MACTEC

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June 23, 2023

Ms. Taylor J. Monnin
New York State Department of Environmental Conservation
700 Delaware Avenue
Buffalo, New York 14209

Subject: **2022/2023 Periodic Review Report**
Alltift Landfill Site - NYSDEC Site No. 915054
MACTEC Engineering and Geology, P.C

Dear Ms. Monnin:

MACTEC Engineering and Geology, P.C. (MACTEC), is submitting this Periodic Review Report (PRR) for the Alltift Landfill Site/Ramco Steel Site (site) for the period of April 21, 2022, through April 21, 2023, on behalf of Honeywell International Inc. (Honeywell). The completed Site Management PRR Notice - Institutional and Engineering Controls Certification Form is provided herein as **Attachment A**, which includes a summary of deed restrictions. Supporting Tables, Figures, and Appendices are included herein as **Attachment B**. The remainder of this document follows the outline presented in the Site Management Periodic Review Report and IC/EC Certification Submittal reminder notice letter dated March 10, 2023.

I. Introduction

A. Site Summary:

The primary remedial action objectives at the Site are to eliminate the potential for direct contact with waste and impacted soils and sediments, and to eliminate the potential for impacted groundwater to discharge to the adjacent wetlands. Remedial construction activities began in November 2003 and were completed in November 2005. The key remedial actions for the site included:

- consolidation and capping of landfill waste and impacted soils and sediments
- construction of groundwater collection and relief trenches for groundwater control (see figures included in **Attachment B.1**)
- landfill gas monitoring
- groundwater monitoring
- restoration of ponds and wetlands.

The Alltift Landfill Site is located at 302 Abby Street in the southern portion of the City of Buffalo, Erie County, New York. The Ramco Steel Site is adjacent to the southeastern tip of the Alltift Landfill (see figures included in **Attachment B.1**).

The Alltift Landfill Site is a landfill/waste disposal area that was remediated between November 2003 and November 2005 under an Order of Consent between AlliedSignal (now Honeywell) and the NYSDEC.

The remedial construction activities included those at the adjacent Ramco Steel Site (NYSDEC Site No. 915046B). The remediation involved consolidation of the wastes present on the Alltift Landfill and Ramco Steel sites into a capped landfill on the Alltift Landfill Site. A groundwater control system (also referred to as a leachate collection system) was installed at the downgradient toe of the landfill to collect and pump groundwater that emanates from the landfill to a sewer line owned by the Buffalo Sewer Authority (BSA) in accordance with the Buffalo Pollutant Discharge Elimination System (BPDES) Permit. As part of the remedial construction, man-made wetlands were created on the western and southern ends of the Alltift Landfill Site and the adjacent Ramco Steel Site.

On April 5, 2013, the NYSDEC accepted and approved the Construction Certification Report and Operation, Maintenance, and Monitoring (OM&M) Manual (also referred to as the Site Management Plan) for the Alltift Landfill Site/Ramco Steel Site. The NYSDEC then re-classified the Alltift Landfill Site (NYSDEC Site No. 915054) from Class 2 to Class 4, and de-listed the Ramco Steel Site (NYSDEC Site No. 915046B).

On February 27, 2020, the NYSDEC accepted and approved a revised OM&M Manual which was amended to incorporate sampling of emergent contaminants as requested by the NYSDEC.

During the 2022/2023 reporting period, the following routine OM&M activities were completed in accordance with the OM&M Manual:

- BSA discharge monitoring
- groundwater monitoring
- quarterly site inspections
- routine maintenance activities.

B. Effectiveness Monitoring: The cap system is intact with suitable vegetative cover, and the wetlands mitigation area appears to be a successfully functioning wetland. Groundwater from the site is flowing into the groundwater capture trench as designed. Analytical results from the BSA monthly discharge sampling are within the BSA permit limits.

C. Compliance: The OM&M activities conducted during the reporting period were performed in accordance with the OM&M Manual.

D. Recommendations: Implementation of the activities specified in the OM&M Manual will continue, as described in Section VI.E of this letter.

II. Site Overview

A. Site Location: The 37.75-acre site is illustrated on the figures included in **Attachment B.1**. The site is located south of Tifft Street, approximately 1,300 feet west of Hopkins Street, and 5,000 feet east of the intersection of Tifft Street and Route 5. It is bounded on the north by Tifft Street; on the west by a railroad right-of-way and tracks; on the south by several ponds and the Ramco Steel Site; and on the east by Skyway Auto Parts, Inc. Prior to remediation, soils and sediments at the site containing contaminant concentrations exceeding relevant

NYSDEC standards were identified. Contaminants in soil exceeding standards included benzene, chlorobenzene, several semi-volatile organic compounds (SVOCs), polychlorinated biphenyls, and the metals arsenic, cadmium, chromium, iron, lead, and mercury. In groundwater benzene, chlorobenzene, ethylbenzene, toluene, xylene, naphthalene, 1,2-dichlorobenzene, 1,4-dichlorobenzene, 4-chloroaniline, pesticides, and the metals antimony, arsenic, chromium, iron, lead, and manganese exceeded standards. In sediments, contaminants exceeding standards included chlorobenzene, ethylbenzene, several SVOCs, and the metals antimony, arsenic, cadmium, chromium, iron, lead, manganese, and mercury.

The site remedy included consolidation and capping of landfill waste and impacted soils and sediments; construction of a groundwater collection trench and a groundwater relief trench; implementation of monthly BSA discharge monitoring; implementation of annual groundwater monitoring; landfill gas monitoring; and restoration of ponds and wetlands.

Groundwater collected in the trench is conveyed via a pumping system to a lift station located at the southeastern corner of the site. The lift station then discharges the collected groundwater to the sewer under a BSA discharge permit. As required by the current BSA discharge permit, samples of the effluent are collected from the lift station on a semi-annual basis and analyzed for compliance with the parameter limits listed in the permit.

B. Chronology: Remediation of the site began in November 2003 and concluded in November 2005. Waste and impacted sediment relocation was completed in September 2004, the construction of the groundwater collection trench was completed in October 2004, and the landfill capping system was completed in June 2005. Planting of wetland and woody vegetation, creating at least 11.2 acres of emergent marsh and open water habitats, was completed in November 2005.

III. Evaluation of Remedy Performance, Effectiveness, and Protectiveness

A. The performance, effectiveness, and protectiveness of the remedy is verified by ensuring that the cap system is intact as constructed, that groundwater is being routed to the groundwater collection trench, and that the wetlands area is successfully functioning as designed.

- Ensuring the cap system is intact as constructed: Quarterly site inspections that include monitoring of landfill vegetation, ground inspections, and visual checks for evidence of erosion or subsidence are conducted. Resulting observations from the inspections indicate that the integrity of the cap appears sound (see the quarterly inspection reports included in **Attachment B.2**).

- Ensuring that groundwater is being routed to the groundwater collection trench: The integrity of the surface drainage and groundwater collection systems is evaluated during the quarterly site inspections, and maintenance of these systems is performed when problems are identified. Water level measurements collected from site monitoring wells, piezometers, and sumps are used to establish quarterly groundwater elevations at the site (water level measurements and calculated groundwater elevations are included in **Attachment B.3** and **B.4**, respectively). The quarterly groundwater elevations are then used to plot quarterly groundwater contour maps. The contour maps indicate that groundwater at the site is being routed to the groundwater collection trench as designed (quarterly groundwater contour maps are included in **Attachment B.5**).

- Ensuring that the wetlands area is successfully functioning as designed: In its letter addressed to Honeywell, dated October 24, 2012, the USACE indicated that the terms and conditions of Permit No. 98-976-0162(0) had been met and that no further actions are required.

IV. IC/EC Plan Compliance Report – An IC/EC Plan was submitted to the NYSDEC on

December 13, 2012. The IC/EC Plan has been adopted, and a description of the status of institutional and engineering controls is included in **Attachment A** of this PRR.

V. Monitoring Plan Compliance Report – A separate Monitoring Plan Compliance Report is not required for this site. Monitoring requirements are addressed in the OM&M Manual.

VI. Operations and Maintenance Plan Compliance Report

A. Components of the OM&M Manual – Requirements of the OM&M Manual include the following:

- BSA Discharge Monitoring
- Groundwater Monitoring and Annual Groundwater Sampling
- Landfill Gas Monitoring
- Surface Water Level Measurements
- Quarterly Site Inspections
- Maintenance Activities (including annual mowing of cap, repair of access roads and areas without vegetative cover, repair of areas showing erosion or subsidence, and maintenance of the surface drainage and groundwater collection systems).

B. Summary of OM&M Completed during Reporting Period: BSA discharge monitoring, groundwater monitoring, quarterly site inspections, and other OM&M activities were completed in accordance with the OM&M Manual. The following summarizes the activities completed:

- BSA discharge monitoring was conducted on a semi-annual basis in accordance with the BPDES Permit in effect (Permit #21-12-BU098). Collected samples were submitted to SGS in Dayton, New Jersey for analyses of the required parameters. Honeywell's OM&M Contractor - Jacobs - prepared and submitted semi-annual discharge monitoring reports that documented the results of the monitoring to BSA.
- During the first 2022 semi-annual discharge monitoring event the sample results for mercury were in exceedance of the associated permit limit.

On May 24, 2022, notification was provided to the BSA of this exceedance. In accordance with the permit, and as directed by the BSA, resampling for mercury and pH was completed on May 27, 2022, and the resampling results indicated a mercury concentration below the permit limit. On July 12, 2022, BSA issued a Notice of Violation – Significant Non-Compliance to Honeywell International. The first semi-annual discharge monitoring report and associated mercury exceedance notification and Notice of Violation documentation are included in **Attachment B.6**. During discussions with the laboratory, the laboratory project manager indicated that the sample contained some particulate matter, and that the mercury analysis equipment was recently down requiring maintenance. Additionally, the laboratory analytical report indicates an "elevated sample detection limit due to difficult sample matrix". These are considered potential contributing factors that may have resulted in the detected mercury concentration.

- During the second 2022 semi-annual discharge monitoring event the sample results for total suspended solids were in exceedance of the associated permit limit. After receiving preliminary TSS sampling results from SGS laboratory, the BSA was verbally notified of exceedance on September 22, 2022. After receiving the validated laboratory report, a written notification on this exceedance was provided to the BSA on October 4, 2022. A second sample for TSS collected on September 23, 2022, and the result was below the permit limit, but elevated compared to historical TSS results. TSS is a surchargeable permitted parameter, and as such no Notice of Violation was issued. The second semi-annual discharge monitoring report and associated TSS exceedance notification documentation is included in **Attachment B.6**. An investigation concluded that suspended solids in the permitted discharge likely had increased due to the presence of precipitated iron solids in the low-lift station. Corrective actions included subsequent removal of precipitated iron solids from the low-lift station and redevelopment of the well screen for Sump #1.
- Groundwater levels for site piezometers and groundwater collection trench sumps were recorded on a quarterly basis. The static groundwater

level for background monitoring well MW-2 was recorded during the annual groundwater sampling event. Groundwater level is not measured in monitoring well MW-2 during quarterly events because the well is located offsite and not within the extent of the water level contour maps presented in this report.

- The annual groundwater sampling event completed on September 27, 2022, included collection of aqueous samples from background monitoring well MW-2 and the collection system sumps; the samples were analyzed for parameters in accordance with the OM&M Manual, including the metals (antimony, arsenic, cadmium, chromium, iron, lead, manganese, and mercury), the volatile organic compounds (benzene, chlorobenzene, ethylbenzene, xylenes, 1,2-dichlorobenzene, and 1,4-dichlorobenzene), the semi-volatile organic compounds (4-chloroaniline, naphthalene, and 1,4-dioxane), and per- and polyfluoroalkyl substances.
- Annual groundwater sampling procedures and guidelines identified in the OM&M Manual were followed during sample collection and handling.
- Annual groundwater sampling results, presented in **Attachment B.7**, are consistent with historical results. Trend graphs providing comparison to historical data are provided in **Attachment B.8**. Sump 1 sample concentrations of benzene, chlorobenzene, 1,2-dichlorobenzene, 1,4,-dichlorobenzene, and PFOS have generally exhibited an increasing trend over time, with the highest concentration of these parameters detected in September 2022. Sump 2 sample concentrations of benzene and chlorobenzene generally exhibit a decreasing trend over time. Sump 3 sample concentrations of chlorobenzene exhibited an increasing trend over time, with the highest concentration of this parameter detected in September 2022. Sump 4 sample concentrations of benzene and chlorobenzene have historically exhibited an increasing trend over time, with the highest concentrations detected during the October 2020 sampling event. Concentrations of these two parameters in Sump 4 have decreased during the last two years. Concentrations of other parameters in the four sumps generally do not exhibit any trends over time. MW-2 sample concentrations of metals have generally declined over time, while concentrations of VOCs and SVOCs have generally been non-detect.

PFOA and PFOS concentrations in MW-2 samples exhibit an increasing trend.

- Landfill gas monitoring was last conducted using a GEM 2000 (SN# GEM12691) on May 2, 2022, and March 8, 2023, and the results are presented in **Attachment B.9**. Results for the reporting period are consistent with historical results and do not indicate any potential concerns relative to methane concentrations.
- Quarterly site inspections were conducted as outlined in the OM&M Manual. During the December 2022 inspection, sections of the synthetic liner were observed to be exposed along the north and northeastern sides of the landfill, apparently due to heavy deer traffic along the toe of the landfill. Additionally, sections of the fence are damaged, likely due to heavy build-up of wind-blow snow and ice. Repairs to address these findings will be completed in 2023, outside of this reporting period, and will be reported in the next Periodic Review Report.
- Routine and non-routine maintenance activities completed during the reporting period included the following:
  - Periodic inspection and cleaning, or replacement as needed, of the lift station flow meter.
  - Periodic inspection/maintenance of sump pumps.
  - Plowing of snow from the entrance road as necessary.
  - During the October 2021 inspection a section of the synthetic liner was observed to be exposed along the access road between Sumps 2 and 3. The cover system repairs were addressed on May 2, 2022, by placement and subsequent seeding of 20 cubic yards of screened topsoil purchased from Woodlands Earth and Stone in Tonawanda, New York, which is commercially sold for use in residential gardens and lawns. Characterization of the clean fill used to repair the cover system was completed and the analytical data were provided, as part of a Soil Import Request, to NYSDEC, and NYSDEC approved the request on July 6, 2022 (refer to **Attachment B.10**).
  - During the June 2022 quarterly site inspection, signs of trespassing through the site to access the scrap yard, and car parts

on the site near breaches in the fence near the scrap yard were observed. The car parts were removed from the site and brought to the adjacent scrap yard, the fence breaches were repaired, and new 'Posted' signs were installed near fence breaches. During the site inspection, riser j-plugs were replaced with new ones at the following piezometers: PZ-1, PZ-4, PZ-6, PZ-8, PZ-9, PZ-13, and PZ-15.

- On August 3, 2022, landfill gas vent turbines identified as requiring replacement during the June 2022 quarterly inspection were replaced.
- Mowing of landfill cover was completed on September 22, 2022.
- The Sump #1 pump pitless adapter was observed to be improperly seated during inspection in September 2022. The pitless adapter was removed and reset but could not be completely reset due to wear of the brass component and will need to be replaced.
- Sediment removed from the low-lift station was containerized and shipped from the site on December 14, 2022, for disposal as non-hazardous waste at the Chaffee Landfill, in Chaffee, New York under an approved waste profile with Waste Management (Profile No. 118384NY).
- On December 22, 2022, the Sump #1 screen was redeveloped as part of corrective actions to reduce suspended solids in the effluent.

C. Evaluation of Remedial Systems: During the reporting period, the remedial systems appeared to be effectively achieving the objectives of the remedial action.

D. OM&M Deficiencies: None.

E. Conclusions and Recommendations:

The following conclusions are presented based on the data collected during the reporting period:

- Based on the results of the quarterly inspection reports, which verify that the integrity of the cap is satisfactory, and that vegetation is established, the remedy remains protective in its ability to eliminate the potential for direct contact with waste and impacted soils and sediments.
- Based on evaluation of the collected groundwater elevation data, which indicates that impacted groundwater is flowing into the groundwater collection trench as designed, the remedy is eliminating the potential for impacted groundwater to discharge to the adjacent wetlands.
- Based on the analytical results from BSA discharge monitoring, concentrations of effluent parameters were initially above permit limits for mercury during the first semi-annual event and for total suspended solids during the second semi-annual event; however, analytical results of additional discharge samples collected for both events were within the BSA permit limits.

The following recommendations have been developed based on the data collected during the reporting period:

- BSA Discharge Monitoring – In accordance with the current BSA permit, discharge monitoring will be conducted on a semi-annual basis, with reports issued to BSA and copied to the NYSDEC. A new BSA permit 21-12-BU098 was issued on November 10, 2021, with an effective date of December 1, 2021, and expiration date of November 30, 2024.
- Groundwater Monitoring – Annual groundwater monitoring will be completed in 2023 with groundwater monitoring results reported in the next annual PRR submittal. Consistent with recent changes in NYSDEC requirements, the analytical method for Per- and Polyfluoroalkyl Substances will be changed to Method 1633.
- Water Level Measurements – Collection of water level measurements will be conducted on a quarterly basis.
- Landfill Gas Monitoring – Landfill gas monitoring will continue on an annual basis.

- Surface Water Level Measurements – in conjunction with the site inspections, surface water level measurements will continue to be collected using the top of the weir structure at the north end of Pond A as a reference.
- Site inspections will continue on a quarterly basis.
- OM&M activities will continue on a routine basis, with the frequency adjusted as needed based upon results of site inspections or in response to groundwater collection system autodialer callouts.
- Required repairs to the landfill gas vent turbines identified during the March 2023 quarterly inspection will be completed.
- Repairs to the Sump #1 pump pitless adapter, exposed section of landfill liner, and damaged fencing will be completed.
- The next PRR submittal should be completed and submitted to NYSDEC by the end of May 2024.

VII. Overall PRR Conclusions

A. Compliance: Activities were completed during the reporting period as noted above.

B. Performance and Effectiveness of the Remedy: The condition of the cap system and consistent groundwater flow into the groundwater collection trench indicate that the remedy is performing effectively.

C. Future PRR submittals: It is anticipated that the next PRR will be submitted by the end of May 2024.

CLOSING

Please contact Ryan Belcher at (207) 289-4213 with any questions or comments on this submittal.

Respectfully,

MACTEC Engineering and Geology P.C

Ryan Belcher
Environmental Engineer

Mark Stelmack, P.E.
Associate Engineer

Attachments

Attachment A - IC/EC Controls Certification Form

Attachment B – Supporting Tables, Figures and Appendices

- Attachment B.1 Site Figures
- Attachment B.2 Quarterly Inspection Reports
- Attachment B.3 Water Level Measurements
- Attachment B.4 Quarterly Groundwater Elevations
- Attachment B.5 Quarterly Groundwater Contour Maps
- Attachment B.6 Discharge Monitoring Reports
- Attachment B.7 Annual Groundwater Monitoring Data
- Attachment B.8 Groundwater Trend Graphs
- Attachment B.9 Landfill Gas Monitoring Results
- Attachment B.10 Soil Import Documentation

Electronic Copy to:

- S. Jazic (Honeywell)
- J. Paananen (City of Buffalo)
- K. Boland (CSX)
- John Formoza (Jacobs)
- Michael Fay (Jacobs)

ATTACHMENT A

PRR NOTICE

IC/EC CONTROLS CERTIFICATION FORM

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. 915054

Site Name Alltift Landfill

Site Address: 302 Abby Street Zip Code: 14202
City/Town: Buffalo
County: Erie
Site Acreage: 37.750

Reporting Period: April 21, 2022 to April 21, 2023

	YES	NO
1. Is the information above correct?	X	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	X
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	X
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	X
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	X

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Closed Landfill	X	☐
7. Are all ICs in place and functioning as designed?	X	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative Date

SITE NO. 915054 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
132.12-1-21	City of Buffalo, Perfecting	Ground Water Use Restriction Site Management Plan IC/EC Plan Monitoring Plan Landuse Restriction O&M Plan

In addition to the Engineering Controls in place after the remediation, this site is under the control of an Environmental Notice placed by the Department filed 3/12/2012.

Institutional Controls - Environmental Notice:

Property subject to provision of OM&M Manual;
no excavation that threatens engineering control(EC);
no disturbance of EC w/out Department waiver;
restrict re-use to commercial/industrial; and,
prohibit use of groundwater.

132.12-1-22	CSX Transportation Inc. - Adrian Realty	Ground Water Use Restriction Landuse Restriction O&M Plan

A Declaration of Covenants and Restrictions was placed on this property by the owner on 08/05/2011(Filed 08/11/2011)as a requirment of the ROD dated 3/27/1995 for the Alltift Landfill Site, Site #915054.

Deed Restriction - 106 Abby Street:
No activity that will prevent or interfere with ongoing remediation;
will not disturb cap or cover;
prohibition of any new use without Department waiver;
prohibit use of groundwater;
allow Department access;
no interference with maintenance of wetlands;
will not impede maintenance of water elevation control (headwall);
no interference with ECs and Institutional Controls (ICs);
declaration deemed covenant, runs with the land and binding on sucessors and assigns;and,
any deed of conveyance shall recite the covenants and restrictions.

133.09-1-17	Skyway Auto Parts Inc.	Ground Water Use Restriction Landuse Restriction O&M Plan

No Engineering controls are required on this site. A Declaration of Covenants and Restrictions was placed on this property by the owner on 2/15/2012(Filed 3/01/2012)as a requirment of the ROD.

Deed Restriction - 637 Tifft Street

No activity that will prevent or interfere with ongoing remediation;
provide 60 day notice of any change of use;
prohibit groundwater use;
allow access for Department;
declaration deemed covenant, runs with the land and binding on sucessors and assigns;and,
any deed of conveyance shall recite the covenants and restrictions.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
132.12-1-21	
	Leachate Collection
	Cover System
	Fencing/Access Control

Engineering Controls:

Cover system - Part 360 composite cap
Leachate collection trench and sump system
Fencing around entire site

132.12-1-22	
	Cover System
	Leachate Collection
	Fencing/Access Control

Engineering Controls:

Cover system - Part 360 composite cap
Leachate collection trench and sump system
Fencing around entire site

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
☒	☐

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

(a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
☒	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. 915054

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Sasa Jazic (print name) at 14 Columbia Circle, Suite 103, Albany, NY 12203 (print business address),

am certifying as Remediation Manager for the Remedial Party (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

6/23/2023
Date

EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Mark Stelmack (print name) at MACTEC Engineering and Geology, P.C, Portland, ME (print business address),

am certifying as a Professional Engineer for the Remedial Party (Owner or Remedial Party)

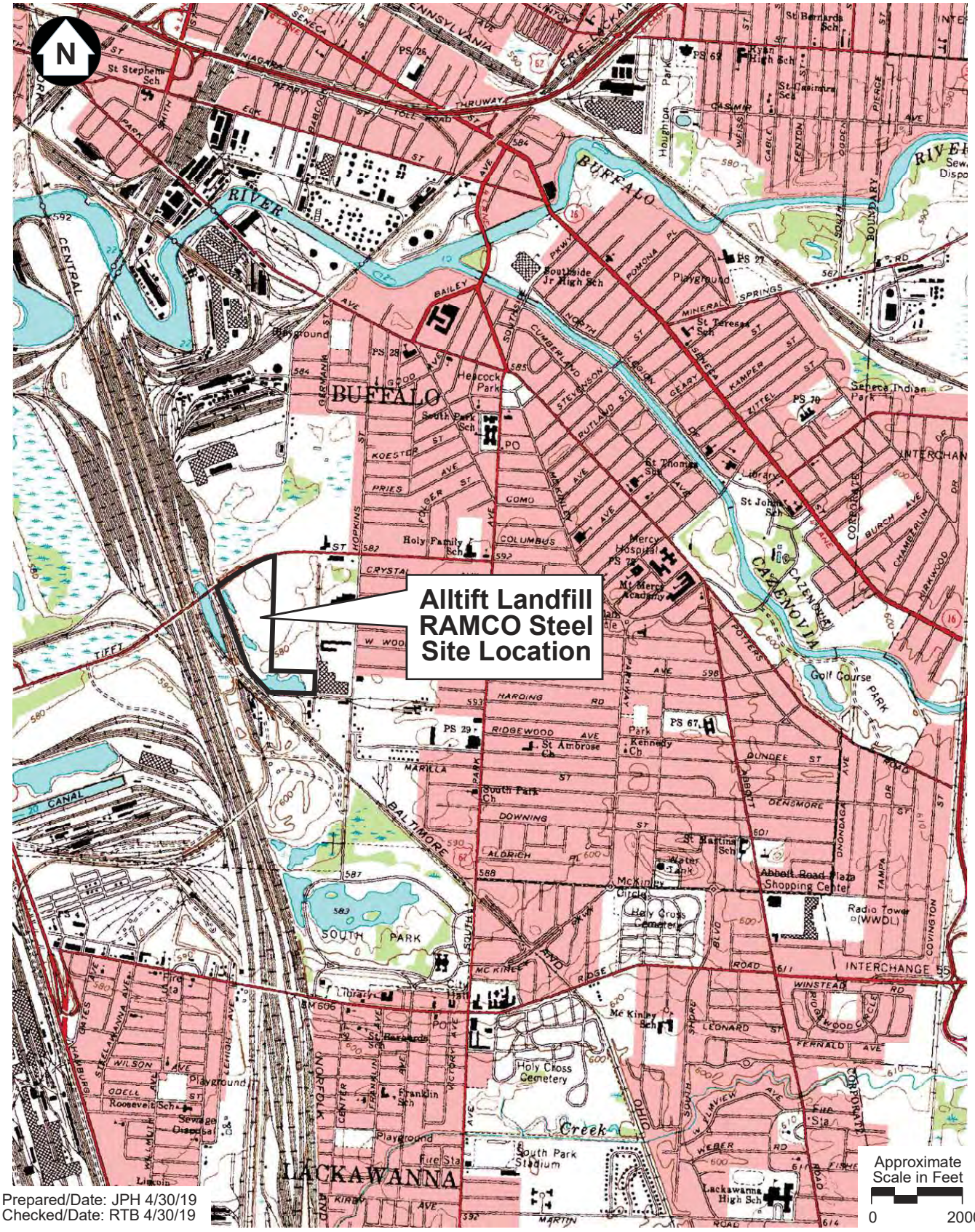
Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification	Stamp (Required for PE)	Date
		6/23/2023

ATTACHMENT B

SUPPORTING TABLES, FIGURES, AND APPENDICES

ATTACHMENT B.1

SITE FIGURES



Honeywell

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Site Location Map
Alltift Landfill/Ramco Steel Site
Project No. 3616216168
Figure 1

PORT2011018a.ai

Honeywell

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Current Conditions
Site Plan

Project 3616216168

Figure 2

Document: P:\Projects\HoneywellO,M and M Team\Alltift Landfill\4.0 Project Deliverables\4.3 Drawing\GIS\MapDocuments\Site_Conditions_2021_11x17P.mxd PDF: P:\Projects\HoneywellO,M and M Team\Alltift Landfill\4.0 Project Deliverables\4.3 Drawing\GIS\Figures\June 2022\Figure 2 - Current Conditions Site Plan.pdf 06-02-2022 10:33 AM brian.peters

ATTACHMENT B.2

QUARTERLY INSPECTION REPORTS

Site Inspection Form

Jacobs

Site Name: **Alltift** Project Number: **30130** Weather: 30's, clear

Completed by: Benjamin Hendry, Paige Palmer Date: 03/08/2023

Yes	No	A. Security
☒	☐	1. Does fence exist?
☒	☐	2. Is there a breach in fence? If yes, describe and include photos in log
☒	☐	3. Locks in good condition and secured on gate upon arrival?
☒	☐	4. Posted signs in acceptable condition and legible?
☒	☐	5. Evidence of trespassers/vandalism observed?

Comments: Area of damaged fence near Skyway Auto due to erosion of embankment needs to be repaired, small fence breaches near PZ-11 need repair

		B. General Site Conditions
☐	☒	1. Vegetation stress present?
☐	☒	2. Mowing required?
☐	☒	3. Access road drivable?
☐	☒	4. Odors detected?

Comments: Site in good condition, mowing scheduled for Sept. 2023

		C. Cap Inspection
☒	☐	1. Cap present? (If no, skip section)
☐	☒	2. Exposed waste observed?
☐	☒	3. Side slope unstable?
☒	☐	4. Erosion evident?
☐	☒	5. Leachate seeps observed (indicated by discolored vegetation)?
☒	☐	6. Synthetic liner exposed?
☐	☒	7. Bare spots?
☐	☒	8. Presence of burrowing animals?
☐	☒	9. Deep rooted vegetation observed?
☐	☒	10. Cracking observed?
☐	☒	11. Ponding water observed?
☐	☒	12. Evidence of methane seeps?

Comments: Exposed liner in some areas, game trails have worn through cover material around back cap perimeter. Repair work scheduled for Q2.

Yes	No	N/A	D. Surface Water
☐	☐	☒	1. Obstruction of flow ditches?
☐	☐	☒	2. Erosion of ditches?
☐	☐	☒	3. Silt & erosion control measures missing or damaged?
☐	☐	☒	4. Culverts in acceptable condition?
☐	☐	☒	5. Evidence of overflow or uncontrolled flow?
☐	☐	☒	6. Outfalls in good condition?
☐	☐	☒	7. Sedimentation basin/ponds secure?

Comments:

			E. Methane Gas Control
☒	☐		1. Does one exist? (If no, skip section)
☒	☐	☐	2. Is system active or passive? Passive vents
☐	☐	☒	3. Permanent methane gas probes?
☐	☐	☒	4. Locks on monitoring wells?
☐	☒	☐	5. Vents in working order?
☐	☐	☒	6. Well seals in place?
☒	☐	☐	7. Methane levels within LEL limits?
☒	☐	☐	8. Monitoring reports current?

Comments: Locks in place on all wells, all monitoring up to date. Two turbine vent fans require securing to vent pipes, parts ordered and work scheduled for Q2.

			F. Groundwater Monitoring & Recovery Wells
☒	☐		1. Monitoring and/or recovery systems exist on-site? (If no, skip section)
☒	☐	☐	2. Locks on wells?
☒	☐	☐	3. Wells in good condition?
☒	☐	☐	4. Well seals in good condition?
☒	☐	☐	5. Access to wells?
☒	☐	☐	6. Monitoring reports current?

Comments: All monitoring reports current.

Yes	No	N/A	G. Leachate Collection System
☒	☐		1. Leachate collection system exists on-site? (If no, skip section)
			2. Collection method:
☒	☐		a. Sump?
☐	☒		b. Well point?
☐	☒		c. Earthen basin/pond?
☐	☒		d. Structure secured?
☐	☐		e. Other _____
			3. Pumping system:
☒	☐		a. Automatic?
☐	☒		b. Manual?
☒	☐		c. Mechanically operable?
☐	☒		d. Leaks/failures?
			4. Disposals:
☐	☒	☐	a. Onsite pretreatment/treatment?
☐	☒	☐	b. Surface discharge? (NPDES/SPDES)
☒	☐	☐	c. POTW – hard piped?
☐	☐	☒	d. Quick disconnect caps in place?
			5. Transportation:
☐	☐	☒	a. Chemicals?
☐	☐	☒	b. Filter cake?
☒	☐	☐	6. Ancillary equipment in acceptable condition? (Pipes, valves, pumps, vaults, instruments, etc.)
☒	☐	☐	7. Monitoring reports current?

Comments: Both pumps operable and running in auto.

Photo Log

Description	Image
Collapsed fence section near Tifft St. & Skyway Auto	

Description	Image
Collapsed fence section, facing South	

Description	Image
Exposed liner area at NE cap area in path of game trail	

Description	Image
NE corner of site	

Description	Image
North side of site fence facing West	

Description	Image
NE site gate area	

Description	Image
North side of cap, facing West	

Description	Image
NW site shed and gate area	

Description	Image
North side of site facing East from shed area	

Description	Image
Shed area	

Description	Image
Stone road facing North to shed	

Description	Image
Stone road facing South to wet well	

Description	Image
Stone road facing West from wet well	

Description	Image
Top of cap facing North	

Description	Image
Top of cap facing SW	

Site Inspection Form

Jacobs

Site Name: **Alltift** Project Number: **30130** Weather: 60's, Sunny

Completed by: Benjamin Hendry Date: 06/03/2022

Yes	No	A. Security
☒	☐	1. Does fence exist?
☐	☒	2. Is there a breach in fence? If yes, describe and include photos in log
☒	☐	3. Locks in good condition and secured on gate upon arrival?
☒	☐	4. Posted signs in acceptable condition and legible?
☒	☐	5. Evidence of trespassers/vandalism observed?

Comments: Signs of trespassing through site to access scrap yard were observed; car parts on site near breaches in fence to scrap yard. Removed car parts and patched all breaches in fence. Placed new 'Posted' signs near fence breaches.

		B. General Site Conditions
☐	☒	1. Vegetation stress present?
☐	☒	2. Mowing required?
☐	☒	3. Access road drivable?
☐	☒	4. Odors detected?

Comments: Site in good condition. Repairs and landscaping completed

		C. Cap Inspection
☒	☐	1. Cap present? (If no, skip section)
☐	☒	2. Exposed waste observed?
☐	☒	3. Side slope unstable?
☐	☒	4. Erosion evident?
☐	☒	5. Leachate seeps observed (indicated by discolored vegetation)?
☐	☒	6. Synthetic liner exposed?
☐	☒	7. Bare spots?
☐	☒	8. Presence of burrowing animals?
☐	☒	9. Deep rooted vegetation observed?
☐	☒	10. Cracking observed?
☐	☒	11. Ponding water observed?
☐	☒	12. Evidence of methane seeps?

Yes	No	N/A	D. Surface Water
☐	☐	☒	1. Obstruction of flow ditches?
☐	☐	☒	2. Erosion of ditches?
☐	☐	☒	3. Silt & erosion control measures missing or damaged?
☐	☐	☒	4. Culverts in acceptable condition?
☐	☐	☒	5. Evidence of overflow or uncontrolled flow?
☐	☐	☒	6. Outfalls in good condition?
☐	☐	☒	7. Sedimentation basin/ponds secure?

Comments:

			E. Methane Gas Control
☒	☐		1. Does one exist? (If no, skip section)
☒	☐	☐	2. Is system active or passive? Passive vents
☐	☐	☒	3. Permanent methane gas probes?
☐	☐	☒	4. Locks on monitoring wells?
☒	☐	☐	5. Vents in working order?
☐	☐	☒	6. Well seals in place?
☒	☐	☐	7. Methane levels within LEL limits?
☒	☐	☐	8. Monitoring reports current?

Comments: Bearings in some vent fans are going, and need to be replaced soon.

			F. Groundwater Monitoring & Recovery Wells
☒	☐		1. Monitoring and/or recovery systems exist on-site? (If no, skip section)
☒	☐	☐	2. Locks on wells?
☒	☐	☐	3. Wells in good condition?
☒	☐	☐	4. Well seals in good condition?
☒	☐	☐	5. Access to wells?
☒	☐	☐	6. Monitoring reports current?

