

HEALTH, SAFETY, ENVIRONMENTAL, PRODUCT STEWARDSHIP AND SUSTAINABILITY 115 Tabor Road, 4-D4 Morris Plains, New Jersey 07950 www.honeywell.com

April 10, 2022

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, First Quarter 2022 Progress Report, No. 130

Dear Messrs. Oduwole and Dexter:

Please find enclosed Quarterly Progress Report No. 130 for the Honeywell Baltimore Inner Harbor (BIH) Site. The report provides the project status and results of environmental monitoring for the period of January 1, 2022, through March 31, 2022, 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. 130, First Quarter 2022, Section 1.5.2, for a complete list of maintenance repairs. Following are the major repairs performed during the first quarter:

- January 7, 2022—The ultrasonic level sensor for Outer Piezometer 2S was replaced.
- January 24, 2022—A discharge pipe was repaired in Well 2S.
- January 25, 2022—The piston pump was repaired in Well 7.
- January 25, 2022—The level sensor was replaced in Well 2D.
- February 17, 2022—A leaking flowmeter was repaired on Well 2S.
- March 9, 2022—The level transmitter on Storage Tank 202 was replaced.
- March 23, 2022—A split discharge pipe was replaced on Well 2S.

D. Redevelopment

The Sandlot was dismantled in March 2022 and has been relocated to the Western side of Parcel 3. Container structures have been positioned and are being connected to electric supplies. Shallow ground works and general site setup work is ongoing, with scheduled completion in May 2022.

April 10, 2022 Messrs. Oduwole and Dexter Re: Honeywell Baltimore Inner Harbor Site, First Quarter 2022 Progress Report, No. 130 Page 2 of 3

Onsite construction preparation activities for Parcel 3 development began March 16, 2022. Intrusive work inside the MMC is scheduled to begin April 11, 2022, PDA piles are scheduled for April 25, 2022, and production piles are scheduled to be driven May 2, 2022.

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.

Agency Correspondence

- January 3, 2022—Email from Ed Dexter to Jonathan Flesher requesting quantity of Perimeter Air Monitoring sites stated in the Area 1, Phase 2 Construction Air Monitoring Project Plan (CAMP) Parcel 3 Development. Confirmation email reply from Jonathan Flesher on January 3, 2022.
- January 13, 2022—Revised Parcel 4 DDP email attachment from Jonathan Flesher to Ed Dexter and Oduwole Moshood. Acknowledgement receipt from Richelle Hanson and Ed Dexter, January 18, 2022.
- January 13, 2022—Parcel 3 DDP rejection email with attached letter from Ed Dexter to Jonathan Flesher. Acknowledged by Jonathan Flesher on January 13, 2022.
- January 19, 2022—Email from Moshood Oduwole to Jonathan Flesher regarding Parcel 4, including request for USACE to review DDP. Receipt acknowledged by Jonathan Flesher on January 19, 2022.
- January 24, 2022—Email from Moshood Oduwole confirming EPA comments on Parcel 4 DDP have been adequately addressed by Beatty Development Group. Receipt acknowledged by Jonathan Flesher on January 25, 2022.
- January 24, 2022—Email from Darren Quillen (Environmental Resources Management) to Ed Dexter and Moshood Oduwole containing responses to MDE comments regarding Area 1, Parcel 3 DDP with link to entire DDP.
- January 27, 2022—Harbor Point Parcel 4 DDP approval email with attached letter from Ed Dexter to Jonathan Flesher, Moshood Oduwole, and Honeywell. Acknowledged by Jonathan Flesher January 27, 2022.
- January 27, 2022—Harbor Point Parcel 4 DDP approval email with attached letter from Moshood Oduwole to Jonathan Flesher, Ed Dexter, and Honeywell.
- February 7, 2022—Harbor Point Area 1, Phase 2, Parcel 3 DDP approval email with attached letter from Ed Dexter to Jonathan Flesher, Moshood Oduwole and Honeywell. Receipt acknowledgment email from Jonathan Flesher February 7, 2022.
- February 7, 2022—Harbor Point Area 1, Phase 2, Parcel 3 DDP approval email with attached letter from Moshood Oduwole to Jonathan Flesher, Ed Dexter, and Honeywell.
- February 17, 2022—Email from Marty Reif (Jacobs on behalf of Honeywell) to Ed Dexter and Moshood Oduwole requesting revision status of the adjusted Surface Soil Monitoring Plan at Baltimore Inner Harbor.
- March 18, 2022—Email from Jonathan Fflesher to Moshood Oduwole, Ed Dexter, and Richelle Hanson with initial construction schedule for Area 1, Phase 2 Parcel 3.

Attachment 1—Operation and Maintenance Schedule for Second Quarter 2022

Attachment 2—Environmental Media Monitoring Plan (EMMP) Report. Surface water sampling occurred during the first quarter of 2022.

April 10, 2022 Messrs. Oduwole and Dexter Re: Honeywell Baltimore Inner Harbor Site, First Quarter 2022 Progress Report, No. 130 Page 3 of 3

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

Changes in CMI Reporting

There have been no changes in CMI reporting this quarter.

Copies of Daily Reports, Inspections, and Monitoring Data

The surface water data for the first quarter of 2022 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 Files," provided via emailed link.

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

Projected Work for Second Quarter 2022

A. Maintenance

- Extraction well piston pump pilot installation will continue.
- Surface water, groundwater and drainage layer samples will be collected.
- Site-wide PLC upgrade assessment will be performed.
- Automated valves will be installed on the leachate storage tanks.

B. Redevelopment

- Construction on Parcel 3 (Area 1, Phase 2—Parcel 3 ([T. Rowe Price]) commences.
- Construction on Parcel 4 (Undesignated Area and Area 3) will begin next quarter.
- **C.** Community Events: Beatty Development will contine to provide periodic updates to the local residents as the redevelopment projects progress.

Please call me at 973-455-2877 if you have any questions or comments.

Sincerely,

Eric Christodoulatos 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 Second Quarter 2022

April 2022

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
27	28	29	30	31	1 Standard Inspections - MES 1	2
3	4 All Monthly Inspections -Ladder, Fall Equipment, SSMP, Fire Equipment	5 Peizometer Readings MES-2	6	7	8 Standard Inspections - MES 1 Q1 Quarterly Report Due	9
10	11 Q2 SWS Primary MES	12 Vault Inspections MES-2	13 Groundwater Sampling MES	14	15 Standard Inspections - MES 1	16
17	18	19	20 Annual Drainage Layer Sampling - MES	21	22 Standard Inspections - MES 1	23
24	25 Q2 SWS Backup MES	26	27	28	29	30
1	2	NOTES				

May 2022

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1	2	3	4	5	6 Standard Inspections - MES 1	7
8	9 All Monthly Inspections -Ladder, Fall Equipment, SSMP, Fire Equipment	10 Peizometer Inspections - MES2	11 Q2 SWS Backup 2	12	13 Standard Inspections - MES 1	14
15	16	17 Vault Inspections - MES2	18	19	20 Standard Inspections - MES 1	21
22	23	24	25	26	27 Standard Inspections - MES 1	28
29	30 Memorial Day. Offices Closed.	31	1	2	3 Standard Inspections - MES 1	4
5	6	NOTES				

June 2022

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
29	30	31	1	2	3 Standard Inspections - MES 1	4
5	6 All Monthly Inspections -Ladder, Fall Equipment, SSMP, Fire Equipment	7 Peizometer Inspections MES2	8	9	10 Standard Inspections - MES 1	11
12	13	14 Vault Inspection MES2	15	16	17 Standard Inspections - MES 1	18
19	20	21	22	23	24 Standard Inspections - MES 1	25
26	27	28	29	30	1 Standard Inspections - MES 1	2

3 4 **NOTES**

Attachment 2 Environmental Media Monitoring Report

ENVIRONMENTAL MEDIA MONITORING PLAN QUARTERLY REPORT NO. 130, FIRST QUARTER 2022

BALTIMORE INNER HARBOR BALTIMORE, MARYLAND

Prepared for



115 Tabor Road Morris Plains, New Jersey 07950

Prepared by



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

 ${\rm APRIL}\ 2022$



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2-1 Surface Water Sample Locations

Honeywell

Acronyms and Abbreviations

hà	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
m ³	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
ТОС	total organic carbon

1. Introduction

1.1 Purpose

This document summarizes data collected during the first quarter of 2022 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 samples were collected during the first quarter of 2022. Surface water sampling results are described in Section 2, with the analytical data provided in Appendix A.

Validata LLC validated all sampling data for the first quarter of 2022. The validation reports for first quarter 2022 surface water monitoring are provided in Appendix B. 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: 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 Section 2. Associated analytical data and chain-of-custody records are provided in Appendices A. Validation results are presented in Appendix B.

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 chainof-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 first quarter of 2021 was performed by Maryland Environmental Services (MES) at all 20 surface water sampling locations on February 24, 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 February 24, 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 February 24, 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 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 first quarter of 2022 are similar to the analytical values reported for the fourth 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.

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
2/28/2022	100%	100%	100%	98%

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

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

Station	Reporting	Method Detection	Total Dissolved Chromium (ug/L)
Number	Limit (ug/L)	Limit (ug/L)	2/28/2022
3B	15	1.6	ND
3Т	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	15	1.6	ND
8B	15	1.6	ND
8T	15	1.6	ND
9B	15	1.6	ND
9Т	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	2.3 J
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

Table 2-2. Surface Water Sampling Data per Location, February 2022

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 Detection Limit

ND - Result not detected at the Method Detection Limit

Table 2-3. Water Sampling Data per Sampling Station, February 2022

	Total Dissolved Chromium (ug/L)
Station	2/28/2022
Number	Station Average of All Depths
3	3.2 U
4	3.2 U
5	4.8 U
6	3.2 U
7	3.2 U
8	3.2 U
9	3.2 U
10	3.2 U
11	4.8 U
12	3.2 U
13	3.2 U
14	3.2 U
15	3.9 J
16	4.8 U
17	3.2 U
18	3.2 U
19	4.8 U
20	3.2 U
Cent	3.2 U
Lady	3.2 U



Figure 2-1. Surface Water Sample Locations

Honeywell Baltimore Site



Appendix A Surface Water Sampling Program Data Appendix A-1 Raw Laboratory Data—February 2022

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 410-74474-1

Client Project/Site: Baltimore Inner Harbor, MD

For:

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

Attn: Eric Christodoulatos



Authorized for release by: 3/10/2022 2:43:33 PM

Natalie Luciano, Principal Project Manager (717)556-7258 Natalie.Luciano@eurofinset.com

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.

Review your project results through

LINKS



Visit us at: www.eurofinsus.com/Env 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 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.

Matalie Race

Natalie Luciano Principal Project Manager 3/10/2022 2:43:33 PM

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

Qualifiers

Μ	e	ta	Is
	~		

RL

RPD

TEF

TEQ

TNTC

Reporting Limit or Requested Limit (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

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

Qualifiers		3
<mark>Metals</mark> Qualifier	Qualifier Description	А
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	
01		5
Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	6
¤	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.	8
CFL	Contains Free Liquid	0
CFU	Colony Forming Unit	0
CNF	Contains No Free Liquid	9
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)	13
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)	

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-74474-1

Receipt

The samples were received on 3/1/2022 4:45 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 3.0° C and 3.5° C

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): FB_022822 (410-74474-45). The container labels list FB1_022822, while the COC lists FB_022822. The COC was followed.

Metals

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

5

Lab Sample ID: 410-74474-1

Lab Sample ID: 410-74474-2

Lab Sample ID: 410-74474-3

Lab Sample ID: 410-74474-4

Lab Sample ID: 410-74474-5

Lab Sample ID: 410-74474-6

Lab Sample ID: 410-74474-7

Lab Sample ID: 410-74474-8

Lab Sample ID: 410-74474-9

Lab Sample ID: 410-74474-10

Lab Sample ID: 410-74474-11

Lab Sample ID: 410-74474-12

Lab Sample ID: 410-74474-13

Lab Sample ID: 410-74474-14

Lab Sample ID: 410-74474-15

Lab Sample ID: 410-74474-16

Client Sar	nple ID: 3T_	022822	
No Detection	5.		
Client Sar	nple ID: 3B	022822	

Client Sample ID: 4T_022822

Client: Honeywell International Inc

No Detections.

Client Sample ID: 4B_022822

No Detections.

Client Sample ID: 5T_022822

No Detections.

Client Sample ID: 5B_022822

No Detections.

Client Sample ID: 6T_022822

No Detections.

Client Sample ID: 6B_022822

No Detections.

Client Sample ID: 7T_022822

No Detections.

Client Sample ID: 7B 022822

No Detections.

Client Sample ID: 8T_022822

No Detections.

Client Sample ID: 8B_022822

No Detections.

Client Sample ID: 9T_022822

No Detections.

Client Sample ID: 9B_022822

No Detections.

Client Sample ID: 10T_022822

No Detections.

Client Sample ID: 10B_022822

No Detections.

This Detection Summary does not include radiochemical test results.

5

Lab Sample ID: 410-74474-17

Lab Sample ID: 410-74474-19

Lab Sample ID: 410-74474-20

Lab Sample ID: 410-74474-21

Lab Sample ID: 410-74474-22

Lab Sample ID: 410-74474-23

Lab Sample ID: 410-74474-24

Lab Sample ID: 410-74474-25

Project/Site: Ba	imore Inner	Harbor, MD	
Client Samp	• ID: 11T_)22822	
No Detections.			

Client: Honeywell International Inc

Lab Sample ID: 410-74474-18

Client Sample ID: 12T_022822

Client Sample ID: 11B_022822

No Detections.

No Detections.

Client Sample ID: 12B_022822

No Detections.

Client Sample ID: 13T_022822

No Detections.

Client Sample ID: 13B_022822

No Detections.

Client Sample ID: 14T_022822

No Detections.

Client Sample ID: 14B_022822

No Detections.

Client Sample ID: 15T_022822

No Detections.

Client Sample ID: 15B_022822						Lab	Sample ID:	: 410-74474-26
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Chromium	2.3	J	15	1.6	ug/L	1	6010C	Dissolved
Client Sample ID: 16T_022822						Lab	Sample ID:	: 410-74474-27
No Detections.								
Client Sample ID: 16B_022822						Lab	Sample ID:	: 410-74474-28
No Detections.								
Client Sample ID: 17T_022822						Lab	Sample ID:	: 410-74474-29
No Detections.								
Client Sample ID: 17B_022822						Lab	Sample ID:	: 410-74474-30
No Detections.								

Client Sample ID: 18T_022822

No Detections.

Client Sample ID: 18B_022822

No Detections.

This Detection Summary does not include radiochemical test results.

Lab Sample ID: 410-74474-31

Lab Sample ID: 410-74474-32

Project/Site: Baltimore Inner Harbor, MD	JOD ID. 410-74474-1
Client Sample ID: 19T_022822	Lab Sample ID: 410-74474-33
No Detections.	
Client Sample ID: 19B_022822	Lab Sample ID: 410-74474-34
No Detections.	
Client Sample ID: 20T_022822	Lab Sample ID: 410-74474-35
No Detections.	
Client Sample ID: 20B_022822	Lab Sample ID: 410-74474-36
No Detections.	
Client Sample ID: Cent T_022822	Lab Sample ID: 410-74474-37
No Detections.	
Client Sample ID: Cent B_022822	Lab Sample ID: 410-74474-38
No Detections.	
Client Sample ID: Lady T_022822	Lab Sample ID: 410-74474-39
No Detections.	
Client Sample ID: Lady B_022822	Lab Sample ID: 410-74474-40
No Detections.	
Client Sample ID: D1_022822	Lab Sample ID: 410-74474-41
No Detections.	
Client Sample ID: D2_022822	Lab Sample ID: 410-74474-42

No Detections.

Client Sample ID: RB2_022822

Client Sample ID: RB1_022822

Client Sample ID: D3_022822

Client Sample ID: D4_022822

Client Sample ID: FB_022822

No Detections.

No Detections.

No Detections.

No Detections.

No Detections.

This Detection Summary does not include radiochemical test results.

Lab Sample ID: 410-74474-43

Lab Sample ID: 410-74474-44

Lab Sample ID: 410-74474-45

Lab Sample ID: 410-74474-46

Lab Sample ID: 410-74474-47

Client: Honeywell International Inc

Job ID: 410-74474-1

Project/Site: Baltimore Inner Harbor, M	D								
Client Sample ID: 3T 022822							Lab Sam	ple ID: 410-7	4474-1
Date Collected: 02/28/22 10:07								Matri	x: Water
Date Received: 03/01/22 16:45									
Method: 6010C - Metals (ICP) - Diss	olved					_			
Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Chromium	ND		15	1.6	ug/L		03/02/22 21:19	03/05/22 01:18	1
Client Sample ID: 3B 022822							Lab Sam	ple ID: 410-7	4474-2
Date Collected: 02/28/22 10:07								Matri:	x: Water
Date Received: 03/01/22 16:45									
Method: 6010C - Metals (ICP) - Diss	olved					_			
Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Chromium	ND		15	1.6	ug/L		03/02/22 21:23	03/05/22 00:29	1
Client Sample ID: 4T_022822							Lab Sam	ple ID: 410-7	4474-3
Date Collected: 02/28/22 10:11								Matri	x: Water
Date Received: 03/01/22 16:45									
 _									
Method: 6010C - Metals (ICP) - Diss	olved					_			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		15	1.0	ug/L		03/02/22 21:19	03/05/22 03:15	1
Client Sample ID: 4B_022822							Lab Sam	ple ID: 410-7	4474-4
Date Collected: 02/28/22 10:11								Matri	x: Water
Date Received: 03/01/22 16:45									
 _									
Method: 6010C - Metals (ICP) - Diss	olved					_			
Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Chromium	ND		15	1.6	ug/L		03/02/22 21:23	03/05/22 00:49	1
Client Sample ID: 5T 022822							Lab Sam	ple ID: 410-7	4474-5
Date Collected: 02/28/22 10:13								Matri	x: Water
Date Received: 03/01/22 16:45									
Method: 6010C - Metals (ICP) - Diss	olved					_			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		15	1.0	ug/L		03/02/22 21:19	03/05/22 01:50	1
Client Sample ID: 5B_022822							Lab Sam	ple ID: 410-7	4474-6
Date Collected: 02/28/22 10:13								Matri	x: Water
Date Received: 03/01/22 16:45									
Method: 6010C - Metals (ICP) - Disso	olved	Qualifier			11	-	Dec	A	D.1 -
Chromium	Result	Quaimer	KL			<u> </u>	03/02/22 21:16	Analyzed	
	ND		GI	1.0	uy/L		03/02/22 21:10	03/04/22 01:37	1
Client Sample ID: 6T_022822							Lab Sam	ple ID: 410-7	4474-7
Date Collected: 02/28/22 10:17								Matri	x: Water
Date Received: 03/01/22 16:45									
	- L								_
wethod: 6010C - Metals (ICP) - Disse	DIVEO	Qualifier			Unit	P	Dronered	Anolymed	
		uaimer		1.6		<u> </u>	03/02/22 21·22	03/05/22 00·30	
omonium	ND		10	1.0			50102122 21.20	JUIDOIZZ 00.09	1

Client: Honeywell International Inc

Job ID: 410-74474-1

Project/Site: Baltimore Inner Harbor, M	1D								
Client Sample ID: 6B 022822							Lab Sam	ple ID: 410-7	4474-8
Date Collected: 02/28/22 10:17								Matri	x: Water
Date Received: 03/01/22 16:45									
 _									
Method: 6010C - Metals (ICP) - Diss	olved								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		15	1.6	ug/L		03/02/22 21:13	03/04/22 01:47	1
Client Sample ID: 7T 022822							Lab Sam	ple ID: 410-7	4474-9
Date Collected: 02/28/22 10:20								Matri	x: Water
Date Received: 03/01/22 16:45									
 _									
Method: 6010C - Metals (ICP) - Diss	olved								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		15	1.6	ug/L		03/02/22 21:16	03/04/22 02:01	1
Client Sample ID: 7B 022822							Lab Samp	le ID: 410-74	474-10
Date Collected: 02/28/22 10:20								Matri	x: Water
Date Received: 03/01/22 16:45									
 _									
Method: 6010C - Metals (ICP) - Diss	olved					_			
Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Chromium	ND		15	1.0	ug/L		03/02/22 21:16	03/04/22 01:54	1
Client Sample ID: 8T_022822							Lab Samp	le ID: 410-74	474-11
Date Collected: 02/28/22 10:23								Matri	x: Water
Date Received: 03/01/22 16:45									
Γ									
Method: 6010C - Metals (ICP) - Diss	olved	a				_			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		15	1.0	ug/L		03/02/22 21:23	03/04/22 23:51	1
Client Sample ID: 8B_022822							Lab Samp	le ID: 410-74	474-12
Date Collected: 02/28/22 10:23								Matri	x: Water
Date Received: 03/01/22 16:45									
Method: 6010C - Metals (ICP) - Diss	olved					_			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		15	1.0	ug/L		03/02/22 21:19	03/05/22 03:08	1
Client Sample ID: 9T_022822							Lab Samp	le ID: 410-74	474-13
Date Collected: 02/28/22 10:25							-	Matri	x: Water
Date Received: 03/01/22 16:45									
Method: 6010C - Metals (ICP) - Diss	OIVED	Qualifier			Unit	P	Dronered	Analysed	
		Quaimer				D	03/02/22 21:23	03/05/22 00:46	
	ND		10	1.0	ay, L		50,02,22 21.23	00/00/22 00.40	
Client Sample ID: 9B_022822							Lab Samp	le ID: 410-74	474-14
Date Collected: 02/28/22 10:25								Matri	x: Water
Date Received: 03/01/22 16:45									
Mothed: 60100 Motels (ICD) Disc	alvad								
Mietriou: OUTUC - Metals (ICP) - DISS	DIVEU Pocult	Qualifier	DI	мпі	Unit	п	Propared	Analyzed	Dil Eso
Chromium	ND		15	1.6	ua/L		03/02/22 21:19	03/05/22 03:12	1
1					<u>.</u>				•

