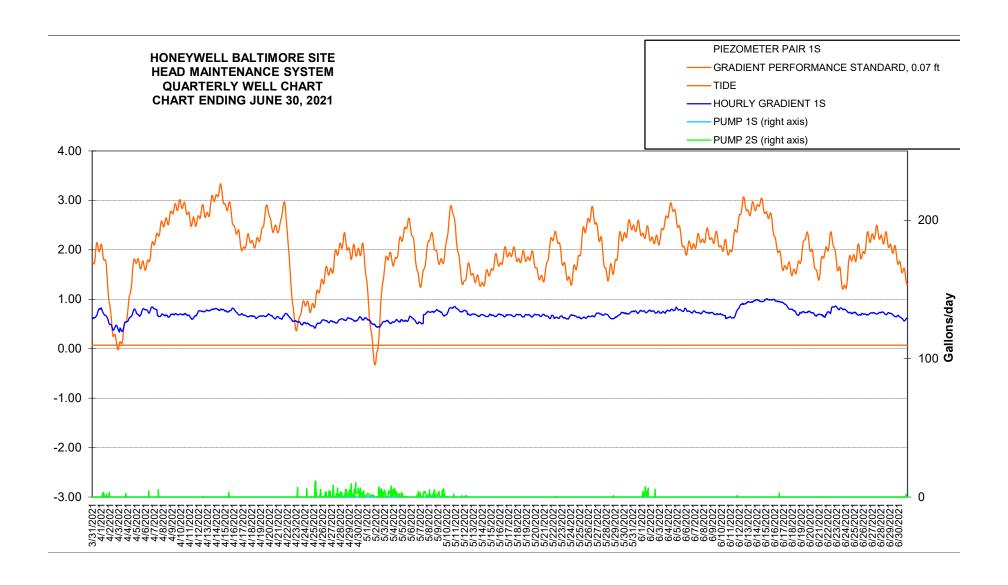
- 30-Day Running Hourly Average Gradient Chart (All Wells)
- Quarterly Well Level and Pumping Charts: Wells 1, 1S, 2, 2S, 3, 3S, 4, 4s, and 5 through 12
- Monthly Averages of Hourly HMS Gradients

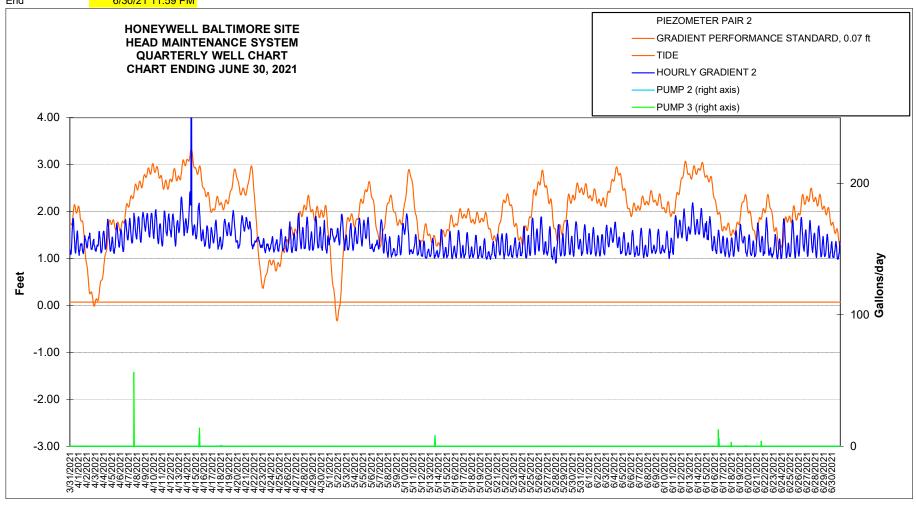
HONEYWELL BALTIMORE SITE HEAD MAINTENANCE SYSTEM 30 DAY RUNNING HOURLY AVERAGE GRADIENT CHART QUARTER ENDING JUNE 30, 2021