Comments: New j-plugs installed where needed

Yes	No	N/A	G. Leachate Collection System
☒	☐		1. Leachate collection system exists on-site? (If no, skip section)
			2. Collection method:
☒	☐		a. Sump?
☐	☒		b. Well point?
☐	☒		c. Earthen basin/pond?
☐	☒		d. Structure secured?
☐	☐		e. Other _____
			3. Pumping system:
☒	☐		a. Automatic?
☐	☒		b. Manual?
☒	☐		c. Mechanically operable?
☐	☒		d. Leaks/failures?
			4. Disposals:
☐	☒	☐	a. Onsite pretreatment/treatment?
☐	☒	☐	b. Surface discharge? (NPDES/SPDES)
☒	☐	☐	c. POTW – hard piped?
☐	☐	☒	d. Quick disconnect caps in place?
			5. Transportation:
☐	☐	☒	a. Chemicals?
☐	☐	☒	b. Filter cake?
☒	☐	☐	6. Ancillary equipment in acceptable condition? (Pipes, valves, pumps, vaults, instruments, etc.)
☒	☐	☐	7. Monitoring reports current?

Comments: Both pumps operable and running in auto.

Photo Log

Description	Image
Shed area	

Stone road to gate	

Stone road from wet well to shed	

Wet well area	

Stone road from wet well to shed	

Repaired fence section near wet well	

Main access gate with signage	

Tifft St. fence section	

Patched fence section on Tifft St. side of sife	

Patched fence area near second access gate on Tifft St.	

Tifft St. Fence section, where second access gate is located	

Stone Road from Sump 2 to shed	

Landfill cap from near shed	

Landfill cap from near wet well	

Site Inspection Form

Jacobs

Site Name: **Alltift** Project Number: **30130** Weather: 70's, overcast

Completed by: Benjamin Hendry Date: 09/07/2022

Yes	No	A. Security
☒	☐	1. Does fence exist?
☐	☒	2. Is there a breach in fence? If yes, describe and include photos in log
☒	☐	3. Locks in good condition and secured on gate upon arrival?
☒	☐	4. Posted signs in acceptable condition and legible?
☒	☐	5. Evidence of trespassers/vandalism observed?

Comments: No new fence breaches, all signage OK.

		B. General Site Conditions
☐	☒	1. Vegetation stress present?
☒	☐	2. Mowing required?
☐	☒	3. Access road drivable?
☐	☒	4. Odors detected?

Comments: Site in good condition, mowing required.

		C. Cap Inspection
☒	☐	1. Cap present? (If no, skip section)
☐	☒	2. Exposed waste observed?
☐	☒	3. Side slope unstable?
☐	☒	4. Erosion evident?
☐	☒	5. Leachate seeps observed (indicated by discolored vegetation)?
☐	☒	6. Synthetic liner exposed?
☐	☒	7. Bare spots?
☐	☒	8. Presence of burrowing animals?
☐	☒	9. Deep rooted vegetation observed?
☐	☒	10. Cracking observed?
☐	☒	11. Ponding water observed?
☐	☒	12. Evidence of methane seeps?

Yes	No	N/A	D. Surface Water
☐	☐	☒	1. Obstruction of flow ditches?
☐	☐	☒	2. Erosion of ditches?
☐	☐	☒	3. Silt & erosion control measures missing or damaged?
☐	☐	☒	4. Culverts in acceptable condition?
☐	☐	☒	5. Evidence of overflow or uncontrolled flow?
☐	☐	☒	6. Outfalls in good condition?
☐	☐	☒	7. Sedimentation basin/ponds secure?

Comments:

			E. Methane Gas Control
☒	☐		1. Does one exist? (If no, skip section)
☒	☐	☐	2. Is system active or passive? Passive vents
☐	☐	☒	3. Permanent methane gas probes?
☐	☐	☒	4. Locks on monitoring wells?
☒	☐	☐	5. Vents in working order?
☐	☐	☒	6. Well seals in place?
☒	☐	☐	7. Methane levels within LEL limits?
☒	☐	☐	8. Monitoring reports current?

Comments: Replaced all turbine fan vents this quarter, all functioning properly.

			F. Groundwater Monitoring & Recovery Wells
☒	☐		1. Monitoring and/or recovery systems exist on-site? (If no, skip section)
☒	☐	☐	2. Locks on wells?
☒	☐	☐	3. Wells in good condition?
☒	☐	☐	4. Well seals in good condition?
☒	☐	☐	5. Access to wells?
☒	☐	☐	6. Monitoring reports current?

Comments:

Yes	No	N/A	G. Leachate Collection System
☒	☐		1. Leachate collection system exists on-site? (If no, skip section)
			2. Collection method:
☒	☐		a. Sump?
☐	☒		b. Well point?
☐	☒		c. Earthen basin/pond?
☐	☒		d. Structure secured?
☐	☐		e. Other _____
			3. Pumping system:
☒	☐		a. Automatic?
☐	☒		b. Manual?
☒	☐		c. Mechanically operable?
☐	☒		d. Leaks/failures?
			4. Disposals:
☐	☒	☐	a. Onsite pretreatment/treatment?
☐	☒	☐	b. Surface discharge? (NPDES/SPDES)
☒	☐	☐	c. POTW – hard piped?
☐	☐	☒	d. Quick disconnect caps in place?
			5. Transportation:
☐	☐	☒	a. Chemicals?
☐	☐	☒	b. Filter cake?
☒	☐	☐	6. Ancillary equipment in acceptable condition? (Pipes, valves, pumps, vaults, instruments, etc.)
☒	☐	☐	7. Monitoring reports current?

Comments: Both pumps operable and running in auto.

Photo Log

Description	Image
Cap perimeter	

Description	Image
Cap perimeter	
Cap perimeter	

Description	Image
Cap perimeter	
Cap perimeter	

Description	Image
Stone road to Gate/Shed	
Stone road	

Description	Image
Stone road	
Stone road	

Site Inspection Form

Jacobs

Site Name: **Alltift** Project Number: **30130** Weather: 30's, rain

Completed by: Benjamin Hendry Date: 12/15/2022

Yes	No	A. Security
☒	☐	1. Does fence exist?
☒	☐	2. Is there a breach in fence? If yes, describe and include photos in log
☒	☐	3. Locks in good condition and secured on gate upon arrival?
☒	☐	4. Posted signs in acceptable condition and legible?
☒	☐	5. Evidence of trespassers/vandalism observed?

Comments: Area of damaged fence near Skyway Auto due to erosion of embankment needs to be repaired. Other fence breach near wet well which was previously inaccessible/hidden by Fragmites growth. Photos attached

		B. General Site Conditions
☐	☒	1. Vegetation stress present?
☐	☒	2. Mowing required?
☐	☒	3. Access road drivable?
☐	☒	4. Odors detected?

Comments: Site in good condition, mowing completed in 09/2022

		C. Cap Inspection
☒	☐	1. Cap present? (If no, skip section)
☐	☒	2. Exposed waste observed?
☐	☒	3. Side slope unstable?
☒	☐	4. Erosion evident?
☐	☒	5. Leachate seeps observed (indicated by discolored vegetation)?
☒	☐	6. Synthetic liner exposed?
☐	☒	7. Bare spots?
☐	☒	8. Presence of burrowing animals?
☐	☒	9. Deep rooted vegetation observed?
☐	☒	10. Cracking observed?
☐	☒	11. Ponding water observed?
☐	☒	12. Evidence of methane seeps?

Comments: Exposed liner in some areas which Fragmites growth had previously hidden. Game trails have also eroded some cover soil in areas around perimeter of cap. Needs additional cover soil

Yes	No	N/A	D. Surface Water
☐	☐	☒	1. Obstruction of flow ditches?
☐	☐	☒	2. Erosion of ditches?
☐	☐	☒	3. Silt & erosion control measures missing or damaged?
☐	☐	☒	4. Culverts in acceptable condition?
☐	☐	☒	5. Evidence of overflow or uncontrolled flow?
☐	☐	☒	6. Outfalls in good condition?
☐	☐	☒	7. Sedimentation basin/ponds secure?

Comments:

			E. Methane Gas Control
☒	☐		1. Does one exist? (If no, skip section)
☒	☐	☐	2. Is system active or passive? Passive vents
☐	☐	☒	3. Permanent methane gas probes?
☐	☐	☒	4. Locks on monitoring wells?
☒	☐	☐	5. Vents in working order?
☐	☐	☒	6. Well seals in place?
☒	☐	☐	7. Methane levels within LEL limits?
☒	☐	☐	8. Monitoring reports current?

Comments: All vents are functional, locks in place on all wells, all monitoring up to date.

			F. Groundwater Monitoring & Recovery Wells
☒	☐		1. Monitoring and/or recovery systems exist on-site? (If no, skip section)
☒	☐	☐	2. Locks on wells?
☒	☐	☐	3. Wells in good condition?
☒	☐	☐	4. Well seals in good condition?
☒	☐	☐	5. Access to wells?
☒	☐	☐	6. Monitoring reports current?

Comments: GWCT Sump 1 redeveloped on 12-15-22, all monitoring reports current.

Yes	No	N/A	G. Leachate Collection System
☒	☐		1. Leachate collection system exists on-site? (If no, skip section)
			2. Collection method:
☒	☐		a. Sump?
☐	☒		b. Well point?
☐	☒		c. Earthen basin/pond?
☐	☒		d. Structure secured?
☐	☐		e. Other _____
			3. Pumping system:
☒	☐		a. Automatic?
☐	☒		b. Manual?
☒	☐		c. Mechanically operable?
☐	☒		d. Leaks/failures?
			4. Disposals:
☐	☒	☐	a. Onsite pretreatment/treatment?
☐	☒	☐	b. Surface discharge? (NPDES/SPDES)
☒	☐	☐	c. POTW – hard piped?
☐	☐	☒	d. Quick disconnect caps in place?
			5. Transportation:
☐	☐	☒	a. Chemicals?
☐	☐	☒	b. Filter cake?
☒	☐	☐	6. Ancillary equipment in acceptable condition? (Pipes, valves, pumps, vaults, instruments, etc.)
☒	☐	☐	7. Monitoring reports current?

Comments: Both pumps operable and running in auto.

Photo Log

Description	Image
Cap perimeter	

Description	Image
Cap perimeter	

Description	Image
Exposed liner	

Description	Image
Cap perimeter w. exposed liner	

Description	Image
Cap perimeter w. exposed liner	

Description	Image
Cap perimeter w. exposed liner	

Description	Image
N. side of cap fence line	

Description	Image
Cap perimeter at NE corner of site	

Description	Image
Gate at NE corner	

Description	Image
NE side of cap	

Description	Image
NE corner near Skyway Auto	

Description	Image
NE corner where fence is collapsing due to erosion	

Description	Image
Fallen fence area	

Description	Image
Damaged fence area looking S.	

Description	Image
Cut fence section previously hidden by Fragmites	

Description	Image
E. side fence, looking S. Some soil erosion on side of bank w. exposed liner	

Description	Image
E. side of property looking S. to wet well	

Description	Image
Exposed liner at drainage feature S. of wet well, in path of game trail	

Description	Image
Fence line S. of wet well with visible game trail	

Description	Image
Stone road	

Description	Image
Stone road	

Description	Image
Shed/ gate area from other side of canal	

Description	Image
Shed/ gate area	

Description	Image
New trail cam/ security box	

ATTACHMENT B.3

WATER LEVEL MEASUREMENTS

Alltift Landfill
Buffalo, New York

Piezometer Readings (DTW, ft)	10-May-22	7-Jul-22	15-Dec-22	8-Mar-23
PZ-1	3.59	4.68	5.02	4.50
PZ-2	4.54	7.40	7.28	7.20
PZ-3	5.41	11.02	15.40	10.70
PZ-4	4.28	5.13	5.47	4.82
PZ-5	3.34	6.35	6.64	6.10
PZ-6	4.66	9.97	9.25	12.75
PZ-7	4.77	8.64	8.18	8.02
PZ-8	4.33	7.01	6.74	6.55
PZ-9	6.01	8.06	6.86	6.24
PZ-10	7.93	8.70	8.72	7.71
PZ-11	6.40	8.02	6.65	6.40
PZ-12	7.66	9.07	7.69	7.28
PZ-13	5.43	7.14	5.24	5.03
PZ-14	Abandoned	Abandoned	Abandoned	Abandoned
PZ-15	6.87	7.11	6.89	6.32
PZ-16	Abandoned	Abandoned	Abandoned	Abandoned
Groundwater Collection Trench Sumps (DTW, ft)				
GWCT-1	6.50	8.20	8.96	6.00
GWCT-2	17.60	13.45	11.65	13.37
GWCT-3	5.09	9.68	17.35	9.16
GWCT-4	4.44	7.98	7.40	7.03
Relief Trench Sumps (DTW, ft)				
GWR-1	7.49	7.61	7.76	6.15
GWR-2	7.54	7.83	7.89	6.11
Lift Station (DTW, ft)				
Lift	8.20	7.40	9.20	7.17
Offsite Background Wells (DTW, ft)				
MW-1	Removed	Removed	Removed	Removed
MW-2	NM	NM	NM	NM
Overflow Weir (DTW)	4" over			

DTW - depth to water
ft - feet
NM - not measured

Prepared by: John Formoza
Checked by: Ryan Belcher 4/5/2023

MW-2 not measured during quatertly events. A static depth to water of 11.71 feet was recorded on September 23, 2022 prior to the annual sampling.

ATTACHMENT B.4

QUARTERLY GROUNDWATER ELEVATIONS

QUARTERLY GROUNDWATER ELEVATIONS

2022/2023 ANNUAL REPORT

ALLTIFT LANDFILL SITE

BUFFALO, NEW YORK

			5/10/2022		7/7/2022		12/15/2022		3/8/2023	
MONITORING POINT	**TOTAL DEPTH (FT.)**	**TOP OF CASING ELEVATION**	**DEPTH TO WATER**	**GROUND WATER ELEVATION**	**DEPTH TO WATER**	**GROUND WATER ELEVATION**	**DEPTH TO WATER**	**GROUND WATER ELEVATION**	**DEPTH TO WATER**	**GROUND WATER ELEVATION**
PIEZOMETERS										
PZ-1	16.8	585.01	3.59	581.42	4.68	580.33	5.02	579.99	4.5	580.51
PZ-2	16.9	584.96	4.54	580.42	7.4	577.56	7.28	577.68	7.2	577.76
PZ-3	16.9	585.05	5.41	579.64	11.02	574.03	15.4	569.65	10.7	574.35
PZ-4	16.6	585.79	4.28	581.51	5.13	580.66	5.47	580.32	4.82	580.97
PZ-5	16.9	584.52	3.34	581.18	6.35	578.17	6.64	577.88	6.1	578.42
PZ-6	17.8	584.74	4.66	580.08	9.97	574.77	9.25	575.49	12.75	571.99
PZ-7	20.0	584.99	4.77	580.22	8.64	576.35	8.18	576.81	8.02	576.97
PZ-8	20.7	584.48	4.33	580.15	7.01	577.47	6.74	577.74	6.55	577.93
PZ-9	15.1	586.86	6.01	580.85	8.06	578.80	6.86	580.00	6.24	580.62
PZ-10	11.5	589.41	7.93	581.48	8.7	580.71	8.72	580.69	7.71	581.70
PZ-11	19.5	594.72	6.4	588.32	8.02	586.70	6.65	588.07	6.4	588.32
PZ-12	21.8	592.78	7.66	585.12	9.07	583.71	7.69	585.09	7.28	585.50
PZ-13	22.5	589.04	5.43	583.61	7.14	581.90	5.24	583.80	5.03	584.01
PZ-15	17.0	588.79	6.87	581.92	7.11	581.68	6.89	581.90	6.32	582.47
BACKGROUND WELLS										
MW-2	17.0	586.67	NM	NC	NM	NC	NM	NC	NM	NC
GROUNDWATER COLLECTION TRENCH SUMPS										
S1	17.2	585.19	6.5	578.69	8.2	576.99	8.96	576.23	6	579.19
S2	24.8	585.45	17.6	567.85	13.45	572.00	11.65	573.80	13.37	572.08
S3	17.3	585.25	5.09	580.16	9.68	575.57	17.35	567.90	9.16	576.09
S4	17.8	585.00	4.44	580.56	7.98	577.02	7.4	577.60	7.03	577.97

Notes

NC - Not calculable

NM - Not measured

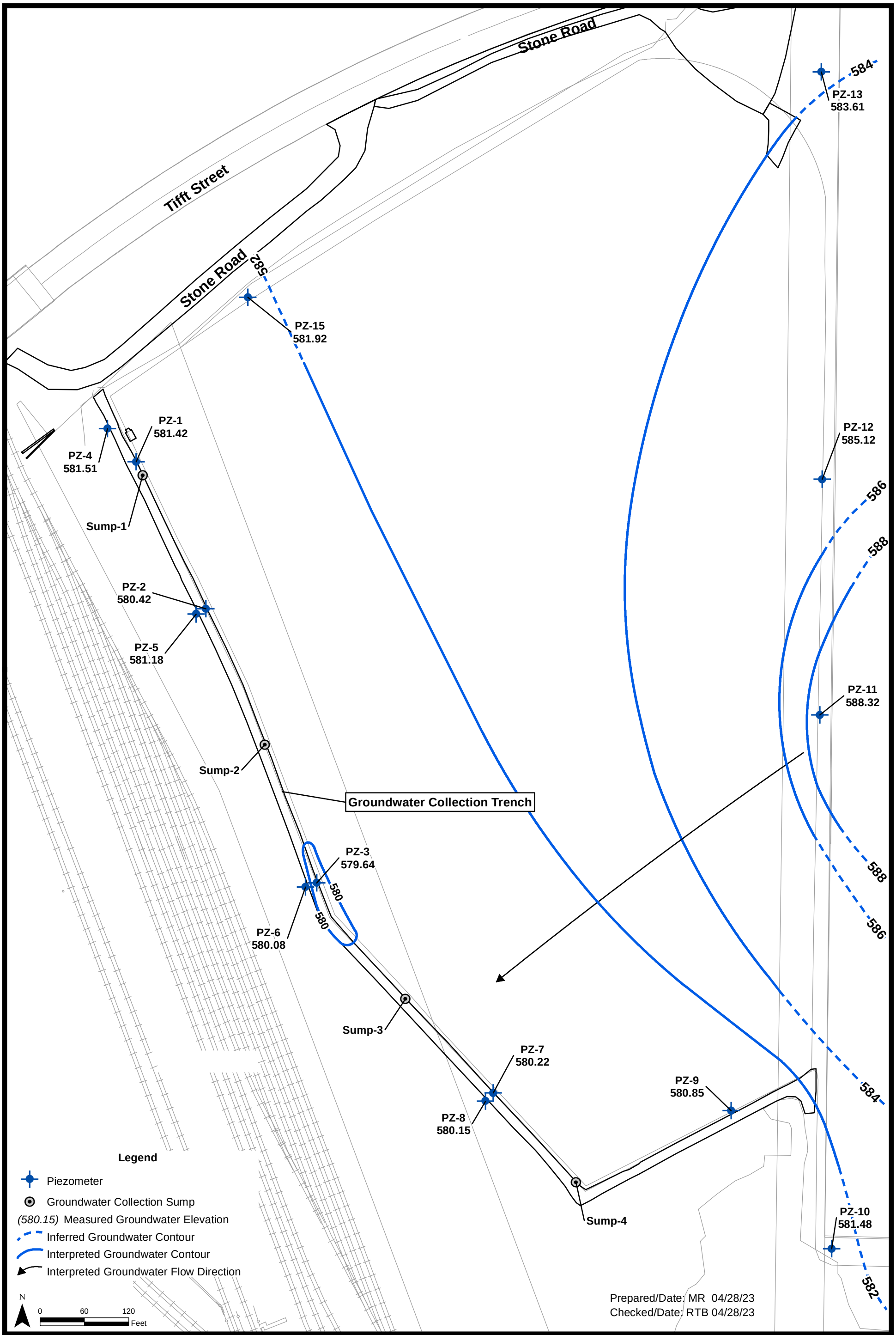
MW-2 not measured during quatertly events. A static depth to water of 11.71 feet was recorded on September 23, 2022 prior to the annual sampling.

Created By:HTS/AB 04/24/2023

Checked By:RTB 04/24/2023

ATTACHMENT B.5

QUARTERLY GROUNDWATER CONTOUR MAPS



Honeywell Alltift Landfill Site
Buffalo, New York

MACTEC

Interpreted Groundwater Contours
May 10, 2022
Project 3616216168 Figure 1

C:\PROJECT_DELIVERABLES\GIS_SITES\HW_ALLTIFT\MAPFILES\2023\ANNUAL\ALLTIFT_FIGURE01_GROUNDWATER_MAY_2022_HTSREV1.MXD GANESH R 5/3/2023 4:33:59 PM

Tifft Street
Stone Road
Stone Road
PZ-15
581.68
582
PZ-13
581.90
580
PZ-1
580.33
PZ-4
580.66
Sump-1
PZ-12
583.71
584
586
PZ-2
577.56
PZ-5
578.17
PZ-11
586.70
Sump-2
Groundwater Collection Trench
576
578
PZ-3
574.03
576
PZ-6
574.77
578
Sump-3
PZ-7
576.35
PZ-9
578.80
PZ-8
577.47
Sump-4
PZ-10
580.71
580
582

Legend

- Piezometer
- Groundwater Collection Sump
- *(578.52)* Measured Groundwater Elevation
- Inferred Groundwater Contour
- Interpreted Groundwater Contour
- Interpreted Groundwater Flow Direction

N

0 60 120 Feet

Prepared/Date: MR 04/28/23
Checked/Date: RTB 04/28/23

Honeywell Alltift Landfill Site
Buffalo, New York

MACTEC

Interpreted Groundwater Contours
July 07, 2022
Project 3616216168 Figure 2

C:\PROJECT_DELIVERABLES\GIS_SITES\HW_ALLTIFT\MAPFILES\2023\ANNUAL\ALLTIFT_FIGURE02_GROUNDWATER_JULY_2022_HTSREV1.MXD ARUN 5/3/2023 2:54:17 PM

Stone Road

Tifft Street

Stone Road

582

584

PZ-13
583.80

PZ-15
581.90

580

PZ-1
579.99

PZ-4
580.32

Sump-1

PZ-12
585.09

586

588

PZ-2
577.68

PZ-5
577.88

578

PZ-11
588.07

Sump-2

578

Groundwater Collection Trench

576

576

PZ-3
569.65

PZ-6
575.49

588

586

Sump-3

PZ-7
576.81

PZ-9
580.00

584

PZ-8
577.74

Sump-4

PZ-10
580.69

582

580

Legend

- Piezometer
- Groundwater Collection Sump
- *(577.74)* Measured Groundwater Elevation
- Inferred Groundwater Contour
- Interpreted Groundwater Contour
- Interpreted Groundwater Flow Direction

N

0 60 120 Feet

Prepared/Date: MR 04/28/23
Checked/Date: RTB 04/28/23

Honeywell Alltift Landfill Site
Buffalo, New York

MACTEC

Interpreted Groundwater Contours
December 15, 2022
Project 3616216168 Figure 3

C:\PROJECT_DELIVERABLES\GIS_SITES\HW_ALLTIFT\MAPFILES\2023\ANNUAL\ALLTIFT_FIGURE03_GROUNDWATER_DECEMBER_2022_HTSREV1.MXD ARUN 5/3/2023 2:57:57 PM

Stone Road

Tifft Street

Stone Road

PZ-13
584.01

584

PZ-15
582.47

582

PZ-1
580.51

PZ-4
580.97

580

Sump-1

PZ-12
585.50

586

588

PZ-2
577.76

PZ-5
578.42

578

PZ-11
588.32

Sump-2

578

Groundwater Collection Trench

576

576

PZ-3
574.35

PZ-6
571.99

588

586

Sump-3

PZ-7
576.97

PZ-9
580.62

584

PZ-8
577.93

Sump-4

PZ-10
581.70

582

580

Legend

- Piezometer
- Groundwater Collection Sump
- *(577.93)* Measured Groundwater Elevation
- Inferred Groundwater Contour
- Interpreted Groundwater Contour
- Interpreted Groundwater Flow Direction

N

0 60 120 Feet

Prepared/Date: MR 04/28/23
Checked/Date: RTB 04/28/23

Honeywell Alltift Landfill Site
Buffalo, New York

MACTEC

Interpreted Groundwater Contours
March 8, 2023
Project 3616216168 Figure 4

C:\PROJECT_DELIVERABLES\GIS_SITES\HW_ALLTIFT\MAPFILES\2023\ANNUAL\ALLTIFT_FIGURE04_GROUNDWATER_MARCH_2023_HTSREV1.MXD ARUN 5/3/2023 3:02:43 PM

ATTACHMENT B.6

DISCHARGE MONITORING REPORTS

Jacobs

Jacobs
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Syracuse, New York 13204
O +1 315 468 1663
F +1 315 468 1664
www.jacobs.com

June 3, 2022

Ms. Traserra Adams
Buffalo Sewer Authority
Industrial Waste Section
90 West Ferry Street
Buffalo, New York 14213

Subject: **Alltift Landfill/Ramco Steel Site**
Discharge Monitoring Report
2022 First Semi-Annual Report
BPDES Permit Number 21-12-BU098

Dear Ms. Adams:

Enclosed please find the 2022 First Semi-Annual discharge monitoring report for the pumping facility located at the Alltift Landfill/Ramco Steel (Alltift) Site. The total flow to the Buffalo Sewer Authority (BSA) during this period was 1,207,359 gallons. The flow was measured from a totalizing meter within the lift station at the Alltift Site from November 18, 2021 through May 02, 2022 for a total of 165 days. Flow metering readings collected during the reporting period are included as Attachment 1.

A time composite discharge sample was collected from within the pump station on May 02, 2022. Four grab samples were collected over an evenly spaced workday period for VOC and SVOC analysis, and the four samples were composited at the laboratory prior to analysis per permit requirements. The samples for metals (including mercury), total suspended solids, total phosphorus, and pH were collected as grab samples and composited in the field. The pH reported on the discharge monitoring report is the pH reported on the laboratory report. A summary of the analytical results compared to permit limits is provided in Table 1 and a copy of the laboratory analytical report is provided as Attachment 2. All parameters were in compliance with permit limits with the exception of mercury. A resample for mercury and pH at the lift station was performed on May 27, 2022. The mercury result for the second sample was 0.00027 mg/l which is below the permitted value of 0.0008 mg/l. The laboratory analytical report is provided as Attachment 3. If you have any questions or require additional information, please contact me at (315) 468-1663.

Sincerely,

Jacobs

John W. Formoza
Regional Manager

QC Review By: Ryan Belcher (Wood E&IS)

cc.: Mr. Sasa Jazic (Honeywell)
Ms. Taylor Monnin (NYSDEC)
Mr. Jason Paananen (City of Buffalo)
Mr. Robert Gersh (Wood E&IS)

Table 1
Alltift Landfill/Ramco Steel Site
First Semi-Annual Report for 2022
Discharge Monitoring Report

BSA Permit No. 21-12-BU098	
Sample Date:	May 2, 2022
Sample Location:	Onsite Pump Station to BSA

BSA Permit Parameter	Input Analytical Results				Converted Analytical Results		BSA Daily Max Discharge Limit		Permit Compliance
	Quantity	Qualifier	Reporting Limit	Unit	Quantity	Unit	Quantity	Unit	
pH	6.85		0.1	SU	6.85	SU	5.0 - 12.0	SU	Yes
Copper	0.0524		0.02	mg/L	0.0032	lbs/day	7.68	lbs/day	Yes
Mercury	0.0015		0.0006	mg/L	0.00150	mg/l	0.0008	mg/l	No
Mercury - resampled on May 27, 2022	0.00027	J	0.0006	mg/L	0.00027	mg/l	0.0008	mg/l	Yes
Zinc	0.0746		0.040	mg/L	0.0046	lbs/day	12	lbs/day	Yes
Total Suspended Solids	142		4.0	mg/L	142	mg/L	250	mg/L	Yes
Total Phosphorus	4.5		1.0	mg/L	4.5	mg/L	15.35	mg/L	Yes
USEPA Test Method 624	ND - 75.8			µg/L	Monitor Only				
USEPA Test Method 625	ND - 14.7			µg/L					
Total Flow (average)	5.08			gpm	7,318	gpd	57,600	gpd	Yes

Notes:
J - estimated value below Reporting Limit/Practical Quantitation Limit
ND - Not detected at the reporting limit

µg/L - micrograms per liter
mg/L - milligrams per liter

gpm - gallons per minute
gpd - gallons per day
SU - Standard Units

Prepared by, Date: Parthiban, 06/02/2022
Checked by, Date: Michael Fay, 06/08/2022

Flow Calculations	Meter	
Initial Reading (pump station)	633800	11/18/2021
Final Reading (pump station)	856700	1/12/2022
Initial Reading (pump station)	0	1/12/2022
Final Reading (pump station)	655891.6	3/28/2022
Initial Reading (pump station)	0	3/28/2022
Final Reading (pump station)	328659	5/2/2022
Total Days in Period		165
Total Flow for Period	**1,207,451**	**gallons**
Average Flow for Period	**5.08**	**gpm**

Note: New flow meter installed on 01/12/2022 and 03/28/2022

Attachment 1 - Flow Meter Readings

Buffalo Alltift Lift Station	
Date	Totalizer Reading (gallons)
11/18/2021	633,800
11/23/2021	647,600
1/12/2022	856,700
1/12/2022	0
3/28/2022	655,892
3/28/2022	0
5/2/2022	328,659

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

John W. Formoza REGIONAL MANAGER 6/9/22

John W. Formoza
Jacobs

Date

wood.

N

0 200 400 Feet

Prepared/Date: BRP 07-27-21 | Checked/Date: RTB 07-27-21

Figure 1
Permit Sample Location

Alltift Landfill
Buffalo, New York

Document: P:\Projects\Honeywell\O,M and M Team\Alltift Landfill\4.0 Project Deliverables\4.3 Drawings\GIS\MapDocuments\Permit_Site_Map_8.5x11P.mxd
PDF: P:\Projects\Honeywell\O,M and M Team\Alltift Landfill\4.0 Project Deliverables\4.3 Drawings\GIS\Figures\Figure 1 - Permit Sample Location.pdf 07-27-2021 11:25 AM brian.peters

Jacobs

Well Sampling Form

Project Name: AWMC Landfill
Location: Tifft Street, Buffalo
Sampling Event: Semi-Annual
Job #:

Date: 05-02-22
Field Team: BH
Field Conditions: 60's, partly sunny

Well / Sample #: Wet well grabs
Initial DTW: 8.69
Purge Method (circle): N/A
~~Submersible~~ ~~Peristaltic~~ ~~Ded. Pump~~ ~~Other:~~
Sample Method: ~~Peristaltic Pump~~ Bailer

Start Time: 0900 End Time: 1600
Measure Point (circle): Top of vault opening
~~PVC~~ ~~Steel~~ ~~Other:~~

Sample ID: See below
~~Dup. Sample ID~~: N/A
~~QC Sample ID~~: N/A
Sample Time: See below
~~Dup. Time:~~
~~QC Time:~~
Depth to Bottom (from meas. pt., ft.):
Min. Purge Vol. (gal. or L): N/A
Purge Rate (gpm or mLpm): N/A

WQ Parameter Measurement Technique (circle): N/A ~~Flow-thru cell~~ ~~In-situ~~ ~~Open container~~

Time	Volume Purged gal / L	pH SU (+/- 0.1)	Conductivity mS/cm (+/- 3%)	Turbidity NTU (+/- 10% if > 10 NTU)	DO mg/L (+/- 10%)	Temperature °C (+/- 3%)	Eh / ORP mv (+/- 10 mV)	DTW ft.
0930	Grab1-050222-BSA	Discharge	Sampled. Add	1 gal. to	composite container.			
	3x 40mL VOAs, 2x 1L	Ambers						
1130	Grab 2-050222-BSA	Discharge	Sampled. Add	1 gal. to	composite container.			
	3x 40mL VOAs, 2x 1L	ambers						
1330	Grab 3-050222-BSA	Discharge	sampled. Add	1 gal. to	composite container.			
	3x 40mL VOAs, 2x 1L	ambers						
1530	Grab 4-050222-BSA	Discharge	sampled. Add	1 gal. to	composite container.			
	3x 40mL VOAs, 2x 1L	ambers						
1540	Comp-050222-BSA	Discharge	sampled.					
	1x ~~500~~mL total Hg;	1x 500mL Metals,		1x 500mL	TPO4,	1x 250mL	pH,	2x 1L TSS

Sample Collection Information

Parameter	Bottle Type	Volume	Quantity	Preservative	Field Filtered(Y/N)	Sample Taken(Y/N)	Notes
5 grab { VOCs	VOA	40mL	3	HCl	No	Yes	
SVOCs	Amber	1L	2	None	↓	↓	
Total Hg	Poly	500mL	1	HNO_3			
Metals	Poly	500mL	1	HNO_3			
TPO4	Poly	500mL	1	H_2SO_4			
PH	Poly	250mL	1	None			
TSS	Poly	1L	2	None			

Notes
Samples stored on ice overnight, repacked & shipped to lab on 05-03-2022. See COC for details.

Jacobs

Well Sampling Form

Project Name: Buffalo Airport Land Fill
Location: Tifft Street, Buffalo
Sampling Event: Semi-annual Hg Resample
Job #: ~~372~~ HNOMM108

Date: 05-27-2022
Field Team: Ben Hamburg
Field Conditions: 60's, rain AM. 60's, overcast PM

Well / Sample #: Wet well composite
Start Time: 0920 End Time: 1600
Initial DTW:
~~Measure Point (circle):~~ PVC Steel Other:
~~Purge Method (circle):~~ Submersible ~~Peristaltic~~ ~~Ded. Pump~~ ~~Other:~~
Sample Method: Peristaltic Pump
Sample ID: COMP-052722-BSA Discharge
Sample Time: 1535
~~Dup. Sample ID~~ ~~Dup. Time:~~
~~QC Sample ID~~ ~~QC Time:~~
Depth to Bottom (from meas. pt., ft.): ~~Min Purge Vol. (gal. or L):~~ ~~Purge Rate (gpm or mL/min):~~
~~WQ Parameter Measurement Technique (circle):~~ ~~Flow-thru cell~~ ~~In-situ~~ ~~Open container~~

Time	Volume Purged gal / L	pH SU (+/- 0.1)	Conductivity mS/cm (+/- 3%)	Turbidity NTU (+/- 10% if > 10 NTU)	DO mg/L (+/- 10%)	Temperature °C (+/- 3%)	Eh / ORP mv (+/- 10 mV)	DTW ft.
0920 -	On-site -	Totalizer:	1133819.0.					
0950 -	Grab 1 gallon	from wet well, add to composite carboy.						
1130 -	Grab 1 gallon	from wet well, add to composite carboy						
1330 -	Grab 1 gallon	from wet well, add to composite carboy.						
1530 -	Grab 1 gallon	From wet well, add to composite carboy.	Stir carboy.					
1535 -	Sample COMP-052722-BSA Discharge taken.							
	7.23 pH	2.58 mS/cm	1.65 g/L	19.3 °C				

Sample Collection Information

Parameter	Bottle Type	Volume	Quantity	Preservative	Field Filtered(Y/N)	Sample Taken(Y/N)	Notes
Total Hg	Poly	500mL	1	HNO3	N	Y	
pH	poly	500mL	1	NP	N	Y	

Notes

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Honeywell International Inc. OMM work

HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

PO#A000804776

SGS Job Number: JD44187

Sampling Date: 05/02/22

Report to:

Wood Environment & Infrastructure Soln.
511 Congress Street
Portland, ME 04112
HTS-RES-LAB@Honeywell.com; Ryan.Belcher@amecfw.com

ATTN: Ryan Belcher

Total number of pages in report: 74

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Kristin Degraw 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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Test results relate only to samples analyzed.