Client: Honeywell International Inc

Job ID: 410-74474-1

Project/Site: Baltimore Inner Harbor, MI	C								
Client Sample ID: 10T_022822 Date Collected: 02/28/22 10:28							Lab Samp	le ID: 410-74 Matri	474-15 x: Water
Date Received: 03/01/22 16:45									
Mothod: 6010C Motols (ICP) Disco	lund								
Analyte	Result	Qualifier	RI	мы	Unit	п	Prenared	Analyzod	Dil Fac
Chromium	ND		15	1.6		_	03/02/22 21:23	03/04/22 23:45	1
Client Sample ID: 10B_022822							Lab Samp	le ID: 410-74	474-16
Date Collected: 02/28/22 10:28								Matri	x: Water
Date Received: 03/01/22 16:45									
Method: 6010C - Metals (ICP) - Disso	olved								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		15	1.6	ug/L		03/02/22 21:23	03/05/22 00:10	1
Client Sample ID: 11T 022822							Lob Comp		474 47
								ie ID: 410-74	4/4-1/
Date Collected: 02/28/22 10:36								watri	x: water
Date Received: 03/01/22 16:45									
Method: 6010C - Metals (ICP) - Disso	olved								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		15	1.6	ug/L		03/02/22 21:23	03/04/22 23:03	1
Client Sample ID: 11B 022822							Lab Samp	le ID: 410-74	474-18
Date Collected: 02/28/22 10:36							Lub Oump	Matri	v Wator
Date Received: 03/01/22 16:45									. mater
Method: 6010C - Metals (ICP) - Disso	olved								
Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Chromium	ND		15	1.6	ug/L		03/02/22 21:19	03/05/22 02:26	1
Client Sample ID: 12T 022822							Lab Samp	le ID: 410-74	474-19
Date Collected: 02/28/22 10:40								Matri	x: Water
Date Received: 03/01/22 16:45									
Method: 6010C - Metals (ICP) - Disso	olved	0				_	- ·		
Analyte Chromium	Result	Qualifier	RL			<u> </u>	Prepared	Analyzed	
	ND		15	1.0	ug/L		03/02/22 21.19	03/03/22 02.30	
Client Sample ID: 12B_022822							Lab Samp	le ID: 410-74	474-20
Date Collected: 02/28/22 10:40								Matri	x: Water
Date Received: 03/01/22 16:45									
Mothod: 6010C Motals (ICP) Disco	lund								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		15	1.6	ua/L		03/02/22 21:19	03/05/22 02:46	1
L 			-		U U				
Client Sample ID: 13T_022822							Lab Samp	le ID: 410-74	474-21
Date Collected: 02/28/22 10:42								Matri	x: Water
Date Received: 03/01/22 16:45									
Method: 6010C - Metals (ICP) - Disso	olved								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		15	1.6	ug/L		03/02/22 21:19	03/05/22 02:07	1

Client: Honeywell International Inc

Job ID: 410-74474-1

Project/Site: Baltimore Inner Harbor, MD									
Client Sample ID: 13B_022822 Date Collected: 02/28/22 10:42 Date Received: 03/01/22 16:45							Lab Samp	le ID: 410-74 Matrix	474-22 k: Water
Method: 6010C - Metals (ICP) - Dissol	ved								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		15	1.6	ug/L		03/02/22 21:19	03/05/22 03:05	1
Client Sample ID: 14T 022822							Lah Samn		474 22
Cheft Sample ID. 141_022022							Lab Samp	IE ID. 410-74	4/4-23
Date Collected: 02/28/22 10:45								watro	k: water
Date Received: 03/01/22 16:45									
Method: 6010C - Metals (ICP) - Dissol	ved								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		15	1.6	ug/L		03/02/22 21:16	03/04/22 02:04	1
Client Sample ID: 14B 022822							Lab Samp	le ID: 410-74	474-24
Date Collected: 02/28/22 10:45								Matrix	k: Water
Date Received: 03/01/22 16:45									
Method: 6010C - Metals (ICP) - Dissol	ved								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND	·	15	1.6	ug/L		03/02/22 21:19	03/05/22 01:57	1
Client Sample ID: 15T 022822							Lah Samn		474-25
Date Collected: 02/29/22 10:47							Lab Samp	IC ID. 410-74 Matrix	414-2J
Date Conected: 02/20/22 10:47								Wath	. water
Date Received. 05/01/22 10:45									
Method: 6010C - Metals (ICP) - Dissol	ved								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		15	1.6	ug/L		03/02/22 21:16	03/04/22 01:51	1
Client Sample ID: 15B 022822							Lab Samp	le ID: 410-74	474-26
Date Collected: 02/28/22 10:47								Matrix	k: Water
Date Received: 03/01/22 16:45									
Method: 6010C - Metals (ICP) - Dissol	Ved	Qualifian	DI.	MDI	11		Drenered	Analyzad	
Chromium						<u>D</u>	03/02/22 21:23	03/05/22 00:36	
	2.0	5	10	1.0	ug/L		00/02/22 21:20	00/00/22 00:00	•
Client Sample ID: 16T_022822							Lab Samp	le ID: 410-74	474-27
Date Collected: 02/28/22 10:50								Matrix	k: Water
Date Received: 03/01/22 16:45									
Method: 6010C - Metals (ICP) - Dissol	ved								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		15	1.6	ug/L		03/02/22 21:13	03/04/22 01:40	1
Client Sample ID: 16B 022822							Lab Samp	le ID: 410-74	474-28
Date Collected: 02/28/22 10:50								Matrix	k: Water
Date Received: 03/01/22 16:45									
Method: 6010C - Metals (ICP) - Dissol	ved								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analvzed	Dil Fac
Chromium	ND		15	1.6	ug/L		03/02/22 21:23	03/04/22 23:42	1

Client: Honeywell International Inc

Job ID: 410-74474-1

Project/Site: Baltimore Inner Harbor, MI	D								
Client Sample ID: 17T_022822 Date Collected: 02/28/22 10:53 Date Received: 03/01/22 16:45							Lab Samp	le ID: 410-74 Matrix	474-29 x: Water
Method: 6010C - Metals (ICP) - Disso	olved								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		15	1.6	ug/L		03/02/22 21:19	03/05/22 01:54	1
Client Sample ID: 17P 022822							Lob Comp		474 20
							Lab Samp	ie id. 410-74	4/4-30
Date Collected: 02/28/22 10:53								Matri	x: water
Date Received: 03/01/22 16:45									
Method: 6010C - Metals (ICP) - Disso	olved								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		15	1.6	ug/L		03/02/22 21:13	03/04/22 01:44	1
Client Sample ID: 18T 022822							Lab Samp	le ID: 410-74	474-31
Date Collected: 02/28/22 10:56								Matri	x: Water
Date Received: 03/01/22 16:45									
Method: 6010C Metals (ICP) Disc	alvad								
Analyte	Result	Qualifier	RI	МОІ	Unit	р	Prepared	Analyzed	Dil Fac
Chromium	ND		15	1.6	ug/L		03/02/22 21:19	03/05/22 02:10	1
Client Sample ID: 18B_022822							Lab Samp	le ID: 410-74	474-32
Date Collected: 02/28/22 10:56								Matrix	x: Water
Date Received: 03/01/22 16:45									
Method: 6010C - Metals (ICP) - Disso	olved								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		15	1.6	ug/L		03/02/22 21:23	03/04/22 23:38	1
Client Sample ID: 19T 022822							Lah Samn	Io ID: 410-74	474-33
Date Collected: 02/28/22 11:00							Lub Oump	Matri	v: Wator
Date Received: 02/20/22 11:00								Wath	A. Water
Method: 6010C - Metals (ICP) - Disso	olved								
Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Chromium	ND		15	1.6	ug/L		03/02/22 21:40	03/05/22 10:38	1
Client Sample ID: 19B_022822							Lab Samp	le ID: 410-74	474-34
Date Collected: 02/28/22 11:00								Matrix	x: Water
Date Received: 03/01/22 16:45									
Method: 6010C - Metals (ICP) - Disso	alved								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		15	1.6	ug/L		03/02/22 21:23	03/05/22 01:09	1
Client Sample ID: 20T 022822							Lab Comm		A74 2F
Data Collected: 02/28/22 44:42							Lan Samp	IC ID: 410-/4	+14-33
Date Collected. 02/20/22 11.13								watri	A. Water
Date Neceiveu. 05/01/22 10.45									
Method: 6010C - Metals (ICP) - Disso	olved								
Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Chromium	ND		15	1.6	ug/L		03/02/22 21:23	03/05/22 00:14	1

Client: Honeywell International Inc

Job ID: 410-74474-1

Project/Site: Baltimore Inner Harbor, M	D								
Client Sample ID: 20B_022822 Date Collected: 02/28/22 11:13							Lab Samp	le ID: 410-74 Matri	474-36 x: Water
Date Received: 03/01/22 16:45									
Method: 6010C - Metals (ICP) - Diss	olved								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		15	1.6	ug/L		03/02/22 21:23	03/05/22 00:53	1
Client Sample ID: Cont T 02283	22								474 27
Cheft Sample ID. Cent 1_02202	22						Lan Samp	Ie ID. 410-74	4/4-3/
Date Collected: 02/28/22 10:04								watri	x: water
Date Received. 05/01/22 10.45									
Method: 6010C - Metals (ICP) - Diss	olved								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		15	1.6	ug/L		03/02/22 21:19	03/05/22 02:33	1
Client Sample ID: Cent B_0228	22						Lab Samp	le ID: 410-74	474-38
Date Collected: 02/28/22 10:04								Matri	x: Water
Date Received: 03/01/22 16:45									
Mathadi CO10C Matala (ICD) Dias	e h ve d								
Analyte	Olveu Result	Qualifier	RI	МП	Unit	п	Prenared	Analyzed	Dil Fac
Chromium	ND		15	1.6		<u> </u>	03/02/22 21:19	03/05/22 02:39	1
Client Sample ID: Lady T_0228	22						Lab Samp	le ID: 410-74	474-39
Date Collected: 02/28/22 09:57								Matri	x: Water
Date Received: 03/01/22 16:45									
Method: 6010C - Metals (ICP) - Diss	olved								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		15	1.6	ug/L		03/02/22 21:23	03/05/22 00:33	1
Client Sample ID: Lady B 0228	22						Lah Samn	Io ID: 410-74	474-40
Date Collected: 02/28/22 09:57	L L						Lab Gamp	Matri	v: Wator
Date Received: 03/01/22 16:45								Wath	A. Water
Method: 6010C - Metals (ICP) - Disse	olved								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		15	1.6	ug/L		03/02/22 21:19	03/05/22 02:43	1
Client Sample ID: D1_022822							Lab Samp	le ID: 410-74	474-41
Date Collected: 02/28/22 10:13								Matri	x: Water
Date Received: 03/01/22 16:45									
Method: 6010C - Metals (ICP) - Diss	olved								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		15	1.6	ug/L		03/02/22 21:23	03/04/22 23:35	1
Client Sample ID: D2 022822							l ah Samn	م اD· 110_74	<u>/7/_/2</u>
Date Collected: 02/28/22 10:36							Lab Samp	Moteri	
Date Received: 03/01/22 10:30								watri	A. Water
Method: 6010C - Metals (ICP) - Diss	olved								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		15	1.6	ug/L		03/02/22 21:23	03/05/22 00:43	1