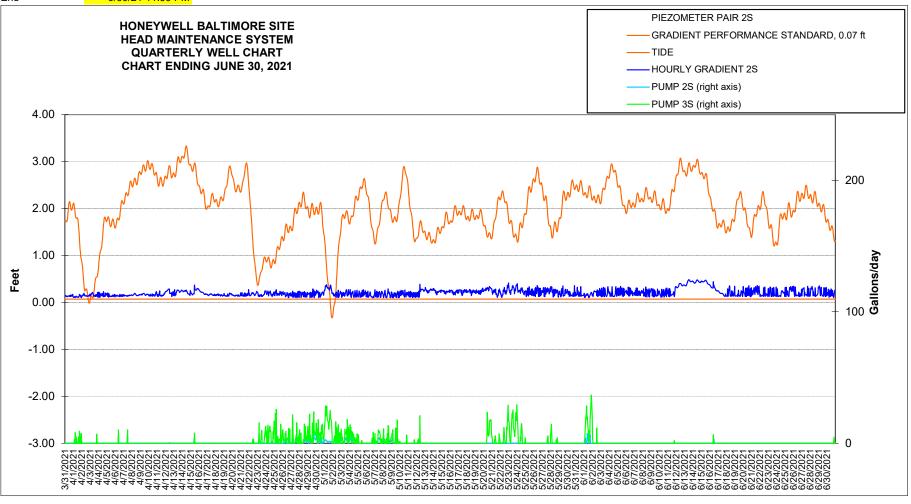




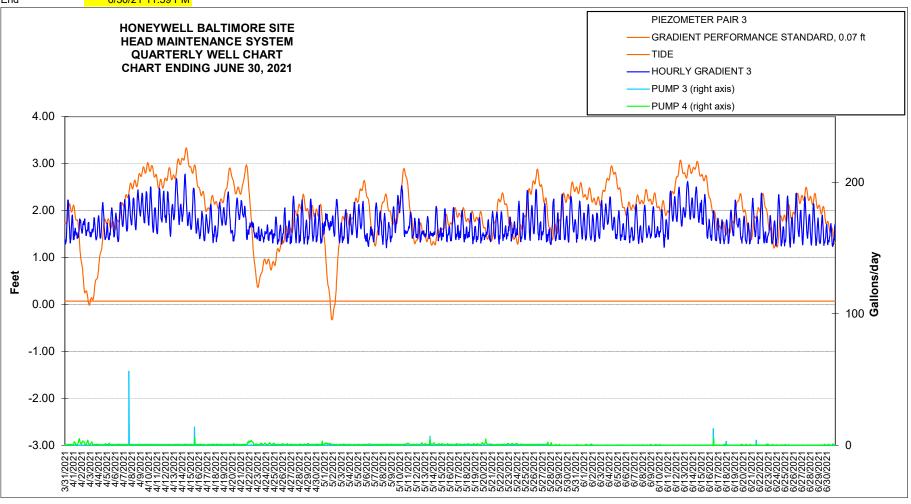


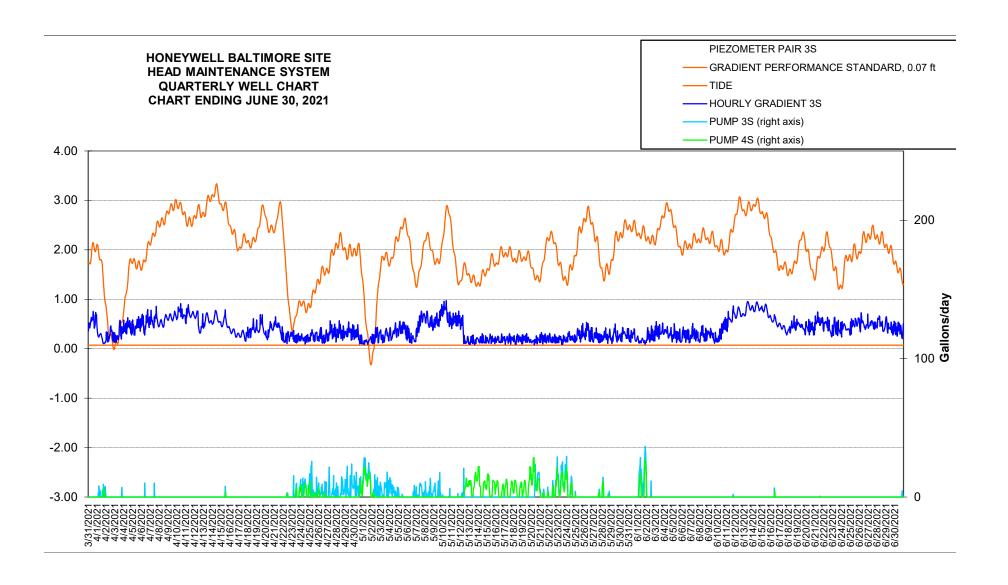


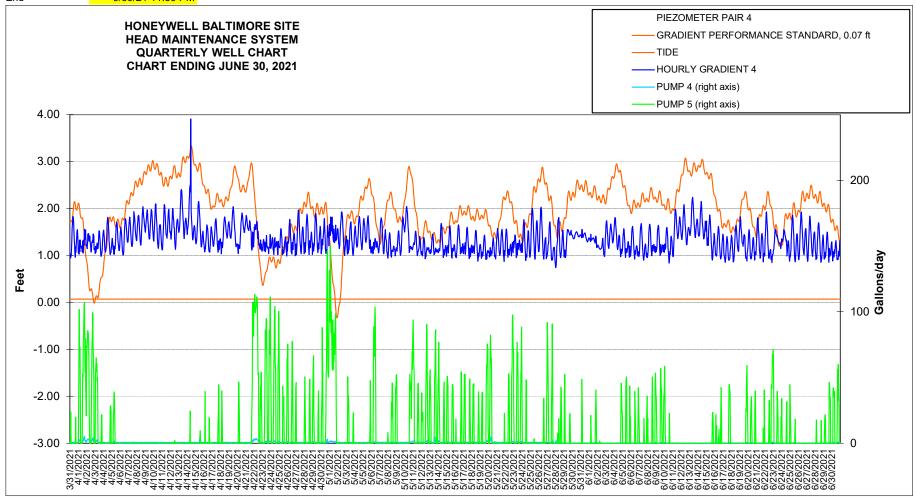


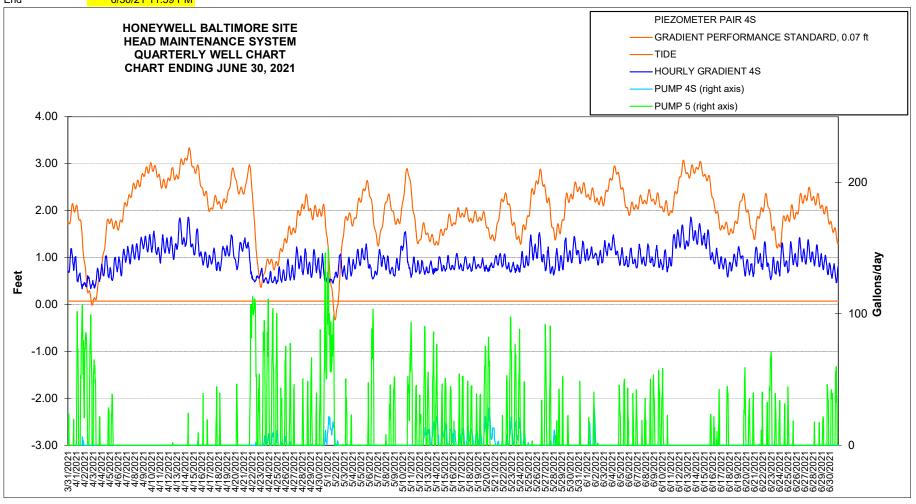


7/7/2021 Quarterly_Well_Chart_2S

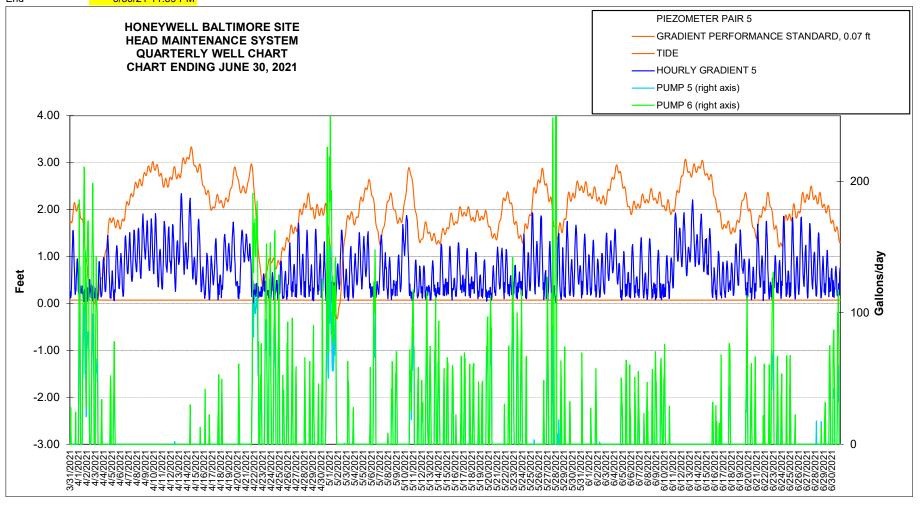


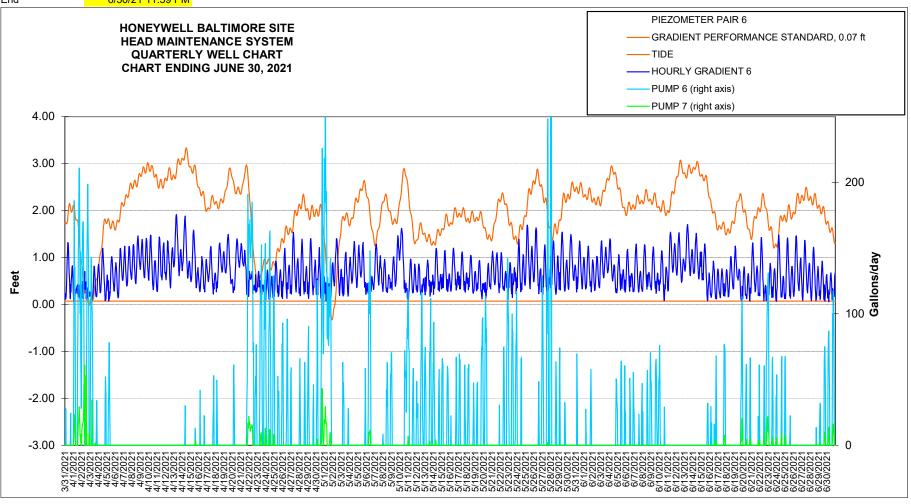


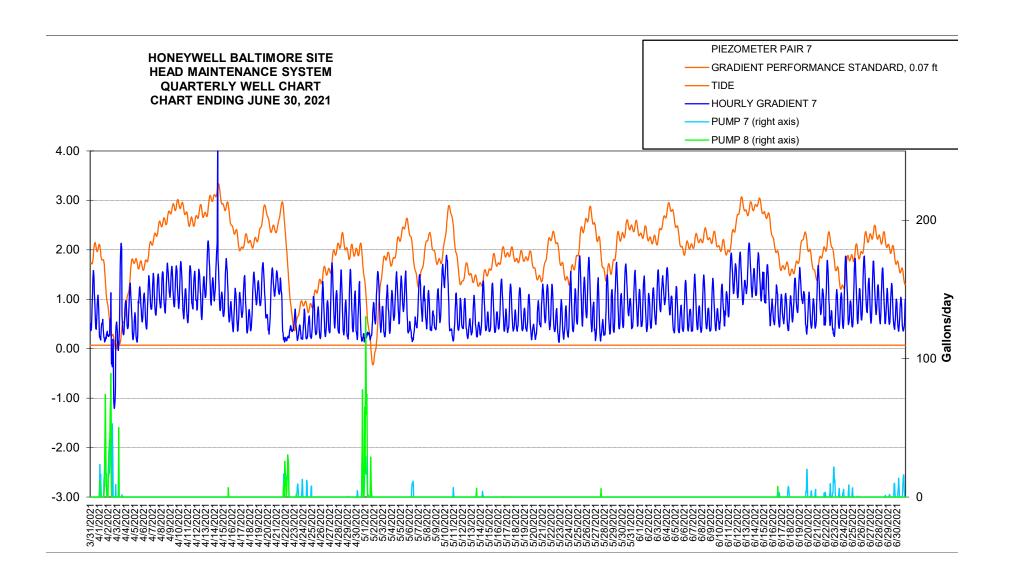


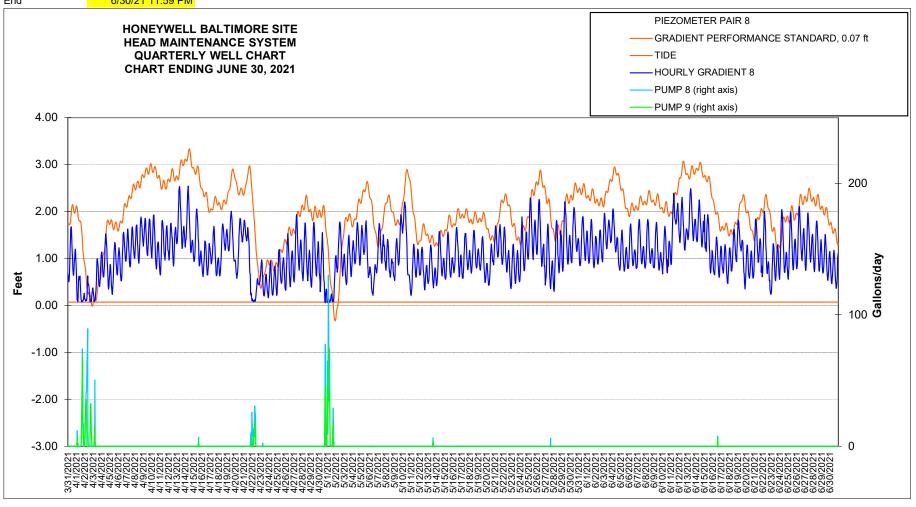


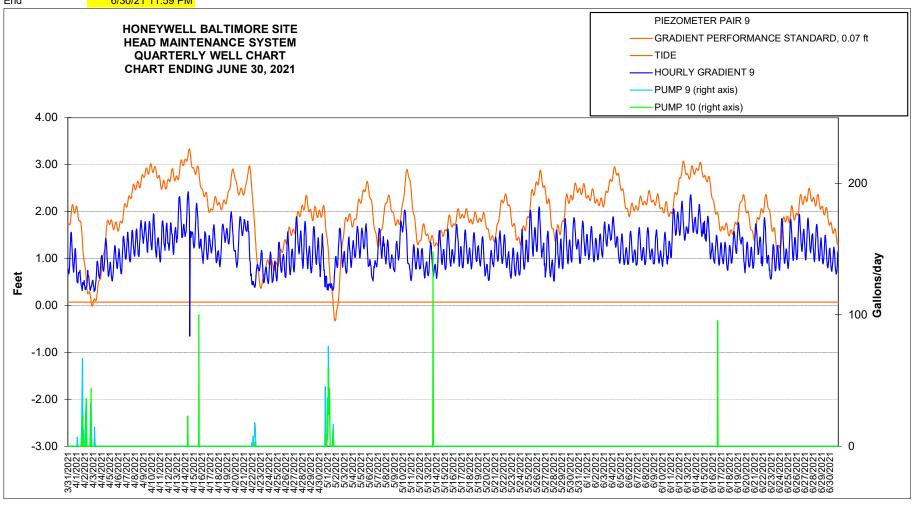
7/8/2021 Quarterly_Well_Chart_4S

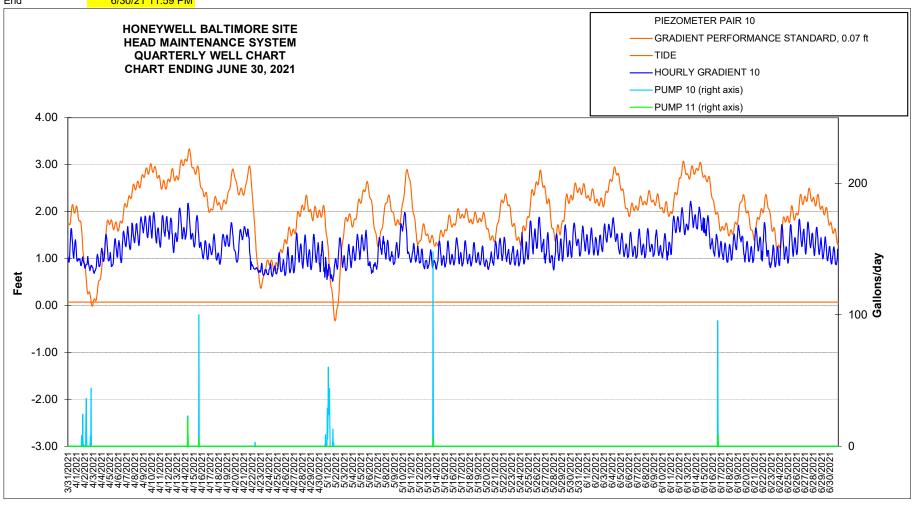


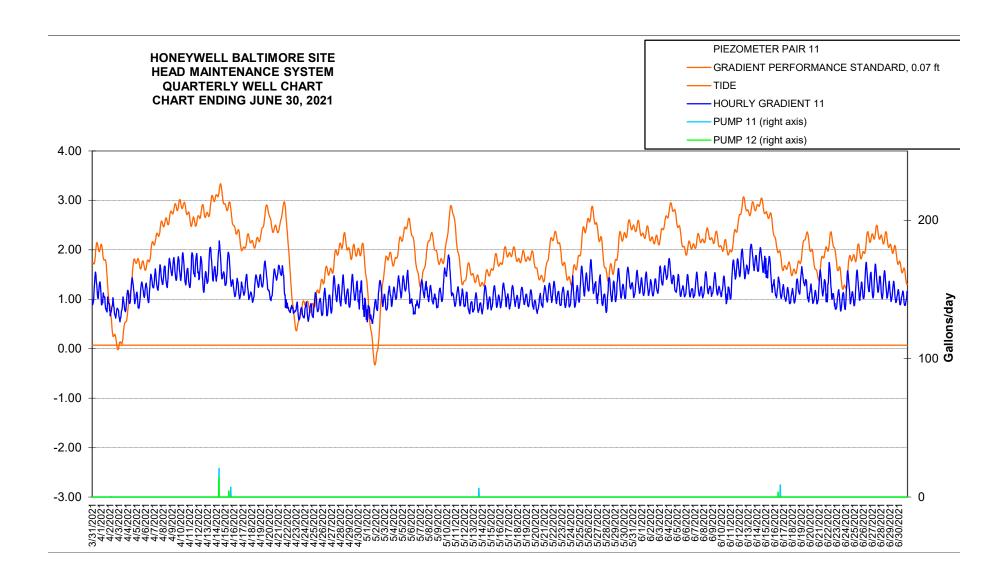


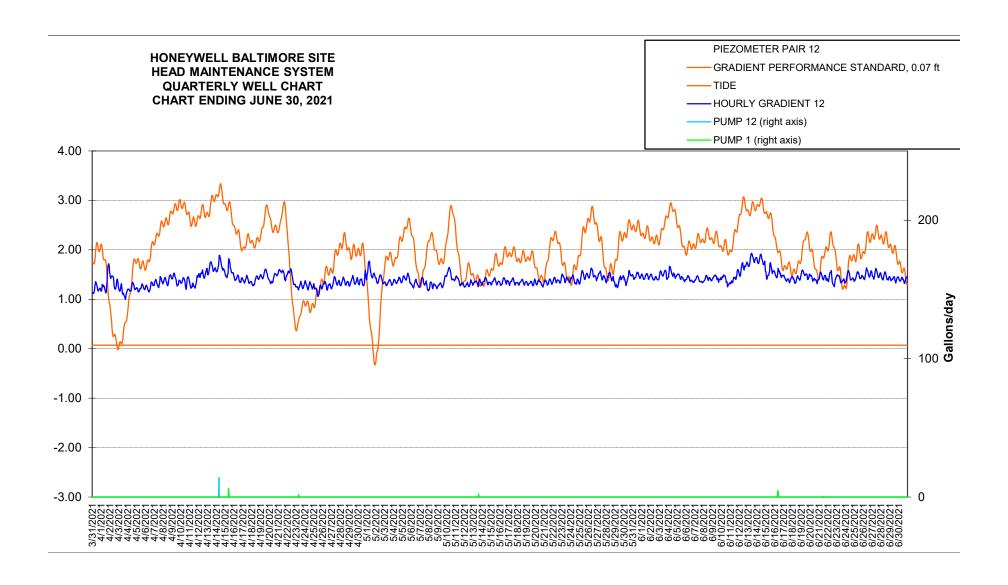