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EHS.US.CustomerCare@sgs.com

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SGS North America Inc.

Sample Summary

Honeywell International Inc. OMM work

Job No: JD44187

HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Project No: PO#A000804776

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD44187-1	05/02/22	15:30	BH	05/04/22	AQ	Ground Water	GRAB 1 THRU 4-050222-BSA DISCHARGE
JD44187-2	05/02/22	15:40	BH	05/04/22	AQ	Ground Water	COMP-050222-BSA DISCHARGE
JD44187-3	05/02/22	15:40	BH	05/04/22	AQ	Trip Blank Water	TB

This report contains results reported as ND = Not detected. The following applies:

Organics ND = Not detected above the MDL
Metals ND = Not detected above the MDL
General Chemistry ND = Not detected above the MDL

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Honeywell International Inc. OMM work	**Job No**	JD44187
Site:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY	**Report Date**	5/19/2022 11:08:45 A

On 05/04/2022, 2 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 3.7 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD44187 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method EPA 624.1

Matrix: AQ **Batch ID:** VT10653

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD44194-1MS, JD44194-1MSD were used as the QC samples indicated.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Carbon tetrachloride, Tetrachloroethene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- Matrix Spike /Matrix Spike Duplicate Recovery(s) for Chloroform are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- JD44187-3: Results reported from the HCl preserved sample. The reported result for acrolein is for screening only and cannot be used for compliance purposes.

Matrix: AQ **Batch ID:** VT10656

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD44134-1MS, JD44134-1MSD were used as the QC samples indicated.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Benzene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- Matrix Spike /Matrix Spike Duplicate Recovery(s) for Chlorobenzene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- JD44187-1: (pH=6)Sample pH did not satisfy field preservation criteria. Results reported from the HCl preserved sample. The reported result for acrolein is for screening only and cannot be used for compliance purposes.

MS Semi-volatiles By Method EPA 625.1

Matrix: AQ **Batch ID:** OP39544B

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- RPD of OP39544B-BSD for 2,4-Dimethylphenol: Outside of in house control limits.
- OP39544B-BS1/BSD for Benzidine: Outside of in house control limits.

Metals Analysis By Method EPA 200.7

Matrix: AQ **Batch ID:** MP32697

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD44214-1MS, JD44214-1MSD, JD44214-1SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Copper are outside control limits for sample MP32697-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- JD44187-2 for Copper: Elevated sample detection limit due to difficult sample matrix.
- JD44187-2 for Zinc: Elevated sample detection limit due to difficult sample matrix.
- MP32697-SD1 for Zinc: Serial dilution indicates possible matrix interference.

Metals Analysis By Method EPA 245.1

Matrix: AQ **Batch ID:** MP32929

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD44542-2MS, JD44542-2MSD were used as the QC samples for metals.
- JD44187-2 for Mercury: Elevated sample detection limit due to difficult sample matrix.

General Chemistry By Method EPA 365.3

Matrix: AQ **Batch ID:** GP39981

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD44214-1DUP, JD44214-1MS were used as the QC samples for Phosphorus, Total.

General Chemistry By Method SM2540 D-11

Matrix: AQ **Batch ID:** GN28883

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD44307-1DUP were used as the QC samples for Solids, Total Suspended.

General Chemistry By Method SM4500H+ B-11

Matrix: AQ **Batch ID:** R197153

- The data for SM4500H+ B-11 meets quality control requirements.
- JD44187-2 for pH: Sample received out of holding time for pH analysis. Temp of pH Reading: 16.2 Deg. C

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD44187
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 05/02/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD44187-1	**GRAB 1 THRU 4-050222-BSA DISCHARGE**					
Benzene [a]		8.0	1.0	0.34	ug/l	EPA 624.1
Chlorobenzene [a]		75.8	1.0	0.33	ug/l	EPA 624.1
1,2-Dichlorobenzene [a]		0.51 J	1.0	0.30	ug/l	EPA 624.1
1,4-Dichlorobenzene [a]		1.2	1.0	0.50	ug/l	EPA 624.1
Anthracene		0.26 J	0.99	0.21	ug/l	EPA 625.1
Benzo(a)anthracene		0.35 J	0.99	0.20	ug/l	EPA 625.1
Benzo(a)pyrene		0.36 J	0.99	0.21	ug/l	EPA 625.1
Benzo(b)fluoranthene		0.36 J	0.99	0.20	ug/l	EPA 625.1
Benzo(g,h,i)perylene		0.39 J	0.99	0.34	ug/l	EPA 625.1
Benzo(k)fluoranthene		0.35 J	0.99	0.20	ug/l	EPA 625.1
4-Chloroaniline		14.7	5.0	0.34	ug/l	EPA 625.1
Chrysene		0.28 J	0.99	0.17	ug/l	EPA 625.1
1,2-Dichlorobenzene		0.78 J	0.99	0.17	ug/l	EPA 625.1
1,4-Dichlorobenzene		0.94 J	0.99	0.17	ug/l	EPA 625.1
Dibenzo(a,h)anthracene		0.38 J	0.99	0.33	ug/l	EPA 625.1
Fluoranthene		0.55 J	0.99	0.17	ug/l	EPA 625.1
Indeno(1,2,3-cd)pyrene		0.39 J	0.99	0.33	ug/l	EPA 625.1
Naphthalene		0.26 J	0.99	0.23	ug/l	EPA 625.1
N-Nitrosodiphenylamine		0.49 J	5.0	0.22	ug/l	EPA 625.1
Phenanthrene		0.34 J	0.99	0.17	ug/l	EPA 625.1
Pyrene		0.45 J	0.99	0.22	ug/l	EPA 625.1
JD44187-2	**COMP-050222-BSA DISCHARGE**					
Copper [b]		52.4	20	8.2	ug/l	EPA 200.7
Mercury [b]		1.5	0.60	0.27	ug/l	EPA 245.1
Zinc [b]		74.6	40	17	ug/l	EPA 200.7
Phosphorus, Total		4.5	1.0	0.54	mg/l	EPA 365.3
Solids, Total Suspended		142	4.0	1.5	mg/l	SM2540 D-11
pH [c]		6.85			su	SM4500H+ B-11
JD44187-3	**TB**					

No hits reported in this sample.

(a) (pH= 6)Sample pH did not satisfy field preservation criteria. Results reported from the HCl preserved sample. The reported result for acrolein is for screening only and cannot be used for compliance purposes.
(b) Elevated sample detection limit due to difficult sample matrix.
(c) Sample received out of holding time for pH analysis. Temp of pH Reading: 16.2 Deg. C

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	GRAB 1 THRU 4-050222-BSA DISCHARGE		
Lab Sample ID:	JD44187-1	**Date Sampled:**	05/02/22
Matrix:	AQ - Ground Water	**Date Received:**	05/04/22
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	T256274.D	1	05/11/22 13:26	ED	n/a	n/a	VT10656
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	10	3.7	ug/l	
107-13-1	Acrylonitrile	ND	10	2.5	ug/l	
71-43-2	Benzene	8.0	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.35	ug/l	
75-25-2	Bromoform	ND	1.0	0.60	ug/l	
74-83-9	Bromomethane	ND	1.0	0.87	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	75.8	1.0	0.33	ug/l	
75-00-3	Chloroethane	ND	1.0	0.54	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.78	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.43	ug/l	
95-50-1	1,2-Dichlorobenzene	0.51	1.0	0.30	ug/l	J
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	1.2	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.69	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.46	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.42	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.37	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.41	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.32	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.36	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRAB 1 THRU 4-050222-BSA DISCHARGE		
Lab Sample ID:	JD44187-1	**Date Sampled:**	05/02/22
Matrix:	AQ - Ground Water	**Date Received:**	05/04/22
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.35	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	96%		80-128%
2037-26-5	Toluene-D8 (SUR)	95%		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	96%		79-117%
1868-53-7	Dibromofluoromethane (S)	94%		84-121%

(a) (pH= 6)Sample pH did not satisfy field preservation criteria. Results reported from the HCl preserved sample. The reported result for acrolein is for screening only and cannot be used for compliance purposes.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRAB 1 THRU 4-050222-BSA DISCHARGE		
Lab Sample ID:	JD44187-1	**Date Sampled:**	05/02/22
Matrix:	AQ - Ground Water	**Date Received:**	05/04/22
Method:	EPA 625.1 EPA 625	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F206901.D	1	05/10/22 16:45	KLS	05/09/22 13:50	OP39544B	EF9105
Run #2							

	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.81	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.88	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.4	ug/l	
51-28-5	2,4-Dinitrophenol	ND	9.9	1.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.0	1.3	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.95	ug/l	
100-02-7	4-Nitrophenol	ND	9.9	1.1	ug/l	
87-86-5	Pentachlorophenol	ND	5.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.91	ug/l	
83-32-9	Acenaphthene	ND	0.99	0.19	ug/l	
208-96-8	Acenaphthylene	ND	0.99	0.13	ug/l	
120-12-7	Anthracene	0.26	0.99	0.21	ug/l	J
92-87-5	Benzidine	ND	9.9	0.89	ug/l	
56-55-3	Benzo(a)anthracene	0.35	0.99	0.20	ug/l	J
50-32-8	Benzo(a)pyrene	0.36	0.99	0.21	ug/l	J
205-99-2	Benzo(b)fluoranthene	0.36	0.99	0.20	ug/l	J
191-24-2	Benzo(g,h,i)perylene	0.39	0.99	0.34	ug/l	J
207-08-9	Benzo(k)fluoranthene	0.35	0.99	0.20	ug/l	J
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.40	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.45	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.23	ug/l	
106-47-8	4-Chloroaniline	14.7	5.0	0.34	ug/l	
218-01-9	Chrysene	0.28	0.99	0.17	ug/l	J
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.28	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.25	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	2.0	0.40	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.36	ug/l	
95-50-1	1,2-Dichlorobenzene	0.78	0.99	0.17	ug/l	J
122-66-7	1,2-Diphenylhydrazine	ND	0.99	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.99	0.19	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRAB 1 THRU 4-050222-BSA DISCHARGE		
Lab Sample ID:	JD44187-1	**Date Sampled:**	05/02/22
Matrix:	AQ - Ground Water	**Date Received:**	05/04/22
Method:	EPA 625.1 EPA 625	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	0.94	0.99	0.17	ug/l	J
121-14-2	2,4-Dinitrotoluene	ND	0.99	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	0.99	0.47	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.50	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.38	0.99	0.33	ug/l	J
84-74-2	Di-n-butyl phthalate	ND	2.0	0.49	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.23	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.22	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	1.6	ug/l	
206-44-0	Fluoranthene	0.55	0.99	0.17	ug/l	J
86-73-7	Fluorene	ND	0.99	0.17	ug/l	
118-74-1	Hexachlorobenzene	ND	0.99	0.32	ug/l	
87-68-3	Hexachlorobutadiene	ND	0.99	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.9	2.8	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.39	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.39	0.99	0.33	ug/l	J
78-59-1	Isophorone	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	0.26	0.99	0.23	ug/l	J
98-95-3	Nitrobenzene	ND	2.0	0.64	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	2.0	0.81	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	0.49	5.0	0.22	ug/l	J
85-01-8	Phenanthrene	0.34	0.99	0.17	ug/l	J
129-00-0	Pyrene	0.45	0.99	0.22	ug/l	J
120-82-1	1,2,4-Trichlorobenzene	ND	0.99	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		10-110%
4165-62-2	Phenol-d5	24%		10-110%
118-79-6	2,4,6-Tribromophenol	86%		35-147%
4165-60-0	Nitrobenzene-d5	75%		32-132%
321-60-8	2-Fluorobiphenyl	72%		40-117%
1718-51-0	Terphenyl-d14	38%		33-126%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	COMP-050222-BSA DISCHARGE		
Lab Sample ID:	JD44187-2	**Date Sampled:**	05/02/22
Matrix:	AQ - Ground Water	**Date Received:**	05/04/22
		Percent Solids:	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Copper [a]	52.4	20	8.2	ug/l	1	05/09/22	05/09/22	ND	EPA 200.7 [1]	EPA 200.7 [4]
Mercury [a]	1.5	0.60	0.27	ug/l	1	05/18/22	05/18/22	LM	EPA 245.1 [3]	EPA 245.1 [5]
Zinc [a]	74.6	40	17	ug/l	1	05/09/22	05/10/22	ND	EPA 200.7 [2]	EPA 200.7 [4]

(1) Instrument QC Batch: MA52353
(2) Instrument QC Batch: MA52368
(3) Instrument QC Batch: MA52404
(4) Prep QC Batch: MP32697
(5) Prep QC Batch: MP32929

(a) Elevated sample detection limit due to difficult sample matrix.

RL = Reporting Limit
MDL = Method Detection Limit
ND = Not detected
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	COMP-050222-BSA DISCHARGE		
Lab Sample ID:	JD44187-2	**Date Sampled:**	05/02/22
Matrix:	AQ - Ground Water	**Date Received:**	05/04/22
		Percent Solids:	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Phosphorus, Total	4.5	1.0	0.54	mg/l	5	05/11/22 12:35	MP	EPA 365.3
Solids, Total Suspended	142	4.0	1.5	mg/l	1	05/06/22 12:18	AS	SM2540 D-11
pH [a]	6.85			su	1	05/10/22 11:27	GC	SM4500H+ B-11

(a) Sample received out of holding time for pH analysis. Temp of pH Reading: 16.2 Deg. C

RL = Reporting Limit
MDL = Method Detection Limit

ND = Not detected
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TB		
Lab Sample ID:	JD44187-3	**Date Sampled:**	05/02/22
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/04/22
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	T256215.D	1	05/09/22 11:10	ED	n/a	n/a	VT10653
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	10	3.7	ug/l	
107-13-1	Acrylonitrile	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.35	ug/l	
75-25-2	Bromoform	ND	1.0	0.60	ug/l	
74-83-9	Bromomethane	ND	1.0	0.87	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.33	ug/l	
75-00-3	Chloroethane	ND	1.0	0.54	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.78	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.43	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.30	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.69	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.46	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.42	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.37	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.41	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.32	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.36	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB		
Lab Sample ID:	JD44187-3	**Date Sampled:**	05/02/22
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/04/22
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.35	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	100%		80-128%
2037-26-5	Toluene-D8 (SUR)	92%		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	95%		79-117%
1868-53-7	Dibromofluoromethane (S)	102%		84-121%

(a) Results reported from the HCl preserved sample. The reported result for acrolein is for screening only and cannot be used for compliance purposes.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

Parameter Certification Exceptions

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
1,2-Dichlorobenzene	95-50-1	**EPA 625.1**	AQ	SGS is not certified for this parameter.[a]
1,4-Dichlorobenzene	106-46-7	**EPA 625.1**	AQ	SGS is not certified for this parameter.[a]

(a) Lab cert for analyte not supported by NJDEP, OQA. Only methods/analytes required for reporting by the State of NJ can be certified in NJ. Use of this analyte for compliance must be verified through the appropriate regulatory office.

Certification exceptions shown are based on the New Jersey DEP certifications. Applicability in other states may vary. Please contact your laboratory representative if additional information is required for a specific regulatory program.

GW WTM

JD44187

FedEx #5272-0639-9913

SGS Laboratories
2235 Route 130
Dayton, NJ 08810
(p) 732-239-0200

Chain Of Custody/Analysis Request
Project Name: Buffalo Altift Landfill - Semi-Annual
Lab Project Name: HLAME: 30130-Altift Landfill, 579 Tift Street, Buffalo, NY

AESI Ref: 30609.59045
COC #: 20220502-Altift
Lab Use Only
Lab_SDG:
Lab ID

Privileged & Confidential
EDD To: Ryan Belcher (ryan.belcher@woodplc.com)
Facility Name: Altift Landfill
Location of Site: Buffalo, New York
Site Code: 30130

Client Contact: (name, co., address)
Sasa Jazic
Honeywell International
301 Plainfield Road, Suite 330
Syracuse, New York 13212
Sasa.Jazic@honeywell.com
Hardcopy Report To: Do Not Send Hardcopy Unless Requested
Invoice To:

Sampler: Benjamin Hendry
Sampling Company: Jacobs
PO #: A00003477G
TAT/Special Turnaround Time:
Standard: Y
Rush Charges Authorized For: N
Days Around Flow Required: STANDARD

Job No.

Coolers: 1

	Sample Identification				Sample Date	Sample Time	Matrix Code	Medium Code	Sample Type	# of Cont.	Composite (Yes/No)	Filter This (Yes=Filtered, Not=Not filtered)	Preservative: NO3/HCl, H2SO4/NaOH	Preservative: SW8260B/8270D	Preservative: Total Hg + TPH, 245.1	Preservative: Metals (As + TPH, 200.7)	Preservative: TDS + TPH, 160.1	Preservative: pH, VOC, 4°C	Preservative: TSS, 25C, 4	Lab Sample Numbers
	Sys_Loc_Code	Start Depth (ft)	End Depth (ft)	Sys_Sample_Code						Lines										
1	N/A	---	---	Grab 1-050222-BSA Discharge	5/2/2022	0930	GW	WATER	REG	5	N	N	3	2						
2	N/A	---	---	Grab 2-050222-BSA Discharge	5/2/2022	1130	GW	WATER	REG	5	N	N	3	2						
3	N/A	---	---	Grab 3-050222-BSA Discharge	5/2/2022	1330	GW	WATER	REG	5	N	N	3	2						
4	N/A	---	---	Grab 4-050222-BSA Discharge	5/2/2022	1530	GW	WATER	REG	5	N	N	3	2						
5	N/A	---	---	COMP-050222-BSA Discharge	5/2/2022	1540	GW	WATER	REG	6	N	N			1	1	1	1	2	
6	N/A	---	---	TB	--	--	WQ	WATER	TB	2	N	N	2							
7																				
8																				
9																				
10																				
11																				
12																				
13																				

Prior to analysis, grab samples 1, 2, 3 & 4 to be composited by lab

Special Instructions:	Sample Location	pH Range	pH	Max Temp (°C)	Temp (°C)	Flow	Cond. (mS/cm)	Other

Notes: For COC questions, contact --
Benjamin Hendry
benjamin.hendry@jacobs.com
315-806-4029

Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Cooler Temp	Custody Seals Intact
	Jacobs	05-03-22/1500	FEDEX					
		5/4/22 10:20					4.0°C	Y

Preservatives: 0 = None; 1 = HCL; 2 = HNO3; 3 = H2SO4; 4 = NaOH; 5 = Zn. Acetate; 6 = MeOH; 7 = NaHSO4; 8 = Other (specify):

JK-40

5.2 5

JD44187: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: JD44187 **Client:** _____ **Project:** _____

Date / Time Received: 5/4/2022 10:20:00 AM **Delivery Method:** _____ **Airbill #'s:** _____

Cooler Temps (Raw Measured) °C: Cooler 1: (4.0);

Cooler Temps (Corrected) °C: Cooler 1: (3.7);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify) _____ _____

Comments

SM089-03
Rev. Date 12/7/17

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VT10653-MB	T256212.D	1	05/09/22	ED	n/a	n/a	VT10653

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD44187-3

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	10	3.7	ug/l	
107-13-1	Acrylonitrile	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.35	ug/l	
75-25-2	Bromoform	ND	1.0	0.60	ug/l	
74-83-9	Bromomethane	ND	1.0	0.87	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.33	ug/l	
75-00-3	Chloroethane	ND	1.0	0.54	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.78	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.43	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.30	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.69	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.46	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.42	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.37	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.41	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.32	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.36	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.35	ug/l	

Method Blank Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VT10653-MB	T256212.D	1	05/09/22	ED	n/a	n/a	VT10653

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD44187-3

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	98%	80-128%
2037-26-5	Toluene-D8 (SUR)	93%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	97%	79-117%
1868-53-7	Dibromofluoromethane (S)	94%	84-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VT10656-MB	T256273.D	1	05/11/22	ED	n/a	n/a	VT10656

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD44187-1

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	10	3.7	ug/l	
107-13-1	Acrylonitrile	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.35	ug/l	
75-25-2	Bromoform	ND	1.0	0.60	ug/l	
74-83-9	Bromomethane	ND	1.0	0.87	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.33	ug/l	
75-00-3	Chloroethane	ND	1.0	0.54	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.78	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.43	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.30	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.69	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.46	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.42	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.37	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.41	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.32	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.36	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.35	ug/l	

Method Blank Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VT10656-MB	T256273.D	1	05/11/22	ED	n/a	n/a	VT10656

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD44187-1

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	95%	80-128%
2037-26-5	Toluene-D8 (SUR)	96%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	96%	79-117%
1868-53-7	Dibromofluoromethane (S)	93%	84-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VT10653-BS	T256211.D	1	05/09/22	ED	n/a	n/a	VT10653

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD44187-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
107-02-8	Acrolein	20	17.8	89	60-140
107-13-1	Acrylonitrile	20	16.3	82	60-140
71-43-2	Benzene	20	18.6	93	65-135
75-27-4	Bromodichloromethane	20	18.5	93	65-135
75-25-2	Bromoform	20	19.9	100	70-130
74-83-9	Bromomethane	20	20.0	100	15-185
56-23-5	Carbon tetrachloride	20	17.5	88	70-130
108-90-7	Chlorobenzene	20	17.7	89	65-135
75-00-3	Chloroethane	20	22.6	113	40-160
110-75-8	2-Chloroethyl vinyl ether	100	98.4	98	10-257
67-66-3	Chloroform	20	16.7	84	70-135
74-87-3	Chloromethane	20	17.9	90	10-205
124-48-1	Dibromochloromethane	20	18.0	90	70-135
95-50-1	1,2-Dichlorobenzene	20	17.7	89	65-135
541-73-1	1,3-Dichlorobenzene	20	17.5	88	70-130
106-46-7	1,4-Dichlorobenzene	20	17.9	90	65-135
75-71-8	Dichlorodifluoromethane	20	15.8	79	42-146
75-34-3	1,1-Dichloroethane	20	19.2	96	70-130
107-06-2	1,2-Dichloroethane	20	18.9	95	70-130
75-35-4	1,1-Dichloroethene	20	15.2	76	50-150
156-59-2	cis-1,2-Dichloroethene	20	17.2	86	72-116
156-60-5	trans-1,2-Dichloroethene	20	18.5	93	70-130
78-87-5	1,2-Dichloropropane	20	21.1	106	35-165
10061-01-5	cis-1,3-Dichloropropene	20	20.1	101	25-175
10061-02-6	trans-1,3-Dichloropropene	20	18.7	94	50-150
100-41-4	Ethylbenzene	20	17.5	88	60-140
75-09-2	Methylene chloride	20	14.0	70	60-140
79-34-5	1,1,2,2-Tetrachloroethane	20	14.8	74	60-140
127-18-4	Tetrachloroethene	20	18.9	95	70-130
108-88-3	Toluene	20	17.0	85	74-111
71-55-6	1,1,1-Trichloroethane	20	16.8	84	73-120
79-00-5	1,1,2-Trichloroethane	20	16.8	84	74-117
79-01-6	Trichloroethene	20	18.7	94	74-113
75-69-4	Trichlorofluoromethane	20	17.6	88	50-150
75-01-4	Vinyl chloride	20	21.5	108	5-195
1330-20-7	Xylenes (total)	60	52.2	87	79-114

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VT10653-BS	T256211.D	1	05/09/22	ED	n/a	n/a	VT10653

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD44187-3

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	98%	80-128%
2037-26-5	Toluene-D8 (SUR)	91%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	97%	79-117%
1868-53-7	Dibromofluoromethane (S)	96%	84-121%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VT10656-BS	T256272.D	1	05/11/22	ED	n/a	n/a	VT10656

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD44187-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
107-02-8	Acrolein	20	25.1	126	60-140
107-13-1	Acrylonitrile	20	14.8	74	60-140
71-43-2	Benzene	20	17.8	89	65-135
75-27-4	Bromodichloromethane	20	17.2	86	65-135
75-25-2	Bromoform	20	19.5	98	70-130
74-83-9	Bromomethane	20	19.2	96	15-185
56-23-5	Carbon tetrachloride	20	16.4	82	70-130
108-90-7	Chlorobenzene	20	18.3	92	65-135
75-00-3	Chloroethane	20	20.6	103	40-160
110-75-8	2-Chloroethyl vinyl ether	100	86.8	87	10-257
67-66-3	Chloroform	20	15.2	76	70-135
74-87-3	Chloromethane	20	18.6	93	10-205
124-48-1	Dibromochloromethane	20	18.4	92	70-135
95-50-1	1,2-Dichlorobenzene	20	18.1	91	65-135
541-73-1	1,3-Dichlorobenzene	20	17.8	89	70-130
106-46-7	1,4-Dichlorobenzene	20	18.4	92	65-135
75-71-8	Dichlorodifluoromethane	20	14.0	70	42-146
75-34-3	1,1-Dichloroethane	20	17.7	89	70-130
107-06-2	1,2-Dichloroethane	20	17.6	88	70-130
75-35-4	1,1-Dichloroethene	20	14.9	75	50-150
156-59-2	cis-1,2-Dichloroethene	20	17.1	86	72-116
156-60-5	trans-1,2-Dichloroethene	20	17.6	88	70-130
78-87-5	1,2-Dichloropropane	20	20.0	100	35-165
10061-01-5	cis-1,3-Dichloropropene	20	18.7	94	25-175
10061-02-6	trans-1,3-Dichloropropene	20	18.9	95	50-150
100-41-4	Ethylbenzene	20	17.5	88	60-140
75-09-2	Methylene chloride	20	14.9	75	60-140
79-34-5	1,1,2,2-Tetrachloroethane	20	14.5	73	60-140
127-18-4	Tetrachloroethene	20	20.6	103	70-130
108-88-3	Toluene	20	17.2	86	74-111
71-55-6	1,1,1-Trichloroethane	20	15.5	78	73-120
79-00-5	1,1,2-Trichloroethane	20	16.7	84	74-117
79-01-6	Trichloroethene	20	17.8	89	74-113
75-69-4	Trichlorofluoromethane	20	16.3	82	50-150
75-01-4	Vinyl chloride	20	21.5	108	5-195
1330-20-7	Xylenes (total)	60	53.0	88	79-114

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VT10656-BS	T256272.D	1	05/11/22	ED	n/a	n/a	VT10656

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD44187-1

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	96%	80-128%
2037-26-5	Toluene-D8 (SUR)	96%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	96%	79-117%
1868-53-7	Dibromofluoromethane (S)	96%	84-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD44194-1MS	T256218.D	20	05/09/22	ED	n/a	n/a	VT10653
JD44194-1MSD	T256219.D	20	05/09/22	ED	n/a	n/a	VT10653
JD44194-1 [a]	T256217.D	20	05/09/22	ED	n/a	n/a	VT10653
JD44194-1	T256216.D	200	05/09/22	ED	n/a	n/a	VT10653

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD44187-3

CAS No.	Compound	JD44194-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
107-02-8	Acrolein	ND		400	260	65	400	267	67	3	40-160/60
107-13-1	Acrylonitrile	ND		400	331	83	400	321	80	3	40-160/60
71-43-2	Benzene	ND		400	373	93	400	368	92	1	37-151/61
75-27-4	Bromodichloromethane	42.8		400	402	90	400	405	91	1	35-155/56
75-25-2	Bromoform	ND		400	381	95	400	372	93	2	45-169/42
74-83-9	Bromomethane	ND		400	356	89	400	331	83	7	10-242/61
56-23-5	Carbon tetrachloride	1410		400	1500	23* [b]	400	1440	8* [b]	4	70-140/41
108-90-7	Chlorobenzene	ND		400	361	90	400	363	91	1	37-160/53
75-00-3	Chloroethane	ND		400	404	101	400	380	95	6	14-230/78
110-75-8	2-Chloroethyl vinyl ether	ND		2000	548	27	2000	430	22	24	10-305/71
67-66-3	Chloroform	8430 [c]		400	7550	-205* [b]	400	7260	-278* [b]	4	51-138/54
74-87-3	Chloromethane	ND		400	308	77	400	311	78	1	10-273/60
124-48-1	Dibromochloromethane	ND		400	361	90	400	349	87	3	53-149/50
95-50-1	1,2-Dichlorobenzene	22.4		400	370	87	400	367	86	1	18-190/57
541-73-1	1,3-Dichlorobenzene	ND		400	351	88	400	344	86	2	59-156/43
106-46-7	1,4-Dichlorobenzene	ND		400	358	90	400	356	89	1	18-190/57
75-71-8	Dichlorodifluoromethane	ND		400	275	69	400	269	67	2	22-172/22
75-34-3	1,1-Dichloroethane	15.8	J	400	414	100	400	404	97	2	59-155/40
107-06-2	1,2-Dichloroethane	25.2		400	404	95	400	401	94	1	49-155/59
75-35-4	1,1-Dichloroethene	ND		400	334	84	400	313	78	6	10-234/32
156-59-2	cis-1,2-Dichloroethene	45.1		400	406	90	400	384	85	6	38-146/17
156-60-5	trans-1,2-Dichloroethene	ND		400	395	99	400	377	94	5	54-156/45
78-87-5	1,2-Dichloropropane	ND		400	420	105	400	422	106	0	10-210/55
10061-01-5	cis-1,3-Dichloropropene	ND		400	382	96	400	390	98	2	10-227/58
10061-02-6	trans-1,3-Dichloropropene	ND		400	368	92	400	371	93	1	17-183/86
100-41-4	Ethylbenzene	ND		400	347	87	400	345	86	1	37-162/63
75-09-2	Methylene chloride	203		400	489	72	400	460	64	6	10-221/28
79-34-5	1,1,2,2-Tetrachloroethane	120		400	404	71	400	397	69	2	46-157/61
127-18-4	Tetrachloroethene	1270		400	1460	48* [b]	400	1430	40* [b]	2	64-148/39
108-88-3	Toluene	ND		400	343	86	400	336	84	2	42-140/16
71-55-6	1,1,1-Trichloroethane	ND		400	356	89	400	342	86	4	56-139/17
79-00-5	1,1,2-Trichloroethane	608		400	928	80	400	916	77	1	61-126/17
79-01-6	Trichloroethene	702		400	965	66	400	968	67	0	37-148/15
75-69-4	Trichlorofluoromethane	ND		400	313	78	400	303	76	3	17-181/84
75-01-4	Vinyl chloride	ND		400	372	93	400	369	92	1	10-251/66
1330-20-7	Xylenes (total)	ND		1200	1040	87	1200	1040	87	0	58-134/16

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD44194-1MS	T256218.D	20	05/09/22	ED	n/a	n/a	VT10653
JD44194-1MSD	T256219.D	20	05/09/22	ED	n/a	n/a	VT10653
JD44194-1 [a]	T256217.D	20	05/09/22	ED	n/a	n/a	VT10653
JD44194-1	T256216.D	200	05/09/22	ED	n/a	n/a	VT10653

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD44187-3

CAS No.	Surrogate Recoveries	MS	MSD	JD44194-1	JD44194-1	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	103%	101%	104%	103%	80-128%
2037-26-5	Toluene-D8 (SUR)	93%	92%	92%	91%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	95%	96%	97%	97%	79-117%
1868-53-7	Dibromofluoromethane (S)	102%	99%	104%	103%	84-121%

(a) Dilution required due to high concentration of target compound.
(b) Outside control limits due to high level in sample relative to spike amount.
(c) Result is from Run #2.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD44134-1MS	T256281.D	20	05/11/22	ED	n/a	n/a	VT10656
JD44134-1MSD	T256282.D	20	05/11/22	ED	n/a	n/a	VT10656
JD44134-1 [a]	T256280.D	20	05/11/22	ED	n/a	n/a	VT10656
JD44134-1	T256279.D	200	05/11/22	ED	n/a	n/a	VT10656

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD44187-1

CAS No.	Compound	JD44134-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
107-02-8	Acrolein	ND		400	242	61	400	251	63	4	40-160/60
107-13-1	Acrylonitrile	ND		400	275	69	400	279	70	1	40-160/60
71-43-2	Benzene	910		400	1050	35* [b]	400	1050	35* [b]	0	37-151/61
75-27-4	Bromodichloromethane	ND		400	331	83	400	335	84	1	35-155/56
75-25-2	Bromoform	ND		400	382	96	400	385	96	1	45-169/42
74-83-9	Bromomethane	ND		400	314	79	400	321	80	2	10-242/61
56-23-5	Carbon tetrachloride	ND		400	311	78	400	320	80	3	70-140/41
108-90-7	Chlorobenzene	5750 [c]		400	5270	-130* [b]	400	5230	-140* [b]	1	37-160/53
75-00-3	Chloroethane	ND		400	366	92	400	372	93	2	14-230/78
110-75-8	2-Chloroethyl vinyl ether	ND		2000	891	45	2000	689	34	26	10-305/71
67-66-3	Chloroform	ND		400	298	75	400	306	77	3	51-138/54
74-87-3	Chloromethane	ND		400	293	73	400	301	75	3	10-273/60
124-48-1	Dibromochloromethane	ND		400	362	91	400	360	90	1	53-149/50
95-50-1	1,2-Dichlorobenzene	91.4		400	440	87	400	444	88	1	18-190/57
541-73-1	1,3-Dichlorobenzene	16.1		400	366	87	400	370	88	1	59-156/43
106-46-7	1,4-Dichlorobenzene	452		400	755	76	400	752	75	0	18-190/57
75-71-8	Dichlorodifluoromethane	ND		400	227	57	400	240	60	6	22-172/22
75-34-3	1,1-Dichloroethane	ND		400	338	85	400	344	86	2	59-155/40
107-06-2	1,2-Dichloroethane	ND		400	351	88	400	351	88	0	49-155/59
75-35-4	1,1-Dichloroethene	ND		400	286	72	400	293	73	2	10-234/32
156-59-2	cis-1,2-Dichloroethene	ND		400	320	80	400	319	80	0	38-146/17
156-60-5	trans-1,2-Dichloroethene	ND		400	324	81	400	339	85	5	54-156/45
78-87-5	1,2-Dichloropropane	ND		400	375	94	400	385	96	3	10-210/55
10061-01-5	cis-1,3-Dichloropropene	ND		400	361	90	400	356	89	1	10-227/58
10061-02-6	trans-1,3-Dichloropropene	ND		400	366	92	400	365	91	0	17-183/86
100-41-4	Ethylbenzene	56.7		400	394	84	400	392	84	1	37-162/63
75-09-2	Methylene chloride	ND		400	272	68	400	276	69	1	10-221/28
79-34-5	1,1,2,2-Tetrachloroethane	ND		400	274	69	400	282	71	3	46-157/61
127-18-4	Tetrachloroethene	ND		400	383	96	400	383	96	0	64-148/39
108-88-3	Toluene	799		400	999	50	400	990	48	1	42-140/16
71-55-6	1,1,1-Trichloroethane	ND		400	298	75	400	304	76	2	56-139/17
79-00-5	1,1,2-Trichloroethane	ND		400	329	82	400	323	81	2	61-126/17
79-01-6	Trichloroethene	ND		400	345	86	400	338	85	2	37-148/15
75-69-4	Trichlorofluoromethane	ND		400	274	69	400	279	70	2	17-181/84
75-01-4	Vinyl chloride	ND		400	341	85	400	353	88	3	10-251/66
1330-20-7	Xylenes (total)	65.3		1200	1110	87	1200	1120	88	1	58-134/16

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD44134-1MS	T256281.D	20	05/11/22	ED	n/a	n/a	VT10656
JD44134-1MSD	T256282.D	20	05/11/22	ED	n/a	n/a	VT10656
JD44134-1 [a]	T256280.D	20	05/11/22	ED	n/a	n/a	VT10656
JD44134-1	T256279.D	200	05/11/22	ED	n/a	n/a	VT10656

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD44187-1

CAS No.	Surrogate Recoveries	MS	MSD	JD44134-1	JD44134-1	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	97%	97%	99%	98%	80-128%
2037-26-5	Toluene-D8 (SUR)	98%	97%	96%	96%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	94%	94%	95%	96%	79-117%
1868-53-7	Dibromofluoromethane (S)	95%	96%	98%	96%	84-121%

(a) Dilution required due to high concentration of target compound.
(b) Outside control limits due to high level in sample relative to spike amount.
(c) Result is from Run #2.