Client: Honeywell International Inc

Job ID: 410-74474-1

Project/Site: Baltimore Inner Harbor, MI	D								
Client Sample ID: D3 022822							Lab Samp	le ID: 410-74	474-43
Date Collected: 02/28/22 10:50								Matrix	x: Water
Date Received: 03/01/22 16:45									
Method: 6010C - Metals (ICP) - Disso	olved								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		15	1.6	ug/L		03/02/22 21:19	03/05/22 02:49	1
Client Sample ID: D4_022822							Lab Samp	le ID: 410-74	474-44
Date Collected: 02/28/22 11:00								Matrix	x: Water
Date Received: 03/01/22 16:45									
Method: 6010C - Metals (ICP) - Disso	olved								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		15	1.6	ug/L		03/02/22 21:19	03/05/22 02:04	1
Client Sample ID: FB_022822							Lab Samp	le ID: 410-74	474-45
Date Collected: 02/28/22 10:32								Matrix	x: Water
Date Received: 03/01/22 16:45									
Method: 6010C - Metals (ICP) - Disso	olved								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		15	1.6	ug/L		03/02/22 21:23	03/04/22 23:48	1
Client Sample ID: RB1_022822							Lab Samp	le ID: 410-74	474-46
Date Collected: 02/28/22 10:33								Matrix	x: Water
Date Received: 03/01/22 16:45									
Method: 6010C - Metals (ICP) - Disso	olved								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		15	1.6	ug/L		03/02/22 21:19	03/05/22 02:29	1
Client Sample ID: RB2_022822							Lab Samp	le ID: 410-74	474-47
Date Collected: 02/28/22 11:09								Matrix	x: Water
Date Received: 03/01/22 16:45									
Method: 6010C - Metals (ICP) - Disso	olved								
Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Chromium	ND		15	1.6	ug/L		03/02/22 21:19	03/05/22 02:01	1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-229425/1-A											Client Sa	ample ID: Metho	od Blank
Matrix: Water												Prep Type:	Total/NA
Analysis Batch: 229983												Prep Batch	: 229425
	MB	MB											
Analyte	Result	Qualifier		RL		MDL	Unit		<u>D</u>	PI	repared	Analyzed	Dil Fac
Chromium	ND			15		1.6	ug/L			03/02	2/22 21:13	03/04/22 00:06	1
Lab Sample ID: LCS 410-229425/2-A									с	lient	Sample	ID: Lab Control	Sample
Matrix: Water												Prep Type:	Total/NA
Analysis Batch: 229983												Prep Batch	: 229425
			Spike		LCS	LCS						%Rec.	
Analyte			Added		Result	Qua	lifier	Unit		D	%Rec	Limits	
Chromium			500		527			ug/L			105	80 - 120	
Lab Sample ID: MB 410-229427/1-A											Client Sa	ample ID: Metho	od Blank
Matrix: Water												Prep Type:	Total/NA
Analysis Batch: 230484												Prep Batch	: 229427
	MB	MB											
Analyte	Result	Qualifier		RL		MDL	Unit		D	Pi	repared	Analyzed	Dil Fac
Chromium	ND			15		1.6	ug/L			03/02	2/22 21:19	03/05/22 01:12	1
Lab Sample ID: LCS 410-229427/2-A									С	lient	Sample	ID: Lab Control	Sample
Matrix: Water												Prep Type:	Total/NA
Analysis Batch: 230484												Prep Batch	: 229427
			Spike		LCS	LCS						%Rec.	
Analyte			Added		Result	Qua	lifier	Unit		D	%Rec	Limits	
Chromium			500		526			ug/L			105	80 - 120	
Lab Sample ID: MR /10-229/28/1-A											Chont Sa	mnia III: Mathe	Nd Riank
Lab Sample ID: MB 410-229428/1-A Matrix: Water											Client Sa	Pren Type:	od Blank
Lab Sample ID: MB 410-229428/1-A Matrix: Water Analysis Batch: 230484											Client Sa	Prep Type: ` Prep Batch	Total/NA
Lab Sample ID: MB 410-229428/1-A Matrix: Water Analysis Batch: 230484	МВ	МВ									Client Sa	Prep Type: " Prep Batch	od Blank Total/NA : 229428
Lab Sample ID: MB 410-229428/1-A Matrix: Water Analysis Batch: 230484 Analyte	MB Result	MB Qualifier		RL		MDL	Unit		D	Pi	client Sa	Ample ID: Metho Prep Type: Prep Batch Analyzed	Dil Fac
Lab Sample ID: MB 410-229428/1-A Matrix: Water Analysis Batch: 230484 Analyte Chromium	MB Result ND	MB Qualifier		RL 15		MDL 1.6	Unit ug/L		<u>D</u>	Pi 03/02	repared 2/22 21:23	Ample ID: Metho Prep Type: Prep Batch Analyzed 03/04/22 22:56	Dil Fac
Lab Sample ID: MB 410-229428/1-A Matrix: Water Analysis Batch: 230484 Analyte Chromium	MB Result ND	MB Qualifier		RL 15		MDL 1.6	Unit ug/L		<u>D</u>	Pr 03/02	repared 2/22 21:23	Ample ID: Metho Prep Type: Prep Batch Analyzed 03/04/22 22:56	Dil Fac
Lab Sample ID: MB 410-229428/1-A Matrix: Water Analysis Batch: 230484 Analyte Chromium Lab Sample ID: LCS 410-229428/2-A	MB Result ND	MB Qualifier		RL 15		MDL 1.6	Unit ug/L		D C	Pr 03/02	repared 2/22 21:23 Sample	Ample ID: Metho Prep Type: Prep Batch Analyzed 03/04/22 22:56	Di Blank Total/NA : 229428 Dil Fac 1 Sample
Lab Sample ID: MB 410-229428/1-A Matrix: Water Analysis Batch: 230484 Analyte Chromium Lab Sample ID: LCS 410-229428/2-A Matrix: Water	MB Result ND	MB Qualifier		RL 15		MDL 1.6	Unit ug/L		D C	Pr 03/02 lient	repared 2/22 21:23 Sample	Ample ID: Metho Prep Type: " Prep Batch 03/04/22 22:56 ID: Lab Control Prep Type:	Di Blank Total/NA : 229428 Dil Fac 1 Sample Total/NA
Lab Sample ID: MB 410-229428/1-A Matrix: Water Analysis Batch: 230484 Analyte Chromium Lab Sample ID: LCS 410-229428/2-A Matrix: Water Analysis Batch: 230484	MB Result ND	MB Qualifier		RL 15		MDL 1.6	Unit ug/L		D C	Pi 03/02 lient	repared 2/22 21:23 Sample	Ample ID: Metho Prep Type: Prep Batch 03/04/22 22:56 ID: Lab Control Prep Type: Prep Batch	Di Blank Total/NA : 229428 Dil Fac 1 Sample Total/NA : 229428
Lab Sample ID: MB 410-229428/1-A Matrix: Water Analysis Batch: 230484 Analyte Chromium Lab Sample ID: LCS 410-229428/2-A Matrix: Water Analysis Batch: 230484	MB Result ND	MB Qualifier	Spike	RL 15	LCS	MDL 1.6	Unit ug/L	Unit	D C	Pi 03/02	repared 2/22 21:23 Sample	Ample ID: Metho Prep Type: ' Prep Batch 	Di Blank Total/NA : 229428 Dil Fac 1 Sample Total/NA : 229428
Lab Sample ID: MB 410-229428/1-A Matrix: Water Analysis Batch: 230484 Analyte Chromium Lab Sample ID: LCS 410-229428/2-A Matrix: Water Analysis Batch: 230484 Analyte Chromium	MB Result ND	MB Qualifier	Spike Added	RL 15	LCS Result	MDL 1.6 LCS Qual	Unit ug/L	Unit	C	Pr 03/02 lient	Client Sa repared 2/22 21:23 Sample <u>%Rec</u> 104	Ample ID: Metho Prep Type: ' Prep Batch Analyzed 03/04/22 22:56 ID: Lab Control Prep Type: ' Prep Batch %Rec. Limits 80 – 120	Di Blank Total/NA : 229428 Dil Fac 1 Sample Total/NA : 229428
Lab Sample ID: MB 410-229428/1-A Matrix: Water Analysis Batch: 230484 Analyte Chromium Lab Sample ID: LCS 410-229428/2-A Matrix: Water Analysis Batch: 230484 Analyte Chromium	MB Result ND	MB Qualifier	Spike Added 500	RL 15	LCS Result 520	MDL 1.6 LCS Qual	Unit ug/L	Unit ug/L	C	<u>P</u> i 03/02 lient	repared 2/22 21:23 Sample %Rec 104	Ample ID: Metho Prep Type: ' Prep Batch 03/04/22 22:56 ID: Lab Control Prep Type: Prep Batch %Rec. Limits 80 - 120	Dil Blank Total/NA : 229428 1 Sample Total/NA : 229428
Lab Sample ID: MB 410-229428/1-A Matrix: Water Analysis Batch: 230484 Analyte Chromium Lab Sample ID: LCS 410-229428/2-A Matrix: Water Analysis Batch: 230484 Analyte Chromium Lab Sample ID: MB 410-229432/1-A	MB Result ND	MB Qualifier	Spike Added 500	RL 15	LCS Result 520	MDL 1.6 Qua	Unit ug/L	Unit ug/L	C	<u>P</u> 1 03/02 lient	repared 2/22 21:23 Sample <u>%Rec</u> 104 Client Sa	Ample ID: Metho Prep Type: ' Prep Batch Analyzed 03/04/22 22:56 ID: Lab Control Prep Type: ' Prep Batch %Rec. Limits 80 - 120 Ample ID: Metho	Di Blank Total/NA : 229428 Dil Fac 1 Sample Total/NA : 229428
Lab Sample ID: MB 410-229428/1-A Matrix: Water Analysis Batch: 230484 Analyte Chromium Lab Sample ID: LCS 410-229428/2-A Matrix: Water Analysis Batch: 230484 Analyte Chromium Lab Sample ID: MB 410-229432/1-A Matrix: Water	MB Result ND	MB Qualifier	Spike Added 500	RL 15	LCS Result 520	MDL 1.6 Qual	Unit ug/L	Unit ug/L	C	Pr 03/02 lient	repared 2/22 21:23 Sample <u>%Rec</u> 104 Client Sa	Ample ID: Metho Prep Type: ' Prep Batch - Analyzed 03/04/22 22:56 ID: Lab Control Prep Type: ' Prep Batch %Rec. Limits 80 - 120 Ample ID: Metho Prep Type: '	Di Blank Total/NA : 229428
Lab Sample ID: MB 410-229428/1-A Matrix: Water Analysis Batch: 230484 Analyte Chromium Lab Sample ID: LCS 410-229428/2-A Matrix: Water Analysis Batch: 230484 Analyte Chromium Lab Sample ID: MB 410-229432/1-A Matrix: Water Analysis Batch: 230482	MB Result ND	MB Qualifier	Spike Added 500	RL 15	LCS Result 520	MDL 1.6 Qual	Unit ug/L	Unit ug/L	C	Pr 03/02 lient	repared 2/22 21:23 Sample <u>%Rec</u> 104 Client Sa	Ample ID: Metho Prep Type: ' Prep Batch Analyzed 03/04/22 22:56 ID: Lab Control Prep Type: ' Prep Batch %Rec. Limits 80 - 120 Ample ID: Metho Prep Type: ' Prep Batch	Di Blank Total/NA : 229428
Lab Sample ID: MB 410-229428/1-A Matrix: Water Analysis Batch: 230484 Analyte Chromium Lab Sample ID: LCS 410-229428/2-A Matrix: Water Analysis Batch: 230484 Analyte Chromium Lab Sample ID: MB 410-229432/1-A Matrix: Water Analysis Batch: 230482	MB Result ND	MB Qualifier	Spike Added 500	RL 15	LCS Result 520	MDL 1.6 Qua	Unit ug/L	Unit ug/L	C	Pr 03/02 lient	repared 2/22 21:23 Sample <u>%Rec</u> 104 Client Sa	Ample ID: Metho Prep Type: ' Prep Batch Analyzed 03/04/22 22:56 ID: Lab Control Prep Type: ' Prep Batch %Rec. Limits 80 - 120 Ample ID: Metho Prep Type: ' Prep Batch	Di Blank Total/NA : 229428 Dil Fac 1 Sample Total/NA : 229428 Dd Blank Total/NA : 229432
Lab Sample ID: MB 410-229428/1-A Matrix: Water Analysis Batch: 230484 Analyte Chromium Lab Sample ID: LCS 410-229428/2-A Matrix: Water Analysis Batch: 230484 Analyte Chromium Lab Sample ID: MB 410-229432/1-A Matrix: Water Analysis Batch: 230482 Analyte	MB Result ND	MB Qualifier MB Qualifier	Spike Added 500	RL 15	LCS Result 520	MDL 1.6 Qual	Unit ug/L	Unit ug/L	C	Pr 03/02 lient	repared 2/22 21:23 Sample <u>%Rec</u> 104 Client Sa repared	Ample ID: Metho Prep Type: ' Prep Batch Analyzed 03/04/22 22:56 ID: Lab Control Prep Type: ' Prep Batch %Rec. Limits 80 - 120 Ample ID: Metho Prep Type: ' Prep Batch Analyzed	Dil Fac Dil Fac 1 Sample Total/NA 229428 2 0 Sample Total/NA 229428 Dil Fac Dil Fac
Lab Sample ID: MB 410-229428/1-A Matrix: Water Analysis Batch: 230484 Analyte Chromium Lab Sample ID: LCS 410-229428/2-A Matrix: Water Analysis Batch: 230484 Analyte Chromium Lab Sample ID: MB 410-229432/1-A Matrix: Water Analysis Batch: 230482 Analyte Chromium	MB Result ND MB Result ND	MB Qualifier MB Qualifier	Spike Added 500	RL 15 RL 15	LCS Result 520	<u>MDL</u> 1.6 <u>Qual</u> 1.6	Unit ug/L lifier	Unit ug/L	<u>D</u> C	Pr 03/02 lient 	Keec Client Sa %Rec - 104 - Client Sa - repared - 2/22 21:23 -	Ample ID: Metho Prep Type: ' Prep Batch 03/04/22 22:56 ID: Lab Control Prep Type: ' Prep Batch %Rec. Limits 80 - 120 Ample ID: Metho Prep Type: ' Prep Batch Analyzed 03/05/22 10:32	Di Blank Total/NA : 229428 Dil Fac 1 Sample Total/NA : 229428 Di Blank Total/NA : 229432 Dil Fac 1
Lab Sample ID: MB 410-229428/1-A Matrix: Water Analysis Batch: 230484 Analyte Chromium Lab Sample ID: LCS 410-229428/2-A Matrix: Water Analysis Batch: 230484 Analyte Chromium Lab Sample ID: MB 410-229432/1-A Matrix: Water Analysis Batch: 230482 Analyte Chromium Lab Sample ID: LCS 410-229432/2-A	MB Result ND	MB Qualifier MB Qualifier	Spike Added 500	RL 15 RL 15	LCS Result 520	MDL 1.6 Qual MDL 1.6	Unit ug/L	Unit ug/L	C	Pr 03/02 lient _ D _ _ _ _ Pr 03/02	Kec Client Sa 2/22 21:23 Sample %Rec - 104 - Client Sa - repared - 2/22 21:23 -	Ample ID: Metho Prep Type: ' Prep Batch Analyzed 03/04/22 22:56 ID: Lab Control Prep Type: Prep Batch %Rec. Limits 80 - 120 Ample ID: Metho Prep Type: ' Prep Batch Analyzed 03/05/22 10:32 ID: Lab Control	Di Blank Total/NA : 229428 Dil Fac 1 Sample Total/NA : 229428 Dil Blank Total/NA : 229428 Dil Fac 1 Sample
Lab Sample ID: MB 410-229428/1-A Matrix: Water Analysis Batch: 230484 Analyte Chromium Lab Sample ID: LCS 410-229428/2-A Matrix: Water Analysis Batch: 230484 Analyte Chromium Lab Sample ID: MB 410-229432/1-A Matrix: Water Analysis Batch: 230482 Analyte Chromium Lab Sample ID: LCS 410-229432/2-A Matrix: Water	MB Result ND	MB Qualifier MB Qualifier	Spike Added 500	RL 15	LCS Result 520	MDL 1.6 Qual 1.6	Unit ug/L	Unit ug/L	C	Pr 03/02 lient 	repared 2/22 21:23 Sample <u>%Rec</u> 104 Client Sa repared 2/22 21:40 Sample	Ample ID: Metho Prep Type: ' Prep Batch Analyzed 03/04/22 22:56 ID: Lab Control Prep Type: ' Prep Batch %Rec. Limits 80 - 120 Ample ID: Metho Prep Type: ' Prep Batch 03/05/22 10:32 ID: Lab Control Prep Type: '	Di Blank Total/NA : 229428 Dil Fac 1 Sample Total/NA : 229428 Dil Fac 1 Sample Total/NA
Lab Sample ID: MB 410-229428/1-A Matrix: Water Analysis Batch: 230484 Analyte Chromium Lab Sample ID: LCS 410-229428/2-A Matrix: Water Analysis Batch: 230484 Analyte Chromium Lab Sample ID: MB 410-229432/1-A Matrix: Water Analysis Batch: 230482 Analyte Chromium Lab Sample ID: LCS 410-229432/2-A Matrix: Water Analysis Batch: 230482	MB Result ND MB Result ND	MB Qualifier MB Qualifier	Spike Added 500	RL 15	LCS Result 520	MDL 1.6 Qual	Unit ug/L lifier ug/L	Unit ug/L	D C	Pr 03/02 lient D 03/02 lient	repared 2/22 21:23 Sample <u>%Rec</u> 104 Client Sa repared 2/22 21:40 Sample	Ample ID: Metho Prep Type: ' Prep Batch	Di Blank Total/NA : 229428 Dil Fac 1 Sample Total/NA : 229428 Dil Fac 1 Sample Total/NA : 229432
Lab Sample ID: MB 410-229428/1-A Matrix: Water Analysis Batch: 230484 Analyte Chromium Lab Sample ID: LCS 410-229428/2-A Matrix: Water Analysis Batch: 230484 Analyte Chromium Lab Sample ID: MB 410-229432/1-A Matrix: Water Analysis Batch: 230482 Analyte Chromium Lab Sample ID: LCS 410-229432/2-A Matrix: Water Analysis Batch: 230482	MB Result ND	MB Qualifier MB Qualifier	Spike Added 500	RL 15	LCS Result 520	MDL 1.6 Qual 1.6 LCS	Unit ug/L lifier	Unit ug/L	C	Pr 03/02 lient D 03/02 lient	repared 2/22 21:23 Sample <u>%Rec</u> 104 Client Sa repared 2/22 21:40 Sample	Ample ID: Metho Prep Type: Prep Batch 03/04/22 22:56 ID: Lab Control Prep Type: Prep Batch %Rec. Limits 80 - 120 Ample ID: Metho Prep Type: Prep Batch 03/05/22 10:32 ID: Lab Control Prep Type: Prep Batch %Rec.	Di Blank Total/NA : 229428 Dil Fac 1 Sample Total/NA : 229428 Dil Fac 1 Sample Total/NA : 229432
Lab Sample ID: MB 410-229428/1-A Matrix: Water Analysis Batch: 230484 Analyte Chromium Lab Sample ID: LCS 410-229428/2-A Matrix: Water Analysis Batch: 230484 Analyte Chromium Lab Sample ID: MB 410-229432/1-A Matrix: Water Analysis Batch: 230482 Analyte Chromium Lab Sample ID: LCS 410-229432/2-A Matrix: Water Analysis Batch: 230482 Analysis Batch: 230482 Analyte	MB Result ND	MB Qualifier MB Qualifier	Spike Added 500 Spike Added	RL 15 RL 15	LCS Result 520 LCS Result	MDL 1.6 Qual 1.6 LCS Qual	Unit ug/L lifier	Unit ug/L	_ <u>D</u> C	Pr 03/02 lient lient	repared 2/22 21:23 Sample %Rec 104 Client Sa repared 2/22 21:20 Sample %Rec 2/22 21:20 Sample %Rec %Rec	Ample ID: Metho Prep Type: ' Prep Batch Analyzed 03/04/22 22:56 ID: Lab Control Prep Type: ' Prep Batch %Rec. Limits 80 - 120 Ample ID: Metho Prep Type: ' Prep Batch 03/05/22 10:32 ID: Lab Control Prep Type: ' Prep Batch %Rec. Limits	Di Blank Total/NA : 229428 Dil Fac 1 Sample Total/NA : 229428 Dil Fac 1 Sample Total/NA : 229432

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Method: 6010C - Metals (ICP)

loh	ın	410-74474-1
JDD	ID.	410-74474-1

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Lab Sample ID: 410-74474-1 M	IS							Clie	nt Sample	ID: 3T_()22822
Matrix: Water									Prep Iy	pe: Dis	solved
Analysis Batch: 230484	• •						Prep	Batch: 2	229427
	Sample	Sample	Spike	MS	MS		_	~ -	%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chromium	ND		500	521		ug/L		104	75 - 125		
Lab Sample ID: 410-74474-1 M	ISD							Clie	nt Sample	ID: 3T_(022822
Matrix: Water									Prep Ty	pe: Dis	solved
Analysis Batch: 230484									Prep	Batch: 2	229427
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chromium	ND		500	517		ug/L		103	75 - 125	1	20
Lab Sample ID: 410-74474-1 D	U							Clie	nt Sample	ID: 3T (022822
Matrix: Water	-								Pren Ty	ne: Dis	solved
Analysis Batch: 230484									Pren	Batch:	29427
	Sample	Sample		DU	DU						RPD
Analyte	Result	Qualifier		Result	Qualifier	Unit	D			RPD	Limit
Chromium		quamor	·		quamor						20
	ND			ND		ug/L				NO	20
Lab Sample ID: 410-74474-17	MS							Clien	t Sample II): 11T_()22822
Matrix: Water									Prep Ty	pe: Dis	solved
Analysis Batch: 230484									Prep	Batch: 2	229428
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chromium	ND		500	510		ug/L		102	75 - 125		
L ab Sample ID: 410, 74474, 17	MSD							Clion	t Sampla II	∙ 11Т (122822
Matrix: Water	WIGD							Clien	Drop Tu		solvod
Analysis Potch: 220494									Prop	pe. Dis Patabi (501VEU
Analysis Batch. 230404	Samplo	Sample	Spiko	Men	MED				% Poc	Daten. A	223420 DDD
Analyto	Bosult	Ouglifier	Spike	Bosult	Qualifier	Unit	п	% Poc	/intec.	PDD	Limit
Chromium	ND	Quanner	500	520	Quanner			104	75 125	2	20
	ND		000	020		ug/L		104	70-120	2	20
Lab Sample ID: 410-74474-17	DU							Clien	t Sample II	D: 11T_(022822
Matrix: Water									Prep Ty	pe: Dis	solved
Analysis Batch: 230484									Prep	Batch: 2	2 2942 8
	Sample	Sample		DU	DU						RPD
Analyte	Result	Qualifier		Result	Qualifier	Unit	D			RPD	Limit
Chromium	ND			ND		ug/L				NC	20
Lab Sample ID: 410-74474-33	MS							Clien	t Sample II	D: 19T_ (022822
Matrix: Water									Prep Ty	pe: Dis	solved
Analysis Batch: 230482									Prep	Batch: 2	229432
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chromium	ND		500	534		ug/L		107	75 - 125		
Lab Sample ID: 410-74474-33	MSD							Clien	t Sample II): 19T ()22822
Matrix: Water									Pren Tv	pe: Dis	solved
Analysis Batch: 230482									Pren	Batch:	229432
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chromium	ND		500	524		ug/L		105	75 - 125	2	20

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Method: 6010C - Metals (ICP)

Lab Sample ID: 410-74474-33 I Matrix: Water Analysis Batch: 230482	U						Client Sample ID Prep Ty Prep B): 19T_0 pe: Diss Batch: 2	22822 solved 29432
	Sample	Sample	DU	DU					RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D		RPD	Limit
Chromium	ND		 ND		ug/L			NC	20

QC Sample Results

Prep Batch: 229425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-74474-6	5B_022822	Dissolved	Water	Non-Digest Prep	
410-74474-8	6B_022822	Dissolved	Water	Non-Digest Prep	
410-74474-9	7T_022822	Dissolved	Water	Non-Digest Prep	
410-74474-10	7B_022822	Dissolved	Water	Non-Digest Prep	
410-74474-23	14T_022822	Dissolved	Water	Non-Digest Prep	
410-74474-25	15T_022822	Dissolved	Water	Non-Digest Prep	
410-74474-27	16T_022822	Dissolved	Water	Non-Digest Prep	
410-74474-30	17B_022822	Dissolved	Water	Non-Digest Prep	
MB 410-229425/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-229425/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Prep Batch: 229427

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
410-74474-1	3T_022822	Dissolved	Water	Non-Digest Prep	
410-74474-3	4T_022822	Dissolved	Water	Non-Digest Prep	
410-74474-5	5T_022822	Dissolved	Water	Non-Digest Prep	
410-74474-12	8B_022822	Dissolved	Water	Non-Digest Prep	
410-74474-14	9B_022822	Dissolved	Water	Non-Digest Prep	
410-74474-18	11B_022822	Dissolved	Water	Non-Digest Prep	
410-74474-19	12T_022822	Dissolved	Water	Non-Digest Prep	
410-74474-20	12B_022822	Dissolved	Water	Non-Digest Prep	
410-74474-21	13T_022822	Dissolved	Water	Non-Digest Prep	
410-74474-22	13B_022822	Dissolved	Water	Non-Digest Prep	
410-74474-24	14B_022822	Dissolved	Water	Non-Digest Prep	
410-74474-29	17T_022822	Dissolved	Water	Non-Digest Prep	
410-74474-31	18T_022822	Dissolved	Water	Non-Digest Prep	
410-74474-37	Cent T_022822	Dissolved	Water	Non-Digest Prep	
410-74474-38	Cent B_022822	Dissolved	Water	Non-Digest Prep	
410-74474-40	Lady B_022822	Dissolved	Water	Non-Digest Prep	
410-74474-43	D3_022822	Dissolved	Water	Non-Digest Prep	
410-74474-44	D4_022822	Dissolved	Water	Non-Digest Prep	
410-74474-46	RB1_022822	Dissolved	Water	Non-Digest Prep	
410-74474-47	RB2_022822	Dissolved	Water	Non-Digest Prep	
MB 410-229427/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-229427/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	
410-74474-1 MS	3T_022822	Dissolved	Water	Non-Digest Prep	
410-74474-1 MSD	3T_022822	Dissolved	Water	Non-Digest Prep	
410-74474-1 DU	3T_022822	Dissolved	Water	Non-Digest Prep	

Prep Batch: 229428

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
410-74474-2	3B_022822	Dissolved	vvater	Non-Digest Prep	
410-74474-4	4B_022822	Dissolved	Water	Non-Digest Prep	
410-74474-7	6T_022822	Dissolved	Water	Non-Digest Prep	
410-74474-11	8T_022822	Dissolved	Water	Non-Digest Prep	
410-74474-13	9T_022822	Dissolved	Water	Non-Digest Prep	
410-74474-15	10T_022822	Dissolved	Water	Non-Digest Prep	
410-74474-16	10B_022822	Dissolved	Water	Non-Digest Prep	
410-74474-17	11T_022822	Dissolved	Water	Non-Digest Prep	
410-74474-26	15B_022822	Dissolved	Water	Non-Digest Prep	
410-74474-28	16B_022822	Dissolved	Water	Non-Digest Prep	

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Prep Type

Dissolved

Dissolved

Dissolved

Dissolved

Dissolved

Dissolved

Dissolved

Dissolved

Total/NA

Total/NA

Dissolved

Dissolved

Matrix

Water

Method

Non-Digest Prep

Client Sample ID

18B_022822

19B_022822

20T_022822

20B_022822

D1_022822

D2_022822

FB_022822

Method Blank

11T 022822

11T_022822

Lab Control Sample

Lady T_022822

Metals (Continued)

Lab Sample ID

410-74474-32

410-74474-34

410-74474-35

410-74474-36

410-74474-39

410-74474-41

410-74474-42

410-74474-45

MB 410-229428/1-A

LCS 410-229428/2-A

410-74474-17 MS

410-74474-17 MSD

Prep Batch: 229428 (Continued)

Prep Batch

8

410-74474-17 DU	11T_022822	Dissolved	Water	Non-Digest Prep		
Prep Batch: 229432						
Lab Sample ID 410-74474-33	Client Sample ID 19T_022822	Prep Type Dissolved	Matrix Water	Method Non-Digest Prep	Prep Batch	
MB 410-229432/1-A LCS 410-229432/2-A	Method Blank Lab Control Sample	Total/NA Total/NA	Water Water	Non-Digest Prep Non-Digest Prep		13
410-74474-33 MS 410-74474-33 MSD	19T_022822 19T_022822	Dissolved Dissolved	Water Water	Non-Digest Prep Non-Digest Prep		
410-74474-33 DU	19T_022822	Dissolved	Water	Non-Digest Prep		