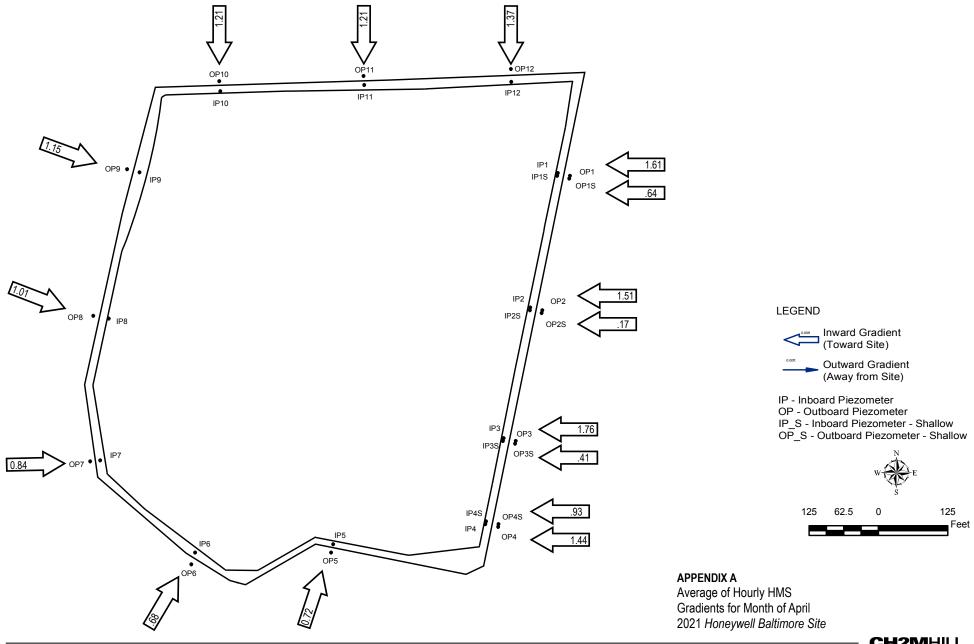


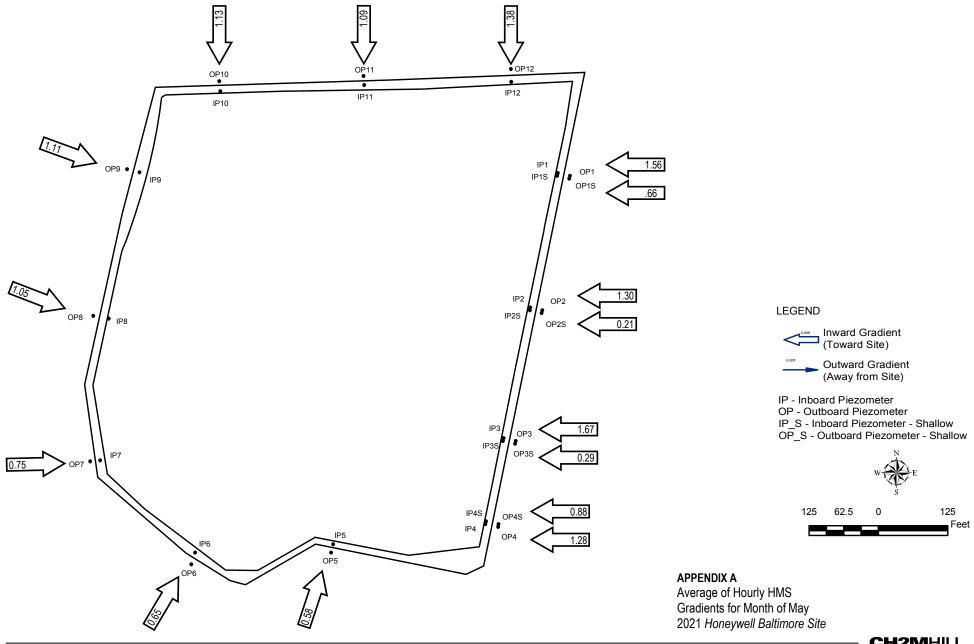


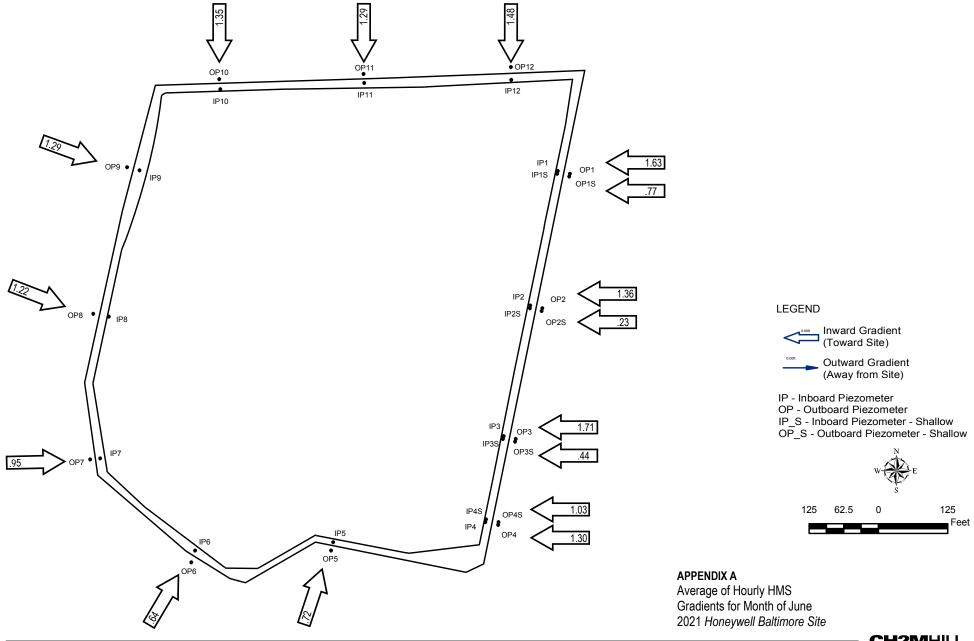






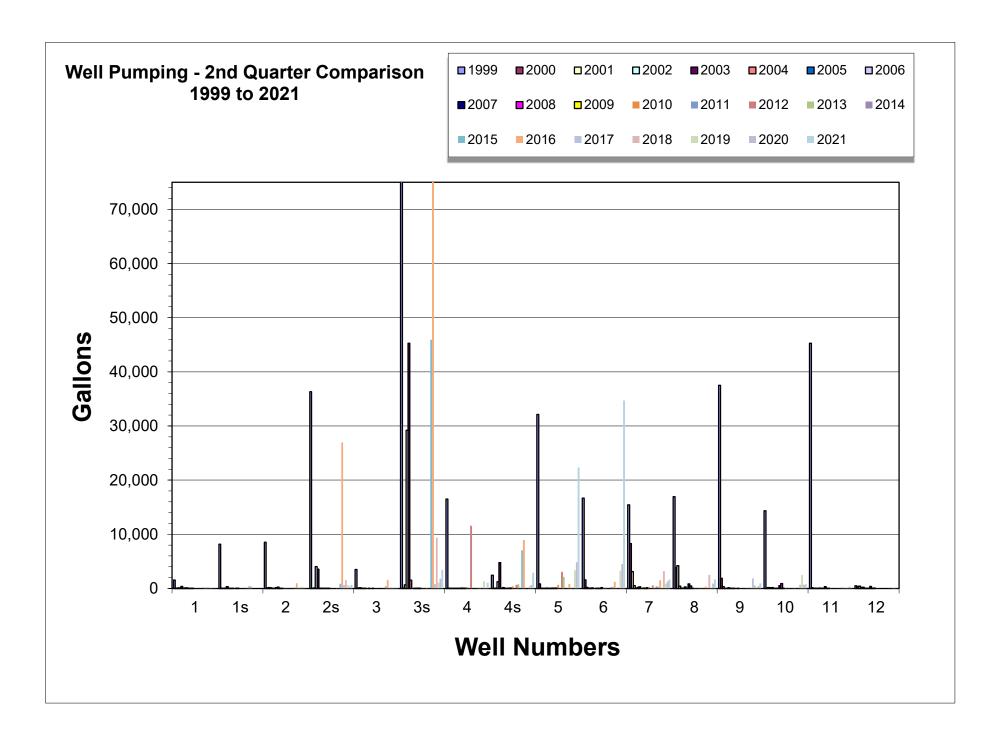


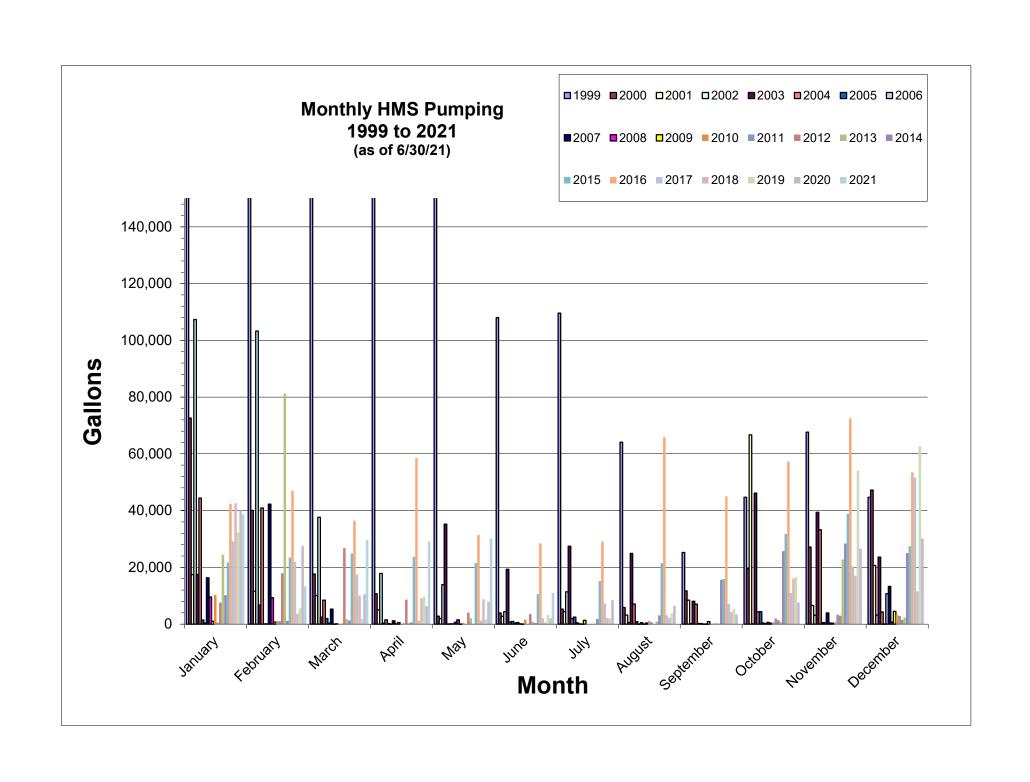




Appendix B HMS Pumping Charts

- Monthly Pumping: 1999–2021
- Well Pumping: Second Quarter Comparisons: 1999–2021





Appendix C Manual Verification Reports

- April
- May
- June

	4/7/21 to 4/8/21												
			ELEVATION,	FIELD	FIELD	COMPUTER	DELTA: FIELD	DELTA:					
			WELL CAP,	READING, FEET		DISPLAY, FEET	MINUS	CURRENT					
			FEET	, (RADIO)	ED ELEVATIO	(WONDERW)	COMPUTER, FEET	ONGOING AVERAGE					
				(. 5 .5 .5)	N FEET			7.172.0.02					