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: VT10615-BFB
Lab File ID: T255352.D
Instrument ID: GCMST
Injection Date: 03/15/22
Injection Time: 19:12

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	7696	17.8		Pass
75	30.0 - 60.0% of mass 95	20984	48.6		Pass
95	Base peak, 100% relative abundance	43162	100.0		Pass
96	5.0 - 9.0% of mass 95	2869	6.65		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	35712	82.7		Pass
175	5.0 - 9.0% of mass 174	2849	6.60	(7.98) [a]	Pass
176	95.0 - 101.0% of mass 174	34394	79.7	(96.3) [a]	Pass
177	5.0 - 9.0% of mass 176	2181	5.05	(6.34) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VT10615-IC10615	T255353.D	03/15/22	19:43	00:31	Initial cal 0.2
VT10615-IC10615	T255354.D	03/15/22	20:13	01:01	Initial cal 0.5
VT10615-IC10615	T255355.D	03/15/22	20:43	01:31	Initial cal 1
VT10615-IC10615	T255356.D	03/15/22	21:14	02:02	Initial cal 2
VT10615-IC10615	T255357.D	03/15/22	21:44	02:32	Initial cal 4
VT10615-IC10615	T255358.D	03/15/22	22:15	03:03	Initial cal 8
VT10615-ICC10615	T255359.D	03/15/22	22:45	03:33	Initial cal 20
VT10615-IC10615	T255360.D	03/15/22	23:16	04:04	Initial cal 50
VT10615-IC10615	T255361.D	03/15/22	23:46	04:34	Initial cal 100
VT10615-IC10615	T255362.D	03/16/22	00:16	05:04	Initial cal 200
VT10615-ICV10615	T255365.D	03/16/22	01:47	06:35	Initial cal verification 20
VT10615-ICV10615	T255366.D	03/16/22	02:18	07:06	Initial cal verification 20

Instrument Performance Check (BFB)

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample:	VT10615-BFB2	**Injection Date:**	03/16/22
Lab File ID:	T255369.D	**Injection Time:**	09:41
Instrument ID:	GCMST		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	6697	17.5		Pass
75	30.0 - 60.0% of mass 95	18679	48.8		Pass
95	Base peak, 100% relative abundance	38284	100.0		Pass
96	5.0 - 9.0% of mass 95	2453	6.41		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	31595	82.5		Pass
175	5.0 - 9.0% of mass 174	2470	6.45	(7.82) [a]	Pass
176	95.0 - 101.0% of mass 174	30123	78.7	(95.3) [a]	Pass
177	5.0 - 9.0% of mass 176	2012	5.26	(6.68) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VT10615-ICV10615	T255370.D	03/16/22	10:11	00:30	Initial cal verification 20

Instrument Performance Check (BFB)

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: VT10653-BFB
Lab File ID: T256210.D
Instrument ID: GCMST
Injection Date: 05/09/22
Injection Time: 08:15

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	11168	20.8		Pass
75	30.0 - 60.0% of mass 95	27483	51.1		Pass
95	Base peak, 100% relative abundance	53787	100.0		Pass
96	5.0 - 9.0% of mass 95	3519	6.54		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	48424	90.0		Pass
175	5.0 - 9.0% of mass 174	3694	6.87	(7.63) [a]	Pass
176	95.0 - 101.0% of mass 174	47397	88.1	(97.9) [a]	Pass
177	5.0 - 9.0% of mass 176	3267	6.07	(6.89) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VT10653-CC10615	T256211.D	05/09/22	08:46	00:31	Continuing cal 20
VT10653-BS	T256211.D	05/09/22	08:46	00:31	Blank Spike
VT10653-MB	T256212.D	05/09/22	09:32	01:17	Method Blank
ZZZZZZ	T256213.D	05/09/22	10:09	01:54	(unrelated sample)
ZZZZZZ	T256214.D	05/09/22	10:40	02:25	(unrelated sample)
JD44187-3	T256215.D	05/09/22	11:10	02:55	TB
JD44194-1	T256216.D	05/09/22	11:41	03:26	(used for QC only; not part of job JD44187)
JD44194-1	T256217.D	05/09/22	12:11	03:56	(used for QC only; not part of job JD44187)
JD44194-1MS	T256218.D	05/09/22	12:42	04:27	Matrix Spike
JD44194-1MSD	T256219.D	05/09/22	13:12	04:57	Matrix Spike Duplicate
ZZZZZZ	T256220.D	05/09/22	13:42	05:27	(unrelated sample)
ZZZZZZ	T256221.D	05/09/22	14:13	05:58	(unrelated sample)
ZZZZZZ	T256222.D	05/09/22	14:43	06:28	(unrelated sample)
ZZZZZZ	T256223.D	05/09/22	15:14	06:59	(unrelated sample)
ZZZZZZ	T256224.D	05/09/22	15:44	07:29	(unrelated sample)
ZZZZZZ	T256225.D	05/09/22	16:15	08:00	(unrelated sample)
ZZZZZZ	T256226.D	05/09/22	16:45	08:30	(unrelated sample)
ZZZZZZ	T256227.D	05/09/22	17:16	09:01	(unrelated sample)
ZZZZZZ	T256228.D	05/09/22	17:46	09:31	(unrelated sample)
ZZZZZZ	T256229.D	05/09/22	18:17	10:02	(unrelated sample)
ZZZZZZ	T256230.D	05/09/22	18:47	10:32	(unrelated sample)
ZZZZZZ	T256231.D	05/09/22	19:18	11:03	(unrelated sample)
ZZZZZZ	T256232.D	05/09/22	19:48	11:33	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample:	VT10656-BFB	**Injection Date:**	05/11/22
Lab File ID:	T256271.D	**Injection Time:**	11:32
Instrument ID:	GCMST		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	9775	19.3		Pass
75	30.0 - 60.0% of mass 95	23933	47.3		Pass
95	Base peak, 100% relative abundance	50592	100.0		Pass
96	5.0 - 9.0% of mass 95	3426	6.77		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	45277	89.5		Pass
175	5.0 - 9.0% of mass 174	3517	6.95	(7.77) [a]	Pass
176	95.0 - 101.0% of mass 174	44211	87.4	(97.6) [a]	Pass
177	5.0 - 9.0% of mass 176	3050	6.03	(6.90) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VT10656-BS	T256272.D	05/11/22	12:09	00:37	Blank Spike
VT10656-CC10615	T256272.D	05/11/22	12:09	00:37	Continuing cal 20
VT10656-MB	T256273.D	05/11/22	12:49	01:17	Method Blank
JD44187-1	T256274.D	05/11/22	13:26	01:54	GRAB 1 THRU 4-050222-BSA DISCHARGE
ZZZZZZ	T256275.D	05/11/22	13:57	02:25	(unrelated sample)
JD44134-1	T256279.D	05/11/22	15:59	04:27	(used for QC only; not part of job JD44187)
JD44134-1	T256280.D	05/11/22	16:30	04:58	(used for QC only; not part of job JD44187)
JD44134-1MS	T256281.D	05/11/22	17:01	05:29	Matrix Spike
JD44134-1MSD	T256282.D	05/11/22	17:32	06:00	Matrix Spike Duplicate
ZZZZZZ	T256284.D	05/11/22	18:33	07:01	(unrelated sample)
ZZZZZZ	T256285.D	05/11/22	19:04	07:32	(unrelated sample)
ZZZZZZ	T256286.D	05/11/22	19:34	08:02	(unrelated sample)
ZZZZZZ	T256287.D	05/11/22	20:05	08:33	(unrelated sample)
ZZZZZZ	T256288.D	05/11/22	20:35	09:03	(unrelated sample)
ZZZZZZ	T256289.D	05/11/22	21:06	09:34	(unrelated sample)
ZZZZZZ	T256290.D	05/11/22	21:36	10:04	(unrelated sample)
ZZZZZZ	T256291.D	05/11/22	22:07	10:35	(unrelated sample)
ZZZZZZ	T256292.D	05/11/22	22:37	11:05	(unrelated sample)
ZZZZZZ	T256293.D	05/11/22	23:08	11:36	(unrelated sample)

Surrogate Recovery Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Method: EPA 624.1 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JD44187-1	T256274.D	96	95	96	94
JD44187-3	T256215.D	100	92	95	102
JD44134-1MS	T256281.D	97	98	94	95
JD44134-1MSD	T256282.D	97	97	94	96
JD44194-1MS	T256218.D	103	93	95	102
JD44194-1MSD	T256219.D	101	92	96	99
VT10653-BS	T256211.D	98	91	97	96
VT10653-MB	T256212.D	98	93	97	94
VT10656-BS	T256272.D	96	96	96	96
VT10656-MB	T256273.D	95	96	96	93

Surrogate Compounds	Recovery Limits
S1 = 1,2-Dichloroethane-D4 (SUR)	80-128%
S2 = Toluene-D8 (SUR)	82-113%
S3 = 4-Bromofluorobenzene (SUR)	79-117%
S4 = Dibromofluoromethane (S)	84-121%

MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39544B-MB1	F206897.D	1	05/10/22	KLS	05/09/22	OP39544B	EF9105

The QC reported here applies to the following samples: **Method:** EPA 625.1

JD44187-1

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.82	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.89	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.4	ug/l	
51-28-5	2,4-Dinitrophenol	ND	10	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.0	1.3	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.96	ug/l	
100-02-7	4-Nitrophenol	ND	10	1.2	ug/l	
87-86-5	Pentachlorophenol	ND	5.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.92	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.19	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.14	ug/l	
120-12-7	Anthracene	ND	1.0	0.21	ug/l	
92-87-5	Benzidine	ND	10	0.90	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.21	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.21	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.34	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.21	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.40	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.46	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.24	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.34	ug/l	
218-01-9	Chrysene	ND	1.0	0.18	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.28	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.25	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	2.0	0.40	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.37	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.17	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.17	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.51	ug/l	

Method Blank Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39544B-MB1	F206897.D	1	05/10/22	KLS	05/09/22	OP39544B	EF9105

The QC reported here applies to the following samples: **Method:** EPA 625.1

JD44187-1

CAS No.	Compound	Result	RL	MDL	Units	Q
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.33	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.23	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.22	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	1.7	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.17	ug/l	
86-73-7	Fluorene	ND	1.0	0.17	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.8	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.39	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.33	ug/l	
78-59-1	Isophorone	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	1.0	0.23	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.64	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	2.0	0.82	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.18	ug/l	
129-00-0	Pyrene	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	41%	10-110%
4165-62-2	Phenol-d5	28%	10-110%
118-79-6	2,4,6-Tribromophenol	78%	35-147%
4165-60-0	Nitrobenzene-d5	76%	32-132%
321-60-8	2-Fluorobiphenyl	76%	40-117%
1718-51-0	Terphenyl-d14	83%	33-126%

Method Blank Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39544B-MB1	F206897.D	1	05/10/22	KLS	05/09/22	OP39544B	EF9105

The QC reported here applies to the following samples: **Method:**

JD44187-1

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Alkane	13.27	8.1	ug/l	J
	Alkane	14.04	14	ug/l	J
	Alkane	14.80	20	ug/l	J
	Alkane	15.53	17	ug/l	J
	Alkane	16.24	14	ug/l	J
	Alkane	16.93	9	ug/l	J
	Alkane	17.61	4.3	ug/l	J
	Total TIC, Semi-Volatile		86.4	ug/l	J

Method Blank Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39544B-MB1	3E117707.D	1	05/12/22	JY	05/09/22	OP39544B	E3E5405

The QC reported here applies to the following samples: **Method:** EPA 625.1

JD44187-1

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.82	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.89	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.4	ug/l	
51-28-5	2,4-Dinitrophenol	ND	10	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.0	1.3	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.96	ug/l	
100-02-7	4-Nitrophenol	ND	10	1.2	ug/l	
87-86-5	Pentachlorophenol	ND	5.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.92	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.19	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.14	ug/l	
120-12-7	Anthracene	ND	1.0	0.21	ug/l	
92-87-5	Benzidine	ND	10	0.90	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.21	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.21	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.34	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.21	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.40	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.46	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.24	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.34	ug/l	
218-01-9	Chrysene	ND	1.0	0.18	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.28	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.25	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	2.0	0.40	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.37	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.17	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.17	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.51	ug/l	

Method Blank Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39544B-MB1	3E117707.D	1	05/12/22	JY	05/09/22	OP39544B	E3E5405

The QC reported here applies to the following samples: **Method:** EPA 625.1

JD44187-1

CAS No.	Compound	Result	RL	MDL	Units	Q
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.33	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.23	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.22	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	1.7	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.17	ug/l	
86-73-7	Fluorene	ND	1.0	0.17	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.8	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.39	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.33	ug/l	
78-59-1	Isophorone	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	1.0	0.23	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.64	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	2.0	0.82	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.18	ug/l	
129-00-0	Pyrene	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	43%	10-110%
4165-62-2	Phenol-d5	28%	10-110%
118-79-6	2,4,6-Tribromophenol	76%	35-147%
4165-60-0	Nitrobenzene-d5	72%	32-132%
321-60-8	2-Fluorobiphenyl	77%	40-117%
1718-51-0	Terphenyl-d14	81%	33-126%

Method Blank Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39544B-MB1	3E117707.D	1	05/12/22	JY	05/09/22	OP39544B	E3E5405

The QC reported here applies to the following samples: **Method:**

JD44187-1

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	alkane	13.54	8.7	ug/l	J
	alkane	14.59	21	ug/l	J
	alkane	15.09	18	ug/l	J
	alkane	15.57	15	ug/l	J
	alkane	16.03	13	ug/l	J
	alkane	16.48	5.8	ug/l	J
	Total TIC, Semi-Volatile		81.5	ug/l	J

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39544B-BS1	F206898.D	1	05/10/22	KLS	05/09/22	OP39544B	EF9105
OP39544B-BSD	F206899.D	1	05/10/22	KLS	05/09/22	OP39544B	EF9105

The QC reported here applies to the following samples: **Method:** EPA 625.1

JD44187-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	50	34.4	69	35.6	71	3	43-100/22
59-50-7	4-Chloro-3-methyl phenol	50	41.2	82	40.6	81	1	46-110/21
120-83-2	2,4-Dichlorophenol	50	38.9	78	40.8	82	5	44-109/21
105-67-9	2,4-Dimethylphenol	50	26.1	52	34.7	69	28* [a]	42-116/20
51-28-5	2,4-Dinitrophenol	100	85.8	86	88.6	89	3	38-131/27
534-52-1	4,6-Dinitro-o-cresol	50	47.8	96	49.0	98	2	50-124/26
88-75-5	2-Nitrophenol	50	38.8	78	39.9	80	3	44-109/21
100-02-7	4-Nitrophenol	50	26.0	52	28.9	58	11	14-110/23
87-86-5	Pentachlorophenol	100	93.0	93	95.1	95	2	25-128/25
108-95-2	Phenol	50	18.9	38	19.4	39	3	20-110/22
88-06-2	2,4,6-Trichlorophenol	50	41.5	83	43.1	86	4	52-118/24
83-32-9	Acenaphthene	50	38.0	76	41.1	82	8	47-110/24
208-96-8	Acenaphthylene	50	28.1	56	30.4	61	8	45-110/24
120-12-7	Anthracene	50	43.6	87	44.4	89	2	52-110/24
92-87-5	Benzidine	50	ND	0* [a]	ND	0* [a]	nc	10-110/65
56-55-3	Benzo(a)anthracene	50	44.4	89	46.0	92	4	53-110/20
50-32-8	Benzo(a)pyrene	50	45.6	91	45.4	91	0	55-110/23
205-99-2	Benzo(b)fluoranthene	50	47.3	95	47.6	95	1	57-110/23
191-24-2	Benzo(g,h,i)perylene	50	47.7	95	47.2	94	1	51-110/23
207-08-9	Benzo(k)fluoranthene	50	45.3	91	45.8	92	1	56-110/22
101-55-3	4-Bromophenyl phenyl ether	50	42.6	85	44.5	89	4	51-112/23
85-68-7	Butyl benzyl phthalate	50	50.1	100	53.3	107	6	50-122/23
91-58-7	2-Chloronaphthalene	50	34.0	68	39.1	78	14	41-110/26
106-47-8	4-Chloroaniline	50	19.0	38	18.7	37	2	10-110/44
218-01-9	Chrysene	50	44.8	90	45.7	91	2	52-110/20
111-91-1	bis(2-Chloroethoxy)methane	50	39.0	78	40.4	81	4	36-110/21
111-44-4	bis(2-Chloroethyl)ether	50	37.2	74	37.8	76	2	40-111/21
108-60-1	2,2'-Oxybis(1-chloropropane)	50	35.6	71	35.5	71	0	37-110/25
7005-72-3	4-Chlorophenyl phenyl ether	50	40.6	81	43.0	86	6	48-110/25
95-50-1	1,2-Dichlorobenzene	50	27.0	54	30.1	60	11	35-110/28
122-66-7	1,2-Diphenylhydrazine	50	41.0	82	42.7	85	4	39-128/23
541-73-1	1,3-Dichlorobenzene	50	26.0	52	28.7	57	10	32-110/28
106-46-7	1,4-Dichlorobenzene	50	26.5	53	29.4	59	10	33-110/27
121-14-2	2,4-Dinitrotoluene	50	49.7	99	50.2	100	1	61-117/25
606-20-2	2,6-Dinitrotoluene	50	49.4	99	49.8	100	1	61-119/23
91-94-1	3,3'-Dichlorobenzidine	50	33.1	66	34.1	68	3	20-110/33

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39544B-BS1	F206898.D	1	05/10/22	KLS	05/09/22	OP39544B	EF9105
OP39544B-BSD	F206899.D	1	05/10/22	KLS	05/09/22	OP39544B	EF9105

The QC reported here applies to the following samples: **Method:** EPA 625.1

JD44187-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
53-70-3	Dibenzo(a,h)anthracene	50	48.9	98	48.6	97	1	55-110/25
84-74-2	Di-n-butyl phthalate	50	46.3	93	47.2	94	2	55-118/25
117-84-0	Di-n-octyl phthalate	50	44.1	88	45.5	91	3	49-124/26
84-66-2	Diethyl phthalate	50	44.5	89	46.3	93	4	54-113/23
131-11-3	Dimethyl phthalate	50	43.6	87	44.8	90	3	56-110/23
117-81-7	bis(2-Ethylhexyl)phthalate	50	51.1	102	53.5	107	5	50-120/22
206-44-0	Fluoranthene	50	45.2	90	45.7	91	1	55-111/23
86-73-7	Fluorene	50	42.0	84	44.3	89	5	51-110/25
118-74-1	Hexachlorobenzene	50	44.5	89	45.0	90	1	47-116/23
87-68-3	Hexachlorobutadiene	50	25.2	50	29.4	59	15	24-110/34
77-47-4	Hexachlorocyclopentadiene	100	27.5	28	32.1	32	15	10-110/39
67-72-1	Hexachloroethane	50	24.0	48	26.8	54	11	28-110/34
193-39-5	Indeno(1,2,3-cd)pyrene	50	48.9	98	48.3	97	1	51-112/24
78-59-1	Isophorone	50	39.5	79	40.5	81	3	42-111/20
91-20-3	Naphthalene	50	31.2	62	35.3	71	12	34-110/25
98-95-3	Nitrobenzene	50	35.5	71	37.9	76	7	39-110/21
62-75-9	n-Nitrosodimethylamine	50	23.9	48	24.9	50	4	15-110/19
621-64-7	N-Nitroso-di-n-propylamine	50	38.8	78	38.7	77	0	33-117/21
86-30-6	N-Nitrosodiphenylamine	50	42.0	84	44.1	88	5	54-110/24
85-01-8	Phenanthrene	50	43.5	87	44.2	88	2	53-110/23
129-00-0	Pyrene	50	46.1	92	49.6	99	7	52-110/22
120-82-1	1,2,4-Trichlorobenzene	50	27.9	56	31.7	63	13	30-110/29

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	46%	48%	10-110%
4165-62-2	Phenol-d5	32%	33%	10-110%
118-79-6	2,4,6-Tribromophenol	91%	98%	35-147%
4165-60-0	Nitrobenzene-d5	78%	83%	32-132%
321-60-8	2-Fluorobiphenyl	78%	86%	40-117%
1718-51-0	Terphenyl-d14	97%	106%	33-126%

(a) Outside of in house control limits.

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: E3E5370-DFTPP
Lab File ID: 3E117165.D
Instrument ID: GCMS3E
Injection Date: 04/01/22
Injection Time: 17:27

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	86458	47.5		Pass
68	Less than 2.0% of mass 69	567	0.31	(0.63) [a]	Pass
69	Mass 69 relative abundance	89925	49.4		Pass
70	Less than 2.0% of mass 69	564	0.31	(0.63) [a]	Pass
127	40.0 - 60.0% of mass 198	104901	57.6		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	181976	100.0		Pass
199	5.0 - 9.0% of mass 198	12611	6.93		Pass
275	10.0 - 30.0% of mass 198	44912	24.7		Pass
365	1.0 - 100.0% of mass 198	5896	3.24		Pass
441	Present, but less than mass 443	16173	8.89	(84.1) [b]	Pass
442	40.0 - 100.0% of mass 198	99784	54.8		Pass
443	17.0 - 23.0% of mass 442	19236	10.6	(19.3) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3E5370-IC5370	3E117166.D	04/01/22	18:09	00:42	Initial cal 100
E3E5370-IC5370	3E117167.D	04/01/22	19:14	01:47	Initial cal 1
E3E5370-IC5370	3E117168.D	04/01/22	19:40	02:13	Initial cal 80
E3E5370-IC5370	3E117169.D	04/01/22	20:07	02:40	Initial cal 2
E3E5370-ICC5370	3E117170.D	04/01/22	20:33	03:06	Initial cal 50
E3E5370-IC5370	3E117171.D	04/01/22	21:00	03:33	Initial cal 5
E3E5370-IC5370	3E117172.D	04/01/22	21:26	03:59	Initial cal 25
E3E5370-IC5370	3E117173.D	04/01/22	21:53	04:26	Initial cal 10
E3E5370-ICV5370	3E117174.D	04/01/22	22:19	04:52	Initial cal verification 50
E3E5370-ICV5370	3E117175.D	04/01/22	22:46	05:19	Initial cal verification 50
E3E5370-ICV5370	3E117176.D	04/01/22	23:12	05:45	Initial cal verification 50
E3E5370-ICV5370	3E117177.D	04/01/22	23:39	06:12	Initial cal verification 50
E3E5370-ICV5370	3E117179.D	04/02/22	00:31	07:04	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: E3E5405-DFTPP
Lab File ID: 3E117702A.D
Instrument ID: GCMS3E
Injection Date: 05/12/22
Injection Time: 10:35

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	34694	30.2		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	41900	36.5		Pass
70	Less than 2.0% of mass 69	171	0.15	(0.41) [a]	Pass
127	40.0 - 60.0% of mass 198	59933	52.2		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	114856	100.0		Pass
199	5.0 - 9.0% of mass 198	7754	6.75		Pass
275	10.0 - 30.0% of mass 198	27989	24.4		Pass
365	1.0 - 100.0% of mass 198	3103	2.70		Pass
441	Present, but less than mass 443	10726	9.34	(82.9) [b]	Pass
442	40.0 - 100.0% of mass 198	71749	62.5		Pass
443	17.0 - 23.0% of mass 442	12945	11.3	(18.0) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3E5405-CC5370	3E117703.D	05/12/22	10:48	00:13	Continuing cal 50
E3E5405-CC5375	3E117704.D	05/12/22	11:14	00:39	Continuing cal 50
OP39569-MB1	3E117705.D	05/12/22	11:41	01:06	Method Blank
E3E5405-CC5370	3E117706.D	05/12/22	12:06	01:31	Continuing cal 5
OP39544B-MB1	3E117707.D	05/12/22	12:35	02:00	Method Blank
OP39569-BS1	3E117708.D	05/12/22	13:01	02:26	Blank Spike
ZZZZZZ	3E117709.D	05/12/22	13:26	02:51	(unrelated sample)
JD44356-1	3E117710.D	05/12/22	13:52	03:17	(used for QC only; not part of job JD44187)
ZZZZZZ	3E117711.D	05/12/22	14:18	03:43	(unrelated sample)
ZZZZZZ	3E117712.D	05/12/22	14:44	04:09	(unrelated sample)
ZZZZZZ	3E117713.D	05/12/22	15:10	04:35	(unrelated sample)
ZZZZZZ	3E117714.D	05/12/22	15:36	05:01	(unrelated sample)
OP39569-MS	3E117715.D	05/12/22	16:02	05:27	Matrix Spike
OP39569-MSD	3E117716.D	05/12/22	16:28	05:53	Matrix Spike Duplicate
ZZZZZZ	3E117717.D	05/12/22	16:54	06:19	(unrelated sample)
ZZZZZZ	3E117718.D	05/12/22	17:30	06:55	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: EF9081-DFTPP
Lab File ID: F206496.D
Instrument ID: GCMSF
Injection Date: 04/22/22
Injection Time: 09:41

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	34288	38.4		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	42314	47.4		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	41437	46.4		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	89330	100.0		Pass
199	5.0 - 9.0% of mass 198	5805	6.50		Pass
275	10.0 - 30.0% of mass 198	26189	29.3		Pass
365	1.0 - 100.0% of mass 198	3296	3.69		Pass
441	Present, but less than mass 443	11713	13.1	(84.8) [b]	Pass
442	40.0 - 100.0% of mass 198	70298	78.7		Pass
443	17.0 - 23.0% of mass 442	13817	15.5	(19.7) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EF9081-IC9081	F206497.D	04/22/22	09:58	00:17	Initial cal 100
EF9081-IC9081	F206498.D	04/22/22	10:22	00:41	Initial cal 1
EF9081-IC9081	F206499.D	04/22/22	10:53	01:12	Initial cal 80
EF9081-IC9081	F206500.D	04/22/22	11:18	01:37	Initial cal 2
EF9081-ICC9081	F206501.D	04/22/22	11:43	02:02	Initial cal 50
EF9081-IC9081	F206502.D	04/22/22	12:08	02:27	Initial cal 5
EF9081-IC9081	F206503.D	04/22/22	12:33	02:52	Initial cal 25
EF9081-IC9081	F206504.D	04/22/22	12:57	03:16	Initial cal 10
EF9081-ICV9081	F206505.D	04/22/22	14:00	04:19	Initial cal verification 50
EF9081-ICV9081	F206506.D	04/22/22	14:25	04:44	Initial cal verification 50
EF9081-ICV9081	F206507.D	04/22/22	14:49	05:08	Initial cal verification 50
EF9081-ICV9081	F206508.D	04/22/22	15:14	05:33	Initial cal verification 50
EF9081-ICV9081	F206509.D	04/22/22	15:39	05:58	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: EF9082-DFTPP
Lab File ID: F206510.D
Instrument ID: GCMSF
Injection Date: 04/22/22
Injection Time: 16:59

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	36202	39.2		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	44722	48.5		Pass
70	Less than 2.0% of mass 69	206	0.22	(0.46) [a]	Pass
127	40.0 - 60.0% of mass 198	43376	47.0		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	92250	100.0		Pass
199	5.0 - 9.0% of mass 198	6319	6.85		Pass
275	10.0 - 30.0% of mass 198	26483	28.7		Pass
365	1.0 - 100.0% of mass 198	3164	3.43		Pass
441	Present, but less than mass 443	11301	12.3	(88.0) [b]	Pass
442	40.0 - 100.0% of mass 198	70066	76.0		Pass
443	17.0 - 23.0% of mass 442	12835	13.9	(18.3) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EF9082-IC9082	F206511.D	04/22/22	17:26	00:27	Initial cal 100
EF9082-IC9082	F206512.D	04/22/22	17:51	00:52	Initial cal 80
EF9082-ICC9082	F206513.D	04/22/22	18:15	01:16	Initial cal 50
EF9082-IC9082	F206514.D	04/22/22	18:40	01:41	Initial cal 25
EF9082-IC9082	F206515.D	04/22/22	19:05	02:06	Initial cal 10
EF9082-IC9082	F206516.D	04/22/22	19:29	02:30	Initial cal 5
EF9082-IC9082	F206517.D	04/22/22	19:54	02:55	Initial cal 2
EF9082-IC9082	F206518.D	04/22/22	20:19	03:20	Initial cal 1
EF9082-ICV9082	F206519.D	04/22/22	20:43	03:44	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: EF9083-DFTPP
Lab File ID: F206520.D
Instrument ID: GCMSF
Injection Date: 04/22/22
Injection Time: 21:06

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	36287	40.5		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	42240	47.1		Pass
70	Less than 2.0% of mass 69	61	0.07	(0.14) [a]	Pass
127	40.0 - 60.0% of mass 198	41882	46.7		Pass
197	Less than 1.0% of mass 198	335	0.37		Pass
198	Base peak, 100% relative abundance	89629	100.0		Pass
199	5.0 - 9.0% of mass 198	6697	7.47		Pass
275	10.0 - 30.0% of mass 198	24786	27.7		Pass
365	1.0 - 100.0% of mass 198	3013	3.36		Pass
441	Present, but less than mass 443	10181	11.4	(85.9) [b]	Pass
442	40.0 - 100.0% of mass 198	66242	73.9		Pass
443	17.0 - 23.0% of mass 442	11857	13.2	(17.9) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EF9083-IC9083	F206521.D	04/22/22	21:16	00:10	Initial cal 100
EF9083-IC9083	F206522.D	04/22/22	21:45	00:39	Initial cal 80
EF9083-ICC9083	F206523.D	04/22/22	22:10	01:04	Initial cal 50
EF9083-IC9083	F206524.D	04/22/22	22:34	01:28	Initial cal 25
EF9083-IC9083	F206525.D	04/22/22	22:59	01:53	Initial cal 10
EF9083-IC9083	F206526.D	04/22/22	23:23	02:17	Initial cal 5
EF9083-IC9083	F206527.D	04/22/22	23:55	02:49	Initial cal 2
EF9083-IC9083	F206528.D	04/23/22	00:19	03:13	Initial cal 1
EF9083-ICV9083	F206529.D	04/23/22	00:44	03:38	Initial cal verification 50
EF9083-ICV9083	F206530.D	04/23/22	01:33	04:27	Initial cal verification 50
EF9083-ICV9083	F206531.D	04/23/22	01:57	04:51	Initial cal verification 50
EF9083-ICV9083	F206532.D	04/23/22	02:22	05:16	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: EF9084-DFTPP
Lab File ID: F206534.D
Instrument ID: GCMSF
Injection Date: 04/23/22
Injection Time: 03:09

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	36490	39.4		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	45490	49.1		Pass
70	Less than 2.0% of mass 69	218	0.24	(0.48) [a]	Pass
127	40.0 - 60.0% of mass 198	43341	46.8		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	92690	100.0		Pass
199	5.0 - 9.0% of mass 198	6450	6.96		Pass
275	10.0 - 30.0% of mass 198	27360	29.5		Pass
365	1.0 - 100.0% of mass 198	3038	3.28		Pass
441	Present, but less than mass 443	10740	11.6	(79.1) [b]	Pass
442	40.0 - 100.0% of mass 198	70616	76.2		Pass
443	17.0 - 23.0% of mass 442	13578	14.6	(19.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EF9084-IC9084	F206535.D	04/23/22	03:19	00:10	Initial cal 100
EF9084-IC9084	F206536.D	04/23/22	03:44	00:35	Initial cal 80
EF9084-ICC9084	F206537.D	04/23/22	04:08	00:59	Initial cal 50
EF9084-IC9084	F206538.D	04/23/22	04:33	01:24	Initial cal 25
EF9084-IC9084	F206539.D	04/23/22	04:57	01:48	Initial cal 10
EF9084-IC9084	F206540.D	04/23/22	05:22	02:13	Initial cal 5
EF9084-IC9084	F206541.D	04/23/22	05:46	02:37	Initial cal 2
EF9084-IC9084	F206542.D	04/23/22	06:11	03:02	Initial cal 1
EF9084-ICV9084	F206543.D	04/23/22	06:35	03:26	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: EF9105-DFTPP
Lab File ID: F206890.D
Instrument ID: GCMSF
Injection Date: 05/10/22
Injection Time: 12:09