Analysis Batch: 229983

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
410-74474-6	5B_022822	Dissolved	Water	6010C	229425
410-74474-8	6B_022822	Dissolved	Water	6010C	229425
410-74474-9	7T_022822	Dissolved	Water	6010C	229425
410-74474-10	7B_022822	Dissolved	Water	6010C	229425
410-74474-23	14T_022822	Dissolved	Water	6010C	229425
410-74474-25	15T_022822	Dissolved	Water	6010C	229425
410-74474-27	16T_022822	Dissolved	Water	6010C	229425
410-74474-30	17B_022822	Dissolved	Water	6010C	229425
MB 410-229425/1-A	Method Blank	Total/NA	Water	6010C	229425
LCS 410-229425/2-A	Lab Control Sample	Total/NA	Water	6010C	229425

Analysis Batch: 230482

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
410-74474-33	19T_022822	Dissolved	Water	6010C	229432
MB 410-229432/1-A	Method Blank	Total/NA	Water	6010C	229432
LCS 410-229432/2-A	Lab Control Sample	Total/NA	Water	6010C	229432
410-74474-33 MS	19T_022822	Dissolved	Water	6010C	229432
410-74474-33 MSD	19T_022822	Dissolved	Water	6010C	229432
410-74474-33 DU	19T_022822	Dissolved	Water	6010C	229432

Analysis Batch: 230484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-74474-1	3T_022822	Dissolved	Water	6010C	229427
410-74474-2	3B_022822	Dissolved	Water	6010C	229428
410-74474-3	4T_022822	Dissolved	Water	6010C	229427
410-74474-4	4B_022822	Dissolved	Water	6010C	229428

Eurofins Lancaster Laboratories Env, LLC

Prep Type

Dissolved

Analysis Batch: 230484 (Continued)

Client Sample ID

5T_022822

Metals (Continued)

Lab Sample ID

410-74474-5

Method

6010C

Matrix

Water

Prep Batch 229427

8

410-74474-7	6T_022822	Dissolved	Water	6010C	229428
410-74474-11	8T_022822	Dissolved	Water	6010C	229428
410-74474-12	8B_022822	Dissolved	Water	6010C	229427
410-74474-13	9T_022822	Dissolved	Water	6010C	229428
410-74474-14	9B_022822	Dissolved	Water	6010C	229427
410-74474-15	10T_022822	Dissolved	Water	6010C	229428
410-74474-16	10B_022822	Dissolved	Water	6010C	229428
410-74474-17	11T_022822	Dissolved	Water	6010C	229428
410-74474-18	11B_022822	Dissolved	Water	6010C	229427
410-74474-19	12T_022822	Dissolved	Water	6010C	229427
410-74474-20	12B_022822	Dissolved	Water	6010C	229427
410-74474-21	13T_022822	Dissolved	Water	6010C	229427
410-74474-22	13B_022822	Dissolved	Water	6010C	229427
410-74474-24	14B_022822	Dissolved	Water	6010C	229427
410-74474-26	15B_022822	Dissolved	Water	6010C	229428
410-74474-28	16B_022822	Dissolved	Water	6010C	229428
410-74474-29	17T_022822	Dissolved	Water	6010C	229427
410-74474-31	18T_022822	Dissolved	Water	6010C	229427
410-74474-32	18B_022822	Dissolved	Water	6010C	229428
410-74474-34	19B_022822	Dissolved	Water	6010C	229428
410-74474-35	20T_022822	Dissolved	Water	6010C	229428
410-74474-36	20B_022822	Dissolved	Water	6010C	229428
410-74474-37	Cent T_022822	Dissolved	Water	6010C	229427
410-74474-38	Cent B_022822	Dissolved	Water	6010C	229427
410-74474-39	Lady T_022822	Dissolved	Water	6010C	229428
410-74474-40	Lady B_022822	Dissolved	Water	6010C	229427
410-74474-41	D1_022822	Dissolved	Water	6010C	229428
410-74474-42	D2_022822	Dissolved	Water	6010C	229428
410-74474-43	D3_022822	Dissolved	Water	6010C	229427
410-74474-44	D4_022822	Dissolved	Water	6010C	229427
410-74474-45	FB_022822	Dissolved	Water	6010C	229428
410-74474-46	RB1_022822	Dissolved	Water	6010C	229427
410-74474-47	RB2_022822	Dissolved	Water	6010C	229427
MB 410-229427/1-A	Method Blank	Total/NA	Water	6010C	229427
MB 410-229428/1-A	Method Blank	Total/NA	Water	6010C	229428
LCS 410-229427/2-A	Lab Control Sample	Total/NA	Water	6010C	229427
LCS 410-229428/2-A	Lab Control Sample	Total/NA	Water	6010C	229428
410-74474-1 MS	3T_022822	Dissolved	Water	6010C	229427
410-74474-1 MSD	3T_022822	Dissolved	Water	6010C	229427
410-74474-17 MS	11T_022822	Dissolved	Water	6010C	229428
410-74474-17 MSD	11T_022822	Dissolved	Water	6010C	229428
410-74474-1 DU	3T_022822	Dissolved	Water	6010C	229427
410-74474-17 DU	11T_022822	Dissolved	Water	6010C	229428

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Lab Sample ID: 410-74474-1

Lab Sample ID: 410-74474-2

Lab Sample ID: 410-74474-3

Lab Sample ID: 410-74474-4

Lab Sample ID: 410-74474-5

Lab Sample ID: 410-74474-6

2 3 4 5 6 7 8 8

Client Sample ID: 3T_022822 Date Collected: 02/28/22 10:07 Date Received: 03/01/22 16:45

-	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			229427	03/02/22 21:19	UJLA	ELLE
Dissolved	Analysis	6010C		1	230484	03/05/22 01:18	WBK6	ELLE

Client Sample ID: 3B_022822 Date Collected: 02/28/22 10:07 Date Received: 03/01/22 16:45

Γ	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			229428	03/02/22 21:23	UJLA	ELLE
Dissolved	Analysis	6010C		1	230484	03/05/22 00:29	WBK6	ELLE

Client Sample ID: 4T_022822

Date Collected: 02/28/22 10:11 Date Received: 03/01/22 16:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			229427	03/02/22 21:19	UJLA	ELLE
Dissolved	Analysis	6010C		1	230484	03/05/22 03:15	WBK6	ELLE

Client Sample ID: 4B_022822

Date Collected: 02/28/22 10:11

Date Received: 03/01/22 16:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			229428	03/02/22 21:23	UJLA	ELLE
Dissolved	Analysis	6010C		1	230484	03/05/22 00:49	WBK6	ELLE

Client Sample ID: 5T_022822

Date Collected: 02/28/22 10:13 Date Received: 03/01/22 16:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			229427	03/02/22 21:19	UJLA	ELLE
Dissolved	Analysis	6010C		1	230484	03/05/22 01:50	WBK6	ELLE

Client Sample ID: 5B_022822 Date Collected: 02/28/22 10:13 Date Received: 03/01/22 16:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			229425	03/02/22 21:16	UJLA	ELLE
Dissolved	Analysis	6010C		1	229983	03/04/22 01:57	WBK6	ELLE

Matrix: Water

Lab Sample ID: 410-74474-7

Lab Sample ID: 410-74474-10

Lab Sample ID: 410-74474-11

Lab Sample ID: 410-74474-12

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water 9 Lab Sample ID: 410-74474-9 Matrix: Water

Client Sample ID: 6T_022822 Date Collected: 02/28/22 10:17 Date Received: 03/01/22 16:45

	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analys	t Lab	
Dissolved	Prep	Non-Digest Prep			229428	03/02/22 21:23	UJLA	ELLE	
Dissolved	Analysis	6010C		1	230484	03/05/22 00:39	WBK6	ELLE	
Client Samp	le ID: 6B 02	2822						Lab Sample ID: 410-7447	74

Client Sample ID: 6B_022822 Date Collected: 02/28/22 10:17

Date	Received:	03/01/22	16:45
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_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			229425	03/02/22 21:13	UJLA	ELLE
Dissolved	Analysis	6010C		1	229983	03/04/22 01:47	WBK6	ELLE

Client Sample ID: 7T_022822

Date Collected: 02/28/22 10:20 Date Received: 03/01/22 16:45

Γ	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			229425	03/02/22 21:16	UJLA	ELLE
Dissolved	Analysis	6010C		1	229983	03/04/22 02:01	WBK6	ELLE

Client Sample ID: 7B_022822

Date Collected: 02/28/22 10:20

Date Received: 03/01/22 16:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			229425	03/02/22 21:16	UJLA	ELLE
Dissolved	Analysis	6010C		1	229983	03/04/22 01:54	WBK6	ELLE

Client Sample ID: 8T_022822

Date Collected: 02/28/22 10:23 Date Received: 03/01/22 16:45

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			229428	03/02/22 21:23	UJLA	ELLE
Dissolved	Analysis	6010C		1	230484	03/04/22 23:51	WBK6	ELLE

Client Sample ID: 8B_022822 Date Collected: 02/28/22 10:23 Date Received: 03/01/22 16:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			229427	03/02/22 21:19	UJLA	ELLE
Dissolved	Analysis	6010C		1	230484	03/05/22 03:08	WBK6	ELLE

Matrix: Water

Matrix: Water

Lab Sample ID: 410-74474-13

Lab Sample ID: 410-74474-14

Lab Sample ID: 410-74474-16

Lab Sample ID: 410-74474-17

Lab Sample ID: 410-74474-18

Client Sample ID: 9T_022822 Date Collected: 02/28/22 10:25 Date Received: 03/01/22 16:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			229428	03/02/22 21:23	UJLA	ELLE
Dissolved	Analysis	6010C		1	230484	03/05/22 00:46	WBK6	ELLE

Client Sample ID: 9B_022822 Date Collected: 02/28/22 10:25

Date Received: 03/01/22 16:45

Γ		Batch	Batch		Dilution	Batch	Prepared		
Prep	Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Disso	olved	Prep	Non-Digest Prep			229427	03/02/22 21:19	UJLA	ELLE
Disso	blved	Analysis	6010C		1	230484	03/05/22 03:12	WBK6	ELLE

Client Sample ID: 10T_022822

Lab Sample ID: 410-74474-15 Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Date Collected: 02/28/22 10:28 Date Received: 03/01/22 16:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			229428	03/02/22 21:23	UJLA	ELLE
Dissolved	Analysis	6010C		1	230484	03/04/22 23:45	WBK6	ELLE

Client Sample ID: 10B_022822

Date Collected: 02/28/22 10:28

Date Received: 03/01/22 16:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			229428	03/02/22 21:23	UJLA	ELLE
Dissolved	Analysis	6010C		1	230484	03/05/22 00:10	WBK6	ELLE

Client Sample ID: 11T_022822

Date Collected: 02/28/22 10:36 Date Received: 03/01/22 16:45

Jale Neceiveu	. 03/01/22 10.4	5						
-	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			229428	03/02/22 21:23	UJLA	ELLE
Dissolved	Analysis	6010C		1	230484	03/04/22 23:03	WBK6	ELLE

Client Sample ID: 11B_022822 Date Collected: 02/28/22 10:36 Date Received: 03/01/22 16:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			229427	03/02/22 21:19	UJLA	ELLE
Dissolved	Analysis	6010C		1	230484	03/05/22 02:26	WBK6	ELLE

ate Collected	l: 02/28/22 10:4	40							Matrix: Water
ate Received	: 03/01/22 16:4	45							
-	Batch	Batch		Dilution	Batch	Prepared			
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Dissolved	Prep	Non-Digest Prep			229427	03/02/22 21:19	UJLA	ELLE	

1

230484 03/05/22 02:36 WBK6

Client Sample ID: 12B_022822 Date Collected: 02/28/22 10:40 Date Received: 03/01/22 16:45

Analysis

6010C

Dissolved Dissolved

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			229427	03/02/22 21:19	UJLA	ELLE
Dissolved	Analysis	6010C		1	230484	03/05/22 02:46	WBK6	ELLE

Client Sample ID: 13T_022822

Date Collected: 02/28/22 10:42

Date	Received:	03/01/22	16:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			229427	03/02/22 21:19	UJLA	ELLE
Dissolved	Analysis	6010C		1	230484	03/05/22 02:07	WBK6	ELLE

Client Sample ID: 13B_022822

Date Collected: 02/28/22 10:42

Date Received: 03/01/22 16:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			229427	03/02/22 21:19	UJLA	ELLE
Dissolved	Analysis	6010C		1	230484	03/05/22 03:05	WBK6	ELLE

Client Sample ID: 14T_022822

Date Collected: 02/28/22 10:45 Date Received: 03/01/22 16:45

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			229425	03/02/22 21:16	UJLA	ELLE
Dissolved	Analysis	6010C		1	229983	03/04/22 02:04	WBK6	ELLE

Client Sample ID: 14B_022822 Date Collected: 02/28/22 10:45 Date Received: 03/01/22 16:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			229427	03/02/22 21:19	UJLA	ELLE
Dissolved	Analysis	6010C		1	230484	03/05/22 01:57	WBK6	ELLE

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Lab Sample ID: 410-74474-19

Lab Sample ID: 410-74474-20

Lab Sample ID: 410-74474-21

Lab Sample ID: 410-74474-22

Lab Sample ID: 410-74474-23

Lab Sample ID: 410-74474-24

ELLE

9

Jate Received	: 03/01/22 16:4	5						
-	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			229425	03/02/22 21:16	UJLA	ELLE
Dissolved	Analysis	6010C		1	229983	03/04/22 01:51	WBK6	ELLE

Client Sample ID: 15B_022822 Date Collected: 02/28/22 10:47 Date Received: 03/01/22 16:45

Γ	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			229428	03/02/22 21:23	UJLA	ELLE
Dissolved	Analysis	6010C		1	230484	03/05/22 00:36	WBK6	ELLE

Client Sample ID: 16T_022822

Date Collected: 02/28/22 10:50

Date	Rece	ived:	03/0	1/22 [·]	16:45

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			229425	03/02/22 21:13	UJLA	ELLE
Dissolved	Analysis	6010C		1	229983	03/04/22 01:40	WBK6	ELLE

Client Sample ID: 16B_022822

Date Collected: 02/28/22 10:50

Date Received: 03/01/22 16:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			229428	03/02/22 21:23	UJLA	ELLE
Dissolved	Analysis	6010C		1	230484	03/04/22 23:42	WBK6	ELLE

Client Sample ID: 17T_022822

Date Collected: 02/28/22 10:53 Date Received: 03/01/22 16:45

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			229427	03/02/22 21:19	UJLA	ELLE
Dissolved	Analysis	6010C		1	230484	03/05/22 01:54	WBK6	ELLE

Client Sample ID: 17B_022822 Date Collected: 02/28/22 10:53 Date Received: 03/01/22 16:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			229425	03/02/22 21:13	UJLA	ELLE
Dissolved	Analysis	6010C		1	229983	03/04/22 01:44	WBK6	ELLE

Job ID: 410-74474-1

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Lab Sample ID: 410-74474-25

Lab Sample ID: 410-74474-27

Lab Sample ID: 410-74474-28

Lab Sample ID: 410-74474-29

Lab Sample ID: 410-74474-30

	•						
Batch	Batch		Dilution	Batch	Prepared		
Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Prep	Non-Digest Prep			229427	03/02/22 21:19	UJLA	ELLE
Analysis	6010C		1	230484	03/05/22 02:10	WBK6	ELLE
	Batch Type Prep Analysis	Batch Batch Type Method Prep Non-Digest Prep Analysis 6010C	Batch Batch Type Method Run Prep Non-Digest Prep Analysis 6010C	Batch Batch Dilution Type Method Run Factor Prep Non-Digest Prep 1	BatchBatchDilutionBatchTypeMethodRunFactorNumberPrepNon-Digest Prep229427Analysis6010C1230484	BatchBatchDilutionBatchPreparedTypeMethodRunFactorNumberor AnalyzedPrepNon-Digest Prep22942703/02/22 21:19Analysis6010C123048403/05/22 02:10	Batch Batch Dilution Batch Prepared Type Method Run Factor Number or Analyzed Analyst Prep Non-Digest Prep 229427 03/02/22 21:19 UJLA Analysis 6010C 1 230484 03/05/22 02:10 WBK6

Client Sample ID: 18B_022822 Date Collected: 02/28/22 10:56 Date Received: 03/01/22 16:45

Γ	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			229428	03/02/22 21:23	UJLA	ELLE
Dissolved	Analysis	6010C		1	230484	03/04/22 23:38	WBK6	ELLE

Client Sample ID: 19T_022822

Date Collected: 02/28/22 11:00

Date	Rece	ived:	03/0	1/22 [·]	16:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			229432	03/02/22 21:40	UJLA	ELLE
Dissolved	Analysis	6010C		1	230482	03/05/22 10:38	WBK6	ELLE

Client Sample ID: 19B_022822

Date Collected: 02/28/22 11:00

Date Received: 03/01/22 16:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			229428	03/02/22 21:23	UJLA	ELLE
Dissolved	Analysis	6010C		1	230484	03/05/22 01:09	WBK6	ELLE

Client Sample ID: 20T_022822

Date Collected: 02/28/22 11:13 Date Received: 03/01/22 16:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			229428	03/02/22 21:23	UJLA	ELLE
Dissolved	Analysis	6010C		1	230484	03/05/22 00:14	WBK6	ELLE

Client Sample ID: 20B_022822 Date Collected: 02/28/22 11:13 Date Received: 03/01/22 16:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			229428	03/02/22 21:23	UJLA	ELLE
Dissolved	Analysis	6010C		1	230484	03/05/22 00:53	WBK6	ELLE

Job ID: 410-74474-1

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Lab Sample ID: 410-74474-32

Lab Sample ID: 410-74474-33

Lab Sample ID: 410-74474-34

Lab Sample ID: 410-74474-35

Lab Sample ID: 410-74474-36

Dilution

Factor

Dilution

Factor

1

1

Run

Run

Batch

Number 229427

230484

Batch

Number

229427

230484

Client Sample ID: Cent T_022822

Batch

Туре

Prep

Analysis

Batch

Method

6010C

Non-Digest Prep

Date Collected: 02/28/22 10:04 Date Received: 03/01/22 16:45

Date Collected: 02/28/22 10:04 Date Received: 03/01/22 16:45

Prep Type

Dissolved

Dissolved

Lab Sample ID: 410-74474-37

			Matrix: Water	
Prepared				
or Analyzed	Analyst	Lab		5
03/02/22 21:19	UJLA	ELLE	_	
03/05/22 02:33	WBK6	ELLE		
	Lal	o Sample	ID: 410-74474-38	
			Matrix: Water	
				8
Prepared				
or Analyzed	Analyst	Lab	_	9
03/02/22 21:19	UJLA	ELLE		
03/05/22 02:39	WBK6	ELLE		
	Lal	o Sample	ID: 410-74474-39	
			Matrix: Water	
Prepared				
or Analyzed	Analyst	Lab		13
03/02/22 21:23	UJLA	ELLE	_	
03/05/22 00:33	WBK6	ELLE		
	Lal	o Sample	ID: 410-74474-40	
			Matrix: Water	
Droparad				
Prepared	Analyst	l e b		
			_	
03/02/22 21:19	UJLA	ELLE		
03/05/22 02:43	WBK6	ELLE		
	Lal	o Sample	ID: 410-74474-41	
			Matrix: Water	

Batch Batch Ргер Туре Туре Method Dissolved Prep Non-Digest Prep Dissolved 6010C

Client Sample ID: Cent B_022822

Client Sample ID: Lady T_022822

Analysis

Date Collected: 02/28/22 09:57 Date Received: 03/01/22 16:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			229428	03/02/22 21:23	UJLA	ELLE
Dissolved	Analysis	6010C		1	230484	03/05/22 00:33	WBK6	ELLE

Client Sample ID: Lady B_022822

Date Collected: 02/28/22 09:57

Date Received: 03/01/22 16:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			229427	03/02/22 21:19	UJLA	ELLE
Dissolved	Analysis	6010C		1	230484	03/05/22 02:43	WBK6	ELLE

Client Sample ID: D1 022822

Date Collected: 02/28/22 10:13 Date Received: 03/01/22 16:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			229428	03/02/22 21:23	UJLA	ELLE
Dissolved	Analysis	6010C		1	230484	03/04/22 23:35	WBK6	ELLE

Client Sample ID: D2_022822 Date Collected: 02/28/22 10:36 Date Received: 03/01/22 16:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			229428	03/02/22 21:23	UJLA	ELLE
Dissolved	Analysis	6010C		1	230484	03/05/22 00:43	WBK6	ELLE

Lab Sample ID: 410-74474-42

Matrix: Water

Dilution

Factor

Dilution

Factor

1

1

Run

Run

Batch

Number

229427

230484

Batch

Number

229427

230484

Prepared

or Analyzed

03/02/22 21:19

03/05/22 02:49

Prepared

or Analyzed

03/02/22 21:19

03/05/22 02:04

Analyst

UJLA

WBK6

Analyst

UJLA

WBK6

Lab

ELLE

ELLE

Lab

ELLE

ELLE

Batch

Туре

Prep

Analysis

Batch

Туре

Prep

Analysis

Batch

Method

6010C

Batch

Method

6010C

Non-Digest Prep

Non-Digest Prep

Client Sample ID: D4_022822

Date Collected: 02/28/22 11:00

Date Received: 03/01/22 16:45

Prep Type

Dissolved

Dissolved

Ргер Туре

Dissolved

Dissolved

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Lab	Sample	ID:	410-744	74-43
			Matrix:	Water