ΙΡ	1	*	19.88	18.71	1.17	1.16	0.01	-0.02					
ОР	1	*	20.70	17.93	2.77	2.72	0.05	0.02					
IΡ	1 S	*	20.11	18.89	1.22	1.22	0.00	0.01					
OP	1 S	*	20.94	18.96	1.98	2.00	-0.02	0.07					
IΡ	2	*	12.79	11.65	1.14	1.20	-0.06	-0.01					
OP	2	*	12.86	10.40	2.46	2.55	-0.09	-0.06					
IΡ	2 S	*	12.85	11.88	0.97	0.93	0.04	0.01					
OP	2 S	*	12.92	11.87	1.05	1.03	0.01	0.02					
IΡ	3	*	19.37	18.49	0.88	0.85	0.03	0.00					
OP	3	*	19.60	17.23	2.37	2.42	-0.05	-0.01					
IΡ	3 S	*	19.19	18.12	1.07	0.80	0.27	0.01					
OP	3 S	*	19.39	18.16	1.23	1.23	0.00	0.02					
IΡ	4	*	13.07	11.77	1.30	1.31	-0.01	-0.01					
OP	4	*	13.21	10.72	2.49	2.53	-0.04	0.00					
IΡ	4 S	*	13.25	12.32	0.93	0.93	0.00	0.01					
OP	4 S	*	13.08	11.35	1.73	1.79	-0.06	0.00					
	TIDE		9.65	7.88		1.88	-0.11	0.06					
IΡ	5	*	8.99	7.60	1.39	1.44	-0.05	0.03					
OP	5		7.82	5.75	2.07	2.22	-0.15	-0.02					
IΡ	6	*	8.79	7.58	1.21	1.19	0.02	0.00					
OP	6	*	6.98	5.00	1.98	1.92	0.06	0.01					
IΡ	7		8.77	7.70	1.07	1.10	-0.03	-0.03					
OP	7	_	8.17	5.98		2.21	-0.02	-0.07					
IP	8	*	10.33	9.21	1.12	1.12	0.00	0.00					
OP	8	*	6.62	4.41	2.21	2.13	0.08	0.01					
IP	9	*	9.57	9.00	0.57	0.57	0.00	0.01					
OP	9	*	7.90	6.16	1.74	1.63	0.11	0.00					
IP	10	*	8.46				0.05	0.01					
OP	10	*	6.48			2.11	-0.11	-0.01					
IP	11	*	18.47	17.38		1.05	0.04	0.00					
OP	11	*	17.57	15.40	2.17	2.25	-0.08	0.00					
IP	12	*	11.39		1.19	1.27	-0.08	0.02					
OP	12		11.18	8.65	2.53	2.52	0.01	0.01					
		GS(T/	AKE FIVE DUPLICA	ATE READINGS LIST	WELL IDENTIF								
ΙΡ	10			7.60		0							
IP OD	8			9.21		0							
OP	1 S			18.96		0							
ΙΡ	12			10.20		0							
IP C	11	_	44.00	17.38	0.00	0							
	r'd Slip		11.86	11.00	0.86								
Gas Vent 18.92 8.00 10.92 Note: Elevations based on Stantec survey 2019													
NOT					•	/C cooing roth	or than the st	teel outer cas					
	De	,1101	co reauliys	ale laneli IIC	om uie r v	o casing rati	ioi uiaii uic Si	.cor outer cas					