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	42300	37.9		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	52923	47.5		Pass
70	Less than 2.0% of mass 69	167	0.15	(0.32) [a]	Pass
127	40.0 - 60.0% of mass 198	51413	46.1		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	111515	100.0		Pass
199	5.0 - 9.0% of mass 198	7878	7.06		Pass
275	10.0 - 30.0% of mass 198	32835	29.4		Pass
365	1.0 - 100.0% of mass 198	4155	3.73		Pass
441	Present, but less than mass 443	13558	12.2	(75.2) [b]	Pass
442	40.0 - 100.0% of mass 198	91797	82.3		Pass
443	17.0 - 23.0% of mass 442	18021	16.2	(19.6) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EF9105-CC9081	F206891.D	05/10/22	12:24	00:15	Continuing cal 25
EF9105-CC9082	F206892.D	05/10/22	12:49	00:40	Continuing cal 25
EF9105-CC9083	F206893.D	05/10/22	13:14	01:05	Continuing cal 25
EF9105-CC9084	F206894.D	05/10/22	13:38	01:29	Continuing cal 25
EF9105-CC9081	F206896.D	05/10/22	14:41	02:32	Continuing cal 5
OP39544B-MB1	F206897.D	05/10/22	15:07	02:58	Method Blank
OP39544-MB1	F206897.D	05/10/22	15:07	02:58	Method Blank
OP39544-BS1	F206898.D	05/10/22	15:31	03:22	Blank Spike
OP39544B-BS1	F206898.D	05/10/22	15:31	03:22	Blank Spike
OP39544-BSD	F206899.D	05/10/22	15:56	03:47	Blank Spike Duplicate
OP39544B-BSD	F206899.D	05/10/22	15:56	03:47	Blank Spike Duplicate
OP39544-BS13	F206900.D	05/10/22	16:21	04:12	Blank Spike
JD44187-1	F206901.D	05/10/22	16:45	04:36	GRAB 1 THRU 4-050222-BSA DISCHARGE
ZZZZZZ	F206902.D	05/10/22	17:10	05:01	(unrelated sample)
ZZZZZZ	F206903.D	05/10/22	17:35	05:26	(unrelated sample)
ZZZZZZ	F206906.D	05/10/22	18:49	06:40	(unrelated sample)
ZZZZZZ	F206907.D	05/10/22	19:14	07:05	(unrelated sample)
ZZZZZZ	F206908.D	05/10/22	19:39	07:30	(unrelated sample)
ZZZZZZ	F206909.D	05/10/22	20:03	07:54	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample:	EF9105-DFTPP	**Injection Date:**	05/10/22
Lab File ID:	F206890.D	**Injection Time:**	12:09
Instrument ID:	GCMSF		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	F206910.D	05/10/22	20:28	08:19	(unrelated sample)
ZZZZZZ	F206911.D	05/10/22	20:53	08:44	(unrelated sample)
ZZZZZZ	F206912.D	05/10/22	21:17	09:08	(unrelated sample)
ZZZZZZ	F206913.D	05/10/22	21:42	09:33	(unrelated sample)
ZZZZZZ	F206914.D	05/10/22	22:07	09:58	(unrelated sample)
ZZZZZZ	F206915.D	05/10/22	22:31	10:22	(unrelated sample)
ZZZZZZ	F206916.D	05/10/22	22:56	10:47	(unrelated sample)
ZZZZZZ	F206917.D	05/10/22	23:21	11:12	(unrelated sample)
ZZZZZZ	F206918.D	05/10/22	23:45	11:36	(unrelated sample)

Surrogate Recovery Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Method: EPA 625.1 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JD44187-1	F206901.D	35	24	86	75	72	38
OP39544B-BS1	F206898.D	46	32	91	78	78	97
OP39544B-BSD	F206899.D	48	33	98	83	86	106
OP39544B-MB1	F206897.D	41	28	78	76	76	83
OP39544B-MB1	3E117707.D	43	28	76	72	77	81

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	10-110%
S2 = Phenol-d5	10-110%
S3 = 2,4,6-Tribromophenol	35-147%
S4 = Nitrobenzene-d5	32-132%
S5 = 2-Fluorobiphenyl	40-117%
S6 = Terphenyl-d14	33-126%

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD44187
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP32697
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 05/09/22

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	16	77		
Antimony	6.0	2.5	4.1		
Arsenic	3.0	2	2.5		
Barium	200	.4	17		
Beryllium	1.0	.1	.5		
Bismuth	20	3.6	4.8		
Boron	100	1.9	85		
Cadmium	3.0	.4	1.2		
Calcium	5000	5.6	130		
Cerium	100				
Chromium	10	.5	1.5		
Cobalt	50	.5	2.5		
Copper	10	1	4.1	2.4	<10
Iron	100	11	30		
Lead	3.0	1.2	2.4		
Lithium	50	2.3	9.1		
Magnesium	5000	65	200		
Manganese	15	.2	2		
Molybdenum	20	.4	4.5		
Nickel	10	.3	1.8		
Phosphorus	50	4.1	14		
Potassium	10000	55	200		
Selenium	10	3.5	5.5		
Silicon	200	1.6	130		
Silver	10	1.1	2.4		
Sodium	10000	11	900		
Strontium	10	.1	1.6		
Sulfur	50	4.4	18		
Thallium	10	2.5	1.9		
Tin	50	1	4.7		
Titanium	10	.4	1.9		
Tungsten	50	2.8	19		
Vanadium	50	.6	2.3		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD44187
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP32697
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 05/09/22

Metal	RL	IDL	MDL	MB raw	final
Zinc	20	.1	8.5	2.1	<20
Zirconium	10	.4	4.9		

Associated samples MP32697: JD44187-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD44187
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP32697
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 05/09/22

Metal	JD44214-1 Original MS		Spikelot MP200.7A % Rec		QC Limits
Aluminum	anr				
Antimony	anr				
Arsenic	anr				
Barium	anr				
Beryllium	anr				
Bismuth					
Boron					
Cadmium	anr				
Calcium					
Cerium					
Chromium	anr				
Cobalt					
Copper	13.2	2150	2000	106.6	70-130
Iron	anr				
Lead	anr				
Lithium					
Magnesium					
Manganese	anr				
Molybdenum					
Nickel	anr				
Phosphorus					
Potassium	anr				
Selenium	anr				
Silicon	anr				
Silver	anr				
Sodium	anr				
Strontium					
Sulfur					
Thallium	anr				
Tin					
Titanium					
Tungsten					
Vanadium					

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD44187
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP32697
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 05/09/22

Metal	JD44214-1 Original	MS	Spikelot MP200.7A	% Rec	QC Limits
Zinc	87.8	2180	2000	104.6	70-130
Zirconium					

Associated samples MP32697: JD44187-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD44187
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP32697 Methods: EPA 200.7
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 05/09/22

Metal	JD44214-1 Original	MSD	Spikelot MP200.7A	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Bismuth						
Boron						
Cadmium	anr					
Calcium						
Cerium						
Chromium	anr					
Cobalt						
Copper	13.2	2120	2000	105.1	1.4	10
Iron	anr					
Lead	anr					
Lithium						
Magnesium						
Manganese	anr					
Molybdenum						
Nickel	anr					
Phosphorus						
Potassium	anr					
Selenium	anr					
Silicon	anr					
Silver	anr					
Sodium	anr					
Strontium						
Sulfur						
Thallium	anr					
Tin						
Titanium						
Tungsten						
Vanadium						

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD44187
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP32697 Methods: EPA 200.7
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 05/09/22

Metal	JD44214-1 Original	MSD	Spikelot MP200.7A	% Rec	MSD RPD	QC Limit
Zinc	87.8	2170	2000	104.1	0.5	10
Zirconium						

Associated samples MP32697: JD44187-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD44187
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP32697
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 05/09/22

Metal	BSP Result	Spikelot MP200.7A	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Bismuth				
Boron				
Cadmium	anr			
Calcium				
Cerium				
Chromium	anr			
Cobalt				
Copper	2120	2000	106.0	85-115
Iron	anr			
Lead	anr			
Lithium				
Magnesium				
Manganese	anr			
Molybdenum				
Nickel	anr			
Phosphorus				
Potassium	anr			
Selenium	anr			
Silicon	anr			
Silver	anr			
Sodium	anr			
Strontium				
Sulfur				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium				

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD44187
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP32697
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 05/09/22

Metal	BSP Result	Spikelot MP200.7A	% Rec	QC Limits
Zinc	2100	2000	105.0	85-115
Zirconium				

Associated samples MP32697: JD44187-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD44187
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP32697
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 05/09/22

Metal	JD44214-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Bismuth				
Boron				
Cadmium	anr			
Calcium				
Cerium				
Chromium	anr			
Cobalt				
Copper	13.2	25.1	41.8 (a)	0-10
Iron	anr			
Lead	anr			
Lithium				
Magnesium				
Manganese	anr			
Molybdenum				
Nickel	anr			
Phosphorus				
Potassium	anr			
Selenium	anr			
Silicon	anr			
Silver	anr			
Sodium	anr			
Strontium				
Sulfur				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium				

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD44187
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP32697 Methods: EPA 200.7
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 05/09/22

Metal	JD44214-1 Original	SDL 1:5	%DIF	QC Limits
Zinc	87.8	103	17.1*(b)	0-10
Zirconium				

Associated samples MP32697: JD44187-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial dilution indicates possible matrix interference.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD44187
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP32929
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 05/18/22

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.034	.092	-0.059	<0.20

Associated samples MP32929: JD44187-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD44187
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP32929 Methods: EPA 245.1
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 05/18/22

Metal	JD44542-2 Original	MS	Spikelot HGPW3	% Rec	QC Limits
Mercury	0.0	2.0	2	100.0	70-130

Associated samples MP32929: JD44187-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD44187
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP32929 Methods: EPA 245.1
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 05/18/22

Metal	JD44542-2 Original	MSD	Spikelot HGPW3	% Rec	MSD RPD	QC Limit
Mercury	0.0	2.0	2	100.0	0.0	19

Associated samples MP32929: JD44187-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD44187
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP32929
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 05/18/22 05/18/22

Metal	BSP Result	Spikelot HGPW3	% Rec	QC Limits	BSD Result	Spikelot HGPW3	% Rec	BSD RPD	QC Limit
Mercury	2.0	2	100.0	85-115	2.0	2	100.0	0.0	

Associated samples MP32929: JD44187-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD44187
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Phosphorus, Total	GP39981/GN29056	0.050	0.0	mg/l	0.4	0.39	97.5	80-120%
Solids, Total Suspended	GN28883	4.0	0.0	mg/l				

Associated Samples:
Batch GN28883: JD44187-2
Batch GP39981: JD44187-2
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD44187
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Phosphorus, Total	GP39981/GN29056	JD44214-1	mg/l	0.11	0.12	8.7	0-38%
Solids, Total Suspended	GN28883	JD44307-1	mg/l	2.0	2.0	0.0	0-17%

Associated Samples:
Batch GN28883: JD44187-2
Batch GP39981: JD44187-2
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD44187
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Phosphorus, Total	GP39981/GN29056	JD44214-1	mg/l	0.11	0.4	0.45	85.0	35-137%

Associated Samples:
Batch GP39981: JD44187-2
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

SGS North America Inc.

Report of Analysis

Client Sample ID:	COMP-052722-BSA DISCHARGE		
Lab Sample ID:	JD45762-1	**Date Sampled:**	05/27/22
Matrix:	AQ - Ground Water	**Date Received:**	05/28/22
		Percent Solids:	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Mercury	0.27 J	0.60	0.27	ug/l	1	06/02/22	06/02/22	LM	EPA 245.1 [1]	EPA 245.1 [2]

(1) Instrument QC Batch: MA52500
(2) Prep QC Batch: MP33239

RL = Reporting Limit
MDL = Method Detection Limit
ND = Not detected
J = Indicates a result > = MDL but < RL

SGS North America Inc.

Report of Analysis

Client Sample ID:	COMP-052722-BSA DISCHARGE		
Lab Sample ID:	JD45762-1	**Date Sampled:**	05/27/22
Matrix:	AQ - Ground Water	**Date Received:**	05/28/22
		Percent Solids:	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Field Parameters							
Specific Conductivity (Field) [a]	2580	0.50	umhos/cm	1	05/27/22 15:35	SUB	SM2510 B-11
pH (Field) [b]	7.23		su	1	05/27/22 15:35	SUB	SM4500H+ B-11

(a) Field Data was not determined by SGS under NELAP accreditation, it is being reported at client's request and may not be suitable for compliance purposes.
(b) Field Data was not determined by SGS under NELAP accreditation, it is being reported at client's request and may not be suitable for compliance purposes. Temp of pH Reading: 19.3 Deg. C

RL = Reporting Limit

Wood Environment & Infrastructure Solutions, Inc.
511 Congress Street
Suite 200
Portland, Maine 04101
USA

T: 207-775-5401

www.woodplc.com

June 9, 2022

Ms. Traserra Adams, J.D.
Legal Investigator
Buffalo Sewer Authority
Industrial Waste Section
90 West Ferry Street
Buffalo, NY 14213-1799

Subject: B.P.D.E.S. Discharge Permit 21-12 BU098
Permit Excursion Notification and Investigation
Alltift Landfill, Buffalo, New York

Dear Ms. Adams,

On behalf of Honeywell International Inc. (Honeywell), Wood Environment & Infrastructure Solutions, Inc. (Wood) is submitting this letter presenting the results of additional sampling and event investigation regarding an excursion of the permit limit for mercury associated with the subject permit issued to the Alltift Landfill/Ramco Steel Remediation Units, 579 Tifft Street, Buffalo, New York 14220.

On May 24, 2022, in accordance with the permit requirements, notification was provided to the Buffalo Sewer Authority of a detection of mercury (0.0015 milligrams per liter [mg/L]) in the first 2022 semi-annual discharge sample collected on May 2, 2022 (refer to **Attachment 1 – Laboratory Analytical Report for May 2, 2022, Semi-Annual Discharge Monitoring**) which is more than the permit limit of 0.0008 mg/L.

In accordance with the permit, and as directed by the BSA, resampling for mercury and pH was completed on May 27, 2022. The resampling results indicate a mercury concentration of 0.00027 mg/L (refer to **Attachment 2 – Laboratory Analytical Report for May 27, 2022, Resampling for Mercury**), which is below the permit limit of 0.0008 mg/L. We are currently completing the first semi-annual discharge monitoring report (DMR) for submittal to the BSA and will include both the original and resampling results in the DMR.

Upon receipt of the associated analytical data on May 23, 2022, an initial review of the data and discussion with the analytical laboratory (SGS North America Inc., Dayton, New Jersey) was conducted. During discussions with the laboratory, the laboratory project manager indicated the sample contained some particulate matter and that the mercury analysis equipment was recently down requiring maintenance. Additionally, the laboratory analytical report indicates an "elevated sample detection limit due to difficult sample matrix". These are considered potential contributing factors that may have resulted in the detected mercury concentration.

Review of recent historical discharge sampling results indicates mercury has typically been non-detect. Over the past six events (semi-annual events for 2019 through 2021) mercury has been non-detect (typically at Reporting Limit of 0.0002 mg/L), except for one estimated detection of 0.00038 mg/L in the first half of 2021. Mercury has also been "0" or non-detect in the samples the BSA collects separately on an annual basis. Furthermore, ten years of sample results from the sumps that discharge to the BSA under this permit were reviewed, and mercury has never been detected as reported annually to the New York State Department of Environmental Conservation.

'Wood' is a trading name for John Wood Group PLC and its subsidiaries

Please contact Ryan Belcher at 207-289-4213 should you have any questions.

Sincerely,

Ryan T. Belcher
Associate Environmental Engineer

Robert L. Gersh
Project Manager

Cc: Sasa Jazic, Honeywell
John Formoza, Jacobs
Taylor Monnin, NYSDEC
Jason Paananen, City of Buffalo

Enclosures:

- Laboratory Analytical Report for May 2, 2022, Semi-Annual Discharge Monitoring
- Laboratory Analytical Report for May 27, 2022, Resampling for Mercury

Laboratory Analytical Report for May 2, 2022, Semi-Annual Discharge Monitoring

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Honeywell International Inc. OMM work

HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

PO#A000804776

SGS Job Number: JD44187

Sampling Date: 05/02/22

Report to:

Wood Environment & Infrastructure Soln.
511 Congress Street
Portland, ME 04112
HTS-RES-LAB@Honeywell.com; Ryan.Belcher@amecfw.com

ATTN: Ryan Belcher

Total number of pages in report: 74

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Kristin Degraw 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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Test results relate only to samples analyzed.

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EHS.US.CustomerCare@sgs.com

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SGS North America Inc.

Sample Summary

Honeywell International Inc. OMM work

Job No: JD44187

HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Project No: PO#A000804776

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD44187-1	05/02/22	15:30	BH	05/04/22	AQ	Ground Water	GRAB 1 THRU 4-050222-BSA DISCHARGE
JD44187-2	05/02/22	15:40	BH	05/04/22	AQ	Ground Water	COMP-050222-BSA DISCHARGE
JD44187-3	05/02/22	15:40	BH	05/04/22	AQ	Trip Blank Water	TB

This report contains results reported as ND = Not detected. The following applies:

Organics ND = Not detected above the MDL
Metals ND = Not detected above the MDL
General Chemistry ND = Not detected above the MDL

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Honeywell International Inc. OMM work	**Job No**	JD44187
Site:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY	**Report Date**	5/19/2022 11:08:45 A

On 05/04/2022, 2 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 3.7 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD44187 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method EPA 624.1

Matrix: AQ **Batch ID:** VT10653

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD44194-1MS, JD44194-1MSD were used as the QC samples indicated.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Carbon tetrachloride, Tetrachloroethene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- Matrix Spike /Matrix Spike Duplicate Recovery(s) for Chloroform are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- JD44187-3: Results reported from the HCl preserved sample. The reported result for acrolein is for screening only and cannot be used for compliance purposes.

Matrix: AQ **Batch ID:** VT10656

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD44134-1MS, JD44134-1MSD were used as the QC samples indicated.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Benzene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- Matrix Spike /Matrix Spike Duplicate Recovery(s) for Chlorobenzene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- JD44187-1: (pH=6)Sample pH did not satisfy field preservation criteria. Results reported from the HCl preserved sample. The reported result for acrolein is for screening only and cannot be used for compliance purposes.

MS Semi-volatiles By Method EPA 625.1

Matrix: AQ **Batch ID:** OP39544B

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- RPD of OP39544B-BSD for 2,4-Dimethylphenol: Outside of in house control limits.
- OP39544B-BS1/BSD for Benzidine: Outside of in house control limits.

Metals Analysis By Method EPA 200.7

Matrix: AQ **Batch ID:** MP32697

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD44214-1MS, JD44214-1MSD, JD44214-1SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Copper are outside control limits for sample MP32697-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- JD44187-2 for Copper: Elevated sample detection limit due to difficult sample matrix.
- JD44187-2 for Zinc: Elevated sample detection limit due to difficult sample matrix.
- MP32697-SD1 for Zinc: Serial dilution indicates possible matrix interference.

Metals Analysis By Method EPA 245.1

Matrix: AQ **Batch ID:** MP32929

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD44542-2MS, JD44542-2MSD were used as the QC samples for metals.
- JD44187-2 for Mercury: Elevated sample detection limit due to difficult sample matrix.

General Chemistry By Method EPA 365.3

Matrix: AQ **Batch ID:** GP39981

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD44214-1DUP, JD44214-1MS were used as the QC samples for Phosphorus, Total.

General Chemistry By Method SM2540 D-11

Matrix: AQ **Batch ID:** GN28883

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD44307-1DUP were used as the QC samples for Solids, Total Suspended.

General Chemistry By Method SM4500H+ B-11

Matrix: AQ **Batch ID:** R197153

- The data for SM4500H+ B-11 meets quality control requirements.
- JD44187-2 for pH: Sample received out of holding time for pH analysis. Temp of pH Reading: 16.2 Deg. C

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD44187
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 05/02/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD44187-1	**GRAB 1 THRU 4-050222-BSA DISCHARGE**					
Benzene [a]		8.0	1.0	0.34	ug/l	EPA 624.1
Chlorobenzene [a]		75.8	1.0	0.33	ug/l	EPA 624.1
1,2-Dichlorobenzene [a]		0.51 J	1.0	0.30	ug/l	EPA 624.1
1,4-Dichlorobenzene [a]		1.2	1.0	0.50	ug/l	EPA 624.1
Anthracene		0.26 J	0.99	0.21	ug/l	EPA 625.1
Benzo(a)anthracene		0.35 J	0.99	0.20	ug/l	EPA 625.1
Benzo(a)pyrene		0.36 J	0.99	0.21	ug/l	EPA 625.1
Benzo(b)fluoranthene		0.36 J	0.99	0.20	ug/l	EPA 625.1
Benzo(g,h,i)perylene		0.39 J	0.99	0.34	ug/l	EPA 625.1
Benzo(k)fluoranthene		0.35 J	0.99	0.20	ug/l	EPA 625.1
4-Chloroaniline		14.7	5.0	0.34	ug/l	EPA 625.1
Chrysene		0.28 J	0.99	0.17	ug/l	EPA 625.1
1,2-Dichlorobenzene		0.78 J	0.99	0.17	ug/l	EPA 625.1
1,4-Dichlorobenzene		0.94 J	0.99	0.17	ug/l	EPA 625.1
Dibenzo(a,h)anthracene		0.38 J	0.99	0.33	ug/l	EPA 625.1
Fluoranthene		0.55 J	0.99	0.17	ug/l	EPA 625.1
Indeno(1,2,3-cd)pyrene		0.39 J	0.99	0.33	ug/l	EPA 625.1
Naphthalene		0.26 J	0.99	0.23	ug/l	EPA 625.1
N-Nitrosodiphenylamine		0.49 J	5.0	0.22	ug/l	EPA 625.1
Phenanthrene		0.34 J	0.99	0.17	ug/l	EPA 625.1
Pyrene		0.45 J	0.99	0.22	ug/l	EPA 625.1
JD44187-2	**COMP-050222-BSA DISCHARGE**					
Copper [b]		52.4	20	8.2	ug/l	EPA 200.7
Mercury [b]		1.5	0.60	0.27	ug/l	EPA 245.1
Zinc [b]		74.6	40	17	ug/l	EPA 200.7
Phosphorus, Total		4.5	1.0	0.54	mg/l	EPA 365.3
Solids, Total Suspended		142	4.0	1.5	mg/l	SM2540 D-11
pH [c]		6.85			su	SM4500H+ B-11
JD44187-3	**TB**					

No hits reported in this sample.

(a) (pH= 6)Sample pH did not satisfy field preservation criteria. Results reported from the HCl preserved sample. The reported result for acrolein is for screening only and cannot be used for compliance purposes.
(b) Elevated sample detection limit due to difficult sample matrix.
(c) Sample received out of holding time for pH analysis. Temp of pH Reading: 16.2 Deg. C

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	GRAB 1 THRU 4-050222-BSA DISCHARGE		
Lab Sample ID:	JD44187-1	**Date Sampled:**	05/02/22
Matrix:	AQ - Ground Water	**Date Received:**	05/04/22
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	T256274.D	1	05/11/22 13:26	ED	n/a	n/a	VT10656
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	10	3.7	ug/l	
107-13-1	Acrylonitrile	ND	10	2.5	ug/l	
71-43-2	Benzene	8.0	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.35	ug/l	
75-25-2	Bromoform	ND	1.0	0.60	ug/l	
74-83-9	Bromomethane	ND	1.0	0.87	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	75.8	1.0	0.33	ug/l	
75-00-3	Chloroethane	ND	1.0	0.54	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.78	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.43	ug/l	
95-50-1	1,2-Dichlorobenzene	0.51	1.0	0.30	ug/l	J
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	1.2	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.69	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.46	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.42	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.37	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.41	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.32	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.36	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRAB 1 THRU 4-050222-BSA DISCHARGE		
Lab Sample ID:	JD44187-1	**Date Sampled:**	05/02/22
Matrix:	AQ - Ground Water	**Date Received:**	05/04/22
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.35	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	96%		80-128%
2037-26-5	Toluene-D8 (SUR)	95%		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	96%		79-117%
1868-53-7	Dibromofluoromethane (S)	94%		84-121%

(a) (pH= 6)Sample pH did not satisfy field preservation criteria. Results reported from the HCl preserved sample. The reported result for acrolein is for screening only and cannot be used for compliance purposes.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRAB 1 THRU 4-050222-BSA DISCHARGE		
Lab Sample ID:	JD44187-1	**Date Sampled:**	05/02/22
Matrix:	AQ - Ground Water	**Date Received:**	05/04/22
Method:	EPA 625.1 EPA 625	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F206901.D	1	05/10/22 16:45	KLS	05/09/22 13:50	OP39544B	EF9105
Run #2							

	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.81	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.88	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.4	ug/l	
51-28-5	2,4-Dinitrophenol	ND	9.9	1.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.0	1.3	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.95	ug/l	
100-02-7	4-Nitrophenol	ND	9.9	1.1	ug/l	
87-86-5	Pentachlorophenol	ND	5.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.91	ug/l	
83-32-9	Acenaphthene	ND	0.99	0.19	ug/l	
208-96-8	Acenaphthylene	ND	0.99	0.13	ug/l	
120-12-7	Anthracene	0.26	0.99	0.21	ug/l	J
92-87-5	Benzidine	ND	9.9	0.89	ug/l	
56-55-3	Benzo(a)anthracene	0.35	0.99	0.20	ug/l	J
50-32-8	Benzo(a)pyrene	0.36	0.99	0.21	ug/l	J
205-99-2	Benzo(b)fluoranthene	0.36	0.99	0.20	ug/l	J
191-24-2	Benzo(g,h,i)perylene	0.39	0.99	0.34	ug/l	J
207-08-9	Benzo(k)fluoranthene	0.35	0.99	0.20	ug/l	J
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.40	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.45	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.23	ug/l	
106-47-8	4-Chloroaniline	14.7	5.0	0.34	ug/l	
218-01-9	Chrysene	0.28	0.99	0.17	ug/l	J
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.28	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.25	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	2.0	0.40	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.36	ug/l	
95-50-1	1,2-Dichlorobenzene	0.78	0.99	0.17	ug/l	J
122-66-7	1,2-Diphenylhydrazine	ND	0.99	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.99	0.19	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRAB 1 THRU 4-050222-BSA DISCHARGE		
Lab Sample ID:	JD44187-1	**Date Sampled:**	05/02/22
Matrix:	AQ - Ground Water	**Date Received:**	05/04/22
Method:	EPA 625.1 EPA 625	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	0.94	0.99	0.17	ug/l	J
121-14-2	2,4-Dinitrotoluene	ND	0.99	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	0.99	0.47	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.50	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.38	0.99	0.33	ug/l	J
84-74-2	Di-n-butyl phthalate	ND	2.0	0.49	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.23	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.22	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	1.6	ug/l	
206-44-0	Fluoranthene	0.55	0.99	0.17	ug/l	J
86-73-7	Fluorene	ND	0.99	0.17	ug/l	
118-74-1	Hexachlorobenzene	ND	0.99	0.32	ug/l	
87-68-3	Hexachlorobutadiene	ND	0.99	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.9	2.8	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.39	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.39	0.99	0.33	ug/l	J
78-59-1	Isophorone	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	0.26	0.99	0.23	ug/l	J
98-95-3	Nitrobenzene	ND	2.0	0.64	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	2.0	0.81	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	0.49	5.0	0.22	ug/l	J
85-01-8	Phenanthrene	0.34	0.99	0.17	ug/l	J
129-00-0	Pyrene	0.45	0.99	0.22	ug/l	J
120-82-1	1,2,4-Trichlorobenzene	ND	0.99	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		10-110%
4165-62-2	Phenol-d5	24%		10-110%
118-79-6	2,4,6-Tribromophenol	86%		35-147%
4165-60-0	Nitrobenzene-d5	75%		32-132%
321-60-8	2-Fluorobiphenyl	72%		40-117%
1718-51-0	Terphenyl-d14	38%		33-126%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: COMP-050222-BSA DISCHARGE
Lab Sample ID: JD44187-2
Matrix: AQ - Ground Water
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Date Sampled: 05/02/22
Date Received: 05/04/22
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Copper [a]	52.4	20	8.2	ug/l	1	05/09/22	05/09/22	ND	EPA 200.7 [1]	EPA 200.7 [4]
Mercury [a]	1.5	0.60	0.27	ug/l	1	05/18/22	05/18/22	LM	EPA 245.1 [3]	EPA 245.1 [5]
Zinc [a]	74.6	40	17	ug/l	1	05/09/22	05/10/22	ND	EPA 200.7 [2]	EPA 200.7 [4]

(1) Instrument QC Batch: MA52353
(2) Instrument QC Batch: MA52368
(3) Instrument QC Batch: MA52404
(4) Prep QC Batch: MP32697
(5) Prep QC Batch: MP32929

(a) Elevated sample detection limit due to difficult sample matrix.

RL = Reporting Limit
MDL = Method Detection Limit
ND = Not detected
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	COMP-050222-BSA DISCHARGE		
Lab Sample ID:	JD44187-2	**Date Sampled:**	05/02/22
Matrix:	AQ - Ground Water	**Date Received:**	05/04/22
		Percent Solids:	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Phosphorus, Total	4.5	1.0	0.54	mg/l	5	05/11/22 12:35	MP	EPA 365.3
Solids, Total Suspended	142	4.0	1.5	mg/l	1	05/06/22 12:18	AS	SM2540 D-11
pH [a]	6.85			su	1	05/10/22 11:27	GC	SM4500H+ B-11

(a) Sample received out of holding time for pH analysis. Temp of pH Reading: 16.2 Deg. C

RL = Reporting Limit
MDL = Method Detection Limit

ND = Not detected
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TB		
Lab Sample ID:	JD44187-3	**Date Sampled:**	05/02/22
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/04/22
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	T256215.D	1	05/09/22 11:10	ED	n/a	n/a	VT10653
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	10	3.7	ug/l	
107-13-1	Acrylonitrile	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.35	ug/l	
75-25-2	Bromoform	ND	1.0	0.60	ug/l	
74-83-9	Bromomethane	ND	1.0	0.87	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.33	ug/l	
75-00-3	Chloroethane	ND	1.0	0.54	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.78	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.43	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.30	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.69	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.46	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.42	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.37	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.41	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.32	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.36	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB		
Lab Sample ID:	JD44187-3	**Date Sampled:**	05/02/22
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/04/22
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.35	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	100%		80-128%
2037-26-5	Toluene-D8 (SUR)	92%		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	95%		79-117%
1868-53-7	Dibromofluoromethane (S)	102%		84-121%

(a) Results reported from the HCl preserved sample. The reported result for acrolein is for screening only and cannot be used for compliance purposes.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

Parameter Certification Exceptions

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
1,2-Dichlorobenzene	95-50-1	**EPA 625.1**	AQ	SGS is not certified for this parameter.[a]
1,4-Dichlorobenzene	106-46-7	**EPA 625.1**	AQ	SGS is not certified for this parameter.[a]

(a) Lab cert for analyte not supported by NJDEP, OQA. Only methods/analytes required for reporting by the State of NJ can be certified in NJ. Use of this analyte for compliance must be verified through the appropriate regulatory office.

Certification exceptions shown are based on the New Jersey DEP certifications. Applicability in other states may vary. Please contact your laboratory representative if additional information is required for a specific regulatory program.

GW WTM

JD44187

FedEx #5272-0639-9913

SGS Laboratories
2235 Route 130
Dayton, NJ 08810
(p) 732-239-0200

Chain Of Custody/Analysis Request
Project Name: Buffalo Alltift Landfill - Semi-Annual
Lab Project Name: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

AESI Ref: 30609.99045
COC # : 20220502-Alltift
Lab Use Only
Lab_SDG:
Lab ID

Client Contact: (name, co., address)
Sasa Jazic
Honeywell International
301 Plainfield Road, Suite 330
Syracuse, New York 13212
Sasa.Jazic@honeywell.com

Hardcopy Report To: Do Not Send Hardcopy Unless Requested
Invoice To:

PM/Regged & Confidential
EDD To: Ryan Belcher (ryan.belcher@woodplc.com)
Sampler: Benjamin Hendry
Sampling Company: Jacobs
PO #: A00003477

Facility Name: Alltift Landfill
Location of Site: Buffalo, New York
Site Code: 30130

Job No.