Lab Sample ID: 410-74474-44

Lab Sample ID: 410-74474-45

Lab Sample ID: 410-74474-46

Lab Sample ID: 410-74474-47

Client Sample ID: FB_022822 Date Collected: 02/28/22 10:32

Date Received: 03/01/22 16:45

Γ	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			229428	03/02/22 21:23	UJLA	ELLE
Dissolved	Analysis	6010C		1	230484	03/04/22 23:48	WBK6	ELLE

Client Sample ID: RB1_022822

Date Collected: 02/28/22 10:33

Date Received: 03/01/22 16:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			229427	03/02/22 21:19	UJLA	ELLE
Dissolved	Analysis	6010C		1	230484	03/05/22 02:29	WBK6	ELLE

Client Sample ID: RB2_022822

Date Collected: 02/28/22 11:09 Date Received: 03/01/22 16:45

_									
	Batch	Batch		Dilution	Batch	Prepared			
Prep Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Dissolved	Prep	Non-Digest Prep			229427	03/02/22 21:19	UJLA	ELLE	
Dissolved	Analysis	6010C		1	230484	03/05/22 02:01	WBK6	ELLE	

Laboratory References:

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

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Laboratory: Eurofins Lancaster Laboratories Env, LLC Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below. Authority Identification Number Expiration Date Program Maryland 100 06-30-22 State 5 6 7 The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. Analysis Method Prep Method Matrix Analyte 6010C Water Non-Digest Prep Chromium

Eurofins Lancaster Laboratories Env, LLC

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

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	ELLE
Non-Digest Prep	Preparation, Non-Digested Aqueous Metals	EPA	ELLE
Protocol Refer	ences:		
EPA = US E	Invironmental Protection Agency		
SW846 = "T	est Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition	n, November 1986 And Its Updates.	
Laboratory Ref	ierences:		
	ofine Langaster Laboratorias Env. LLC, 2425 New Helland Dike, Langaster, DA 1760	1 TEL (717)656-2300	

Eurofins Lancaster Laboratories Env, LLC

Sample Summary

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

Droject/Site: B	ell International Inc				JOD ID: 410-74474-1	
Floject/Site. Da						
Lab Sample ID	Client Sample ID	Matrix	Collected	Received		
410-74474-1	3T_022822	Water	02/28/22 10:07	03/01/22 16:45		
410-74474-2	3B_022822	Water	02/28/22 10:07	03/01/22 16:45		
410-74474-3	4T_022822	Water	02/28/22 10:11	03/01/22 16:45		5
410-74474-4	4B_022822	Water	02/28/22 10:11	03/01/22 16:45		
410-74474-5	5T_022822	Water	02/28/22 10:13	03/01/22 16:45		
410-74474-6	5B_022822	Water	02/28/22 10:13	03/01/22 16:45		
410-74474-7	6T_022822	Water	02/28/22 10:17	03/01/22 16:45		
410-74474-8	6B_022822	Water	02/28/22 10:17	03/01/22 16:45		
410-74474-9	7T_022822	Water	02/28/22 10:20	03/01/22 16:45		0
410-74474-10	7B_022822	Water	02/28/22 10:20	03/01/22 16:45		ŏ
410-74474-11	8T_022822	Water	02/28/22 10:23	03/01/22 16:45		
410-74474-12	8B_022822	Water	02/28/22 10:23	03/01/22 16:45		9
410-74474-13	9T_022822	Water	02/28/22 10:25	03/01/22 16:45		
410-74474-14	9B_022822	Water	02/28/22 10:25	03/01/22 16:45		
410-74474-15	10T_022822	Water	02/28/22 10:28	03/01/22 16:45		
410-74474-16	10B_022822	Water	02/28/22 10:28	03/01/22 16:45		
410-74474-17	11T_022822	Water	02/28/22 10:36	03/01/22 16:45		
410-74474-18	11B_022822	Water	02/28/22 10:36	03/01/22 16:45		12
410-74474-19	12T_022822	Water	02/28/22 10:40	03/01/22 16:45		
410-74474-20	12B_022822	Water	02/28/22 10:40	03/01/22 16:45		12
410-74474-21	13T_022822	Water	02/28/22 10:42	03/01/22 16:45		
410-74474-22	13B_022822	Water	02/28/22 10:42	03/01/22 16:45		
410-74474-23	14T_022822	Water	02/28/22 10:45	03/01/22 16:45		
410-74474-24	14B_022822	Water	02/28/22 10:45	03/01/22 16:45		
410-74474-25	15T_022822	Water	02/28/22 10:47	03/01/22 16:45		
410-74474-26	15B_022822	Water	02/28/22 10:47	03/01/22 16:45		
410-74474-27	16T_022822	Water	02/28/22 10:50	03/01/22 16:45		
410-74474-28	16B_022822	Water	02/28/22 10:50	03/01/22 16:45		
410-74474-29	17T_022822	Water	02/28/22 10:53	03/01/22 16:45		
410-74474-30	17B_022822	Water	02/28/22 10:53	03/01/22 16:45		
410-74474-31	18T_022822	Water	02/28/22 10:56	03/01/22 16:45		
410-74474-32	18B_022822	Water	02/28/22 10:56	03/01/22 16:45		
410-74474-33	19T_022822	Water	02/28/22 11:00	03/01/22 16:45		
410-74474-34	19B_022822	Water	02/28/22 11:00	03/01/22 16:45		
410-74474-35	20T_022822	Water	02/28/22 11:13	03/01/22 16:45		
410-74474-36	20B_022822	Water	02/28/22 11:13	03/01/22 16:45		
410-74474-37	Cent T_022822	Water	02/28/22 10:04	03/01/22 16:45		
410-74474-38	Cent B_022822	Water	02/28/22 10:04	03/01/22 16:45		
410-74474-39	Lady T_022822	Water	02/28/22 09:57	03/01/22 16:45		
410-74474-40	Lady B_022822	Water	02/28/22 09:57	03/01/22 16:45		
410-74474-41	D1_022822	Water	02/28/22 10:13	03/01/22 16:45		
410-74474-42	D2_022822	Water	02/28/22 10:36	03/01/22 16:45		
410-74474-43	D3_022822	Water	02/28/22 10:50	03/01/22 16:45		
410-74474-44	D4_022822	Water	02/28/22 11:00	03/01/22 16:45		
410-74474-45	FB_022822	Water	02/28/22 10:32	03/01/22 16:45		
410-74474-46	 RB1_022822	Water	02/28/22 10:33	03/01/22 16:45		
410-74474-47	RB2_022822	Water	02/28/22 11:09	03/01/22 16:45		



Lancas 2425 New	ster Labo Holland Pil	oratories •	3			Hor		oll	Chain	Of C	usto	dy / /	Anal	ysis	Requ	est								AÉSI Ref:	44620.34345 30905-102620-1
Lancaster (717) 656-	r, PA 17605- 2300	2425			Privileged &	Confident						-	-	Baltin		ar Harb	or			-			{	Lab Proj # (SDG):	
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1	ЗТ	0.00	1.45	3T_022822	2/28/2022	1007	w-sw	WATER	REG	4	grab	Y	x										x		
2-	3M			3M-022822	-2121-1121022		W-SW	WATER	REG		grab	-	-			-		+					_		-
3	38	DILE	1.45	3B_022822	2/28/2022	1007	w-sw	WATER	REG	1	grab	Y	x												
4	4T	000	1.75	4T_022822	2/28/2022	1011	w-sw	WATER	REG	1	grab	Y	x												
5				4M_022822	2/28/2022		w-sw	WATER	REG		grab										-		-		
6	48	0.75	1.75	4B_022822	2/28/2022	1011	w-sw	WATER	REG	1	grab	Y	x												
7	5T	0.00	1.68	5T_022822	2/28/2022	1013	W-SW	WATER	REG	1	grab	Y	X												
8	MC				2/28/2022		W-SW	WATER	REG	-	grab							-	-	-					
9	5B	0.68	1.68	5B_022822	2/28/2022	1013	w-sw	WATER	REG	1	grab	Y	x												
10	6T	0.00	3,50	6T_022822	2/28/2022	[10]]	w-sw	WATER	REG	1	grab	Y	X												
11				5M-022829	2/28/2022	-	W.SW	WATER	REG		grab					-						_			
12	6B	2.50	3.20	6B_022822	2/28/2022	1017	w-sw	WATER	REG	1	grab	Y	X												
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1	71	0.06	1.46	7T 022822	2/28/2022	1020	w-sw	WATER	REG	1	grab	Ιγ	X						-		-					
-	ZM	_		7M-022822	2/28/2022		WISW	WATER	REG		-orab			-	-					-	-	-				
13	78	0.46	1.44	7B 022822	2/28/2022	IDTA	W-SW	WATER	REG	1	nrab	V V	X	1	1				-	1	1					
	8T	6.00	3.44	8T 022822	2/28/2022	1023	W-SW	WATER	REG	1	orab	Y	X	-			+		1	-	1	1				
A	BM			-8M-022822	2/28/2022		WSW	WATER	REG		orab		-		-		-	-	-	1-	1					
1 B	88	2.44	3.44	88 022822	2/28/2022	1073	W-SW	WATER	REG	1 1	orab	Y	X	1	1		-		1	1		t				
7	97	0.00	2.77	9T 022822	2/28/2022	1025	W-SW	WATER	REG	1	grab	Y	X				+		1	-	1	<u> </u>				
8	-9M		·	9M 022822	2/28/2022	-	w-sw	WATER	REG		arab			-	-				-	-	-	-				
1.9	98	1.11	2.17	9B 022822	2/28/2022	1025	W-SW	WATER	REG	1	orab	Y	X	1												
10	10T	0.00	2.04	10T 022822	2/28/2022	1028	W-SW	WATER	REG	1	orab	Y	X	1			+	1	+	-	1					
44	1014			10M_022822	2/28/2022		WSW	WATER	REG	1	-orab.							_		-	-	-				
12	10B	1.04	2.04	108_022822	2/28/2022	1028	W-SW	WATER	REG	1	grab	Y	X	1			1	1	-	1	1					
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Re	linguisted by	1011		Compan	MME	5	Received by		M		1			Co	тралу			Cor	dition		-	- (Custo	dy Se	als Intact	
	220	-344	TI	Date/Time	31122	1043	Low		31/22	- /	0.9	30	Date/T	ime			_	Coc	oler Ter	πp.	3	0.2	9			
Pro	eservatives: (Othe	r; Specify)	12				4Deg C); 11 (4	C NaOH (pH	>12) & Ascor	rbic Acid), 12 (40	H2SO	4 (pH<	2) & N	a2S2O); 13 (Zn	Aceta	le), sp (sp	ecial in	structio	ins)					
	Julh	3	11/2	2 16:25	(24	N	2		31	12	21	0	45												

La	ncaster Labo	oratories	;	A CONTRACTOR OF																						AESI Ref:	44620.34557
242	5 New Holland Pil	ke			I H	one	ywe		Chain	Of C	usto	dy / /	Anal	ysis	Req	uest										COC#	30905-102620
Lan	caster, PA 17605-	-2425					-														_				_		
(717	7) 656-2300				Privileged &	Confident	ial	N			Site I	Name:		Baltin	nore l	nner H	arbo	r		Phase	:					Lab Proj # (SDG):	
Sar	mpling Co.:	Maryland	Environm	antal Service	EDD To:		Bryn Hansen	@jacobs.co	m		Loca	tion of	Site:	BALT	IMOR	E. MD				Progr	am	Suna		1101		Lab ID	ш
Clie	ent Contact: (n	ame, co.,	address	3)	Sampler:	1					1					T										Site ID	BALTIMORE
Mari	a Kaouris				PO #	45000138	106				Prese	vative	3													Lab Job #	
115	Tabor Rd				Analysis T	urnaround	Time (TAT):		7			~														Authorized User:	Honeyweli
Mor	ris Plains, NJ 0795	50				Consultar	11		CH2M			e d									-						
Prei	liminary Data Te	bernice k	gillis@iaco i≤d@iacob	is com: CJVALIDATA@msn.com is com:							4	Sam	Ę													Test & Excel File Drive	Excel & Text File Order
San	ple Receipt	matthew	qillis@jaco	bs com CJVALIDATA@msn com							- U		E									1					
Har	d Copy To	Amy Klop	per		FL	Full Report TAT: 14																		1			
Invo	oice To:	Maria Ka	ouris		Same la		I Formula	-	I. Vamala	1 # 01	1 g	E T	010												USD I	Copyright AESI: Version	\triangle
		Sam	le Identifi	cation	Date	Time	Туре	Matrix	Purpose	Cont.	Con	Field	SWB												MS/I	8.0 Unauthorized use strictly prohibited.	
	Location ID	Depth (ft)	End Depth (ft)	Field Sample ID	Date Time Type Matrix Purpose Cont. S to S . S . S . S . S . S . S . S . S . S										Sampling Method (code)	Lab Sample Numbers											
1	11T	0.00	2.00	11T 022822	Units Units X 2/28/2022 103 / w.sw WATER REG 4 grab Y X X X																						
-	TTRA	~		1164-000097	2/28/2022 IO3 /w W-SW WATER REG 4 grab Y X X 2/28/2022 W-SW WATER REG grab Y X X X																						
1	118	1.00	2:00	118 022822	2/28/2022	1026	W.SW	WATER	REG	1	orab	V	×														
	12T	0.00	1.67	12T 022822	2/28/2022	INUD	w.sw	WATER	REG	1	orab	Y	x														
Ę			113 C	1214 022822	2/28/2000	1.0	141-0141	WATER	REO		-						_		-		-			-			
\vdash	1214	- 17	117	1210-022022	212012022	INIO	1.31		REG		grad					-	-					-					
6	128	0,62	1.62	128_022822	2/28/2022	1010	W-SW	WATER	REG	1	grab	+ Y	X												-		
7	13T	0.00	500	13T_022822	2/28/2022	1046	W-SW	WATER	REG	1	grab	Y	X				_		_								
-8-	-13M			13M_022822	2/28/2022		-W-SW	WATER	REG		grab		-						_								
9	138	2.06	3.06	138_022822	2/28/2022	1042	W-SW	WATER	REG	1	grab	Y	X											<u> </u>			
10	14T	0.00	1.65	14T_022822	2/28/2022	1045	w-sw	WATER	REG	1	grab	Y	X									L					
IT	14M			14M_022822	2/28/2022-		w-sw-	WATER	REG		grab		-	-		-			-		~						
12	14B	0.65	1.65	14B_022822	2/28/2022	1045	w-sw	WATER	REG	1	grab	Y	X														
												_				_											
Rel	inquished by			Compan	Me Me	5	Received by					M	E	Scor	npany			1	Condi	tion				Cust	ody Se	eals Intact	
	Rebech	Kher	xhu	Date/Time	2/28/2	21545	WY	XH1	+		-	212	Date/	TZ /	154	5		C	Coole	r Tem	p.						
Rel	inquicied by	1.1.1		Compan	Y ME	5	Received by		Y	1		43		Сол	npany			0	Condi	tion				Cust	ody Se	als Intact	
	NYB 1	AKT	-	Date/Time	31122	1042			3/11	22 /	10:	7 0	Date/T	me				0	Coole	r Tem	p.	13.	0.3.	₽			
Pre	servatives: (Othe	r; Specify)			4Deg C): 11 (4C NaOH (pH>12								04 (pH	<2) & N	a2520	3); 13 (Zn Ac	ctate); s	p (sp	cial in:	structi	ions)					

CL

Joll 3/1/22 16:25 Aul 3/1/22 16:45

Land	aster Lab	oratorie	S							~ ~ ~					-							-			AESI Ref:	44620.34589
2425 N	lew Holland Pi	ke 2426				one	ywe		Chain	OfC	usto	dy /	Anal	ysis	Keq	uest									COC#	30905-102620-4
(717) (56-2300	-2423			Deballe and R	Canfidant	1-1		1	-	1			D - M					1		I		_	-	Lab Proi # (SDG):	
-		1			Privileged &	Conident		N			Site	lame:	_	Darun	nore n	ner m	roor	-	Phas	e: bling	Surfa	ce W	ater		Lah ID	111
Sam	ling Co.:	Maryland	Environme	ntal Service	EDD To:	,	Bryn Hansen	@jacobs.co	200		Loca	tion of	Site:	BALT	IMOR	E, MD	_		Prog	ram	Samp	ling			200 ID	
Clien	t Contact: (r	name, co.	address)	Sampler:	<u> </u>							<u> </u>					_							Site ID	BALTIMORE
Maria	Caouris				PO#	45000138	IO6		7		Preser	vative	3				-			_					Lab Job #	Unanavall
Morris	Plains, NJ 079	50			Analysis II	Consultar	nt (IAI).		CH2M																Authorized User:	noneywell
Prolim	inary Data To	matthew.	gilis@jacot	bs.com;								~							1						Text & Excel File Drive	Excel & Text File
Samo	- Waralat	C IVAL ID	ATAmmen nillis@incol	nom: hamina kidd@ianohe.com hs.com:							-	ple														Order
Ackno	wiedgement T	· CJVALID	ATA@msn	com: bernice kidd@jacobs.com;							9	me	E													
Hard (Сору То	Amy Klop	oper		Fu	Il Report 1	TAT:		14		Gra	Pa	Ĕ													
Invoic	e To:	Maria Ka	ouris	<u> </u>							site	Iter	6								1 1		1			•
		Sam	ale Identific	ation	Sample Date	Sample	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Compo	Field Fi	SW6010												Copyright AESI; Version 8.0 Unsuthorized use strictly prohibited.	(¥)
		Start	End																							
	ocation ID	Depth (ft)	Depth (ft)	Field Sample ID							Units														Sampling Method (code)	Lab Sample Numbers
1	15T	0.00	1,00	15T 022822	2/28/2022	1047	w-sw	WATER	REG	1	grab	Y	x													
2	15M			15M_022822	2/28/2022		W-SW	WATER	REG		grab															
3	15B	0.50	1.00	15B_022822	2/28/2022	1047	w-sw	WATER	REG	1	grab	Y	x										1			
4	16T	0.00	7.21	16T_022822	2/28/2022	1050	w-sw	WATER	REG	1	grab	Y	x													
.5-	TBM			16M 022622	-2/20/2022		w-sw-	WATER	REG		grab	+														and the second sec
6	168	6,21	7.21	16B_022822	2/28/2022	1050	w-sw	WATER	REG	1	grab	Y	x													
7	17T	0.00	1.00	17T_022822	2/28/2022	1053	W-SW	WATER	REG	1	grab	Y	x													
8-	17M			17M_022822	2/28/2022		w-sw-	WATER	REG		grab				-	-						_	-	-		
9	178	6.50	1.00	17B_022822	2/28/2022	1053	w-sw	WATER	REG	1	grab	Y	×													
10	18T	0.00	6.84	18T_022822	2/28/2022	1054	w-sw	WATER	REG	1	grab	Y	x						-							
14-	16M			18M_022822	2/28/2022		W-STW	WATER	REG		grab		-													
12	18B	5.84	6.84	18B_022822	2/28/2022	1056	w-sw	WATER	REG	1	grab	Y	x													
Relinc	uished by			Compan	VI VIES		Received by				_	N	1E	Com	pany	_		Con	dition				Cust	ody S	eals intact	
1	Locea	Vrak	her	Date/Time	21282	2 1545	66.1	L	T-V	_	2	128	Date/Ti		UK			Coo	ler Ten	۱p.	-	-				
Relino	uished by			Compan	WARE	3	Received by	2.1	1000			1	<u> 1</u>	Com	pany			Con	dition				Cust	ody S	eals Intact	
In	111-	YH	A.	Date/Time	3/13	2104	1	Joll	- 3	1/2	1 10	:45	Date/Ti	me				Coo	ler Ten	np.	3.0,	3.5				
Prese	rvatives: (Othe	er; Specify)					0 (none); 1 (4 ((pH<2), 4Dec)	Deg C); 2 (H C); 11 (4C N	CI pH<2); 3 (aOH (pH>12	(HNO3 p	H<2); 4	(H2SO	4 pH<2 4C H25); 5 (Na 504 (pH	OH pH	>12); 6	(NaOH, 3); 13 (Zn Aceta	ate); 7 (ite); so (H2SO	4 (pH<2 il instru	2), 4 D	leg C))	; 8 (HC	3 pH<2); 9 (HCl 4 Deg C	;); 10 (HNO3
				L 3/1/22	16:25	-	afr	\mathcal{N}		31	12	2 (1	00	45	-								<u> </u>			
							-						CL													