		5/7/2021											
		\vdash	ELEVATION,	FIELD	FIELD	DELTA:							
1		WELL CAP,		READING, FEET		COMPUTER DISPLAY, FEET	DELTA: FIELD MINUS	CURRENT					
			FEET	,	ED	(WONDERW)	COMPUTER,	ONGOING					
				(RADIO)	ELEVATIO		FEET	AVERAGE					
					N FEET								
IΡ	1	*	19.88	18.73	1.15	1.14	0.01	-0.02					
OP	1	*	20.70	18.06	2.64	2.66	-0.02	0.02					
IΡ	1 S	*	20.11	18.90	1.21	1.17	0.04	0.01					
OP	1 S	*	20.94	19.01	1.93	1.76	0.17	0.07					
IΡ	2	*	12.79	11.58	1.21	1.17	0.04	-0.01					
OP	2	*	12.86	10.00	2.86	2.99	-0.14	-0.06					
IΡ	2 S	*	12.85	11.93	0.92	0.90	0.02	0.01					
OP	2 S	*	12.92	11.82	1.10	1.11	-0.02	0.02					
IΡ	3	*	19.37	18.45	0.92	0.95	-0.03	0.00					
ОР	3	*	19.60	17.25	2.35	2.37	-0.02	-0.01					
lг	3 S	*	19.19	18.18	1.01	1.04	-0.03	0.01					
OP	3 S	*	19.39	18.00	1.39	1.63	-0.24	0.02					
IP	4	*	13.07	11.68	1.39	1.38	0.01	-0.01					
OP	4	*	13.21	10.25	2.96	3.06	-0.10	0.00					
IP	4 S	*	13.25	12.29	0.96	0.98	-0.10	0.01					
OP	4 S	*	13.08	11.07	2.01	2.07	-0.02	0.00					
	TIDE		9.65	7.84	1.81	1.84	-0.03	0.06					
IP	5	*	8.99	7.56	1.43	1.42	0.03	0.03					
OP	5		7.82	5.18	2.64	2.71	-0.07	-0.02					
IP	6	*	8.79	7.60	1.19	1.20	-0.07	0.02					
OP	6	*		4.55	2.43	2.45							
IP	7		6.98				-0.02	0.01					
	7		8.77	7.77	1.00	0.95	0.05	-0.03					
OP		*	8.17	6.48	1.69	1.67	0.02	-0.07					
IP	8	*	10.33	9.60	0.73	0.71	0.02	0.00					
OP	8	*	6.62	5.62	1.00	1.00	0.00	0.01					
IP	9	*	9.57	9.33	0.24	0.21	0.03	0.01					
OP	9	*	7.90	7.08	0.82	0.84	-0.02	0.00					
IP	10	*	8.46		0.89								
OP	10	*	6.48		1.32	1.24	0.08	-0.01					
IP	11		18.47	17.44	1.03	1.04	-0.01	0.00					
OP	11	*	17.57	15.46	2.11	2.16	-0.05	0.00					
IΡ	12	*	11.39	10.16	1.23	1.18	0.05	0.02					
OP	12	*	11.18	8.54	2.64	2.59	0.05	0.01					
DUPLI	CATE READIN	GS(T	AKE FIVE DUPLIC	ATE READINGS LIST	WELL IDENTI	FIER AND READING)							
ΙP	5			7.56		0							
OP	5			5.18		0							
ΙP	4			11.68		0							
ОР	9			7.08		0							
ΙP	4			11.68		0							
	Cvr'd Slip		11.86	11.00	0.86								
	as Vent		18.92	8.82	10.10								
Note: Flores		<u>. </u>		0.02									

Note: Elevations based on Stantec survey 2019

'*' Denotes readings are taken from the PVC casing rather than the steel outer cas