Coolers: 1

Standard: Y
Rush Charges Authorized For: N
Turn Around Time Required: STANDARD

Sample Identification				Sample Date	Sample Time	Matrix Code	Medium Code	Sample Type	# of Cont.	Composite (Yes/No)	Filter This (Yes=Filtered, Not=Preserved)	Preservative: 1	0	2	2	3	0	0	Lab Sample Numbers
	Sys_Loc_Code	Start Depth (ft)	End Depth (ft)	Sys_Sample_Code					Lines										
1	N/A	---	---	Grab 1-050222-BSA Discharge	5/2/2022	0930	GW	WATER	REG	5	N	N	3	2					
2	N/A	---	---	Grab 2-050222-BSA Discharge	5/2/2022	1130	GW	WATER	REG	5	N	N	3	2					
3	N/A	---	---	Grab 3-050222-BSA Discharge	5/2/2022	1330	GW	WATER	REG	5	N	N	3	2					
4	N/A	---	---	Grab 4-050222-BSA Discharge	5/2/2022	1530	GW	WATER	REG	5	N	N	3	2					
5	N/A	---	---	COMP-050222-BSA Discharge	5/2/2022	1540	GW	WATER	REG	6	N	N			1	1	1	1	2
6	N/A	---	---	TB	--	--	WQ	WATER	TB	2	N	N	2						
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			

Prior to analysis, grab samples 1, 2, 3 & 4 to be composited by lab

Special Instructions:	Sample Location	pH Range	pH	Max Temp (°C)	Temp (°C)	Flow	Cond. (mS/cm)	Other

Notes: For COC questions, contact --
Benjamin Hendry
benjamin.hendry@jacobs.com
315-806-4029

Relinquished by	Company	Received by	Company	Condition	Custody Seals Intact
	Jacobs	FEDEX			
Date/Time	05-03-22/1500	Date/Time		Cooler Temp	
Relinquished by	Company	Received by	Company	Condition	Custody Seals Intact
Date/Time	5/4/22 10:20	Date/Time		Cooler Temp	4.1°C

Preservatives: 0 = None; 1 = HCL; 2 = HNO3; 3 = H2SO4; 4 = NaOH; 5 = Zn. Acetate; 6 = MeOH; 7 = NaHSO4; 8 = Other (specify):

JD 44187

JD44187: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: JD44187 **Client:** _____ **Project:** _____

Date / Time Received: 5/4/2022 10:20:00 AM **Delivery Method:** _____ **Airbill #'s:** _____

Cooler Temps (Raw Measured) °C: Cooler 1: (4.0);

Cooler Temps (Corrected) °C: Cooler 1: (3.7);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify) _____ _____

Comments

SM089-03
Rev. Date 12/7/17

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VT10653-MB	T256212.D	1	05/09/22	ED	n/a	n/a	VT10653

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD44187-3

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	10	3.7	ug/l	
107-13-1	Acrylonitrile	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.35	ug/l	
75-25-2	Bromoform	ND	1.0	0.60	ug/l	
74-83-9	Bromomethane	ND	1.0	0.87	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.33	ug/l	
75-00-3	Chloroethane	ND	1.0	0.54	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.78	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.43	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.30	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.69	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.46	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.42	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.37	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.41	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.32	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.36	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.35	ug/l	

Method Blank Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VT10653-MB	T256212.D	1	05/09/22	ED	n/a	n/a	VT10653

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD44187-3

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	98%	80-128%
2037-26-5	Toluene-D8 (SUR)	93%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	97%	79-117%
1868-53-7	Dibromofluoromethane (S)	94%	84-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VT10656-MB	T256273.D	1	05/11/22	ED	n/a	n/a	VT10656

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD44187-1

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	10	3.7	ug/l	
107-13-1	Acrylonitrile	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.35	ug/l	
75-25-2	Bromoform	ND	1.0	0.60	ug/l	
74-83-9	Bromomethane	ND	1.0	0.87	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.33	ug/l	
75-00-3	Chloroethane	ND	1.0	0.54	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.78	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.43	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.30	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.69	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.46	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.42	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.37	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.41	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.32	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.36	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.35	ug/l	

Method Blank Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VT10656-MB	T256273.D	1	05/11/22	ED	n/a	n/a	VT10656

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD44187-1

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	95%	80-128%
2037-26-5	Toluene-D8 (SUR)	96%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	96%	79-117%
1868-53-7	Dibromofluoromethane (S)	93%	84-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VT10653-BS	T256211.D	1	05/09/22	ED	n/a	n/a	VT10653

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD44187-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
107-02-8	Acrolein	20	17.8	89	60-140
107-13-1	Acrylonitrile	20	16.3	82	60-140
71-43-2	Benzene	20	18.6	93	65-135
75-27-4	Bromodichloromethane	20	18.5	93	65-135
75-25-2	Bromoform	20	19.9	100	70-130
74-83-9	Bromomethane	20	20.0	100	15-185
56-23-5	Carbon tetrachloride	20	17.5	88	70-130
108-90-7	Chlorobenzene	20	17.7	89	65-135
75-00-3	Chloroethane	20	22.6	113	40-160
110-75-8	2-Chloroethyl vinyl ether	100	98.4	98	10-257
67-66-3	Chloroform	20	16.7	84	70-135
74-87-3	Chloromethane	20	17.9	90	10-205
124-48-1	Dibromochloromethane	20	18.0	90	70-135
95-50-1	1,2-Dichlorobenzene	20	17.7	89	65-135
541-73-1	1,3-Dichlorobenzene	20	17.5	88	70-130
106-46-7	1,4-Dichlorobenzene	20	17.9	90	65-135
75-71-8	Dichlorodifluoromethane	20	15.8	79	42-146
75-34-3	1,1-Dichloroethane	20	19.2	96	70-130
107-06-2	1,2-Dichloroethane	20	18.9	95	70-130
75-35-4	1,1-Dichloroethene	20	15.2	76	50-150
156-59-2	cis-1,2-Dichloroethene	20	17.2	86	72-116
156-60-5	trans-1,2-Dichloroethene	20	18.5	93	70-130
78-87-5	1,2-Dichloropropane	20	21.1	106	35-165
10061-01-5	cis-1,3-Dichloropropene	20	20.1	101	25-175
10061-02-6	trans-1,3-Dichloropropene	20	18.7	94	50-150
100-41-4	Ethylbenzene	20	17.5	88	60-140
75-09-2	Methylene chloride	20	14.0	70	60-140
79-34-5	1,1,2,2-Tetrachloroethane	20	14.8	74	60-140
127-18-4	Tetrachloroethene	20	18.9	95	70-130
108-88-3	Toluene	20	17.0	85	74-111
71-55-6	1,1,1-Trichloroethane	20	16.8	84	73-120
79-00-5	1,1,2-Trichloroethane	20	16.8	84	74-117
79-01-6	Trichloroethene	20	18.7	94	74-113
75-69-4	Trichlorofluoromethane	20	17.6	88	50-150
75-01-4	Vinyl chloride	20	21.5	108	5-195
1330-20-7	Xylenes (total)	60	52.2	87	79-114

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VT10653-BS	T256211.D	1	05/09/22	ED	n/a	n/a	VT10653

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD44187-3

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	98%	80-128%
2037-26-5	Toluene-D8 (SUR)	91%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	97%	79-117%
1868-53-7	Dibromofluoromethane (S)	96%	84-121%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VT10656-BS	T256272.D	1	05/11/22	ED	n/a	n/a	VT10656

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD44187-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
107-02-8	Acrolein	20	25.1	126	60-140
107-13-1	Acrylonitrile	20	14.8	74	60-140
71-43-2	Benzene	20	17.8	89	65-135
75-27-4	Bromodichloromethane	20	17.2	86	65-135
75-25-2	Bromoform	20	19.5	98	70-130
74-83-9	Bromomethane	20	19.2	96	15-185
56-23-5	Carbon tetrachloride	20	16.4	82	70-130
108-90-7	Chlorobenzene	20	18.3	92	65-135
75-00-3	Chloroethane	20	20.6	103	40-160
110-75-8	2-Chloroethyl vinyl ether	100	86.8	87	10-257
67-66-3	Chloroform	20	15.2	76	70-135
74-87-3	Chloromethane	20	18.6	93	10-205
124-48-1	Dibromochloromethane	20	18.4	92	70-135
95-50-1	1,2-Dichlorobenzene	20	18.1	91	65-135
541-73-1	1,3-Dichlorobenzene	20	17.8	89	70-130
106-46-7	1,4-Dichlorobenzene	20	18.4	92	65-135
75-71-8	Dichlorodifluoromethane	20	14.0	70	42-146
75-34-3	1,1-Dichloroethane	20	17.7	89	70-130
107-06-2	1,2-Dichloroethane	20	17.6	88	70-130
75-35-4	1,1-Dichloroethene	20	14.9	75	50-150
156-59-2	cis-1,2-Dichloroethene	20	17.1	86	72-116
156-60-5	trans-1,2-Dichloroethene	20	17.6	88	70-130
78-87-5	1,2-Dichloropropane	20	20.0	100	35-165
10061-01-5	cis-1,3-Dichloropropene	20	18.7	94	25-175
10061-02-6	trans-1,3-Dichloropropene	20	18.9	95	50-150
100-41-4	Ethylbenzene	20	17.5	88	60-140
75-09-2	Methylene chloride	20	14.9	75	60-140
79-34-5	1,1,2,2-Tetrachloroethane	20	14.5	73	60-140
127-18-4	Tetrachloroethene	20	20.6	103	70-130
108-88-3	Toluene	20	17.2	86	74-111
71-55-6	1,1,1-Trichloroethane	20	15.5	78	73-120
79-00-5	1,1,2-Trichloroethane	20	16.7	84	74-117
79-01-6	Trichloroethene	20	17.8	89	74-113
75-69-4	Trichlorofluoromethane	20	16.3	82	50-150
75-01-4	Vinyl chloride	20	21.5	108	5-195
1330-20-7	Xylenes (total)	60	53.0	88	79-114

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VT10656-BS	T256272.D	1	05/11/22	ED	n/a	n/a	VT10656

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD44187-1

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	96%	80-128%
2037-26-5	Toluene-D8 (SUR)	96%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	96%	79-117%
1868-53-7	Dibromofluoromethane (S)	96%	84-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD44194-1MS	T256218.D	20	05/09/22	ED	n/a	n/a	VT10653
JD44194-1MSD	T256219.D	20	05/09/22	ED	n/a	n/a	VT10653
JD44194-1 [a]	T256217.D	20	05/09/22	ED	n/a	n/a	VT10653
JD44194-1	T256216.D	200	05/09/22	ED	n/a	n/a	VT10653

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD44187-3

CAS No.	Compound	JD44194-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
107-02-8	Acrolein	ND		400	260	65	400	267	67	3	40-160/60
107-13-1	Acrylonitrile	ND		400	331	83	400	321	80	3	40-160/60
71-43-2	Benzene	ND		400	373	93	400	368	92	1	37-151/61
75-27-4	Bromodichloromethane	42.8		400	402	90	400	405	91	1	35-155/56
75-25-2	Bromoform	ND		400	381	95	400	372	93	2	45-169/42
74-83-9	Bromomethane	ND		400	356	89	400	331	83	7	10-242/61
56-23-5	Carbon tetrachloride	1410		400	1500	23* [b]	400	1440	8* [b]	4	70-140/41
108-90-7	Chlorobenzene	ND		400	361	90	400	363	91	1	37-160/53
75-00-3	Chloroethane	ND		400	404	101	400	380	95	6	14-230/78
110-75-8	2-Chloroethyl vinyl ether	ND		2000	548	27	2000	430	22	24	10-305/71
67-66-3	Chloroform	8430 [c]		400	7550	-205* [b]	400	7260	-278* [b]	4	51-138/54
74-87-3	Chloromethane	ND		400	308	77	400	311	78	1	10-273/60
124-48-1	Dibromochloromethane	ND		400	361	90	400	349	87	3	53-149/50
95-50-1	1,2-Dichlorobenzene	22.4		400	370	87	400	367	86	1	18-190/57
541-73-1	1,3-Dichlorobenzene	ND		400	351	88	400	344	86	2	59-156/43
106-46-7	1,4-Dichlorobenzene	ND		400	358	90	400	356	89	1	18-190/57
75-71-8	Dichlorodifluoromethane	ND		400	275	69	400	269	67	2	22-172/22
75-34-3	1,1-Dichloroethane	15.8	J	400	414	100	400	404	97	2	59-155/40
107-06-2	1,2-Dichloroethane	25.2		400	404	95	400	401	94	1	49-155/59
75-35-4	1,1-Dichloroethene	ND		400	334	84	400	313	78	6	10-234/32
156-59-2	cis-1,2-Dichloroethene	45.1		400	406	90	400	384	85	6	38-146/17
156-60-5	trans-1,2-Dichloroethene	ND		400	395	99	400	377	94	5	54-156/45
78-87-5	1,2-Dichloropropane	ND		400	420	105	400	422	106	0	10-210/55
10061-01-5	cis-1,3-Dichloropropene	ND		400	382	96	400	390	98	2	10-227/58
10061-02-6	trans-1,3-Dichloropropene	ND		400	368	92	400	371	93	1	17-183/86
100-41-4	Ethylbenzene	ND		400	347	87	400	345	86	1	37-162/63
75-09-2	Methylene chloride	203		400	489	72	400	460	64	6	10-221/28
79-34-5	1,1,2,2-Tetrachloroethane	120		400	404	71	400	397	69	2	46-157/61
127-18-4	Tetrachloroethene	1270		400	1460	48* [b]	400	1430	40* [b]	2	64-148/39
108-88-3	Toluene	ND		400	343	86	400	336	84	2	42-140/16
71-55-6	1,1,1-Trichloroethane	ND		400	356	89	400	342	86	4	56-139/17
79-00-5	1,1,2-Trichloroethane	608		400	928	80	400	916	77	1	61-126/17
79-01-6	Trichloroethene	702		400	965	66	400	968	67	0	37-148/15
75-69-4	Trichlorofluoromethane	ND		400	313	78	400	303	76	3	17-181/84
75-01-4	Vinyl chloride	ND		400	372	93	400	369	92	1	10-251/66
1330-20-7	Xylenes (total)	ND		1200	1040	87	1200	1040	87	0	58-134/16

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD44194-1MS	T256218.D	20	05/09/22	ED	n/a	n/a	VT10653
JD44194-1MSD	T256219.D	20	05/09/22	ED	n/a	n/a	VT10653
JD44194-1 [a]	T256217.D	20	05/09/22	ED	n/a	n/a	VT10653
JD44194-1	T256216.D	200	05/09/22	ED	n/a	n/a	VT10653

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD44187-3

CAS No.	Surrogate Recoveries	MS	MSD	JD44194-1	JD44194-1	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	103%	101%	104%	103%	80-128%
2037-26-5	Toluene-D8 (SUR)	93%	92%	92%	91%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	95%	96%	97%	97%	79-117%
1868-53-7	Dibromofluoromethane (S)	102%	99%	104%	103%	84-121%

(a) Dilution required due to high concentration of target compound.
(b) Outside control limits due to high level in sample relative to spike amount.
(c) Result is from Run #2.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD44134-1MS	T256281.D	20	05/11/22	ED	n/a	n/a	VT10656
JD44134-1MSD	T256282.D	20	05/11/22	ED	n/a	n/a	VT10656
JD44134-1 [a]	T256280.D	20	05/11/22	ED	n/a	n/a	VT10656
JD44134-1	T256279.D	200	05/11/22	ED	n/a	n/a	VT10656

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD44187-1

CAS No.	Compound	JD44134-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
107-02-8	Acrolein	ND		400	242	61	400	251	63	4	40-160/60
107-13-1	Acrylonitrile	ND		400	275	69	400	279	70	1	40-160/60
71-43-2	Benzene	910		400	1050	35* [b]	400	1050	35* [b]	0	37-151/61
75-27-4	Bromodichloromethane	ND		400	331	83	400	335	84	1	35-155/56
75-25-2	Bromoform	ND		400	382	96	400	385	96	1	45-169/42
74-83-9	Bromomethane	ND		400	314	79	400	321	80	2	10-242/61
56-23-5	Carbon tetrachloride	ND		400	311	78	400	320	80	3	70-140/41
108-90-7	Chlorobenzene	5750 [c]		400	5270	-130* [b]	400	5230	-140* [b]	1	37-160/53
75-00-3	Chloroethane	ND		400	366	92	400	372	93	2	14-230/78
110-75-8	2-Chloroethyl vinyl ether	ND		2000	891	45	2000	689	34	26	10-305/71
67-66-3	Chloroform	ND		400	298	75	400	306	77	3	51-138/54
74-87-3	Chloromethane	ND		400	293	73	400	301	75	3	10-273/60
124-48-1	Dibromochloromethane	ND		400	362	91	400	360	90	1	53-149/50
95-50-1	1,2-Dichlorobenzene	91.4		400	440	87	400	444	88	1	18-190/57
541-73-1	1,3-Dichlorobenzene	16.1		400	366	87	400	370	88	1	59-156/43
106-46-7	1,4-Dichlorobenzene	452		400	755	76	400	752	75	0	18-190/57
75-71-8	Dichlorodifluoromethane	ND		400	227	57	400	240	60	6	22-172/22
75-34-3	1,1-Dichloroethane	ND		400	338	85	400	344	86	2	59-155/40
107-06-2	1,2-Dichloroethane	ND		400	351	88	400	351	88	0	49-155/59
75-35-4	1,1-Dichloroethene	ND		400	286	72	400	293	73	2	10-234/32
156-59-2	cis-1,2-Dichloroethene	ND		400	320	80	400	319	80	0	38-146/17
156-60-5	trans-1,2-Dichloroethene	ND		400	324	81	400	339	85	5	54-156/45
78-87-5	1,2-Dichloropropane	ND		400	375	94	400	385	96	3	10-210/55
10061-01-5	cis-1,3-Dichloropropene	ND		400	361	90	400	356	89	1	10-227/58
10061-02-6	trans-1,3-Dichloropropene	ND		400	366	92	400	365	91	0	17-183/86
100-41-4	Ethylbenzene	56.7		400	394	84	400	392	84	1	37-162/63
75-09-2	Methylene chloride	ND		400	272	68	400	276	69	1	10-221/28
79-34-5	1,1,2,2-Tetrachloroethane	ND		400	274	69	400	282	71	3	46-157/61
127-18-4	Tetrachloroethene	ND		400	383	96	400	383	96	0	64-148/39
108-88-3	Toluene	799		400	999	50	400	990	48	1	42-140/16
71-55-6	1,1,1-Trichloroethane	ND		400	298	75	400	304	76	2	56-139/17
79-00-5	1,1,2-Trichloroethane	ND		400	329	82	400	323	81	2	61-126/17
79-01-6	Trichloroethene	ND		400	345	86	400	338	85	2	37-148/15
75-69-4	Trichlorofluoromethane	ND		400	274	69	400	279	70	2	17-181/84
75-01-4	Vinyl chloride	ND		400	341	85	400	353	88	3	10-251/66
1330-20-7	Xylenes (total)	65.3		1200	1110	87	1200	1120	88	1	58-134/16

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD44134-1MS	T256281.D	20	05/11/22	ED	n/a	n/a	VT10656
JD44134-1MSD	T256282.D	20	05/11/22	ED	n/a	n/a	VT10656
JD44134-1 [a]	T256280.D	20	05/11/22	ED	n/a	n/a	VT10656
JD44134-1	T256279.D	200	05/11/22	ED	n/a	n/a	VT10656

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD44187-1

CAS No.	Surrogate Recoveries	MS	MSD	JD44134-1	JD44134-1	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	97%	97%	99%	98%	80-128%
2037-26-5	Toluene-D8 (SUR)	98%	97%	96%	96%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	94%	94%	95%	96%	79-117%
1868-53-7	Dibromofluoromethane (S)	95%	96%	98%	96%	84-121%

(a) Dilution required due to high concentration of target compound.
(b) Outside control limits due to high level in sample relative to spike amount.
(c) Result is from Run #2.

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: VT10615-BFB
Lab File ID: T255352.D
Instrument ID: GCMST
Injection Date: 03/15/22
Injection Time: 19:12

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	7696	17.8		Pass
75	30.0 - 60.0% of mass 95	20984	48.6		Pass
95	Base peak, 100% relative abundance	43162	100.0		Pass
96	5.0 - 9.0% of mass 95	2869	6.65		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	35712	82.7		Pass
175	5.0 - 9.0% of mass 174	2849	6.60	(7.98) [a]	Pass
176	95.0 - 101.0% of mass 174	34394	79.7	(96.3) [a]	Pass
177	5.0 - 9.0% of mass 176	2181	5.05	(6.34) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VT10615-IC10615	T255353.D	03/15/22	19:43	00:31	Initial cal 0.2
VT10615-IC10615	T255354.D	03/15/22	20:13	01:01	Initial cal 0.5
VT10615-IC10615	T255355.D	03/15/22	20:43	01:31	Initial cal 1
VT10615-IC10615	T255356.D	03/15/22	21:14	02:02	Initial cal 2
VT10615-IC10615	T255357.D	03/15/22	21:44	02:32	Initial cal 4
VT10615-IC10615	T255358.D	03/15/22	22:15	03:03	Initial cal 8
VT10615-ICC10615	T255359.D	03/15/22	22:45	03:33	Initial cal 20
VT10615-IC10615	T255360.D	03/15/22	23:16	04:04	Initial cal 50
VT10615-IC10615	T255361.D	03/15/22	23:46	04:34	Initial cal 100
VT10615-IC10615	T255362.D	03/16/22	00:16	05:04	Initial cal 200
VT10615-ICV10615	T255365.D	03/16/22	01:47	06:35	Initial cal verification 20
VT10615-ICV10615	T255366.D	03/16/22	02:18	07:06	Initial cal verification 20

Instrument Performance Check (BFB)

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: VT10615-BFB2
Lab File ID: T255369.D
Instrument ID: GCMST
Injection Date: 03/16/22
Injection Time: 09:41

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	6697	17.5		Pass
75	30.0 - 60.0% of mass 95	18679	48.8		Pass
95	Base peak, 100% relative abundance	38284	100.0		Pass
96	5.0 - 9.0% of mass 95	2453	6.41		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	31595	82.5		Pass
175	5.0 - 9.0% of mass 174	2470	6.45	(7.82) [a]	Pass
176	95.0 - 101.0% of mass 174	30123	78.7	(95.3) [a]	Pass
177	5.0 - 9.0% of mass 176	2012	5.26	(6.68) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VT10615-ICV10615	T255370.D	03/16/22	10:11	00:30	Initial cal verification 20

Instrument Performance Check (BFB)

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: VT10653-BFB
Lab File ID: T256210.D
Instrument ID: GCMST
Injection Date: 05/09/22
Injection Time: 08:15

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	11168	20.8		Pass
75	30.0 - 60.0% of mass 95	27483	51.1		Pass
95	Base peak, 100% relative abundance	53787	100.0		Pass
96	5.0 - 9.0% of mass 95	3519	6.54		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	48424	90.0		Pass
175	5.0 - 9.0% of mass 174	3694	6.87	(7.63) [a]	Pass
176	95.0 - 101.0% of mass 174	47397	88.1	(97.9) [a]	Pass
177	5.0 - 9.0% of mass 176	3267	6.07	(6.89) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VT10653-CC10615	T256211.D	05/09/22	08:46	00:31	Continuing cal 20
VT10653-BS	T256211.D	05/09/22	08:46	00:31	Blank Spike
VT10653-MB	T256212.D	05/09/22	09:32	01:17	Method Blank
ZZZZZZ	T256213.D	05/09/22	10:09	01:54	(unrelated sample)
ZZZZZZ	T256214.D	05/09/22	10:40	02:25	(unrelated sample)
JD44187-3	T256215.D	05/09/22	11:10	02:55	TB
JD44194-1	T256216.D	05/09/22	11:41	03:26	(used for QC only; not part of job JD44187)
JD44194-1	T256217.D	05/09/22	12:11	03:56	(used for QC only; not part of job JD44187)
JD44194-1MS	T256218.D	05/09/22	12:42	04:27	Matrix Spike
JD44194-1MSD	T256219.D	05/09/22	13:12	04:57	Matrix Spike Duplicate
ZZZZZZ	T256220.D	05/09/22	13:42	05:27	(unrelated sample)
ZZZZZZ	T256221.D	05/09/22	14:13	05:58	(unrelated sample)
ZZZZZZ	T256222.D	05/09/22	14:43	06:28	(unrelated sample)
ZZZZZZ	T256223.D	05/09/22	15:14	06:59	(unrelated sample)
ZZZZZZ	T256224.D	05/09/22	15:44	07:29	(unrelated sample)
ZZZZZZ	T256225.D	05/09/22	16:15	08:00	(unrelated sample)
ZZZZZZ	T256226.D	05/09/22	16:45	08:30	(unrelated sample)
ZZZZZZ	T256227.D	05/09/22	17:16	09:01	(unrelated sample)
ZZZZZZ	T256228.D	05/09/22	17:46	09:31	(unrelated sample)
ZZZZZZ	T256229.D	05/09/22	18:17	10:02	(unrelated sample)
ZZZZZZ	T256230.D	05/09/22	18:47	10:32	(unrelated sample)
ZZZZZZ	T256231.D	05/09/22	19:18	11:03	(unrelated sample)
ZZZZZZ	T256232.D	05/09/22	19:48	11:33	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample:	VT10656-BFB	**Injection Date:**	05/11/22
Lab File ID:	T256271.D	**Injection Time:**	11:32
Instrument ID:	GCMST		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	9775	19.3		Pass
75	30.0 - 60.0% of mass 95	23933	47.3		Pass
95	Base peak, 100% relative abundance	50592	100.0		Pass
96	5.0 - 9.0% of mass 95	3426	6.77		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	45277	89.5		Pass
175	5.0 - 9.0% of mass 174	3517	6.95	(7.77) [a]	Pass
176	95.0 - 101.0% of mass 174	44211	87.4	(97.6) [a]	Pass
177	5.0 - 9.0% of mass 176	3050	6.03	(6.90) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VT10656-BS	T256272.D	05/11/22	12:09	00:37	Blank Spike
VT10656-CC10615	T256272.D	05/11/22	12:09	00:37	Continuing cal 20
VT10656-MB	T256273.D	05/11/22	12:49	01:17	Method Blank
JD44187-1	T256274.D	05/11/22	13:26	01:54	GRAB 1 THRU 4-050222-BSA DISCHARGE
ZZZZZZ	T256275.D	05/11/22	13:57	02:25	(unrelated sample)
JD44134-1	T256279.D	05/11/22	15:59	04:27	(used for QC only; not part of job JD44187)
JD44134-1	T256280.D	05/11/22	16:30	04:58	(used for QC only; not part of job JD44187)
JD44134-1MS	T256281.D	05/11/22	17:01	05:29	Matrix Spike
JD44134-1MSD	T256282.D	05/11/22	17:32	06:00	Matrix Spike Duplicate
ZZZZZZ	T256284.D	05/11/22	18:33	07:01	(unrelated sample)
ZZZZZZ	T256285.D	05/11/22	19:04	07:32	(unrelated sample)
ZZZZZZ	T256286.D	05/11/22	19:34	08:02	(unrelated sample)
ZZZZZZ	T256287.D	05/11/22	20:05	08:33	(unrelated sample)
ZZZZZZ	T256288.D	05/11/22	20:35	09:03	(unrelated sample)
ZZZZZZ	T256289.D	05/11/22	21:06	09:34	(unrelated sample)
ZZZZZZ	T256290.D	05/11/22	21:36	10:04	(unrelated sample)
ZZZZZZ	T256291.D	05/11/22	22:07	10:35	(unrelated sample)
ZZZZZZ	T256292.D	05/11/22	22:37	11:05	(unrelated sample)
ZZZZZZ	T256293.D	05/11/22	23:08	11:36	(unrelated sample)

Surrogate Recovery Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Method: EPA 624.1 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JD44187-1	T256274.D	96	95	96	94
JD44187-3	T256215.D	100	92	95	102
JD44134-1MS	T256281.D	97	98	94	95
JD44134-1MSD	T256282.D	97	97	94	96
JD44194-1MS	T256218.D	103	93	95	102
JD44194-1MSD	T256219.D	101	92	96	99
VT10653-BS	T256211.D	98	91	97	96
VT10653-MB	T256212.D	98	93	97	94
VT10656-BS	T256272.D	96	96	96	96
VT10656-MB	T256273.D	95	96	96	93

Surrogate Compounds	Recovery Limits
S1 = 1,2-Dichloroethane-D4 (SUR)	80-128%
S2 = Toluene-D8 (SUR)	82-113%
S3 = 4-Bromofluorobenzene (SUR)	79-117%
S4 = Dibromofluoromethane (S)	84-121%

MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39544B-MB1	F206897.D	1	05/10/22	KLS	05/09/22	OP39544B	EF9105

The QC reported here applies to the following samples: **Method:** EPA 625.1

JD44187-1

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.82	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.89	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.4	ug/l	
51-28-5	2,4-Dinitrophenol	ND	10	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.0	1.3	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.96	ug/l	
100-02-7	4-Nitrophenol	ND	10	1.2	ug/l	
87-86-5	Pentachlorophenol	ND	5.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.92	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.19	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.14	ug/l	
120-12-7	Anthracene	ND	1.0	0.21	ug/l	
92-87-5	Benzidine	ND	10	0.90	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.21	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.21	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.34	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.21	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.40	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.46	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.24	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.34	ug/l	
218-01-9	Chrysene	ND	1.0	0.18	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.28	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.25	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	2.0	0.40	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.37	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.17	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.17	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.51	ug/l	

Method Blank Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39544B-MB1	F206897.D	1	05/10/22	KLS	05/09/22	OP39544B	EF9105

The QC reported here applies to the following samples: **Method:** EPA 625.1

JD44187-1

CAS No.	Compound	Result	RL	MDL	Units	Q
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.33	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.23	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.22	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	1.7	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.17	ug/l	
86-73-7	Fluorene	ND	1.0	0.17	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.8	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.39	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.33	ug/l	
78-59-1	Isophorone	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	1.0	0.23	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.64	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	2.0	0.82	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.18	ug/l	
129-00-0	Pyrene	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	41%	10-110%
4165-62-2	Phenol-d5	28%	10-110%
118-79-6	2,4,6-Tribromophenol	78%	35-147%
4165-60-0	Nitrobenzene-d5	76%	32-132%
321-60-8	2-Fluorobiphenyl	76%	40-117%
1718-51-0	Terphenyl-d14	83%	33-126%

Method Blank Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39544B-MB1	F206897.D	1	05/10/22	KLS	05/09/22	OP39544B	EF9105

The QC reported here applies to the following samples: **Method:**

JD44187-1

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Alkane	13.27	8.1	ug/l	J
	Alkane	14.04	14	ug/l	J
	Alkane	14.80	20	ug/l	J
	Alkane	15.53	17	ug/l	J
	Alkane	16.24	14	ug/l	J
	Alkane	16.93	9	ug/l	J
	Alkane	17.61	4.3	ug/l	J
	Total TIC, Semi-Volatile		86.4	ug/l	J

Method Blank Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39544B-MB1	3E117707.D	1	05/12/22	JY	05/09/22	OP39544B	E3E5405

The QC reported here applies to the following samples: **Method:** EPA 625.1

JD44187-1

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.82	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.89	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.4	ug/l	
51-28-5	2,4-Dinitrophenol	ND	10	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.0	1.3	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.96	ug/l	
100-02-7	4-Nitrophenol	ND	10	1.2	ug/l	
87-86-5	Pentachlorophenol	ND	5.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.92	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.19	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.14	ug/l	
120-12-7	Anthracene	ND	1.0	0.21	ug/l	
92-87-5	Benzidine	ND	10	0.90	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.21	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.21	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.34	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.21	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.40	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.46	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.24	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.34	ug/l	
218-01-9	Chrysene	ND	1.0	0.18	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.28	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.25	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	2.0	0.40	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.37	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.17	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.17	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.51	ug/l	

Method Blank Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39544B-MB1	3E117707.D	1	05/12/22	JY	05/09/22	OP39544B	E3E5405

The QC reported here applies to the following samples: **Method:** EPA 625.1

JD44187-1

CAS No.	Compound	Result	RL	MDL	Units	Q
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.33	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.23	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.22	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	1.7	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.17	ug/l	
86-73-7	Fluorene	ND	1.0	0.17	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.8	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.39	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.33	ug/l	
78-59-1	Isophorone	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	1.0	0.23	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.64	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	2.0	0.82	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.18	ug/l	
129-00-0	Pyrene	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	43%	10-110%
4165-62-2	Phenol-d5	28%	10-110%
118-79-6	2,4,6-Tribromophenol	76%	35-147%
4165-60-0	Nitrobenzene-d5	72%	32-132%
321-60-8	2-Fluorobiphenyl	77%	40-117%
1718-51-0	Terphenyl-d14	81%	33-126%

Method Blank Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39544B-MB1	3E117707.D	1	05/12/22	JY	05/09/22	OP39544B	E3E5405

The QC reported here applies to the following samples: **Method:**

JD44187-1

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	alkane	13.54	8.7	ug/l	J
	alkane	14.59	21	ug/l	J
	alkane	15.09	18	ug/l	J
	alkane	15.57	15	ug/l	J
	alkane	16.03	13	ug/l	J
	alkane	16.48	5.8	ug/l	J
	Total TIC, Semi-Volatile		81.5	ug/l	J

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39544B-BS1	F206898.D	1	05/10/22	KLS	05/09/22	OP39544B	EF9105
OP39544B-BSD	F206899.D	1	05/10/22	KLS	05/09/22	OP39544B	EF9105

The QC reported here applies to the following samples: **Method:** EPA 625.1

JD44187-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	50	34.4	69	35.6	71	3	43-100/22
59-50-7	4-Chloro-3-methyl phenol	50	41.2	82	40.6	81	1	46-110/21
120-83-2	2,4-Dichlorophenol	50	38.9	78	40.8	82	5	44-109/21
105-67-9	2,4-Dimethylphenol	50	26.1	52	34.7	69	28* [a]	42-116/20
51-28-5	2,4-Dinitrophenol	100	85.8	86	88.6	89	3	38-131/27
534-52-1	4,6-Dinitro-o-cresol	50	47.8	96	49.0	98	2	50-124/26
88-75-5	2-Nitrophenol	50	38.8	78	39.9	80	3	44-109/21
100-02-7	4-Nitrophenol	50	26.0	52	28.9	58	11	14-110/23
87-86-5	Pentachlorophenol	100	93.0	93	95.1	95	2	25-128/25
108-95-2	Phenol	50	18.9	38	19.4	39	3	20-110/22
88-06-2	2,4,6-Trichlorophenol	50	41.5	83	43.1	86	4	52-118/24
83-32-9	Acenaphthene	50	38.0	76	41.1	82	8	47-110/24
208-96-8	Acenaphthylene	50	28.1	56	30.4	61	8	45-110/24
120-12-7	Anthracene	50	43.6	87	44.4	89	2	52-110/24
92-87-5	Benzidine	50	ND	0* [a]	ND	0* [a]	nc	10-110/65
56-55-3	Benzo(a)anthracene	50	44.4	89	46.0	92	4	53-110/20
50-32-8	Benzo(a)pyrene	50	45.6	91	45.4	91	0	55-110/23
205-99-2	Benzo(b)fluoranthene	50	47.3	95	47.6	95	1	57-110/23
191-24-2	Benzo(g,h,i)perylene	50	47.7	95	47.2	94	1	51-110/23
207-08-9	Benzo(k)fluoranthene	50	45.3	91	45.8	92	1	56-110/22
101-55-3	4-Bromophenyl phenyl ether	50	42.6	85	44.5	89	4	51-112/23
85-68-7	Butyl benzyl phthalate	50	50.1	100	53.3	107	6	50-122/23
91-58-7	2-Chloronaphthalene	50	34.0	68	39.1	78	14	41-110/26
106-47-8	4-Chloroaniline	50	19.0	38	18.7	37	2	10-110/44
218-01-9	Chrysene	50	44.8	90	45.7	91	2	52-110/20
111-91-1	bis(2-Chloroethoxy)methane	50	39.0	78	40.4	81	4	36-110/21
111-44-4	bis(2-Chloroethyl)ether	50	37.2	74	37.8	76	2	40-111/21
108-60-1	2,2'-Oxybis(1-chloropropane)	50	35.6	71	35.5	71	0	37-110/25
7005-72-3	4-Chlorophenyl phenyl ether	50	40.6	81	43.0	86	6	48-110/25
95-50-1	1,2-Dichlorobenzene	50	27.0	54	30.1	60	11	35-110/28
122-66-7	1,2-Diphenylhydrazine	50	41.0	82	42.7	85	4	39-128/23
541-73-1	1,3-Dichlorobenzene	50	26.0	52	28.7	57	10	32-110/28
106-46-7	1,4-Dichlorobenzene	50	26.5	53	29.4	59	10	33-110/27
121-14-2	2,4-Dinitrotoluene	50	49.7	99	50.2	100	1	61-117/25
606-20-2	2,6-Dinitrotoluene	50	49.4	99	49.8	100	1	61-119/23
91-94-1	3,3'-Dichlorobenzidine	50	33.1	66	34.1	68	3	20-110/33

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP39544B-BS1	F206898.D	1	05/10/22	KLS	05/09/22	OP39544B	EF9105
OP39544B-BSD	F206899.D	1	05/10/22	KLS	05/09/22	OP39544B	EF9105

The QC reported here applies to the following samples: **Method:** EPA 625.1

JD44187-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
53-70-3	Dibenzo(a,h)anthracene	50	48.9	98	48.6	97	1	55-110/25
84-74-2	Di-n-butyl phthalate	50	46.3	93	47.2	94	2	55-118/25
117-84-0	Di-n-octyl phthalate	50	44.1	88	45.5	91	3	49-124/26
84-66-2	Diethyl phthalate	50	44.5	89	46.3	93	4	54-113/23
131-11-3	Dimethyl phthalate	50	43.6	87	44.8	90	3	56-110/23
117-81-7	bis(2-Ethylhexyl)phthalate	50	51.1	102	53.5	107	5	50-120/22
206-44-0	Fluoranthene	50	45.2	90	45.7	91	1	55-111/23
86-73-7	Fluorene	50	42.0	84	44.3	89	5	51-110/25
118-74-1	Hexachlorobenzene	50	44.5	89	45.0	90	1	47-116/23
87-68-3	Hexachlorobutadiene	50	25.2	50	29.4	59	15	24-110/34
77-47-4	Hexachlorocyclopentadiene	100	27.5	28	32.1	32	15	10-110/39
67-72-1	Hexachloroethane	50	24.0	48	26.8	54	11	28-110/34
193-39-5	Indeno(1,2,3-cd)pyrene	50	48.9	98	48.3	97	1	51-112/24
78-59-1	Isophorone	50	39.5	79	40.5	81	3	42-111/20
91-20-3	Naphthalene	50	31.2	62	35.3	71	12	34-110/25
98-95-3	Nitrobenzene	50	35.5	71	37.9	76	7	39-110/21
62-75-9	n-Nitrosodimethylamine	50	23.9	48	24.9	50	4	15-110/19
621-64-7	N-Nitroso-di-n-propylamine	50	38.8	78	38.7	77	0	33-117/21
86-30-6	N-Nitrosodiphenylamine	50	42.0	84	44.1	88	5	54-110/24
85-01-8	Phenanthrene	50	43.5	87	44.2	88	2	53-110/23
129-00-0	Pyrene	50	46.1	92	49.6	99	7	52-110/22
120-82-1	1,2,4-Trichlorobenzene	50	27.9	56	31.7	63	13	30-110/29

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	46%	48%	10-110%
4165-62-2	Phenol-d5	32%	33%	10-110%
118-79-6	2,4,6-Tribromophenol	91%	98%	35-147%
4165-60-0	Nitrobenzene-d5	78%	83%	32-132%
321-60-8	2-Fluorobiphenyl	78%	86%	40-117%
1718-51-0	Terphenyl-d14	97%	106%	33-126%

(a) Outside of in house control limits.