Lancaster Labo	oratories	S						Ohala	~					Deer										AESI Ref:	44620.34624
425 New Holland Pik	2425				one	ywei		Chain	UTCI	ustoc	ay / A	Analy	ysis	Requ	est									COC#	30905-10262
717) 656-2300	2423											-	-										-	Lab Proi # (SDG):	
				Privileged &	Confident	lal	N			Site N	lame:		Baltim	nore Inn	or Ha	rbor		Phas	e:						
Sampling Co.:	Maryland	Environmen	tal Service	EDD To:	_	Bryn Hansen	@jacobs.co	m		Locat	ion of	Site:	BALTI	MORE,	MD			Prog	ram	Same	lina			Lab ID	
Client Contact: (n	ame, co.,	address)		Sampler:							_			_	_		-		_				_	Site ID	BALTIMOR
Mana Kaouns				PO#	45000138	Time (TAT)	1	7	-	Preserv	vative C-	2		-			-							Lab Job #	Honeyovel
Morris Plains, NJ 0795	0			Autorysta	Consultan	nt		CH2M	_		ple													Authorized User.	Tioneywei
Preliminary Data To	matthew:	ollis@jacob ATA@msn.r	<u>s.com;</u> rom: bernice kidd®iacobs.com:							Srab	d Sam	min												Text & Excel File Drive	Excel & Text F Order
Sample Receipt	mathew		Street Baltimore MD 21221	En	II Penort T	TAT		14		te/C	erec	Det l													
nvolce To:	Maria Ka	ouris	s Street, baltimore, MD 21231		in Report 1		1	14		Soc	Filt	10 C							l				g		
	Samp	le Identifica	ation	Sampie Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Com	Field	SW60											WS/W	Copyright AESI: Version 8.0 Unsuthorized use strictly prohibited.	٢
Location ID	Depth (ft)	Depth (ft)	Field Sample ID			Per-				linin														Sampling Method (code)	Lab Sampl Numbers
1 19T	0.00	4.20	19T_022822	2/28/2022	1100	w-sw	WATER	REG	4	grab	Y	x											x		
2 19M			19M_022822	2/28/2022		W-SW	WATER	REG		grab				_			-								
3 198	3.20	4.20	19B_022822	2/28/2022	1100	w-sw	WATER	REG	1	grab	Y	x													
4 20T	6.00	0.60	20T_022822	2/28/2022	1113	w-sw	WATER	REG	1	grab	Y	x													
520M			20M_022822	2/28/2022		W-SW	WATER	REG		grab															
6 20B	0.30	0.60	20B_022822	2/28/2022	1113	w-sw	WATER	REG	1	grab	Y	x													
7 Cent T	0.00	5.8	Cent T_022822	2/28/2022	1004	w-sw	WATER	REG	1	grab	Y	x													
B_ Cont M			Cent M_022822	2/28/2022		W-SW	WATER	REG		grab		-			-	-	-								
9 Cent B	4.80	5.80	Cent B_022822	2/28/2022	1004	w-sw	WATER	REG	1	grab	Y	x													
10 Lady T	0.00	0.42	Lady T_022822	2/28/2022	0957	W-SW	WATER	REG	1	grab	Y	x													
11 Lady M			Lady M_022822	-2/28/2022		w-sw	WATER	REG		grab		-	-												
12 Lady B	0.22	0.42	Lady B_022822	2/28/2022	0957	w-sw	WATER	REG	1	grab	Y	x													
Relinguished by			Compan	MES		Received by			-		A	1E	ZCom	pany	-		Con	dition	-	_		Custo	dy Se	als Intact	
Repar	1 al	repar	Date/Time	2.128/27	ICUC	1. 2)	NU	VI		21	28	te/Tir	5 e / 4	540	<		Cool	er Ten	np.						
Relinquished by	in	7.000	Compan	ME	5	Received by	170	12-11	-1	5	2	122	Com	pany			Con	dition			~ (Custo	dy Se	als Intact	
W Jarres C	F		Date/Time	31122	1043		JIDA		31	110	D	ate/Ti	me /0	IT B			Coo	er Ten	np.	5.9	,2,7				
	r: Specify):			n		0 (none); 1 (4 [Deg C); 2 (H	CI pH<2), 3 (HNO3 pl	H<2), 4	(H2SO	4 pH<2	2); 5 (Na	OH pH>	12); 6	NaOH,	Zn Acel	ate); 7	(H2SC	4 (pH+	2), 4 [Deg C))	; 8 (H	CI pH<2); 9 (HCI 4 Deg	C); 10 (HNO3

(L

Lancaste	er Labo	oratorie	5				_	_									-						AESI Ref:	44620.34663
2425 New Ho	olland Pik	(8			H	one	ywel		Chain	OfC	usto	iy / /	٩nal	ysis R	Redne	st							COC#	30905-102620-6
Lancaster, P	PA 17605-	2425										_			-			_		-			Lab Brol # (SDC)	
(717) 656-23	00				Privileged &	Confident	lal	N			Site N	ame:		Baltimo	ore Inne	er Harbo	or	P	ase:				Lab Proj # (SDG):	
Sampling	Co.:	Maryland	Environmer	ntal Service	EDD To:		Bryn Hansen(Djacobs co	m		Locat	ion of	Site:	BALTIN	AORE,	D		Pr	ogram	Sam	ace wa	uer -	Lab ID	ш
Client Con	ntact: (n	ame, co.	address		Sampler:	CO, RK, C	C																Site ID	BALTIMORE
Maria Kaouri	ş				PO#	45000138	06				Presen	ative	3										Lab Job #	
115 Tabor Ro	d				Analysis Ti	urnaround	Time (TAT):		7			e ?											Authorized User:	Honeywell
Morris Plains	s, NJ 0795	0				Consultar	nt		CH2M			Idu												
Preliminary	Data To	C.IVALIE		s.com; com: bernice kidd@iacobs.com;							rab	Sar	mun										Text & Excel File Drive	Excel & Text File Orde
Sample Rec	elpt	matthew	gilis@jacob	is.com							B/G	Per	E La									1		
Hard Copy T	Го	Amy Klo	per		Fu	II Report 1	TAT:		14		sit	ilte	1 Ú	1										
Invoice To:		Maria Ka	ouris		Sample	Sample	Sampla	Sample	1 Sample	Fol	١ ě	ЧЪ	2010										Copyright AESI: Version	
		Sam	le Identific	ation	Date	Time	Туре	Matrix	Purpose	Cont.	Cor	Fiel	SWI										8.9 Unauthorized use strictly prohibited.	
Locatio	on ID	Start Depth	End Depth	Field Sample ID									2										Sampling Method	Lab Sample
		(ft)	(ft)	•		State Sold		194. AV.		1.000	Units		- B		_	_							(code)	Numbers
1 54	SDUP	0,68	1.68	D1_022822	2/28/2022	1013	w-sw	WATER	FD	1	grab	Y	x									_		
2 11T	ap	0.00	20	D2_022822	2/28/2022	1036	w-sw	WATER	FD	1	grab	Y	x											
3 163	Dip	6.21	7.21	D3_022822	2/28/2022	1050	w-sw	WATER	FD	1	grab	Y	x											
4 19T	-D.P	0.00	4.20	D4_022822	2/28/2022	1100	w-sw	WATER	FD	1	grab	Y	x											
5 FIE	LDQC	-	-	FB_022822	2/28/2022	1032	BLKWATER	WATER	FB	1	grab	Y	x											
6 FIE	LDQC		-	RB1_022822	2/28/2022	1033	BLKWATER	WATER	EB	1	grab	Y	x											
7 FIE	LDQC			RB2_022822	2/28/2022	1109	BLKWATER	WATER	EB	1	grab	Y	x											
8 FIE	LDQC			RB3_022822	2/28/2022		BLKWATER	WATER	EB	-1-	grab	_¥_	_			-								
9																								
10																								
11																								
12																								
Relinguished	d by			Compan			Received_by				-	۸۸	5<	Comp	any		- 10	Conditio	in	1		Custod	y Seals Intact	
Pelaco	a.to	In the	\sim	Date/Time	2 72/22	1010	111	11	2121		2		Ate/Ti	me ,				Cooler 1	Temp.	+-				L
Polingues	d by	unn		Company	- 4111	1345	Received by	120	164	To	12	28	12	215				Conditio				Custod	v Seals Intact	
r completion at the		LY-		Date/Time	31775	104		0h		121.	1 22	-4	alett	The				Cooler 1	Cemp	120	35		,	1
Oreservative	as: (Other	r: Spectro		Dara/ Innia		101	0 (0000): 1 (4 5	Den C): 2 (H	Cl nH<2): 3/		1<2): 4	H250	4 pH<2	1): 5 (NaO		2) 6 (Na)		cetate)	7 (H25)		(2) 4 Di	a C)): 8	(HCI pH<2): 9 (HCI 4 Dep (C): 10 (HNO3 (pH<2)
	٥	,lh	3/1	22 16:25		0×	hy	\wedge	~ 31	IP	2	16	45	-)										

CL

Client: Honeywell International Inc

Login Number: 74474 List Number: 1 Creator: Leakway, Christian

Question Answer Comment The cooler's custody seal is intact. N/A The cooler or samples do not appear to have been compromised or True tampered with. True Samples were received on ice. Cooler Temperature is acceptable (</=6C, not frozen). True Cooler Temperature is recorded. True WV: Container Temperature is acceptable (</=6C, not frozen). 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. 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 Is the Field Sampler's name present on COC? True N/A Sample custody seals are intact.

Job Number: 410-74474-1

List Source: Eurofins Lancaster Laboratories Env, LLC

Appendix A-2 Chain-of-Custody Records—February 2022



2425 New Holland P	like	5			Hor	lovw	ell	Chain	oro	usto	dy/	Anal	lysis	Req	uest								COC#	30905-107520-1
Lancaster, PA 1760: (717) 655-2300	5-2425			Privileged &	Confident	ic y w		-	-	1	-	-	Inette	morel	oar lie	their	-	1	-	-	_		Lab Proj # (SDG):	-
Cameling Co.	In text text	Fa branch	et franke	EDD Tel	- Still Series	The states	The second second			Site	ame:		- Call	TWOO	C 110		_	Phas	a:	Juna		_	List ID	_
Client Contact: /	Maryland	addrage)	lai Service	EDU 10.	1	DIAN REPORTED	0010100010.00	<u>m</u>	_	Loca	lion of	Site:	BAL	IMOR	E, MD	-	1	Prog	am	Same	00	-	Site 10	PALTIMORE
Maria Kaouris	name, co.,	address		PO #	45000138	06			-		unitere .	3	-	-	-	+	+		-		-	+	Lab Job F	BALINGHE
115 Tabor Rd				Analysis T	umaround	Time (TAT):	1	7			-	-	-			-	-		-		-	-	Authorized User:	Honeywell
Morns Plains, NJ 079	150				Consultan	ıt	1.1	CH2M			bie					11			1			11		
Preliminary Data To	The second second	of all a cold	COM: CUVALIDATA S	14						-	Sar	E.											Ter & Escal File 2	Earral & Tant Vite
Sample Receipt	0007544	o 12 cobe	COM CUVALIDATA TUNET COM	15						ġ	1	5		1 1				1 1						
Hard Copy To	Army Klop	per		Fi	Il Report T	AT:	-	14		1		t'					1	1.1						
Invoice To:	Мала ка	ouris		-	Sample	Sample	Sample	Sample	10	1 E	P	6010						1 1	1			MSt	Copyright AEBI Version	~
	Sam	ple Identifica	tion	Sample Date	Time	Type	Matrix	Purpose	Cont	ů	Ê	SW								-1	-	100	& B Unsutherited usa strictly prohibited	Q2
Location ID	Depth (ft)	Depth (ft)	Field Sample ID							Units		qda											Sampling Method (code)	Lab Sample Numbers
1 37	0.00	1.45	3T 022822	2/28/2022	1007	W-SW	WATER	REG	4	orab	Y	x										X		
2 - 3M	-		3M-023822	-2725/2022	-	W-SW	WATER	REG	-	9/20	-	-			-	+	-					-		-
3 38	DILE	1.45	38_022822	2/25/2022	1007	W-SW	WATER	REG	1	grab	Y	X	-											1.
4 47	000	1.75	47_022822	2/28/2022	101	W-SW	WATER	REG	1	grab	Y	x												
5 414			4M-022622	2/26/2022-	-	wsw	WATER	REG	-	grab			-	-								-	-	
6 48	0.75	1.75	4B_022822	2/28/2022	1011	W-SW	WATER	REG	1	grab	Y	x					T							1
7 5T	0.00	1,63	5T 022522	2/26/2022	1013	W-SW	WATER	REG	T	grab	Ŷ	x												
8 34			GM_022822	2/28/2022		W-SW	WATER	REG		grab	_	-	-			-		1		-				
9 58	0.68	1.68	58_022822	2/28/2022	1013	W-SW	WATER	REG	1	grab	¥	x											-	-
10 67	0.00	3.50	6T_022822	2/28/2022	1017	W-SW	WATER	REG	1	grab	Y	x			-				1					
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a BT	6.00	3.44	8T 022622	2/28/2022	1023	W-5W	WATER	REG	1	grab	Y	c l											
8 84			-BM-022622	2/28/2022		WSW	WATER	REG		0790		_		-		-	-			-			
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4	12T	0.00	1.42	127 022822	2/28/2022	1040	W-SW	WATER	REG	1	grab	Y	x												
5	1211			12M-022822	2/28/2022	-	W-SW-	WATER	REO		derg	-	-	-		-	-						-		
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9	138	2.06	3.06	138_022822	2/28/2022	1042	W-SW	WATER	REG	1	grab	Y	x									1			
10	14T	0.00	1.65	14T_022822	2/28/2022	1045	W-SW	WATER	REG	1	grab	Y	x					1				-			
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	Samp	le Identificat	lon	Sampie Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont	Comp	Field	SW60									MSM	Copyright AZSI. Version 8.8 Unauthorized use strictly prohibited.	٢									
Location ID	Depth (ft)	End Depth (ft)	Field Sample ID							-												Sampling Method (code)	Lab Sampl Numbers									
1 197	00.00	4.20	19T_022822	2/28/2022	1100	W-SW	WATER	REG	4	grab	Y	x									x											
2 1914			19M-022822	2/28/2022		W-SW	WATER	REG		grab		-		-		-		-		-	-											
3 108	3.20	4.20	100 022022	2/28/2022	1100	W-SW	WATER	REC	1	grab	Y	x																				
4 20T	0.00	0.60	207 022822	2/28/2022	1113	W-SW	WATER	REG	1	orab	Y	x																				
5 2011	-		20M 022822	2/28/2022		W-SW	WATER	REG	-	grao				-		-		-			-											
6 208	0.30	0.60	208 022822	2/28/2022	1113	W-SW	WATER	REG	1	grab	Y	x									T											
7 Cent T	000	5.5	Cent T 022822	2/28/2022	1004	W-SW	WATER	REG	1	grab	Y	x																				
E ContM-			Cent M 022822	8/28/2022	-	W-SW	WATER	REG	121	grab						-	-	-	-													
9 Cent B	4.80	5.80	Cent B 022822	2/28/2022	1004	W-SW	WATER	REG	1	grab	Y	x																				
10 Lady T	05.0	0.42	Lady T 022822	2/28/2022	0957	W-SW	WATER	REG	1	grab	Y	x										1										
1+ LINDY M	-		LINOY M_022012	2/28/2022		W-6W-	WATER	REG		grab	-		-	-	-			-			T											
12 Lady B	0.22	0.42	Lady 8_022822	2/28/2022	0957	W-SW	WATER	REG	1	grab	Y	x																				
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WHAR W	4		Date/Time	31122	1043		Jul		31	1/2	D	ato/Ti	me /0	:7	3		Cooler Tr	qmp	3.9.	2		-										
Preservativest (Othe	r; Specify)	-		2		D (none), 1 (4)	Deg C), 2 (H	Ci pH<2), 3	HNO3 p	H<2), 4	H250	H 11H<	2); 5 (Na	OH pH	>12) 6 (RaOH, Zn	Acetate).	7 (H2S	34 (pH<2)	4 Deg	C)). # ()	HCI pH+2): 9 (HCI 4 Dag	C) 10 (HHO3									

Page 37 of 39

Lancaster Laboratories 2423 New Holland Pike Lancaster, PA 17005-2425 (717) 656-2300					н	one	ywel	1	Chain	ofc	usto	dy / A	Anal	ysis	Req	uest	7							A	ESI Ref:	44620.34663
					Privileged &	N		11	Sita Nama			Battin	nore la	nner Ha	rbor	5	Ph.		-	_	-	F	ab Proj # (SDG):	-		
Sampling Co.: Maryland Environmental Service			EDD To: Bryn Hansen			Diacoba com		Location of Site:		Site:	BALTIMORE, MD				Pro	gram	Same	Le VV a	lei	L	ab 10	u				
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L	Location ID	Depth (ft)	Depth (ft)	Field Sample ID	8						Units		ug/L											1	ampling Method (code)	Lab Samp Numbers
1	5BD.p	0,68	1.61	D1_022822	2/28/2022	1013	W-SW	WATER	FD	1	grab	Y	x								-			-		
2	ITDIP	0.00	20	D2 022822	2/28/2022	1036	W-SW	WATER	FD	1	grab	Y	x				1									
3	16BDVP	6.21	7.21	D3 022822	2/28/2022	1050	W-SW	WATER	FO	T	grab	Y	x													
4	19TON	0.00	4,20	D4_022822	2/28/2022	1100	W-SW	WATER	FD	1	grab	Y	x													
5	FIELDOC		1.00	FB 022822	2/28/2022	1032	BLKWATER	WATER	FB	1	grab	Y	x							-						1.
6	FIELDOC			RB1 022822	2/28/2022	1053	BLKWATER	WATER	EB	1	grab	Y	x			1									_	
7	FIELDOC	· . ·	1.11	R82_022522	2/28/2022	1109	BLKWATER	WATER	EB	1	grab	Y	x									1.1				
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w	HOK	4		Date/Time	3112	2104	0	2h		3/1	22	- 0	ale/Tr	me		-	-	Co	oler Te	mp.	30,	7.5		-		100
	rvatives: (Other	; Spedity)	c			-	D (none): 1 (4 (Deg C) 2 (H	CI pH<2); 3	(HNO) d	H<2); 4	(12504	pH<2	1): 5 (1)=	OHAH	>12), 6	(NaOi	t, Zri Ac	state); 7	(H250	6 (pH<2	1, 4 De	g C)), 8	B (HCI D	H<2) 9 (HC) 4 Deg 4	C): 10 (HNO3 ()H

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Appendix A-3 Field Report—February 2022

BALTIMORE INNER HARBOR SURFACE WATER SAMPLING

February 28, 2022





METER CALIBRATION LOG

Data 1	TIMP	Meter	Buchlor !!	CANO Diver Bis al	TTIM
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7 / 7	$\frac{h}{h} = \frac{h}{h} = \frac{h}{h} = \frac{h}{h} = \frac{h}{h}$				
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FIELD NOTES

BIH	SW Sam	pling					\bigcirc
Sample	evis: Js, Co tain: JM	, E.K		D	ate 2/2	18 (2)-	
Low Tide Sampling	r Conditions:	Sunny,	32°F	, Slight	t bruze .	*MSMSD	
Sample	Depth to	Sample	Time	1 pH	temp	sp. cond.	Initals
Lady T	Bottom (FF) RUTIT 0, 42	<u>Depth(Ff)</u> Oin	(hrs) 0757	(Units) 7.03	(())	(nrs/cm) 11.1	P.K.
Lady B	41 STA 0.42	0.22	0957	7:51	6.49	10.4	RK
CentT	SEFTOMPL	478 OXF 4FT-10 NRL	1004	\$.22	7.94	6,00	PK
CentB	518	4,8	1064	8.21	6.27	12.9	PK
3B	1.45	<u>0</u>	1001	850	558	13.4	PK
<u> </u>	1.75	0		8.82	5.97	13.9	er
<u>4</u> B	1.75	0.75	1011	3.88	5.61	13.6	PK.
ST	1.68	Ő	1013	5.90	5.64	11.6	RK
SBUR	1.68	0.68	1013	8.88 8.88 8.49	5.63	12.3	PK. PK
CeB	3.50	2.50	1017	8,93	>.>C	13.2	lox ex
77	1.46	0	1020	9.00	5.57	12.1	fre
- 7B	1.46	0,46	1070	3,97	5.32	13.3	FX
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2 BIHSW Sampling