		6/8/2021											
			ELEVATION,	FIELD	FIELD	COMPUTER	DELTA: FIELD	DELTA:					
			WELL CAP,	READING, FEET		DISPLAY, FEET	MINUS	CURRENT					
			FEET	(RADIO)	ED ELEVATIO	(WONDERW)	COMPUTER, FEET	ONGOING AVERAGE					
					N FEET								
IP	1	*	19.88	18.63	1.25	1.28	-0.03	-0.02					
OP	1	*	20.70	17.76	2.94	2.92	0.02	0.02					
ΙP	1 S	*	20.11	18.79	1.32	1.34	-0.02	0.01					
ЮP	1 S	*	20.94	18.95	1.99	2.07	-0.08	0.07					
IP	2	*	12.79	11.62	1.17	1.24	-0.07	-0.01					
OP	2	*	12.86	10.35	2.51	2.57	-0.06	-0.06					
IP	2 S	*	12.85	11.85	1.00	1.00	0.00	0.01					
OP	2 S	*	12.92	11.59	1.33	1.33	-0.01	0.02					
IP	3	*	19.37	18.44	0.93	0.97	-0.04	0.00					
IOP	3	*	19.60	17.14	2.46	2.52	-0.06	-0.01					
.	ŭ		10.00	27.21	2.10	2.02	0.00	0.01					
IΡ	3 S	*	19.19	18.14	1.05	1.07	-0.02	0.01					
OP	3 S	*	19.39	17.92	1.47	1.30	0.17	0.02					
IΡ	4	*	13.07	11.74	1.33	1.33	0.00	-0.01					
OP	4	*	13.21	10.79	2.42	2.42	0.00	0.00					
IΡ	4 S	*	13.25	12.3	0.95	0.93	0.02	0.01					
OP	4 S	*	13.08	11.19	1.89	1.98	-0.09	0.00					
-	TIDE		9.65	7.75	1.90	2.16	-0.26	0.06					
IΡ	5	*	8.99	7.62	1.37	1.54	-0.17	0.03					
OP	5		7.82	5.58	2.24	2.17	0.07	-0.02					
IΡ	6	*	8.79	7.65	1.14	1.06	0.08	0.00					
OP	6	*	6.98	5.61	1.37	1.40	-0.03	0.01					
IΡ	7		8.77	7.68	1.09	1.11	-0.02	-0.03					
OP	7		8.17	5.9	2.27	2.22	0.05	-0.07					
IΡ	8	*	10.33	9.13	1.20	1.12	0.08	0.00					
OP	8	*	6.62	4.02	2.60	2.61	-0.01	0.01					
IΡ	9	*	9.57	8.92	0.65	0.67	-0.02	0.01					
OP	9	*	7.90	5.88	2.02	2.06	-0.04	0.00					
IΡ	10	*	8.46	7.54	0.92	1.00	-0.08	0.01					
OP	10	*	6.48	4.32	2.16	2.30	-0.14	-0.01					
IΡ	11	*	18.47	17.33	1.14	1.12	0.02	0.00					
OP	11	*	17.57	15.19	2.38	2.47	-0.09	0.00					
IΡ	12	*	11.39	10.12	1.27	1.30	-0.03	0.02					
OP	12	*	11.18	8.45	2.73	2.76	-0.03	0.01					
DUPLICATE READINGS (TAKE FIVE DUPLICATE READINGS LIST WELL IDENTIFIER AND READING)													
OP	1			12.3		0							
OP	12			7.65		0							
OP	2			7.68		0							
OP	7			9.13		0							
IΡ	1 S			18.44		0							
	Cvr'd Slip		11.86	10.88	0.98								
Gas Vent			18.92	8.80	10.12								

Note: Elevations based on Stantec survey 2019

**Denotes readings are taken from the PVC casing rather than the steel outer casing

Appendix C
Manual Verification Gradient Review
Second Quarter 2021

Occord Quarter 2021																
April	Gradient 1	Gradient 1S	Gradient 2	Gradient 2S	Gradient 3	Gradient 3S	Gradient 4	Gradient 4S	Gradient 5	Gradient 6	Gradient 7	Gradient 8	Gradient 9	Gradient 10	Gradient 11	Gradient 12
Average	1.56	0.64	1.47	0.17	1.73	0.46	1.39	0.89	0.72	0.63	0.83	0.96	1.05	1.20	1.17	1.26
Max	1.61	0.67	1.53	0.17	1.79	0.52	1.46	0.99	0.81	0.70	0.92	1.07	1.16	1.30	1.28	1.37
Min	1.51	0.60	1.37	0.16	1.61	0.41	1.26	0.74	0.61	0.53	0.70	0.78	0.88	1.02	1.01	1.13
Delta Manual Verification	0.04	-0.02	-0.03	-0.02	-0.08	-0.27	-0.03	-0.06	-0.10	0.04	0.02	0.08	0.11	-0.16	-0.12	0.09
Value plus 0.072	0.11	0.09	0.11	0.10	0.15	0.34	0.10	0.13	0.17	0.11	0.09	0.15	0.18	0.23	0.19	0.16
Gradient Greater Than Variance	1.40	0.50	1.26	0.07	1.45	0.06	1.16	0.61	0.44	0.41	0.61	0.63	0.70	0.79	0.82	0.97
May																
Average	1.59	0.63	1.41	0.19	1.69	0.34	1.36	0.87	0.63	0.65	0.77	1.00	1.12	1.12	1.11	1.38
Max	1.63	0.66	1.54	0.21	1.78	0.40	1.46	0.96	0.76	0.72	0.89	1.08	1.21	1.22	1.22	1.40
Min	1.55	0.62	1.30	0.17	1.63	0.29	1.28	0.79	0.53	0.58	0.67	0.90	1.04	1.02	1.01	1.34
Delta Manual Verification	-0.03	0.13	-0.17	-0.04	0.01	-0.21	-0.11	-0.04	-0.08	-0.01	-0.02	-0.02	-0.05	0.03	-0.04	0.00
Value plus 0.072	0.11	0.20	0.25	0.11	0.08	0.28	0.18	0.11	0.15	0.08	0.10	0.09	0.12	0.10	0.11	0.07
Gradient Greater Than Variance	1.44	0.42	1.05	0.07	1.55	0.01	1.10	0.68	0.38	0.50	0.58	0.81	0.91	0.92	0.90	1.27
June																
Average	1.60	0.73	1.32	0.23	1.70	0.34	1.30	1.00	0.66	0.68	0.86	1.20	1.23	1.28	1.23	1.44
Max	1.64	0.77	1.37	0.25	1.74	0.44	1.33	1.05	0.74	0.72	0.96	1.27	1.31	1.36	1.30	1.48
Min	1.55	0.66	1.26	0.21	1.65	0.24	1.25	0.89	0.57	0.64	0.75	1.08	1.13	1.14	1.10	1.38
Delta Manual Verification	0.05	-0.06	0.01	-0.01	-0.02	0.19	0.00	-0.11	0.24	-0.11	0.08	-0.09	-0.02	-0.06	-0.11	0.00
Value plus 0.072	0.12	0.13	0.08	0.08	0.09	0.26	0.07	0.18	0.31	0.18	0.15	0.16	0.09	0.13	0.18	0.07
Gradient Greater Than Variance	1.43	0.53	1.19	0.13	1.56	-0.02	1.17	0.72	0.26	0.46	0.60	0.92	1.04	1.01	0.92	1.30