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: E3E5370-DFTPP
Lab File ID: 3E117165.D
Instrument ID: GCMS3E
Injection Date: 04/01/22
Injection Time: 17:27

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	86458	47.5		Pass
68	Less than 2.0% of mass 69	567	0.31	(0.63) [a]	Pass
69	Mass 69 relative abundance	89925	49.4		Pass
70	Less than 2.0% of mass 69	564	0.31	(0.63) [a]	Pass
127	40.0 - 60.0% of mass 198	104901	57.6		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	181976	100.0		Pass
199	5.0 - 9.0% of mass 198	12611	6.93		Pass
275	10.0 - 30.0% of mass 198	44912	24.7		Pass
365	1.0 - 100.0% of mass 198	5896	3.24		Pass
441	Present, but less than mass 443	16173	8.89	(84.1) [b]	Pass
442	40.0 - 100.0% of mass 198	99784	54.8		Pass
443	17.0 - 23.0% of mass 442	19236	10.6	(19.3) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3E5370-IC5370	3E117166.D	04/01/22	18:09	00:42	Initial cal 100
E3E5370-IC5370	3E117167.D	04/01/22	19:14	01:47	Initial cal 1
E3E5370-IC5370	3E117168.D	04/01/22	19:40	02:13	Initial cal 80
E3E5370-IC5370	3E117169.D	04/01/22	20:07	02:40	Initial cal 2
E3E5370-ICC5370	3E117170.D	04/01/22	20:33	03:06	Initial cal 50
E3E5370-IC5370	3E117171.D	04/01/22	21:00	03:33	Initial cal 5
E3E5370-IC5370	3E117172.D	04/01/22	21:26	03:59	Initial cal 25
E3E5370-IC5370	3E117173.D	04/01/22	21:53	04:26	Initial cal 10
E3E5370-ICV5370	3E117174.D	04/01/22	22:19	04:52	Initial cal verification 50
E3E5370-ICV5370	3E117175.D	04/01/22	22:46	05:19	Initial cal verification 50
E3E5370-ICV5370	3E117176.D	04/01/22	23:12	05:45	Initial cal verification 50
E3E5370-ICV5370	3E117177.D	04/01/22	23:39	06:12	Initial cal verification 50
E3E5370-ICV5370	3E117179.D	04/02/22	00:31	07:04	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: E3E5405-DFTPP
Lab File ID: 3E117702A.D
Instrument ID: GCMS3E
Injection Date: 05/12/22
Injection Time: 10:35

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	34694	30.2		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	41900	36.5		Pass
70	Less than 2.0% of mass 69	171	0.15	(0.41) [a]	Pass
127	40.0 - 60.0% of mass 198	59933	52.2		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	114856	100.0		Pass
199	5.0 - 9.0% of mass 198	7754	6.75		Pass
275	10.0 - 30.0% of mass 198	27989	24.4		Pass
365	1.0 - 100.0% of mass 198	3103	2.70		Pass
441	Present, but less than mass 443	10726	9.34	(82.9) [b]	Pass
442	40.0 - 100.0% of mass 198	71749	62.5		Pass
443	17.0 - 23.0% of mass 442	12945	11.3	(18.0) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3E5405-CC5370	3E117703.D	05/12/22	10:48	00:13	Continuing cal 50
E3E5405-CC5375	3E117704.D	05/12/22	11:14	00:39	Continuing cal 50
OP39569-MB1	3E117705.D	05/12/22	11:41	01:06	Method Blank
E3E5405-CC5370	3E117706.D	05/12/22	12:06	01:31	Continuing cal 5
OP39544B-MB1	3E117707.D	05/12/22	12:35	02:00	Method Blank
OP39569-BS1	3E117708.D	05/12/22	13:01	02:26	Blank Spike
ZZZZZZ	3E117709.D	05/12/22	13:26	02:51	(unrelated sample)
JD44356-1	3E117710.D	05/12/22	13:52	03:17	(used for QC only; not part of job JD44187)
ZZZZZZ	3E117711.D	05/12/22	14:18	03:43	(unrelated sample)
ZZZZZZ	3E117712.D	05/12/22	14:44	04:09	(unrelated sample)
ZZZZZZ	3E117713.D	05/12/22	15:10	04:35	(unrelated sample)
ZZZZZZ	3E117714.D	05/12/22	15:36	05:01	(unrelated sample)
OP39569-MS	3E117715.D	05/12/22	16:02	05:27	Matrix Spike
OP39569-MSD	3E117716.D	05/12/22	16:28	05:53	Matrix Spike Duplicate
ZZZZZZ	3E117717.D	05/12/22	16:54	06:19	(unrelated sample)
ZZZZZZ	3E117718.D	05/12/22	17:30	06:55	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: EF9081-DFTPP
Lab File ID: F206496.D
Instrument ID: GCMSF
Injection Date: 04/22/22
Injection Time: 09:41

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	34288	38.4		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	42314	47.4		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	41437	46.4		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	89330	100.0		Pass
199	5.0 - 9.0% of mass 198	5805	6.50		Pass
275	10.0 - 30.0% of mass 198	26189	29.3		Pass
365	1.0 - 100.0% of mass 198	3296	3.69		Pass
441	Present, but less than mass 443	11713	13.1	(84.8) [b]	Pass
442	40.0 - 100.0% of mass 198	70298	78.7		Pass
443	17.0 - 23.0% of mass 442	13817	15.5	(19.7) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EF9081-IC9081	F206497.D	04/22/22	09:58	00:17	Initial cal 100
EF9081-IC9081	F206498.D	04/22/22	10:22	00:41	Initial cal 1
EF9081-IC9081	F206499.D	04/22/22	10:53	01:12	Initial cal 80
EF9081-IC9081	F206500.D	04/22/22	11:18	01:37	Initial cal 2
EF9081-ICC9081	F206501.D	04/22/22	11:43	02:02	Initial cal 50
EF9081-IC9081	F206502.D	04/22/22	12:08	02:27	Initial cal 5
EF9081-IC9081	F206503.D	04/22/22	12:33	02:52	Initial cal 25
EF9081-IC9081	F206504.D	04/22/22	12:57	03:16	Initial cal 10
EF9081-ICV9081	F206505.D	04/22/22	14:00	04:19	Initial cal verification 50
EF9081-ICV9081	F206506.D	04/22/22	14:25	04:44	Initial cal verification 50
EF9081-ICV9081	F206507.D	04/22/22	14:49	05:08	Initial cal verification 50
EF9081-ICV9081	F206508.D	04/22/22	15:14	05:33	Initial cal verification 50
EF9081-ICV9081	F206509.D	04/22/22	15:39	05:58	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: EF9082-DFTPP
Lab File ID: F206510.D
Instrument ID: GCMSF
Injection Date: 04/22/22
Injection Time: 16:59

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	36202	39.2		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	44722	48.5		Pass
70	Less than 2.0% of mass 69	206	0.22	(0.46) [a]	Pass
127	40.0 - 60.0% of mass 198	43376	47.0		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	92250	100.0		Pass
199	5.0 - 9.0% of mass 198	6319	6.85		Pass
275	10.0 - 30.0% of mass 198	26483	28.7		Pass
365	1.0 - 100.0% of mass 198	3164	3.43		Pass
441	Present, but less than mass 443	11301	12.3	(88.0) [b]	Pass
442	40.0 - 100.0% of mass 198	70066	76.0		Pass
443	17.0 - 23.0% of mass 442	12835	13.9	(18.3) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EF9082-IC9082	F206511.D	04/22/22	17:26	00:27	Initial cal 100
EF9082-IC9082	F206512.D	04/22/22	17:51	00:52	Initial cal 80
EF9082-ICC9082	F206513.D	04/22/22	18:15	01:16	Initial cal 50
EF9082-IC9082	F206514.D	04/22/22	18:40	01:41	Initial cal 25
EF9082-IC9082	F206515.D	04/22/22	19:05	02:06	Initial cal 10
EF9082-IC9082	F206516.D	04/22/22	19:29	02:30	Initial cal 5
EF9082-IC9082	F206517.D	04/22/22	19:54	02:55	Initial cal 2
EF9082-IC9082	F206518.D	04/22/22	20:19	03:20	Initial cal 1
EF9082-ICV9082	F206519.D	04/22/22	20:43	03:44	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: EF9083-DFTPP
Lab File ID: F206520.D
Instrument ID: GCMSF
Injection Date: 04/22/22
Injection Time: 21:06

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	36287	40.5		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	42240	47.1		Pass
70	Less than 2.0% of mass 69	61	0.07	(0.14) [a]	Pass
127	40.0 - 60.0% of mass 198	41882	46.7		Pass
197	Less than 1.0% of mass 198	335	0.37		Pass
198	Base peak, 100% relative abundance	89629	100.0		Pass
199	5.0 - 9.0% of mass 198	6697	7.47		Pass
275	10.0 - 30.0% of mass 198	24786	27.7		Pass
365	1.0 - 100.0% of mass 198	3013	3.36		Pass
441	Present, but less than mass 443	10181	11.4	(85.9) [b]	Pass
442	40.0 - 100.0% of mass 198	66242	73.9		Pass
443	17.0 - 23.0% of mass 442	11857	13.2	(17.9) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EF9083-IC9083	F206521.D	04/22/22	21:16	00:10	Initial cal 100
EF9083-IC9083	F206522.D	04/22/22	21:45	00:39	Initial cal 80
EF9083-ICC9083	F206523.D	04/22/22	22:10	01:04	Initial cal 50
EF9083-IC9083	F206524.D	04/22/22	22:34	01:28	Initial cal 25
EF9083-IC9083	F206525.D	04/22/22	22:59	01:53	Initial cal 10
EF9083-IC9083	F206526.D	04/22/22	23:23	02:17	Initial cal 5
EF9083-IC9083	F206527.D	04/22/22	23:55	02:49	Initial cal 2
EF9083-IC9083	F206528.D	04/23/22	00:19	03:13	Initial cal 1
EF9083-ICV9083	F206529.D	04/23/22	00:44	03:38	Initial cal verification 50
EF9083-ICV9083	F206530.D	04/23/22	01:33	04:27	Initial cal verification 50
EF9083-ICV9083	F206531.D	04/23/22	01:57	04:51	Initial cal verification 50
EF9083-ICV9083	F206532.D	04/23/22	02:22	05:16	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: EF9084-DFTPP
Lab File ID: F206534.D
Instrument ID: GCMSF
Injection Date: 04/23/22
Injection Time: 03:09

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	36490	39.4		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	45490	49.1		Pass
70	Less than 2.0% of mass 69	218	0.24	(0.48) [a]	Pass
127	40.0 - 60.0% of mass 198	43341	46.8		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	92690	100.0		Pass
199	5.0 - 9.0% of mass 198	6450	6.96		Pass
275	10.0 - 30.0% of mass 198	27360	29.5		Pass
365	1.0 - 100.0% of mass 198	3038	3.28		Pass
441	Present, but less than mass 443	10740	11.6	(79.1) [b]	Pass
442	40.0 - 100.0% of mass 198	70616	76.2		Pass
443	17.0 - 23.0% of mass 442	13578	14.6	(19.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EF9084-IC9084	F206535.D	04/23/22	03:19	00:10	Initial cal 100
EF9084-IC9084	F206536.D	04/23/22	03:44	00:35	Initial cal 80
EF9084-ICC9084	F206537.D	04/23/22	04:08	00:59	Initial cal 50
EF9084-IC9084	F206538.D	04/23/22	04:33	01:24	Initial cal 25
EF9084-IC9084	F206539.D	04/23/22	04:57	01:48	Initial cal 10
EF9084-IC9084	F206540.D	04/23/22	05:22	02:13	Initial cal 5
EF9084-IC9084	F206541.D	04/23/22	05:46	02:37	Initial cal 2
EF9084-IC9084	F206542.D	04/23/22	06:11	03:02	Initial cal 1
EF9084-ICV9084	F206543.D	04/23/22	06:35	03:26	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: EF9105-DFTPP
Lab File ID: F206890.D
Instrument ID: GCMSF
Injection Date: 05/10/22
Injection Time: 12:09

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	42300	37.9		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	52923	47.5		Pass
70	Less than 2.0% of mass 69	167	0.15	(0.32) [a]	Pass
127	40.0 - 60.0% of mass 198	51413	46.1		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	111515	100.0		Pass
199	5.0 - 9.0% of mass 198	7878	7.06		Pass
275	10.0 - 30.0% of mass 198	32835	29.4		Pass
365	1.0 - 100.0% of mass 198	4155	3.73		Pass
441	Present, but less than mass 443	13558	12.2	(75.2) [b]	Pass
442	40.0 - 100.0% of mass 198	91797	82.3		Pass
443	17.0 - 23.0% of mass 442	18021	16.2	(19.6) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EF9105-CC9081	F206891.D	05/10/22	12:24	00:15	Continuing cal 25
EF9105-CC9082	F206892.D	05/10/22	12:49	00:40	Continuing cal 25
EF9105-CC9083	F206893.D	05/10/22	13:14	01:05	Continuing cal 25
EF9105-CC9084	F206894.D	05/10/22	13:38	01:29	Continuing cal 25
EF9105-CC9081	F206896.D	05/10/22	14:41	02:32	Continuing cal 5
OP39544B-MB1	F206897.D	05/10/22	15:07	02:58	Method Blank
OP39544-MB1	F206897.D	05/10/22	15:07	02:58	Method Blank
OP39544-BS1	F206898.D	05/10/22	15:31	03:22	Blank Spike
OP39544B-BS1	F206898.D	05/10/22	15:31	03:22	Blank Spike
OP39544-BSD	F206899.D	05/10/22	15:56	03:47	Blank Spike Duplicate
OP39544B-BSD	F206899.D	05/10/22	15:56	03:47	Blank Spike Duplicate
OP39544-BS13	F206900.D	05/10/22	16:21	04:12	Blank Spike
JD44187-1	F206901.D	05/10/22	16:45	04:36	GRAB 1 THRU 4-050222-BSA DISCHARGE
ZZZZZZ	F206902.D	05/10/22	17:10	05:01	(unrelated sample)
ZZZZZZ	F206903.D	05/10/22	17:35	05:26	(unrelated sample)
ZZZZZZ	F206906.D	05/10/22	18:49	06:40	(unrelated sample)
ZZZZZZ	F206907.D	05/10/22	19:14	07:05	(unrelated sample)
ZZZZZZ	F206908.D	05/10/22	19:39	07:30	(unrelated sample)
ZZZZZZ	F206909.D	05/10/22	20:03	07:54	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample:	EF9105-DFTPP	**Injection Date:**	05/10/22
Lab File ID:	F206890.D	**Injection Time:**	12:09
Instrument ID:	GCMSF		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	F206910.D	05/10/22	20:28	08:19	(unrelated sample)
ZZZZZZ	F206911.D	05/10/22	20:53	08:44	(unrelated sample)
ZZZZZZ	F206912.D	05/10/22	21:17	09:08	(unrelated sample)
ZZZZZZ	F206913.D	05/10/22	21:42	09:33	(unrelated sample)
ZZZZZZ	F206914.D	05/10/22	22:07	09:58	(unrelated sample)
ZZZZZZ	F206915.D	05/10/22	22:31	10:22	(unrelated sample)
ZZZZZZ	F206916.D	05/10/22	22:56	10:47	(unrelated sample)
ZZZZZZ	F206917.D	05/10/22	23:21	11:12	(unrelated sample)
ZZZZZZ	F206918.D	05/10/22	23:45	11:36	(unrelated sample)

Surrogate Recovery Summary

Job Number: JD44187
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Method: EPA 625.1 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JD44187-1	F206901.D	35	24	86	75	72	38
OP39544B-BS1	F206898.D	46	32	91	78	78	97
OP39544B-BSD	F206899.D	48	33	98	83	86	106
OP39544B-MB1	F206897.D	41	28	78	76	76	83
OP39544B-MB1	3E117707.D	43	28	76	72	77	81

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	10-110%
S2 = Phenol-d5	10-110%
S3 = 2,4,6-Tribromophenol	35-147%
S4 = Nitrobenzene-d5	32-132%
S5 = 2-Fluorobiphenyl	40-117%
S6 = Terphenyl-d14	33-126%

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD44187
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP32697
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 05/09/22

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	16	77		
Antimony	6.0	2.5	4.1		
Arsenic	3.0	2	2.5		
Barium	200	.4	17		
Beryllium	1.0	.1	.5		
Bismuth	20	3.6	4.8		
Boron	100	1.9	85		
Cadmium	3.0	.4	1.2		
Calcium	5000	5.6	130		
Cerium	100				
Chromium	10	.5	1.5		
Cobalt	50	.5	2.5		
Copper	10	1	4.1	2.4	<10
Iron	100	11	30		
Lead	3.0	1.2	2.4		
Lithium	50	2.3	9.1		
Magnesium	5000	65	200		
Manganese	15	.2	2		
Molybdenum	20	.4	4.5		
Nickel	10	.3	1.8		
Phosphorus	50	4.1	14		
Potassium	10000	55	200		
Selenium	10	3.5	5.5		
Silicon	200	1.6	130		
Silver	10	1.1	2.4		
Sodium	10000	11	900		
Strontium	10	.1	1.6		
Sulfur	50	4.4	18		
Thallium	10	2.5	1.9		
Tin	50	1	4.7		
Titanium	10	.4	1.9		
Tungsten	50	2.8	19		
Vanadium	50	.6	2.3		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD44187
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP32697
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 05/09/22

Metal	RL	IDL	MDL	MB raw	final
Zinc	20	.1	8.5	2.1	<20
Zirconium	10	.4	4.9		

Associated samples MP32697: JD44187-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD44187
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP32697
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 05/09/22

Metal	JD44214-1 Original MS		Spikelot MP200.7A	% Rec	QC Limits
Aluminum	anr				
Antimony	anr				
Arsenic	anr				
Barium	anr				
Beryllium	anr				
Bismuth					
Boron					
Cadmium	anr				
Calcium					
Cerium					
Chromium	anr				
Cobalt					
Copper	13.2	2150	2000	106.6	70-130
Iron	anr				
Lead	anr				
Lithium					
Magnesium					
Manganese	anr				
Molybdenum					
Nickel	anr				
Phosphorus					
Potassium	anr				
Selenium	anr				
Silicon	anr				
Silver	anr				
Sodium	anr				
Strontium					
Sulfur					
Thallium	anr				
Tin					
Titanium					
Tungsten					
Vanadium					

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD44187
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP32697
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 05/09/22

Metal	JD44214-1 Original	MS	Spikelot MP200.7A	% Rec	QC Limits
Zinc	87.8	2180	2000	104.6	70-130
Zirconium					

Associated samples MP32697: JD44187-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD44187
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP32697 Methods: EPA 200.7
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 05/09/22

Metal	JD44214-1 Original	MSD	Spikelot MP200.7A	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Bismuth						
Boron						
Cadmium	anr					
Calcium						
Cerium						
Chromium	anr					
Cobalt						
Copper	13.2	2120	2000	105.1	1.4	10
Iron	anr					
Lead	anr					
Lithium						
Magnesium						
Manganese	anr					
Molybdenum						
Nickel	anr					
Phosphorus						
Potassium	anr					
Selenium	anr					
Silicon	anr					
Silver	anr					
Sodium	anr					
Strontium						
Sulfur						
Thallium	anr					
Tin						
Titanium						
Tungsten						
Vanadium						

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD44187
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP32697 Methods: EPA 200.7
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 05/09/22

Metal	JD44214-1 Original	MSD	Spikelot MP200.7A	% Rec	MSD RPD	QC Limit
Zinc	87.8	2170	2000	104.1	0.5	10
Zirconium						

Associated samples MP32697: JD44187-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD44187
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP32697
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 05/09/22

Metal	BSP Result	Spikelot MP200.7A	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Bismuth				
Boron				
Cadmium	anr			
Calcium				
Cerium				
Chromium	anr			
Cobalt				
Copper	2120	2000	106.0	85-115
Iron	anr			
Lead	anr			
Lithium				
Magnesium				
Manganese	anr			
Molybdenum				
Nickel	anr			
Phosphorus				
Potassium	anr			
Selenium	anr			
Silicon	anr			
Silver	anr			
Sodium	anr			
Strontium				
Sulfur				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium				

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD44187
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP32697
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 05/09/22

Metal	BSP Result	Spikelot MP200.7A	% Rec	QC Limits
Zinc	2100	2000	105.0	85-115
Zirconium				

Associated samples MP32697: JD44187-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD44187
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP32697
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 05/09/22

Metal	JD44214-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Bismuth				
Boron				
Cadmium	anr			
Calcium				
Cerium				
Chromium	anr			
Cobalt				
Copper	13.2	25.1	41.8 (a)	0-10
Iron	anr			
Lead	anr			
Lithium				
Magnesium				
Manganese	anr			
Molybdenum				
Nickel	anr			
Phosphorus				
Potassium	anr			
Selenium	anr			
Silicon	anr			
Silver	anr			
Sodium	anr			
Strontium				
Sulfur				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium				

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD44187
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP32697 Methods: EPA 200.7
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 05/09/22

Metal	JD44214-1 Original	SDL 1:5	%DIF	QC Limits
Zinc	87.8	103	17.1*(b)	0-10
Zirconium				

Associated samples MP32697: JD44187-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial dilution indicates possible matrix interference.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD44187
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP32929 Methods: EPA 245.1
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 05/18/22

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.034	.092	-0.059	<0.20

Associated samples MP32929: JD44187-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD44187
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP32929 Methods: EPA 245.1
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 05/18/22

Metal	JD44542-2 Original	MS	Spikelot HGPW3	% Rec	QC Limits
Mercury	0.0	2.0	2	100.0	70-130

Associated samples MP32929: JD44187-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD44187
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP32929 Methods: EPA 245.1
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 05/18/22

Metal	JD44542-2 Original	MSD	Spikelot HGPW3	% Rec	MSD RPD	QC Limit
Mercury	0.0	2.0	2	100.0	0.0	19

Associated samples MP32929: JD44187-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD44187
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP32929
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 05/18/22 05/18/22

Metal	BSP Result	Spikelot HGPW3	% Rec	QC Limits	BSD Result	Spikelot HGPW3	% Rec	BSD RPD	QC Limit
Mercury	2.0	2	100.0	85-115	2.0	2	100.0	0.0	

Associated samples MP32929: JD44187-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD44187
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Phosphorus, Total	GP39981/GN29056	0.050	0.0	mg/l	0.4	0.39	97.5	80-120%
Solids, Total Suspended	GN28883	4.0	0.0	mg/l				

Associated Samples:
Batch GN28883: JD44187-2
Batch GP39981: JD44187-2
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD44187
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Phosphorus, Total	GP39981/GN29056	JD44214-1	mg/l	0.11	0.12	8.7	0-38%
Solids, Total Suspended	GN28883	JD44307-1	mg/l	2.0	2.0	0.0	0-17%

Associated Samples:
Batch GN28883: JD44187-2
Batch GP39981: JD44187-2
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD44187
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Phosphorus, Total	GP39981/GN29056	JD44214-1	mg/l	0.11	0.4	0.45	85.0	35-137%

Associated Samples:
Batch GP39981: JD44187-2
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Laboratory Analytical Report for May 27, 2022, Resampling for Mercury

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Honeywell International Inc. OMM work

HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

30130 PO#A000804776

SGS Job Number: JD45762

Sampling Date: 05/27/22

Report to:

Wood Environment & Infrastructure Soln.
511 Congress Street
Portland, ME 04112
HTS-RES-LAB@Honeywell.com; Ryan.Belcher@amecfw.com

ATTN: Ryan Belcher

Total number of pages in report: **16**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Kristin Degraw 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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Test results relate only to samples analyzed.

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EHS.US.CustomerCare@sgs.com

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SGS North America Inc.

Sample Summary

Honeywell International Inc. OMM work

Job No: JD45762

HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Project No: 30130 PO#A000804776

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD45762-1	05/27/22	15:35	BH	05/28/22	AQ	Ground Water	COMP-052722-BSA DISCHARGE

This report contains results reported as ND = Not detected. The following applies:
Metals ND = Not detected above the MDL

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Honeywell International Inc. OMM work	**Job No**	JD45762
Site:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY	**Report Date**	6/3/2022 8:43:13 AM

On 05/28/2022, 1 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 1.6 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD45762 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

Metals Analysis By Method EPA 245.1

Matrix: AQ **Batch ID:** MP33239

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD45123-1MS, JD45123-1MSD were used as the QC samples for metals.

Field Data By Method SM2510 B-11

Matrix: AQ **Batch ID:** R197550

- The data for SM2510 B-11 meets quality control requirements.
- JD45762-1 for Specific Conductivity (Field): Field Data was not determined by SGS under NELAP accreditation, it is being reported at client's request and may not be suitable for compliance purposes.

Field Data By Method SM4500H+ B-11

Matrix: AQ **Batch ID:** R197550

- The data for SM4500H+ B-11 meets quality control requirements.
- JD45762-1 for pH (Field): Field Data was not determined by SGS under NELAP accreditation, it is being reported at client's request and may not be suitable for compliance purposes. Temp of pH Reading: 19.3 Deg. C

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD45762
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 05/27/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD45762-1	**COMP-052722-BSA DISCHARGE**					
Mercury		0.27 J	0.60	0.27	ug/l	EPA 245.1
Specific Conductivity (Field) [a]		2580	0.50	0.50	umhos/cm	SM2510 B-11
pH (Field) [b]		7.23			su	SM4500H+ B-11

(a) Field Data was not determined by SGS under NELAP accreditation, it is being reported at client's request and may not be suitable for compliance purposes.
(b) Field Data was not determined by SGS under NELAP accreditation, it is being reported at client's request and may not be suitable for compliance purposes. Temp of pH Reading: 19.3 Deg. C

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	COMP-052722-BSA DISCHARGE		
Lab Sample ID:	JD45762-1	**Date Sampled:**	05/27/22
Matrix:	AQ - Ground Water	**Date Received:**	05/28/22
		Percent Solids:	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Mercury	0.27 J	0.60	0.27	ug/l	1	06/02/22	06/02/22	LM	EPA 245.1 [1]	EPA 245.1 [2]

(1) Instrument QC Batch: MA52500
(2) Prep QC Batch: MP33239

RL = Reporting Limit
MDL = Method Detection Limit

ND = Not detected
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	COMP-052722-BSA DISCHARGE		
Lab Sample ID:	JD45762-1	**Date Sampled:**	05/27/22
Matrix:	AQ - Ground Water	**Date Received:**	05/28/22
		Percent Solids:	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Field Parameters							
Specific Conductivity (Field) [a]	2580	0.50	umhos/cm	1	05/27/22 15:35	SUB	SM2510 B-11
pH (Field) [b]	7.23		su	1	05/27/22 15:35	SUB	SM4500H+ B-11

(a) Field Data was not determined by SGS under NELAP accreditation, it is being reported at client's request and may not be suitable for compliance purposes.
(b) Field Data was not determined by SGS under NELAP accreditation, it is being reported at client's request and may not be suitable for compliance purposes. Temp of pH Reading: 19.3 Deg. C

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

JD45762

SGS Laboratories
2235 Route 130
Dayton, NJ 08810
(p) 732-239-0200

Chain Of Custody/Analysis Request
Project Name: Buffalo Alltift Landfill - Semi-Annual
Lab Project Name: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

AESI Ref: 38609.59845
COC #: 38238527-AESR
Lab Use Only
Lab_SDG
Lab ID

Privileged & Confidential
E-Mail To: Ryan Belcher (ryan.belcher@woodplc.com)
Facility Name: Alltift Landfill
Location of Site: Buffalo, New York
Site Code: 30130

Client Contact: (name, co., address)
Sasa Jazic
Honeywell International
301 Plainfield Road, Suite 330
Syracuse, New York 13212
Hardcopy Report To: Do Not Send Hardcopy Unless Requested
Invoice To:

Sampler:
Sampling Company: Jacobs
PO #: A900804776
Analysis Turnaround Time:
Standard - N
Rush Charges Authorized for - Y
Turn Around Time Required - NEXT DAY RUSH

Job No.
Coolers: 1

Sample Identification				Sample Date	Sample Time	Matrix Code	Medium Code	Sample Type	# of Cont.	Composite (Y/N)	Filter Type (Y=Filtered, N=Not filtered)	Preservative: 1	0	2	2	3	0	0	Lab Sample Numbers
Sys_Loc_Code	Start Depth (ft)	End Depth (ft)	Sys_Sample_Code						Units										
1 N/A	---	---	COMP-052722-BSA Discharge	05/27/2022	1535	GW	WATER	REG	2	N	N			1			1		
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Preservatives: 0 = None; 1 = HCL; 2 = HNO3; 3 = H2SO4; 4 = NaOH; 5 = Zn. Acetate; 6 = MeOH; 7 = NaHSO4; 8 = Other (specify):
Vol. Pres. - 8260 VOA; 625 PPL - SVOC-ABN/PPL; Total Hg - EPA 245.1; Metals (Cu, Zn) - EPA 200.7; TPH - EPA 1663; pH - SM20 4500H; TSS - 2540 C

Special Instructions:	Sample Location	pH Range	pH	Max Temp (°C)	Temp (°C)	Flow	Cond. (mS/cm)	Other
			7.23		19.3		2.55	

Notes: For COC questions, contact --
Benjamin Hendry
benjamin.hendry@jacobs.com
315-806-4029

Relinquished by	Company	Received by	Company	Condition	Custody Seals Intact
	Jacobs	FEDEX			
Date/Time	05-27-22/1700		Date/Time	Cooler Temp.	
Relinquished by	Company	Received by	Company	Condition	Custody Seals Intact
Date/Time 5/28/22 0915			Date/Time	Cooler Temp.	1.9°C EP +R-4D

Initial Assessment RS 2B
Label Verification

5.1 5

AJ 5/9

SGS Sample Receipt Summary

Job Number: JD45762 **Client:** _____ **Project:** _____

Date / Time Received: 5/28/2022 9:15:00 AM **Delivery Method:** _____ **Airbill #'s:** _____

Cooler Temps (Raw Measured) °C: Cooler 1: (1.9);

Cooler Temps (Corrected) °C: Cooler 1: (1.6);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify) _____ _____

Comments

SM089-03
Rev. Date 12/7/17

Metals Analysis

6

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD45762
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP33239 Methods: EPA 245.1
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 06/02/22

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.034	.092	0.071	<0.20

Associated samples MP33239: JD45762-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD45762
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP33239 Methods: EPA 245.1
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 06/02/22

Metal	JD45123-1 Original	MS	Spikelot HGPW3	% Rec	QC Limits
Mercury	0.097	2.1	2	100.2	70-130

Associated samples MP33239: JD45762-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD45762
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP33239 Methods: EPA 245.1
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 06/02/22

Metal	JD45123-1 Original	MSD	Spikelot HGPW3	% Rec	MSD RPD	QC Limit
Mercury	0.097	2.1	2	100.2	0.0	19

Associated samples MP33239: JD45762-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD45762
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP33239
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 06/02/22

Metal	BSP Result	Spikelot HGPW3	% Rec	QC Limits
Mercury	2.1	2	105.0	85-115

Associated samples MP33239: JD45762-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BUFFALO
SEWER AUTHORITY

ADMINISTRATIVE OFFICES
1038 CITY HALL
65 NIAGARA SQUARE
BUFFALO, NY 14202-3378
PHONE: (716) 851-4664
FAX: (716) 856-5810

WASTEWATER TREATMENT PLANT
FOOT OF WEST FERRY
90 WEST FERRY STREET
BUFFALO, NY 14213-1799
PHONE: (716) 851-4664
FAX: (716) 883-3789

July 12, 2022

Sasa Jazic
Remediation Manager
Honeywell International Inc.
14 Columbia Circle, Suite 103
Albany, New York 12203

RE: Honeywell International Inc.
Notice of Violation – Significant Noncompliance

Dear Mr. Jazic:

The Buffalo Sewer Authority (BSA) has received and reviewed your June 2022 semi-annual, self-monitoring report (SMR), submitted in accordance with your BPDES Permit #21-12-BU098 issued for the company's Alltift Landfill/Ramco Steel Remediation Sites.

In your report, you stated a violation for Mercury as follows:

1. Mercury of 0.0015 mg/L on May 2, 2022 (daily permit limit is 0.0008 mg/L).

At the time of the violation, you followed all required steps of informing the BSA of the violation, investigating the cause of the violation and the corrective actions taken to prevent the violation from occurring again. A summary of your actions are as follows:

Honeywell International Inc. (Honeywell) contacted the BSA on May 24, 2022 and informed the BSA of the violation. At that time, Honeywell also informed the BSA they already started the investigation into the violation, scheduled resampling for May 27th, and would submit the resampling report promptly.

Honeywell's resampling of Mercury was conducted on May 27, 2022. The results were submitted to the BSA on June 3, 2022 and showed a Mercury concentration of 0.00027 mg/L evidencing these results to be in compliance with the company's discharge permit limit for this pollutant. The BSA received Honeywell's final June SMR on June 9, 2022. This report included both the original and resampling results. The report also included a letter presenting results of the event investigation regarding the Mercury exceedance. The letter explains that upon receipt of the associated analytical data on May 23, 2022, an initial review of the data and discussion with the analytical laboratory (SGS North America, Inc., Dayton, New Jersey) was conducted. During discussions with

the laboratory, the laboratory project manager indicated the sample contained some particulate matter and that the mercury analysis equipment was recently down requiring maintenance. Additionally, the laboratory analytical report indicates an "elevated sample detection limit due to difficult sample matrix". These are considered potential contributing factors that may have resulted in the detected mercury concentration.

Based upon the BSA's review of Honeywell's June 2022 SMR, it has been determined that for the six-month period beginning on 12/6/2021, at least 33% of all results submitted (1 of 2) for Mercury are in violation of the Technical Review Criteria (TRC) for the permit's Daily Limit. Consequently, you are in significant noncompliance (SNC) with your discharge limit requirements. Therefore, the BSA is required to publish Honeywell in the Buffalo News as an Industrial User which was in significant noncompliance with applicable Pretreatment reporting requirements.