Somple	· Depth to Bottom(p)	Somple Depth(PH)	Time	PH (inth)	Temp (c")	sp cond.	Inihal
81	3.44	0	1023	9,02	\$.44	125	PK
0.0	2 101	2.24	104	9 02			
85	5199	2.99	10.25	1.0.2	5151	13.0	PAL
9T	2.01	0	1025	9:02	5.31	14.1	PK
9B	2.77	1.77	1025	9.04	5.22	1415	PIC
107	2.04	0	1028	8,99	5,24	1412	PK
106	2.04	1.04	1028	9,10	5,36	14.3	er
FBI	ð	~	1032	10.98	10158	01005	RK
RB1	6	1	1033	1053	8.79	0.004	PK
ТЦ	2.0	Ö	1036	8106	6.32	15313.6	PK.
ITDP	2.0	0	1036	5.06	20.32	1316	CX
116	2.0	<u> </u>	1936	8.30	5166	14.2	pr
127	1.62	0	1040	\$,39	5.62	14.0	ek.
12B	1162	0.62	1040	8.73	5.55	14.1	PK
1.3T	3.06	0	1042	8.89	5.59	1410	PK
13B	3.06	2.06	1042	8,93	5,40	14.2	PK
IUT	1.65	0	1045	8,88	5.49	13.6	PK.
14B	1165	0.65	1045	9.08	5.52	13.9	RK
IST	[i0	0	(ेप	9.15	5.60	13.5	fx
15B	1.0	0,S	1047	9118	5:75	13.6	PK
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llet	7.21	0	1050	9,20	5.52	177	RN
1	01		+FK.			12:5	PR
IGB .	197.2	6.21	1056	9.06	495	licy	QN
168 Dup	7.21	6.21	1050	9.06	495	1.5.4	6N
177	1.0	0	1053	9.17	5.7.	13.8	RX
				GIS	2.00	15.0	1-1-1-
113	1.0	0.5	1053	8,99	5.43	13.7	RV
10				er			
181	6.84	0	1056	9.16	5.33	13.9	RX
180	r 644						
105	6.04	5.84	1056	9.00	Sizs	15.4	RK
IAT	1.0						
161 0 0	4.6	0	(100	9.07	5.37	1410	RF
190	916	0	1100	9107	5.37	14.0	RX
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PBO			-	10.70	1 1 1		J
m) a -			1109	HESK	9.60	0.011	PK
207		0	1212	Co			1.12
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NJ 07950 Consultant CH2M g | did IPUBLIC Product out Time (TAT): 7 3, NJ 07950 Analysis Turnaround Time (TAT): 7 0 NJ 07950 Consultant CH2M 0 NJ 07950 Full Report TAT: 14 0 Maria Kacutis Sample Date Sample Sample for CN2NLIDATA@mencom Sample Maria Kacutis Sample Date Sample Sample for CN2NLIDATA@mencom 31 O+000 1, 4/5 Sample Date Sample Sample for CN2NLIDATA@mencom 33 O+000 1, 4/5 Sample Date Sample Kacutis Gate 34 O+000 1, 4/5 Sample Date Sample Kacutis Gate 34 O+000 1, 4/5 Sample Date Sample Kacutis Gate 35 O+000 1, 4/5 Sample Date Sample Kacutis Gate 36 O+000 1, 4/5 Sample Date Sample Kacutis Gate 37 O+000 1, 4/5 Sample Date Sample Kacutis Gate 38 O+000 | Analysis Turnaround Time (TAT): 7 7 7 S. NJ 07950 Analysis Turnaround Time (TAT): 7 7 1 <td>Participation Production Production</td> <td>No 7500 Analysis Turnaround Time (TAT): 7 0.10 7500 Torright Consultant Consultant Consultant Consultant 0.10 7500 Consultant Consultant Consultant Consultant 0.10 7500 Consultant Consultant Consultant Consultant 0.10 1000 Sample Identification Sample Data Sample Constraint Consultant 10 n1 10 Torright Constraint Full Report TAT: 14 Consultant Consultant 31 C 0.00 L(-5) 31 02282 2/28/2022 CON7 W-SW WATER REG grab Y X V V 32 D - S L(-5) 31 02282 2/28/2022 L(0-1) W-SW WATER REG grab Y X V V V 33 D - S L(-5) 41 02282 2/28/2022 L(0-1) W-SW WATER REG 1 grab Y X V V V 41 A AD02822</td> <td>Diameter Diameter Diameter</td> <td>Bit Consultant Consultant</td> | Participation Production Production | No 7500 Analysis Turnaround Time (TAT): 7 0.10 7500 Torright Consultant Consultant Consultant Consultant 0.10 7500 Consultant Consultant Consultant Consultant 0.10 7500 Consultant Consultant Consultant Consultant 0.10 1000 Sample Identification Sample Data Sample Constraint Consultant 10 n1 10 Torright Constraint Full Report TAT: 14 Consultant Consultant 31 C 0.00 L(-5) 31 02282 2/28/2022 CON7 W-SW WATER REG grab Y X V V 32 D - S L(-5) 31 02282 2/28/2022 L(0-1) W-SW WATER REG grab Y X V V V 33 D - S L(-5) 41 02282 2/28/2022 L(0-1) W-SW WATER REG 1 grab Y X V V V 41 A AD02822 | Diameter Diameter | Bit Consultant Consultant |

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2425 Lanca	New Holland Pil ster. PA 17605-	(e 2425				Hon	eywe	11	Chain	Of C	usto	dy / /	Anal	ysis F	lequ	est							COC#	30905-102620-2
(717)	656-2300				Privileged &	Confident	ial	N			Site	Vame.		Baitimo	ore BIH	1		Pha				_	Lab Proj # (SDG):	
Sam	pling Co.:	Maryland	Environmen	tal Service	EDD To:		Brvn Hanseni	Diacobs.con	n		Loca	tion of	Site:	BALTIN	ORE,	MD	-	Pro	aram	Surrac	e water	0	Lab ID	LLI
Clier	t Contact: (n	ame, co.,	address)		Sampler:	1.1.2			-					T	T		TT			Samol		-	Site ID	BALTIMORE
Maria	Kaouns				PO #	45000138	06				Preser	vativa	3	12.11									Lab Job #	
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Morris	Plains, NJ 0795	0		Y NOT		Consultar	nt		CH2M			be										110	1	
Prelin	ninary Data To	matthew	ullis@jacob	s.com; CJVALIDATA@msn.com;				_			ą	San	Ę										Text & Excel File Drive	Excel & Text File
Samp	le Receipt	matthew.e	nd/a)ch2m.c	om s.com; CJVALIDATA@msn.com;							5	P	omi											Order
Hard	Сору То	Amy Klop	per		Fu	II Report 1	TAT:		14		site		- E											
Invoid	ce To:	Maria Kad	ouris		1	-		-			å	Ē	5			111				1 1			Convright AESI: Version	~
		Samo	le Identific:	ation	Sample Date	Time	Type	Matrix	Purpose	Cont	mo	je j	9M6										8.0 Unauthorized use	
		Start	End		County is a set	TIME			Taipeee		1 V	1 4	- 44						-				Strictly profession	
	Location ID	Depth (ft)	Depth (ft)	Field Sample ID	E		1				Units		ng/L										Sampling Method (code)	Lab Sample Numbers
1	7T	0.06	1.46	7T_022822	2/28/2022	1020	w-sw	WATER	REG	1	grab	Y	X											1
2	ZM			7M 022822	- 2/28/2022-		w.sw-	WATER	REG	-	grab	-	-	-	-				-		_			
3	7B	0.46	1,46	7B 022822	2/28/2022	1020	W-SW	WATER	REG	1	grab	Y	X											
4	8T	6.00	3,44	BT 022822	2/28/2022	1023	W-SW	WATER	REG	1	orab	Y	X											
5	- 8M	Uneo		8M-022822	2/28/2022	1005	W.SW	WATER	PEC	-	orah	1			-	-		-	-				-	-
6	90	1.44	3.44	9B 022822	2/28/2022	.072	INI CINI	MATER	PEC	1	grab	V	v		-	-			1		_			-
-	00	0.00	2 77	85_022822	2/20/2022	1005	VV-SVV	WATER	REG		grau	T			-	-		-	-		-	-		
1	91	0.00	2.11	91_022822	2/28/2022	1005	W-SW	WATER	REG	1	grab	Y	X		-	-		-	-		_	_		-
8	9M	. 70		9M_022822	2/28/2022	1.1.0	W-SW	WATER	REG	-	grab	-			-	-			-					
9	9B	ILTI.	2.11	9B_022822	2/28/2022	1005	W-SW	WATER	REG	1	grab	Y	X		-	-	-	-	-		-	_		-
10	10T	6.00	2.04	10T_022822	2/28/2022	1028	W-SW	WATER	REG	1	grab	Y	X		-			_	-		_	_		
11	10M	-		10M_022822	2/28/2022		W.SW	WATER	-REG-	-	grab	-	-	-	-	-	-	-	-	-				-
12	10B	1.04	2.04	10B_022822	2/28/2022	1028	W-SW	WATER	REG	1	grab	Y	X											
Relinc	uished by		1	Company	MA	5	Received by		-	-	T	M	55	Comp	any	-	C	Condition	-	1	Ci	ustody 5	Seals Intact	ľ
P	checca)	ressi	m	Date/Time	2/28/27	LISUS	RU	HH	4		21	28	Date/Ti	me 154	5		c	Cooler Te	mp.					
Relind	uished by			Company	()		Received by		Ja		1		-	Comp	any		C	Condition			Ct	ustody S	Seals Intact	
				Date/Time							1	D	Date/Ti	me			C	Cooler Te	mp.					
Prese	rvatives: (Other	; Specify):				0	4Deg C); 11 (4	C NaOH (pH>	12) & Ascor	bic Acid)	12 (40	H2SO4	4 (pH<	2) & Na2S	5203); 1	3 (Zn Ac	etate); sp	(special in	structio	ns)		-		

Lanca 2425 N	Caster Lab New Holland Pi Inster, PA 17605	oratorie: ce 2425	5		н	one	ywel	1	Chain	Of C	usto	ody / .	Ana	lysis	Rec	lnes	t								AESI Ref: COC#	44620.34557 30905-102620
(717) 6	656-2300				Privileged &	Confident	ial	N			C:10	Name		Baltir	nore	nner H	larbor	-	In			_		-	Lab Proj # (SDG):	
Sam	pling Co.:	Maryland	Environmer	ntal Service	EDD To:		Bryn Hansen	Diacobs co	m	-	Loca	name.	Sito	BALT	IMOR				Proo	ie:	JUITAC	a wa	ter	-	Lah ID	111
Clien	t Contact: (n	ame, co.	address)		Sampler:	1	No. 1111 Contraction of the		10	-	12000		T	DAL			T	-	Flog		Samol	T	-	-	Site ID	BALTIMORE
Maria	Kaouris				PO #	45000138	06		-	-	Prese	rvative	3		-	-	-	-	-	-		-	-		Lab.Joh #	Enternitonite
115 Ta	abor Rd				Analysis T	urnaround	Time (TAT):		7	_										-		-	-		Authorized User:	Honeywell
Morris	Plains, NJ 0795	0	_		100000	Consultar	ıt		CH2M			9														
Prelim	ninary Data To	matthew.	<u>qillis@jacob</u> udd@iacobs	s.com, CJVALIDATA@msn.com; .com								1 E	F												Text & Excel File Drive	Excel & Text File
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Invoic	e To:	Maria Ka	ouris			an report i	ALL		0.4	-	osi	1	10 0											ß	1	*
		Sam	ole Identific	ation	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Comp	Field	SW60											MS/M	Copyright AESI: Version 8.0 Unauthorized use ministry prohibited	
L	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID			-				Units													-	Sampling Method	Lab Sample Numbers
1	11T	0:00	2.00	11T_022822	2/28/2022	1036	w-sw	WATER	REG	4	grab	Y	x		-	-	5.6							x		
2	TIM	-		11M 022822	2/28/2022-	1.5	W-SW	WATER	REG		arab		-	-	-	-	-		-	-		_	-	-		
3	11B	1.00	2:00	11B_022822	2/28/2022	1036	w-sw	WATER	REG	1	grab	Y	x													
4	12T	0.00	1.62	12T_022822	2/28/2022	1040	W-SW	WATER	REG	1	grab	Y	x				14 11/									
5		-		12M_022822	2/28/2022-		w.sw.	WATER	REG		grab	-	_			-	-		-				-	-		
6	12B	0.62	1.62	12B 022822	2/28/2022	1040	W-SW	WATER	REG	1	orab	Y	X													
7	13T	0.00	3,00	13T_022822	2/28/2022	1042	w-sw	WATER	REG	1	grab	Y	x													
8	-13M			13M-022822	2/28/2022	-	-W-SW	WATER	REG		grab	-	-		-		-		-		_	_	\square	_		
9	13B	206	3.06	13B_022822	2/28/2022	1042	W-SW	WATER	REG	1	grab	Y	X			111										
10	14T	0.00	1.65	14T_022822	2/28/2022	1045	W-SW	WATER	REG	1	grab	Y	x													
11	14M			14M_022822	2/28/2022-		w-sw-	WATER	REG		grab		-	-	-					-						
12	14B	0.65	1.65	14B_022822	2/28/2022	10-15	W-SW	WATER	REG	1	grab	Y	X			210					1			_		
Relinq	uished by		-	Company	MP	<	Received by	-	-	-	1	AA	F	2 Com	pany		-	Cor	ndition	-		-	Custod	dy Se	als Intact	
6	le her in	Vel	alun	Date/Time	7/0 4/-	2 KUR	1.Cal	HL	1	_	1	- 10	Date/T	ime	5/	4	-	Cod	oler Terr	np					1	
Reling	uished by	up -1	- un	Company	10010	(151)	Received by	-Tra	JC-	-	-	212	-513	Corr	Danv	2	_	Cor	ndition	-	-		Custor	dv Se	als Intact	
	·			Date/Time					0		1	0	Date/Ti	ime				Cod	oler Terr	np.		-		1		
Prese	rvatives: (Other	: Specify):					4Dea C): 11 (4	C NaOH (pH)	>12) & Ascor	bic Acid): 12 (4	IC H2SC	04 (pH-	<2) & Na	12520	3): 13 (Zn Acet	ate): sp (special in	nstruct	ons)	-		_	-	

Lan 2425	caster Labo	ratorie: e	S		н	one	wwe	1	Chain	Of C	usto	dy / /	Anal	ysis	Rec	uest									AESI Ref:	44620.34589
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Sam	pling Co.:	Marviand	Environmer	ntal Service	EDD To:	_	Bryn, Hansen	@jacobs.co	m		Loca	Name:	Site	BAL	TIMOR	RE, MD		-	Sam	se: ipling	Surfa	ice W	ater	\neg	Lab ID	ш
Clier	t Contact: (n	ime co	addrace		Complement	1			-		Loca	don of	l l		1		T	1	FIUS		Sam	Sling		\neg	Site ID	BALTIMORE
Maria	Kaouris	anne, co.,	audress		Sampler:	45000128	006				-		-				-	-	-	-		-		_		DALTIMORE
115 T	abor Rd	_			Analysis T	urnaround	Time (TAT):	T	7		Preser	vative	3			-	-	-	-	-		-		_	Lab Job #	Heneveyell
Morris	Plains, NJ 0795	0			1	Consultar	nt	1	CH2M		1														Autionzeu Oser.	Honeyweii
Prelin	ninary Data To	matthew.	gillis@jacob	s.com;					100		1	~													Text & Excel File Drive	Excel & Text File
Samp	le Receipt	matthew.	gillis@jacob	com bemice kidd@iacobs.com: S.COM;				-				뤔														Order
Ackno	owledgement To	CJVALID	ATA@msn.	com; bernice kidd@jacobs.com;							ę	L Eg	Ę													
Hard	Сору То	Amy Klop	per	0.11	Fu	II Report 1	TAT:		14		-D	2	omit													
nvoid	ce To:	Maria Ka	ouris		199						site	Iter	- S									111				
		Samp	e Identifica	ation	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Compo	Field F	SW6010												Copyright AESI: Version 8.0 Unauthorized use strictly prohibited.	
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID						-	Units														Sampling Method	Lab Sample
1	15T	5.00	1.00	15T 022822	2/28/2022	1047	W-SW	WATER	REG	1	arah		Y												(eeddy	- Hamboro
2	15M			15M 022822	2/28/2022		10/ 010/	WATED	PEO		grab		Ê					_		-		-				
3	15B	0.50	1,00	158 022822	2/28/2022	INUT	W DW	WATER	DEC		giau						-					-			1	
4	165	0.00	7.21	16T 022822	2/20/2022	1050	W-SW	WATER	DEC		grao						-		1			-				
	101			101_022022	LILOILOLL		VV-3VV	WATER	REG	-	grab						-	-				-				
5	16M	1.0		16M_022822	-2/28/2022		W-SW-	WATER	REG		grab	-Y-					-	-		-		223			· · · · · · · · · · · · · · · · · · ·	
6	16B	6,21	7.4	16B_022822	2/28/2022	1050	w-sw	WATER	REG	1	grab	Y	x									-				
7	17T	0.00	1.08	17T_022822	2/28/2022	1053	w-sw	WATER	REG	1	grab	Y	x													
8	17M			17M_022822	2/28/2022		w-sw-	WATER	REG		grab	-		-	-				-	-		-				
9	17B	6,50	1.00	17B_022822	2/28/2022	1053	w-sw	WATER	REG	1	grab	Y	x													
10	18T	0.00	6.84	18T_022822	2/28/2022	1054	w-sw	WATER	REG	1	grab	Y	x													
14				18M_022822	2/28/2022		WSTW	WATER	REG		grab		-	-	_			_	-	_					and the second sec	
12	18B	S.M	6.84	18B_022822	2/28/2022	1056	w-sw	WATER	REG	1	grab	Y	x													
Reling	uished by		- 1	Company	MAKES		Received by		-	_	-		15	< Con	nnanv	-	_	Cor	dition	_	-		Custod	ty Se	als Intact	
1	1	V. V.	100	Date/Time	212012	2 110	11 :	1 17	10			/ D	ate/Ti		1.20	-		Coc	ler Ter	np.	-	-	ouotou			
Relino	Mellan	crash	iven	Company	616816	CISYS	Received by	at	TEXT	-	2	28	3/2	<u>216</u>	H	-	_	Cor	dition	-	-		Custod	11 80	als Intact	1
(Sinte	aloned by			Date/Time	-		Teceived by		•			D	ate/Ti	me	прапу	1		Coc	ler Ter	np.		2 ¹	Custod	ly Sea	ais intact	
1.1					-		0 (21-11-01-0.4			(11000					41.0						-		11.01.0.41014.5	
Prese	rvatives: (Other:	Specify):					(none); 1 (4 L	Deg C); 2 (HC C): 11 (4C Na	ו pH<2); 3 (H וOH (nH>12)	INU3 pl & Asco	1≦2); 4 thic Aci	(H2SO4 d): 12 (4	4 рн<2 1C H2S); 5 (Na 3O4 (ni	a∪H pH H<2) &	1212); 6 Na2S2C	(NaOH)3): 13	, ∠n Acel 7n Aceta	ate); / (ate): sp /	(H2SO) (specia	a (pH<2 I instru	2), 4 D ctions)	eg C)); 8	(HCI	pm<2); 9 (HCi 4 Deg 0	J); 10 (HNO3

La	ncaster Lab	oratorie	S			-					-	-	-	-	_	_	-	-	-		-	_			AESI Ref:	44620.34624
242	5 New Holland P	ike 5-2425			н	one	eywel		Chain	Of C	usto	dy / /	Anal	ysis	Rec	ques	t								COC#	30905-102620-5
(717) 656-2300				Privileged &	Confiden	tial	N			Site	lame.	-	Baltir	more	Inner I	Harbor	-	Pha	eo.	1	-	-		Lab Proj # (SDG):	
Sar	mpling Co.:	Maryland	Environme	ental Service	EDD To:		Bryn Hansen	@jacobs.co	m		Locat	tion of	Site:	BALT	IMOR	RE, ME)	-	Pro	aram	June	CE W	ater		Lab ID	LU
Clie	ent Contact: (name, co.	, address	s)	Sampler:					-								1	1	T	Sam				Site ID	BALTIMORE
Mar	a Kaouris				PO #	4500013	806		_	-	Preser	vative	3								1				Lab Job #	
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Mon	ris Plains, NJ 079	150				Consulta	nt		CH2M	-		Ē								1.1						
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Sam	ple Receipt	matthew.	gillis@jaco	bs.com;							US I	be	imo													Order
Har	d Copy To	Honeywe	all; 1000 Wi	Ils Street; Baltimore, MD 21231	FL	Il Report	TAT:		14		ste	<u>te</u>	Ū													
invo	ice To:	Maria Ka	iouris		Famala	1.Comolo	I. Pamala	Canada	1 Committee	1 11-1	1 8	E E	010											l S	Convright AESI: Version	~
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	Location ID	Start Depth	End Depth (ft)	Field Sample ID		1		1																-	Sampling Method	Lab Sample
		(14)	11.20			1		-	-	-	Units	1	-	-		-		-		-	-				(code)	Numbers
1	19T	0.00	4.0	19T_022822	2/28/2022	1100	W-SW	WATER	REG	4	grab	Y	X			_	-			-				X		
2	19M	-		19M_022822	2/28/2022		W-SW	WATER	REG	-	grab		-		-		-	-	-	-	1		-	-		
3	19B	3.20	4,20	19B_022822	2/28/2022	1100	W-SW	WATER	REG	1	grab	Y	x										-			
4	20T	6.00	0.60	20T_022822	2/28/2022	1113	W-SW	WATER	REG	1	grab	Y	x													1
5	2014	-		20M_022822	2/28/2022	-	W-SW	WATER	REG	-	grab			_				-	-	-	-		-	-		
6	20B	0.30	0.60	20B 022822	2/28/2022	1113	w-sw	WATER	REG	1	grab	Y	x													
7	Cent T	0.00	5.8	Cent T 022822	2/28/2022	1004	w-sw	WATER	REG	1	grab	Y	x									-				
a	CentM	_	57721	Cent M 022822	2/28/2022	-	W-SW	WATER	REG		grab		-	-	-		-	-	-	-						
9	Cent B	4.80	5.80	Cent B 022822	2/28/2022	1004	W-SW	WATER	REG	1	arab	Y	x													
10	Lady T	05.0	0.42	Lady T 022822	2/28/2022	0957	w-sw	WATER	REG	1	arab	Y	x													
14-	Lady M	-		Lady M 022822	2/28/2022	-	w-sw	WATER	REG		arab	-	-	-	-						-	-	-			
12	Lady B	0.22	0.42	Lady B_022822	2/28/2022	0957	w-sw	WATER	REG	1	grab	Y	x			141										
йс),					- 122							-			_					-						
Reli	nquished by			Company	MES		Received by	Control of	1			N	E	Som	npany	_		Cor	ndition				Custo	ody Se	eals Intact	
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3 16BDig 612	1 7.21	1 D3_022822	2/28/2022	1050	w-sw	WATER	FD	1	grab	Y	x									1	
4 19TON 00	0 4.20	D4_022822	2/28/2022	1100	w-sw	WATER	FD	1	grab	Y	x									-	
5 FIELDQC -		FB_022822	2/28/2022	1032	BLKWATER	WATER	FB	1	grab	Y	x		1							1	
6 FIELDQC -		RB1_022822	2/28/2022	1033	BLKWATER	WATER	EB	1	grab	Y	x										
7 FIELDQC -		RB2_022822	2/28/2022	1109	BLKWATER	WATER	EB	1	grab	Y	x										
8 FIELDOC -		RB3_022822	2/28/2022	-	BLKWATER	WATER	EB	-1	grab	Y	-	_		-	-		-			1.000	
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Appendix B Current Quarterly Validation Report

Appendix B-1 Quality Control Summary—Fourth Quarter 2021

pQUALITY CONTROL SUMMARY

This section is a summary of the quality control (QC) review results for samples collected on

February 28, 2022, 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 2002) 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: 74474. 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 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

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

LABORATORY BLANKS

Chromium was not detected in the calibration or method blanks.

FIELD BLANKS

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

MATRIX SPIKE/MATRIX SPIKE DUPLICATES

Three 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 ± 2 °C at 3.0 and 3.5 °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. 130 FIRST QUARTER 2022

BALTIMORE INNER HARBOR BALTIMORE, MARYLAND

Prepared for



115 Tabor Road Morris Plains, New Jersey 07950

Prepared by



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

APRIL 2022

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- A HMS Gradient Charts
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- C Manual Verification Reports

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 first quarter of 2022. 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 $[0.01 \text{ foot} + (2 \times 0.031 \text{ measurement error})] = 0.072 \text{ foot}$. 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—First Quarter of 2022

During the first quarter of 2022, 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. 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 which 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 first quarter of 2022 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.

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 first 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.

Date	Description
1/1/2022	All extraction well pump counters were reset for the year.
1/6/2022–1/11/2022	Monthly piezometer inspections were performed.
1/7/2022	The ultrasonic level sensor was replaced for Outer Piezometer 2S.
1/21/2022	Monthly vault inspections were performed.
1/24/2022	A leaking discharge pipe was repaired for Well 2S.
1/25/2022	The piston pump seal was replaced on Well 7.
1/25/2022	The level sensor was replaced in Well 2 Deep.
2/4/2022	The flowmeter was inspected for Well 1 Deep.
2/16/2022	Monthly vault inspections were performed.
2/17/2022	A leaking flowmeter was repaired on Well 2S.
2/17/2022	Monthly vault inspections were completed.
2/22/2022	Vault 3 was inspected for upcoming pump installation.
3/7/2022–3/8/2022	Monthly piezometer inspections were performed.
3/9/2022	The Level Transmitter on Storage Tank 202 was replaced.
3/22/2022	Monthly vault inspections were performed.
3/23/2022	A leaking discharge pipe was repaired on Well 2S.

Table 1-1. System Events

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:

- January 2022
 - Multiple sump leads were cleaned to remove calcification.
 - The pump seal was replaced on Well 7.
- February 2022
 - Multiple sump leads were cleaned to remove calcification.
 - A pipe leak was detected in Well 2S and was repaired February 17, 2022.

- March 2022
 - Multiple sump leads were cleaned to remove calcification.
 - A pipe leak was detected in Well 2S and was repaired March 23, 2022.
 - Receptacles in Vault 2 and Vault 12 were not functioning and will be replaced in April 2022.
 - Well 4 Deep has a low flow and will be replaced first during the 2022 piston pump upgrade project.

1.7 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 January, February, and March were approximately 30,000 gallons, 25,000 gallons, and 40,000 gallons, respectively. An additional estimated 25,000 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 first quarter of 2022 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 deomembrane 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.

The HMS system performed as intended, maintaining the 30-day running average groundwater gradient below the performance standard throughout the first quarter.

In anticipation of construction activities in the second quarter of 2022, manual reduction of inboard water has commenced. This volume is estimated to be 5,000 – 10,000 gallons per week in excess of regular gradient pumping. The intention is to minimize gradient disruption when construction pile supports are driven during Parcel 3 construction. Approximately 800 piles are scheduled to be driven during the Parcel 3 development.

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 January 6 and 11, 2022, groundwater elevation readings from 20 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 13 of the manual measurements from the piezometers and the automatic readings reported by the HMS were greater than 0.05 foot, and 7 of the differences were greater than 0.10 foot. The differences between the gradients recorded by the MSS computer from December 7, 2022, to January 11, 2022, and the gradients measured manually on January 6 and 11, 2022, 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 February 10 and 11, 2022, readings from 19 of the piezometers indicated a difference greater than 0.02 foot between the 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 7 of the differences were greater than 0.10 foot. The differences between the gradients recorded by the MSS computer from January 6, 2022, to February 11, 2022, and the gradients measured manually on February 11, 2022, 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 March 7 and 8, 2022, readings from 23 piezometers indicated a difference greater than 0.02 foot between the measurement devices and the manual measurements. The differences between 13 of the manual measurements from the piezometers and the automatic readings reported by the HMS were

greater than 0.05 foot, and 7 of the differences were greater than 0.10 foot. The differences between the gradients recorded by the MSS computer from February 11, 2022, to March 8, 2022, and the gradients measured manually on March 9, 2022, 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 first 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 January, February, and March 2022. Additional manual verification readings were taken as needed due to noted errors.
- On January 7, 2022, the ultrasonic level sensor for Outer Piezometer 2S was replaced.
- On March 11, 2022, the Outer Piezometer 5 was manually verified and corrected.

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 2021 annual site survey was performed in December 2021, by Stantec. The next survey event is anticipated to be completed in the third quarter of 2022.

The accuracy of the surveying method for the 2021 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 2021 annual verification survey were between the maximum and minimum historical values reported for each location, or within an acceptable deviation.

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






































HMS_Appendix_A19_1QTR22_FEB



Appendix B HMS Pumping Charts

- Monthly Pumping: 1999–2022
- Well Pumping: First Quarter Comparisons: 1999–2022





Appendix C Manual Verification Reports

- January
- February
- March

		<u>1/6/2022 & 1/11/22</u>											
			ELEVATION,	FIELD	FIELD		DELTA: FIELD	DELTA:					
			FFFT	FFFT	ELEVATION	DISPLAT, FEFT	COMPUTER						
				(RADIO)	FEET	(WONDERW)	FEET	AVERAGE					
IP	1	*	19.88	18.51	1.37	1.37	0.00	-0.02					
OP	1	*	20.70	17.62	3.08	3.05	0.03	0.02					
IP	1 S	*	20.11	18.66	1.45	1.40	0.05	0.01					
OP	1 S	*	20.94	19.02	1.92	1.93	-0.01	0.07					
IP	2	*	12.79	11.50	1.29	1.32	-0.03	-0.01					
OP	2	*	12.86	9.97	2.89	2.89	-0.01	-0.06					
IP	2 S	*	12.85	12.09	0.76	0.66	0.10	0.01					
OP	2 S	*	12.92	11.53	1.39	1.38	0.00	0.02					
IP	3	*	19.37	19.63	-0.26	-0.45	0.19	0.00					
OP	3	*	19.60	18.24	1.36	1.20	0.16	-0.01					
IP	3 S	*	19.19	18.49	0.70	0.80	-0.10	0.01					
OP	3 S	*	19.39	17.99	1.40	1.32	0.08	0.02					
IP	4	*	13.07	13.01	0.06	-0.02	0.08	-0.01					
OP	4	*	13.21	11.79	1.42	1.31	0.11	0.00					
IP	4 S	*	13.25	12.64	0.61	0.56	0.05	0.01					
OP	4 S	*	13.08	11.95	1.13	1.01	0.12	0.00					
-	TIDE		9.65	9.58	0.07	-0.22	0.29	0.06					
IP	5	*	8.99	7.55	1.44	1.49	-0.05	0.03					
OP	5		7.82	7.31	0.51	0.27	0.24	-0.02					
IP	6	*	8.79	7.58	1.21	1.22	-0.01	0.00					
OP	6	*	6.98	4.99	1.99	1.99	0.00	0.01					
IP	7		8.77	7.60	1.17	1.13	0.04	-0.03					
OP	7	*	8.17	6.18	1.99	1.98	0.01	-0.07					
IP	8	*	10.33	9.03	1.30	1.30	0.00	0.00					
OP	8	*	6.62	4.30	2.32	2.35	-0.03	0.01					
IP	9	*	9.57	9.78	-0.21	-0.20	-0.01	0.01					
OP	9	*	7.90	7.63	0.27	0.29	-0.02	0.00					
IP	10	*	8.46	8.35	0.11	-0.08	0.19	0.01					
OP	10	*	6.48	5.72	0.76	0.56	0.20	-0.01					
IP	11	*	18.47	17.15	1.32	1.27	0.05	0.00					
OP	11	*	17.57	14.91	2.66	2.75	-0.09	0.00					
IP	12	*	11.39	9.98	1.41	1.40	0.01	0.02					
OP	12	*	11.18	8.29	2.89	2.89	0.00	0.01					
DUPLI	CATE REA	DINGS	(TAKE FIVE DUPLI	CATE READINGS	LIST WELL IDENT	IFIER AND READ	NG)						
IP	12			9.98									
IP	3 S			18.49									
IOP	7			6.18									
IP	5			7.55									
OP	9			7.63									
Cvr	'd Slip		11.86	10.80	1.06								
Ga	s Vent		18.92	8.82	10.10								

Note: Elevations based on Stantec survey 2019 '*' Denotes readings are taken from the PVC casing rather than the steel outer casing

				2/10/228	&2/11/22		
		ELEVATION,	FIELD	FIELD	COMPUTER	DELTA: FIELD	DELTA:
		WELL CAP, FEET	READING, FEFT		DISPLAY, FEFT		
			(RADIO)	FEET	(WONDERW)	FEET	AVERAGE
IP 1	*	19.88	18.70	1.18	1.16	0.02	-0.02
OP 1	*	20.70	18.24	2.46	2.50	-0.04	0.02
IP 1S	*	20.11	18.71	1.40	1.42	-0.02	0.01
OP 1S	*	20.94	19.03	1.91	1.92	-0.01	0.07
IP 2	*	12.79	11.64	1.15	1.13	0.02	-0.01
OP 2	*	12.86	10.55	2.31	2.15	0.16	-0.06
IP 2S	*	12.85	11.85	1.00	1.05	-0.05	0.01
OP 2S	*	12.92	11.70	1.22	1.22	-0.01	0.02
IP 3	*	19.37	18.50	0.87	1.12	-0.25	0.00
OP 3	*	19.60	17.43	2.17	2.35	-0.18	-0.01
IP 3S	*	19.19	18.20	0.99	0.85	0.14	0.01
OP 3S	*	19.39	17.89	1.50	1.55	-0.05	0.02
IP 4	*	13.07	11.67	1.40	1.50	-0.10	-0.01
OP 4	*	13.21	10.90	2.31	2.47	-0.16	0.00
IP 4 S	*	13.25	12.25	1.00	1.04	-0.04	0.01
OP 4 S	*	13.08	11.24	1.84	1.94	-0.10	0.00
TIDE		9.65	7.83	1.82	2.20	-0.38	0.06
IP 5	*	8.99	8.15	0.84	0.75	0.09	0.03
OP 5		7.82	7.05	0.77	0.89	-0.12	-0.02
IP 6	*	8.79	7.66	1.13	1.12	0.01	0.00
OP 6	*	6.98	5.50	1.48	1.50	-0.02	0.01
IP 7		8.77	7.42	1.35	1.38	-0.03	-0.03
OP 7		8.17	6.45	1.72	1.72	0.00	-0.07
IP 8	*	10.33	9.20	1.13	1.13	0.00	0.00
OP 8	*	6.62	4.67	1.95	1.94	0.01	0.01
IP 9	*	9.57	8.99	0.58	0.60	-0.02	0.01
OP 9	*	7.90	6.34	1.56	1.55	0.01	0.00
IP 10	*	8.46	7.86	0.60	0.78	-0.18	0.01
OP 10	*	6.48	4.69	1.79	1.96	-0.17	-0.01
IP 11	*	18.47	17.34	1.13	1.15	-0.02	0.00
OP 11	*	17.57	15.40	2.17	2.08	0.09	0.00
IP 12	*	11.39	10.19	1.20	1.21	-0.01	0.02
OP 12	*	11.18	8.77	2.41	2.42	-0.01	0.01
DUPLICATE RI	EADINGS(TAKE FI\	/E DUPLICATE RE/	ADINGS LIST WE	LL IDENTIFIER AN	D READING)	1	
			17.43				
			8.15				
			11.64				
			18.50				
10P 12		44.00	8.77	4.00			
Cvrd Slip		11.86	10.80	1.06			
Gas Vent	[18.92	8.82	10.10			

Note: Elevations based on Stantec survey 2019 '*' Denotes readings are taken from the PVC casing rather than the steel outer casing

				3/7/2022 8					
	ELEVATION,		FIELD	FIELD	COMPUTER	DELTA: FIELD	DELTA:		
		WELL CAP,	READING,		DISPLAY,				
			(RADIO)	FEET	(WONDERW)	FEET	AVERAGE		
IP 1	*	19.88	18.73	1.15	1.20	-0.05	-0.02		
OP 1	*	20.70	18.10	2.60	2.65	-0.05	0.02		
IP 1S	*	20.11	18.67	1.44	1.46	-0.02	0.01		
OP 1S	*	20.94	18.99	1.95	1.96	-0.01	0.07		
IP 2	*	12.79	11.64	1.15	1.14	0.01	-0.01		
OP 2	*	12.86	10.37	2.49	2.55	-0.06	-0.06		
IP 2S	*	12.85	11.89	0.96	0.96	0.00	0.01		
OP 2S	*	12.92	11.70	1.22	1.17	0.04	0.02		
IP 3	*	19.37	19.07	0.30	0.21	0.09	0.00		
OP 3	*	19.60	17.92	1.68	1.68	0.00	-0.01		
IP 3S	*	19.20	18.28	0.92	0.87	0.05	0.01		
OP 3S	*	19.39	18.25	1.14	1.03	0.11	0.02		
IP 4	*	13.07	12.55	0.52	0.38	0.14	-0.01		
OP 4	*	13.21	11.44	1.77	1.63	0.14	0.00		
IP 4 S	*	13.25	12.52	0.73	0.69	0.04	0.01		
OP 4 S	*	13.08	11.79	1.29	1.19	0.10	0.00		
TIDE		9.65	9.33	0.32	0.06	0.26	0.06		
IP 5	*	8.99	8.35	0.64	0.60	0.04	0.03		
OP 5		7.82	6.94	0.88	0.76	0.12	-0.02		
IP 6	*	8.79	8.12	0.67	0.59	0.08	0.00		
OP 6	*	6.98	6.16	0.82	0.78	0.04	0.01		
IP 7		8.77	8.18	0.59	0.47	0.12	-0.03		
OP 7		8.17	7.45	0.72	0.72	0.00	-0.07		
IP 8	*	10.33	9.60	0.73	0.70	0.03	0.00		
OP 8	*	6.62	5.81	0.81	0.80	0.01	0.01		
IP 9	*	9.57	9.34	0.23	0.19	0.04	0.01		
OP 9	*	7.90	7.34	0.56	0.54	0.02	0.00		
IP 10	*	8.46	8.06	0.40	0.30	0.10	0.01		
OP 10	*	6.49	5.49	1.00	0.86	0.14	-0.01		
IP 11	*	18.47	17.35	1.12	1.15	-0.03	0.00		
OP 11	*	17.58	16.37	1.21	1.11	0.10	0.00		
IP 12	*	11.39	10.18	1.21	1.20	0.01	0.02		
OP 12		11.18	8.61	2.57	2.56	0.01	0.01		
		E DUPLICATE REA		DENTIFIER AND	READING)	1			
			0.00						
			0.10						
			12.55						
			7.45						
		44.00	5.81	4.00					
	2	11.80	10.80	1.06					
Gas Ven		18.92	8.81	10.11					

Note: Elevations based on Stantec survey 2021 '*' Denotes readings are taken from the PVC casing rather than the steel outer casing

Appendix C Manual Verification Gradient Review First Quarter 2022

January	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	1.45	0.31	1.21	0.22	1.56	0.52	1.33	0.93	0.78	0.60	0.73	0.86	1.00	0.99	0.87	1.25
Max	1.50	0.40	1.25	0.25	1.60	0.68	1.37	1.03	0.87	0.64	0.77	0.92	1.05	1.03	0.93	1.31
Min	1.38	0.23	1.16	0.16	1.51	0.37	1.26	0.79	0.66	0.54	0.65	0.75	0.92	0.93	0.74	1.16
Delta Manual Verification	0.03	-0.06	0.03	-0.09	-0.03	0.18	0.03	0.08	-0.05	0.01	-0.02	-0.03	-0.01	0.01	-0.14	-0.01
Value plus 0.072	0.10	0.13	0.10	0.17	0.10	0.25	0.10	0.15	0.12	0.08	0.10	0.10	0.08	0.08	0.21	0.08
Gradient Greater Than Variance	1.28	0.09	1.07	0.00	1.41	0.12	1.15	0.64	0.54	0.45	0.55	0.65	0.84	0.85	0.53	1.08
February																
Average	1.46	0.43	1.17	0.16	1.46	0.69	1.25	0.93	0.78	0.49	0.62	0.71	0.86	0.89	0.69	1.29
Max	1.50	0.45	1.20	0.23	1.52	0.75	1.31	0.98	0.86	0.54	0.65	0.75	0.92	0.93	0.75	1.31
Min	1.41	0.40	1.13	0.14	1.42	0.59	1.22	0.84	0.65	0.45	0.59	0.67	0.82	0.85	0.65	1.27
Delta Manual Verification	-0.01	0.06	-0.11	-0.02	-0.02	0.11	0.06	0.15	-0.05	-0.03	0.04	0.01	0.03	0.01	0.11	0.00
Value plus 0.072	0.09	0.13	0.19	0.09	0.09	0.18	0.13	0.23	0.12	0.10	0.11	0.08	0.10	0.08	0.18	0.07
Gradient Greater Than Variance	1.32	0.27	0.95	0.05	1.33	0.41	1.08	0.61	0.53	0.35	0.48	0.58	0.72	0.77	0.47	1.19
March																
Average	1.43	0.46	1.27	0.14	1.53	0.54	1.28	0.84	0.63	0.48	0.64	0.74	0.90	0.94	0.96	1.32
Max	1.60	0.49	1.49	0.15	1.74	0.62	1.51	0.95	0.86	0.65	0.78	0.92	1.07	1.19	1.30	1.52
Min	1.39	0.44	1.18	0.13	1.46	0.49	1.21	0.79	0.53	0.43	0.59	0.67	0.84	0.86	0.75	1.27
Delta Manual Verification	0.00	0.01	-0.07	0.05	-0.09	0.06	0.00	0.06	0.08	-0.03	0.04	0.01	0.03	0.01	0.11	0.00
Value plus 0.072	0.08	0.08	0.15	0.12	0.16	0.13	0.07	0.14	0.15	0.10	0.11	0.08	0.10	0.08	0.18	0.07
Gradient Greater Than Variance	1.31	0.36	1.04	0.02	1.29	0.36	1.14	0.65	0.38	0.33	0.48	0.58	0.74	0.77	0.56	1.19