Pursuant to 40 CFR §403.8, paragraph (f)(2)(viii), Publicly Owned Treatment Works (POTWs) are required to provide annual public notification in a newspaper(s) of general circulation that provides meaningful public notice within the jurisdiction(s) served by the POTW of Industrial Users which, at any time during the previous 12 months, were in significant noncompliance with applicable Pretreatment requirements. Sub-paragraph (B) of this section designates one criteria of significant noncompliance as "Technical Review Criteria (TRC) violations, defined here as those in which 33 percent or more of all of the measurements taken for the same pollutant parameter during a 6-month period equal or exceed the product of the numeric Pretreatment Standard or Requirement including instantaneous limits, as defined by 40 CFR §403.3(l) multiplied by the applicable TRC (TRC = 1.4 for BOD, TSS, fats, oil, and grease, and 1.2 for all other pollutants excepts pH)".

If you have any questions, please contact me at 716-851-4664, ext. 5250 or Traserra Adams, Legal Investigator, at ext. 5255.

Very truly yours,

BUFFALO SEWER AUTHORITY

Leslie Sedita
Industrial Waste Administrator

cc: Alex Emmerson, Treatment Plant Superintendent
T. Adams, Legal Investigator

Jacobs

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Syracuse, New York 13204
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www.jacobs.com

October 27, 2022

Ms. Traserra Adams
Buffalo Sewer Authority
Industrial Waste Section
90 West Ferry Street
Buffalo, New York 14213

Subject: **Alltift Landfill/Ramco Steel Site**
Discharge Monitoring Report
2022 Second Semi-Annual Report
BPDES Permit Number 21-12-BU098

Dear Ms. Adams:

Enclosed please find the 2022 Second Semi-Annual discharge monitoring report for the pumping facility located at the Alltift Landfill/Ramco Steel (Alltift) Site. The total flow to the Buffalo Sewer Authority (BSA) during this period was 577,704 gallons. The flow was measured from a totalizing meter within the lift station at the Alltift Site from May 02, 2022 through September 07, 2022 for a total of 128 days. Flow metering readings collected during the reporting period are included as Attachment 1.

A time composite discharge sample was collected from within the pump station on September 07, 2022. Four grab samples were collected over an evenly spaced workday period for VOC and SVOC analysis, and the four samples were composited at the laboratory prior to analysis per permit requirements. The samples for metals (including mercury), total suspended solids, total phosphorus, and pH were collected as grab samples and composited in the field. The pH reported on the discharge monitoring report is the pH reported on the laboratory report. A summary of the analytical results compared to permit limits is provided in Table 1 and a copy of the laboratory analytical report is provided as Attachment 2. All parameters were in compliance with permit limits with the exception of total suspended solids. A resample for total suspended solids at the lift station was performed on September 23, 2022. The total suspended solids result for the second sample was 243 mg/l which is below the permitted value of 250 mg/l. The laboratory analytical report is provided as Attachment 3. If you have any questions or require additional information, please contact me at (315) 468-1663.

Sincerely,

Jacobs

John W. Formoza
Regional Manager

QC Review By: Ryan Belcher (WSP USA E&I)

cc.: Mr. Sasa Jazic (Honeywell)
Ms. Taylor Monnin (NYSDEC)
Mr. Jason Paananen (City of Buffalo)
Mr. Robert Gersh (WSP USA E&I)

Table 1
Alltift Landfill/Ramco Steel Site
Second Semi-Annual Report for 2022
Discharge Monitoring Report

BSA Permit No. 21-12-BU098	
Sample Date:	September 7, 14 and 23, 2022
Sample Location:	Onsite Pump Station to BSA

BSA Permit Parameter	Input Analytical Results				Converted Analytical Results		BSA Daily Max Discharge Limit		Permit Compliance
	Quantity	Qualifier	Reporting Limit	Unit	Quantity	Unit	Quantity	Unit	
pH	7.05		0.1	SU	7.05	SU	5.0 - 12.0	SU	Yes
Copper	ND		0.1	mg/L	ND	lbs/day	7.68	lbs/day	Yes
Mercury	0.00016	J	0.0002	mg/L	0.00016	mg/l	0.0008	mg/l	Yes
Zinc	0.085		0.2	mg/L	0.0032	lbs/day	12	lbs/day	Yes
Total Suspended Solids - 09/07/2022	274		4.0	mg/L	274	mg/L	250	mg/L	No
Total Suspended Solids - 09/23/2022	243		4.0	mg/L	243	mg/L	250	mg/L	Yes
Total Phosphorus	12.0		5.0	mg/L	12.0	mg/L	15.35	mg/L	Yes
USEPA Test Method 624	ND - 90.8	J		µg/L	Monitor Only				
USEPA Test Method 625	ND - 5.6	J		µg/L					
Total Flow (average)	3.13			gpm	4,513	gpd	57,600	gpd	Yes

Notes:
J - estimated value below Reporting Limit/Practical Quantitation Limit
ND - Not detected at the reporting limit

µg/L - micrograms per liter
mg/L - milligrams per liter

gpm - gallons per minute
gpd - gallons per day
SU - Standard Units

Flow Calculations	Meter	
Initial Reading (pump station)	328659	5/2/2022
Final Reading (pump station)	906363	9/7/2022
Total Days in Period		128
Total Flow for Period	**577,704**	**gallons**
Average Flow for Period	**3.13**	**gpm**

Note: No New flow meter installed on current reporting period

Prepared by, Date: Parthiban, 10/13/2022
Checked by, Date: Michael Fay, 10/14/2022

Attachment 1 - Flow Meter Readings

Buffalo Alltift Lift Station	
Date	**Totalizer Reading (gallons)**
5/2/2022	328659
7/7/2022	671241
8/3/2022	777400
9/7/2022	906363

wood.

N

0 200 400

Feet

Figure 1
Permit Sample Location

Alltift Landfill
Buffalo, New York

Prepared/Date: BRP 07-27-21	Checked/Date: RTB 07-27-21

Document: P:\Projects\Honeywell\O,M and M Team\Alltift Landfill\4.0 Project Deliverables\4.3 Drawings\GIS\MapDocuments\Permit_Site_Map_8.5x11P.mxd
PDF: P:\Projects\Honeywell\O,M and M Team\Alltift Landfill\4.0 Project Deliverables\4.3 Drawings\GIS\Figures\Figure 1 - Permit Sample Location.pdf 07-27-2021 11:25 AM brian.peters

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

John W. Formoza
Jacobs

10/27/22
Date

Jacobs

Well Sampling Form

Project Name Alltift Landfill
Location Tifft Street, Buffalo NY
Sampling Event Semi-Annual
Job #

Date 09-07-22
Field Team Benjamin Hendry
Field Conditions 70's, overcast / light rain

Well / Sample # Grab 1-4, composite
Initial DTW: 9.00
Purge Method (circle): ~~Submersible~~ Peristaltic Ded. Pump Other: _____
Sample Method: Bailer

Start Time 0400 **End Time** 1600
Measure Point (circle): Top of ~~flat~~ vault fixture
PVC Steel Other: _____

Sample ID _____ **Sample Time:** 0930, 1130, 1330, 1530
~~Dup. Sample ID~~ _____ ~~Dup. Time:~~ _____
~~QC Sample ID~~ _____ ~~QC Time:~~ _____

Depth to Bottom (from meas. pt., ft.): 13.00 ~~Min. Purge Vol. (gal. or L):~~ _____ ~~Purge Rate (gpm or mLpm):~~ _____

~~WQ Parameter Measurement Technique (circle):~~ ~~Flow-thru cell~~ ~~In-situ~~ ~~Open container~~

Time	Volume Purged gal / L	pH SU (+/- 0.1)	Conductivity mS/cm (+/- 3%)	Turbidity NTU (+/- 10% if > 10 NTU)	DO mg/L (+/- 10%)	Temperature °C (+/- 3%)	Eh / ORP mv (+/- 10 mV)	DTW ft.
0910 –	On-site. Calibrate pH meter (Hach Handheld 'A'). Discharge totalizer: 906363.2 gal.							
~~0920~~								
0930 –	Grab 1 taken. Filled 3 40mL VOAs, 2 1L Ambers, add 1 gal. to composite carboy.							
	7.00 pH	3.42 mS/cm	-88.9 mV	20.7°C				
	~~7.00 pH~~							
1130 –	Grab 2 taken. Filled 3 40mL VOAs, 2 1L Ambers, add 1 gal. to composite carboy.							
	6.98 pH	3.01 mS/cm	-90.6 mV	20.4°C				
1330 –	Grab 3 taken. Filled 3 40mL VOAs, 2 1L ambers, add 1 gal. to composite carboy.							
	6.92 pH	2.78 mS/cm	-76.5 mV	20.3°C				
1530 –	Grab 4 taken. Filled 3 40mL VOAs, 2 1L Ambers, add 1 gal. to composite carboy.							
	6.96 pH	2.79 mS/cm	-63.8 mV	19.9°C				
1545	Comp-090722-BSA Discharge sampled. Mixed carboy & filled: -2x 1L poly (TSS)							
-	1x 500mL poly w. HNO_3 (Metals)					-1x 500mL glass (LLHg)		
-	1x 500mL poly w. H_2SO_4 (TPOn)					-1x 250mL poly (NH3) (pH + temp)		

Sample Collection Information

Parameter	Bottle Type	Volume	Quantity	Preservative	Field Filtered(Y/N)	Sample Taken(Y/N)	Notes
VOCs	VOA	40mL	3x4	HCl	N	Y	
SVOCs	Amber	1L	2x4	None	N	Y	
LLHg	~~PFA~~ Glass	.5L	1	None	N	Y	
TPOn	Poly	.5L	1	H_2SO_4	N	Y	
Metals	Poly	.5L	1	HNO_3	N	Y	
TSS	Poly	1L	2	None	N	Y	

Notes

Jacobs

Well Sampling Form

Project Name Alltift Landfill
Location Tifft Street, Buffalo NY
Sampling Event Semi-Annual VOC Resample
Job #

Date 09-14-22
Field Team Benjamin Hendry
Field Conditions 70's, p. cloudy

Well / Sample # Wet well grabs
Initial DTW: 8.97
~~Purge Method (circle)~~:
Submersible Peristaltic Ded. Pump Other: _____
Sample Method: Bailer

Start Time 1020 **End Time** 1630

Measure Point (circle):
PVC (Steel) → Top of manway frame Other: _____

Sample ID Grab X-091422-BSA Discharge
Sample Time: 1030, 1230, 1430, 1630
~~Dup. Sample ID~~ ~~Dup. Time:~~
~~QC Sample ID~~ ~~QC Time:~~
Depth to Bottom (from meas. pt., ft.): 13.00 ~~Min. Purge Vol. (gal. or L):~~ ~~Purge Rate (gpm or mL/pm):~~

WQ Parameter Measurement Technique (circle): Flow-thru cell In-situ (Open container)

Time	Volume Purged gal / L	pH SU (+/- 0.1)	Conductivity mS/cm (+/- 3%)	Turbidity NTU (+/- 10% if > 10 NTU)	DO mg/L (+/-10%)	Temperature °C (+/- 3%)	Eh / ORP mv (+/- 10 mV)	DTW ft.
1030	—	6.68	3.64	94.0	1.37	22.09	-56	
		Grab 1-091422-BSA discharge taken						
1230	—	6.70	3.55	81.0	1.73	21.93	-60	
		Grab 2-091422-BSA discharge taken						
1430	—	6.71	3.53	81.3	2.06	21.20	-80	
		Grab 3-091422-BSA discharge taken						
1630	—	6.78	3.63	95.1	2.49	21.22	-90	
		Grab 4-091422-BSA discharge taken						

Sample Collection Information

Parameter	Bottle Type	Volume	Quantity	Preservative	Field Filtered(Y/N)	Sample Taken(Y/N)	Notes
4x VOCs	VOA	40 mL	3	HCl	N	Y	

Notes

Using U-5000 Horiba WQ meter for readings; S/N: PRIEBATH

Shipped via Fedex, tracking #: 5894 7365 9356 on 09-15-22

Jacobs

Well Sampling Form

Project Name Alltift Landfill
Location Tifft Street, Buffalo NY
Sampling Event Semi-Annual TSS Resample
Job #

Date 09-23-2022
Field Team Benjamin Hendry
Field Conditions 50's, clear

Well / Sample # Wet well comp. grabs
Initial DTW:

Start Time 0845 **End Time** 1550

Purge Method (circle):
Submersible ~~Peristaltic~~ ~~Ded. Pump~~ Other:

Measure Point (circle):
PVC Steel Other:

Sample Method: Bailer grabs

Sample ID Comp-092322-BSA Discharge **Sample Time:** 1545
~~Dup. Sample ID~~ Dup. Time:
~~QC Sample ID~~ QC Time:

Depth to Bottom (from meas. pt., ft.): ~~Min. Purge Vol. (gal. or L):~~ ~~Purge Rate (gpm or mLpm):~~

~~WQ~~ Parameter Measurement Technique (circle): Flow-thru cell In-situ Open container

Time	Volume Purged gal / L	pH SU (+/- 0.1)	Conductivity mS/cm (+/- 3%)	Turbidity NTU (+/- 10% if > 10 NTU)	DO mg/L (+/- 10%)	Temperature °C (+/- 3%)	Eh / ORP mv (+/- 10 mV)	DTW ft.
0915-	Set up for comp grab 1. FM: 921303 i.e. Using Hach Hand-meter "B", calibrated:							
		4	7	10				
	F	4.00	6.95	9.98				
	L	4.01	7.00	10.02				
0940-	Take grab 1, added 1gal. to comp. carboy.				6.85pH	3.30 mS/cm	211 g/L TDS	17.1°C
1140-	Grab 2, add 1gal. to carboy.				6.85pH	3.57 mS/cm	2.16 g/L TDS	18.4°C
1340-	Grab 3, add 1gal. to carboy.				6.95pH	3.21 mS/cm	2.01 g/L	19.0°C
1540-	Grab 4, add 1gal. to carboy.				6.64pH	3.79 mS/cm	2.42 g/L	18.6°C
1545-	Sample taken, packed on ice, ship via Fedex on Monday 09-26-22.							

Sample Collection Information

Parameter	Bottle Type	Volume	Quantity	Preservative	Field Filtered(Y/N)	Sample Taken(Y/N)	Notes
TSS	Poly	1L	2	None	N	Y	

Notes

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Honeywell International Inc. OMM work

HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

PO#A001132428

SGS Job Number: JD51497

Sampling Dates: 09/07/22 - 09/14/22

Report to:

Wood Environment & Infrastructure Soln.
511 Congress Street
Portland, ME 04112
HTS-RES-LAB@Honeywell.com; Ryan.Belcher@amecfw.com

ATTN: Ryan Belcher

Total number of pages in report: **87**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Jadon Schiller 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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Test results relate only to samples analyzed.

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SGS North America Inc.

Sample Summary

Honeywell International Inc. OMM work

Job No: JD51497

HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Project No: PO#A001132428

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD51497-1	09/07/22	15:30	BH	09/09/22	AQ	Ground Water	GRAB 1 THRU 4-090722-BSA DISCHARGE
JD51497-2	09/07/22	15:45	BH	09/09/22	AQ	Ground Water	COMP-090722-BSA DISCHARGE
JD51497-2R	09/07/22	15:45	BH	09/09/22	AQ	Ground Water	COMP-090722-BSA DISCHARGE
JD51497-3	09/14/22	16:30	BH	09/16/22	AQ	Ground Water	GRAB 1 THRU 4-091422-BSA DISCHARGE
JD51497-4	09/14/22	16:30	BH	09/16/22	AQ	Trip Blank Water	TB

This report contains results reported as ND = Not detected. The following applies:

Organics ND = Not detected above the MDL
Metals ND = Not detected above the MDL
General Chemistry ND = Not detected above the MDL

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Honeywell International Inc. OMM work **Job No:** JD51497

Site: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY **Report Date** 9/29/2022 10:53:51 A

Between 09/09/2022 and 09/16/2022, 3 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 4.6 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD51497 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method EPA 624.1

Matrix: AQ **Batch ID:** V4D5383

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD51834-4MS, JD51834-4MSD were used as the QC samples indicated.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for Acrolein are outside control limits. Outside control limits due to matrix interference.
- JD51497-1: (pH=5)Sample pH did not satisfy field preservation criteria.Results reported from the HCl preserved sample. The reported result for acrolein is for screening only and cannot be used for compliance purposes.
- JD51497-1 for 2-Chloroethyl vinyl ether: Associated CCV outside of control limits high, sample was ND.

Matrix: AQ **Batch ID:** VN12551

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD51497-3MS, JD51497-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- RPD(s) for MSD for Dichlorodifluoromethane are outside control limits for sample JD51497-3MSD. Probable cause due to sample homogeneity.
- JD51497-3: (pH=4.5)Sample pH did not satisfy field preservation criteria. Results reported from the HCl preserved sample. The reported result for acrolein is for screening only and cannot be used for compliance purposes.
- JD51497-4: Results reported from the HCl preserved sample. The reported result for acrolein is for screening only and cannot be used for compliance purposes.

MS Semi-volatiles By Method EPA 625.1

Matrix: AQ **Batch ID:** OP41784B

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Benzidine, Pyrene are outside control limits.
- OP41784B-BS1 for Benzidine: Outside of in house control limits.
- JD51497-1 for Benzidine: This compound in BS,BSD is outside in house QC limits bias low.
- JD51497-1 for Indeno(1,2,3-cd)pyrene: Associated CCV outside of control limits high, sample was ND.
- OP41784B-BS1 for Pyrene: Outside of in house control limits.

Metals Analysis By Method EPA 200.7

Matrix: AQ	Batch ID: MP35169

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD51807-1MS, JD51807-1MSD, JD51807-1SDL were used as the QC samples for metals.

Metals Analysis By Method EPA 245.1

Matrix: AQ	Batch ID: MP35209

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD51848-1MS, JD51848-1MSD were used as the QC samples for metals.

General Chemistry By Method EPA 365.3

Matrix: AQ	Batch ID: GP42249

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD51465-1DUP, JD51465-1MS were used as the QC samples for Phosphorus, Total.

General Chemistry By Method SM2540 D-11/15

Matrix: AQ	Batch ID: GN33328

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD51467-1DUP were used as the QC samples for Solids, Total Suspended.

Matrix: AQ	Batch ID: GN33578

- All method blanks for this batch meet method specific criteria.
- Sample(s) JD52255-3DUP were used as the QC samples for Solids, Total Suspended.
- The following samples were run outside of holding time for method SM2540 D-11/15: JD51497-2R Analysis done out of holding time.

General Chemistry By Method SM4500H+ B-11

Matrix: AQ	Batch ID: R199600

- The data for SM4500H+ B-11 meets quality control requirements.
- JD51497-2 for pH: Sample received out of holding time for pH analysis. Temp of pH Reading: 6.8 Deg. C

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD51497
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/07/22 thru 09/14/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD51497-1	**GRAB 1 THRU 4-090722-BSA DISCHARGE**					
Benzene [a]		9.3	1.0	0.34	ug/l	EPA 624.1
Chlorobenzene [a]		104	1.0	0.33	ug/l	EPA 624.1
1,2-Dichlorobenzene [a]		0.96 J	1.0	0.30	ug/l	EPA 624.1
1,4-Dichlorobenzene [a]		1.9	1.0	0.50	ug/l	EPA 624.1
cis-1,2-Dichloroethene [a]		0.76 J	1.0	0.51	ug/l	EPA 624.1
4-Chloroaniline		5.6	5.0	0.34	ug/l	EPA 625.1
1,2-Dichlorobenzene		0.61 J	1.0	0.17	ug/l	EPA 625.1
1,3-Dichlorobenzene		0.27 J	1.0	0.19	ug/l	EPA 625.1
1,4-Dichlorobenzene		1.2	1.0	0.17	ug/l	EPA 625.1
Phenanthrene		0.19 J	1.0	0.18	ug/l	EPA 625.1
JD51497-2	**COMP-090722-BSA DISCHARGE**					
Mercury		0.16 J	0.20	0.092	ug/l	EPA 245.1
Phosphorus, Total		12.0	5.0	2.7	mg/l	EPA 365.3
Solids, Total Suspended		270	4.0	1.5	mg/l	SM2540 D-11/15
pH [b]		7.05			su	SM4500H+ B-11
JD51497-2R	**COMP-090722-BSA DISCHARGE**					
Solids, Total Suspended [c]		274	4.0	1.5	mg/l	SM2540 D-11/15
JD51497-3	**GRAB 1 THRU 4-091422-BSA DISCHARGE**					
Benzene [d]		5.0	1.0	0.34	ug/l	EPA 624.1
Chlorobenzene [d]		90.8	1.0	0.33	ug/l	EPA 624.1
Chloroethane [d]		0.72 J	1.0	0.54	ug/l	EPA 624.1
1,2-Dichlorobenzene [d]		0.78 J	1.0	0.30	ug/l	EPA 624.1
1,4-Dichlorobenzene [d]		1.5	1.0	0.50	ug/l	EPA 624.1
1,1-Dichloroethane [d]		0.43 J	1.0	0.42	ug/l	EPA 624.1
cis-1,2-Dichloroethene [d]		0.77 J	1.0	0.51	ug/l	EPA 624.1
JD51497-4	**TB**					
Chlorobenzene [e]		0.54 J	1.0	0.33	ug/l	EPA 624.1
Toluene [e]		0.36 J	1.0	0.36	ug/l	EPA 624.1

(a) (pH= 5)Sample pH did not satisfy field preservation criteria.Results reported from the HCl preserved sample. The reported result for acrolein is for screening only and cannot be used for compliance purposes.
(b) Sample received out of holding time for pH analysis. Temp of pH Reading: 6.8 Deg. C
(c) Analysis done out of holding time.
(d) (pH= 4.5)Sample pH did not satisfy field preservation criteria. Results reported from the HCl preserved sample. The reported result for acrolein is for screening only and cannot be used for compliance purposes.

Summary of Hits

Job Number: JD51497
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/07/22 thru 09/14/22

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

(e) Results reported from the HCl preserved sample. The reported result for acrolein is for screening only and cannot be used for compliance purposes.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	GRAB 1 THRU 4-090722-BSA DISCHARGE		
Lab Sample ID:	JD51497-1	**Date Sampled:**	09/07/22
Matrix:	AQ - Ground Water	**Date Received:**	09/09/22
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	4D121195.D	1	09/16/22 17:24	TS	n/a	n/a	V4D5383
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	10	3.7	ug/l	
107-13-1	Acrylonitrile	ND	10	2.5	ug/l	
71-43-2	Benzene	9.3	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.35	ug/l	
75-25-2	Bromoform	ND	1.0	0.60	ug/l	
74-83-9	Bromomethane	ND	1.0	0.87	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	104	1.0	0.33	ug/l	
75-00-3	Chloroethane	ND	1.0	0.54	ug/l	
110-75-8	2-Chloroethyl vinyl ether [b]	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.78	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.43	ug/l	
95-50-1	1,2-Dichlorobenzene	0.96	1.0	0.30	ug/l	J
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	1.9	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.69	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.76	1.0	0.51	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.46	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.42	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.37	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.41	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.32	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.36	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRAB 1 THRU 4-090722-BSA DISCHARGE		
Lab Sample ID:	JD51497-1	**Date Sampled:**	09/07/22
Matrix:	AQ - Ground Water	**Date Received:**	09/09/22
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.35	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	88%		80-128%
2037-26-5	Toluene-D8 (SUR)	100%		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	99%		79-117%
1868-53-7	Dibromofluoromethane (S)	99%		84-121%

(a) (pH= 5)Sample pH did not satisfy field preservation criteria.Results reported from the HCl preserved sample.
The reported result for acrolein is for screening only and cannot be used for compliance purposes.
(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRAB 1 THRU 4-090722-BSA DISCHARGE		
Lab Sample ID:	JD51497-1	**Date Sampled:**	09/07/22
Matrix:	AQ - Ground Water	**Date Received:**	09/09/22
Method:	EPA 625.1 SW846 3510C	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P151379.D	1	09/15/22 15:12	CS	09/14/22 15:30	OP41784B	EP7011
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.82	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.89	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.4	ug/l	
51-28-5	2,4-Dinitrophenol	ND	10	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.0	1.3	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.96	ug/l	
100-02-7	4-Nitrophenol	ND	10	1.2	ug/l	
87-86-5	Pentachlorophenol	ND	5.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.92	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.19	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.14	ug/l	
120-12-7	Anthracene	ND	1.0	0.21	ug/l	
92-87-5	Benzidine [a]	ND	10	0.90	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.21	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.21	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.34	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.21	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.40	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.46	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.24	ug/l	
106-47-8	4-Chloroaniline	5.6	5.0	0.34	ug/l	
218-01-9	Chrysene	ND	1.0	0.18	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.28	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.25	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	2.0	0.40	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.37	ug/l	
95-50-1	1,2-Dichlorobenzene	0.61	1.0	0.17	ug/l	J
122-66-7	1,2-Diphenylhydrazine	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	0.27	1.0	0.19	ug/l	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRAB 1 THRU 4-090722-BSA DISCHARGE		
Lab Sample ID:	JD51497-1	**Date Sampled:**	09/07/22
Matrix:	AQ - Ground Water	**Date Received:**	09/09/22
Method:	EPA 625.1 SW846 3510C	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	1.2	1.0	0.17	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.51	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.33	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.23	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.22	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	1.7	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.17	ug/l	
86-73-7	Fluorene	ND	1.0	0.17	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.8	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.39	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene [b]	ND	1.0	0.33	ug/l	
78-59-1	Isophorone	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	1.0	0.23	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.64	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	2.0	0.82	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	
85-01-8	Phenanthrene	0.19	1.0	0.18	ug/l	J
129-00-0	Pyrene	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	32%		10-110%
4165-62-2	Phenol-d5	22%		10-110%
118-79-6	2,4,6-Tribromophenol	103%		35-147%
4165-60-0	Nitrobenzene-d5	72%		32-132%
321-60-8	2-Fluorobiphenyl	78%		40-117%
1718-51-0	Terphenyl-d14	43%		33-126%

(a) This compound in BS,BSD is outside in house QC limits bias low.
(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: COMP-090722-BSA DISCHARGE
Lab Sample ID: JD51497-2
Matrix: AQ - Ground Water
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Date Sampled: 09/07/22
Date Received: 09/09/22
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Copper	ND	100	41	ug/l	1	09/16/22	09/19/22	ND	EPA 200.7 [2]	EPA 200.7 [3]
Mercury	0.16 J	0.20	0.092	ug/l	1	09/19/22	09/19/22	LM	EPA 245.1 [1]	EPA 245.1 [4]
Zinc	ND	200	85	ug/l	1	09/16/22	09/19/22	ND	EPA 200.7 [2]	EPA 200.7 [3]

(1) Instrument QC Batch: MA52996
(2) Instrument QC Batch: MA53011
(3) Prep QC Batch: MP35169
(4) Prep QC Batch: MP35209

RL = Reporting Limit
MDL = Method Detection Limit
ND = Not detected
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	COMP-090722-BSA DISCHARGE		
Lab Sample ID:	JD51497-2	**Date Sampled:**	09/07/22
Matrix:	AQ - Ground Water	**Date Received:**	09/09/22
		Percent Solids:	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Phosphorus, Total	12.0	5.0	2.7	mg/l	1	09/13/22 16:22	MP	EPA 365.3
Solids, Total Suspended	270	4.0	1.5	mg/l	1	09/14/22 15:21	AS	SM2540 D-11/15
pH [a]	7.05			su	1	09/27/22 09:41	MS	SM4500H+ B-11

(a) Sample received out of holding time for pH analysis. Temp of pH Reading: 6.8 Deg. C

RL = Reporting Limit
MDL = Method Detection Limit
ND = Not detected
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	COMP-090722-BSA DISCHARGE		
Lab Sample ID:	JD51497-2R	**Date Sampled:**	09/07/22
Matrix:	AQ - Ground Water	**Date Received:**	09/09/22
		Percent Solids:	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Suspended [a]	274	4.0	1.5	mg/l	1	09/22/22 13:58	AS	SM2540 D-11/15

(a) Analysis done out of holding time.

RL = Reporting Limit
MDL = Method Detection Limit

ND = Not detected
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	GRAB 1 THRU 4-091422-BSA DISCHARGE		
Lab Sample ID:	JD51497-3	**Date Sampled:**	09/14/22
Matrix:	AQ - Ground Water	**Date Received:**	09/16/22
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	N296466.D	1	09/21/22 10:32	TS	n/a	n/a	VN12551
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	10	3.7	ug/l	
107-13-1	Acrylonitrile	ND	10	2.5	ug/l	
71-43-2	Benzene	5.0	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.35	ug/l	
75-25-2	Bromoform	ND	1.0	0.60	ug/l	
74-83-9	Bromomethane	ND	1.0	0.87	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	90.8	1.0	0.33	ug/l	
75-00-3	Chloroethane	0.72	1.0	0.54	ug/l	J
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.78	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.43	ug/l	
95-50-1	1,2-Dichlorobenzene	0.78	1.0	0.30	ug/l	J
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	1.5	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.69	ug/l	
75-34-3	1,1-Dichloroethane	0.43	1.0	0.42	ug/l	J
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.45	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.77	1.0	0.51	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.46	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.42	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.37	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.41	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.32	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.36	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.43	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRAB 1 THRU 4-091422-BSA DISCHARGE		
Lab Sample ID:	JD51497-3	**Date Sampled:**	09/14/22
Matrix:	AQ - Ground Water	**Date Received:**	09/16/22
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.35	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	119%		80-128%
2037-26-5	Toluene-D8 (SUR)	101%		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	90%		79-117%
1868-53-7	Dibromofluoromethane (S)	107%		84-121%

(a) (pH= 4.5)Sample pH did not satisfy field preservation criteria. Results reported from the HCl preserved sample. The reported result for acrolein is for screening only and cannot be used for compliance purposes.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB		
Lab Sample ID:	JD51497-4	**Date Sampled:**	09/14/22
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/16/22
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	N296479.D	1	09/21/22 17:19	TS	n/a	n/a	VN12551
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	10	3.7	ug/l	
107-13-1	Acrylonitrile	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.35	ug/l	
75-25-2	Bromoform	ND	1.0	0.60	ug/l	
74-83-9	Bromomethane	ND	1.0	0.87	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	0.54	1.0	0.33	ug/l	J
75-00-3	Chloroethane	ND	1.0	0.54	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.78	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.43	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.30	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.69	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.45	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.46	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.42	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.37	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.41	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.32	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	0.36	1.0	0.36	ug/l	J
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.43	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB		
Lab Sample ID:	JD51497-4	**Date Sampled:**	09/14/22
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/16/22
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.35	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	118%		80-128%
2037-26-5	Toluene-D8 (SUR)	98%		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	90%		79-117%
1868-53-7	Dibromofluoromethane (S)	108%		84-121%

(a) Results reported from the HCl preserved sample. The reported result for acrolein is for screening only and cannot be used for compliance purposes.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody
- QC Evaluation: Honeywell Limits

Parameter Certification Exceptions

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
1,2-Dichlorobenzene	95-50-1	**EPA 625.1**	AQ	SGS is not certified for this parameter.[a]
1,4-Dichlorobenzene	106-46-7	**EPA 625.1**	AQ	SGS is not certified for this parameter.[a]

(a) Lab cert for analyte not supported by NJDEP, OQA. Only methods/analytes required for reporting by the State of NJ can be certified in NJ. Use of this analyte for compliance must be verified through the appropriate regulatory office.

Certification exceptions shown are based on the New Jersey DEP certifications. Applicability in other states may vary. Please contact your laboratory representative if additional information is required for a specific regulatory program.

GW
TB

Comp

Fedex: 5894-7366-2346

SGS Laboratories
2235 Route 130
Dayton, NJ 08810
(p) 732-239-0200

Chain Of Custody/Analysis Request
Project Name: Buffalo Alltift Landfill - Semi-Annual
Lab Project Name: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

AESI Ref: 38609.59845
COC #: 090722-Alltift
Lab Use Only
Lab_SDG
Lab ID

Privileged & Confidential
EDD To: Ryan Belcher (ryan.belcher@woodplc.com)
Sampler: Benjamin Hendry
Sampling Company: Jacobs
P O #: A001132428
qa12
Standard -
Rush Charges Authorized for
Date Around Time Required -

Facility Name: Alltift Landfill
Location of Site: Buffalo, New York
Site Code: 30130

STANDARD

Client Contact: (name, co., address)
Sasa Jazic
Honeywell International
301 Plainfield Road, Suite 330
Syracuse, New York 13212
Sasa.Jazic@Honeywell.com
Hardcopy Report To: Do Not Send Hardcopy Unless Requested
Invoice To:

Job No: JD 51497
Coolers: 2

	Sample Identification				Sample Date	Sample Time	Matrix Code	Medium Code	Sample Type	# of Cont.	Composite (Y or N)	Filter (Type Used/Brand, Size/Collected)	Preservative 1	Preservative 0	Preservative 2	Preservative 2	Preservative 3	Preservative 0	Preservative 0	Lab Sample Numbers
	Sys_Loc_Code	Start Depth (ft)	End Depth (ft)	Sys_Sample_Code							Units									
1	N/A	---	---	Grab 1 - 090722 - BSA Discharge	09-07-2022	0930	GW	WATER	REG	5	N	N	3	2						E28
2	N/A	---	---	Grab 2 - 090722 - BSA Discharge	09-07-2022	1130	GW	WATER	REG	5	N	N	3	2						VSL11
3	N/A	---	---	Grab 3 - 090722 - BSA Discharge	09-07-2022	1330	GW	WATER	REG	5	N	N	3	2						A12
4	N/A	---	---	Grab 4 - 090722 - BSA Discharge	09-07-2022	1530	GW	WATER	REG	5	N	N	3	2						GW
5	N/A	---	---	Comp - 090722 - BSA Discharge	09-07-2022	1545	GW	WATER	REG	6	N	N			1	1	1	1	2	2
6	N/A	---	---	TB	09/07/2022	--	WQ	WATER	TB	2	N	N	2							3
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Prior to analysis, grab samples 1, 2, 3 & 4 to be composited by lab

Special Instructions:	Sample Location	pH Range	pH	Max Temp (°C)	Temp (°C)	Flow	Cond. (mS/cm)	Other	Notes: For COC questions, contact --
									Benjamin Hendry benjamin.hendry@jacobs.com 315-806-4029

Relinquished by	Company	Received by	Company	Condition	Custody Seals Intact
	Jacobs	FEDEX			
Date/Time	09-08-22/1500		Date/Time 09/14/22 10:00	Cooler Temp 2.1	
Relinquished by	Company	Received by	Company	Condition	Custody Seals Intact
Fedex		JP			
Date/Time	9/9/22/0:4		Date/Time	Cooler Temp	

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

2.3

Initial Assessment NA (2A)
Label Verification

SGS Sample Receipt Summary

Job Number: JD51497 **Client:** HONEYWELL INTERNATIONAL **Project:** 30130-ALLTIFT LANDFILL

Date / Time Received: 9/9/2022 10:00:00 AM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (2.3);

Cooler Temps (Corrected) °C: Cooler 1: (2.9);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

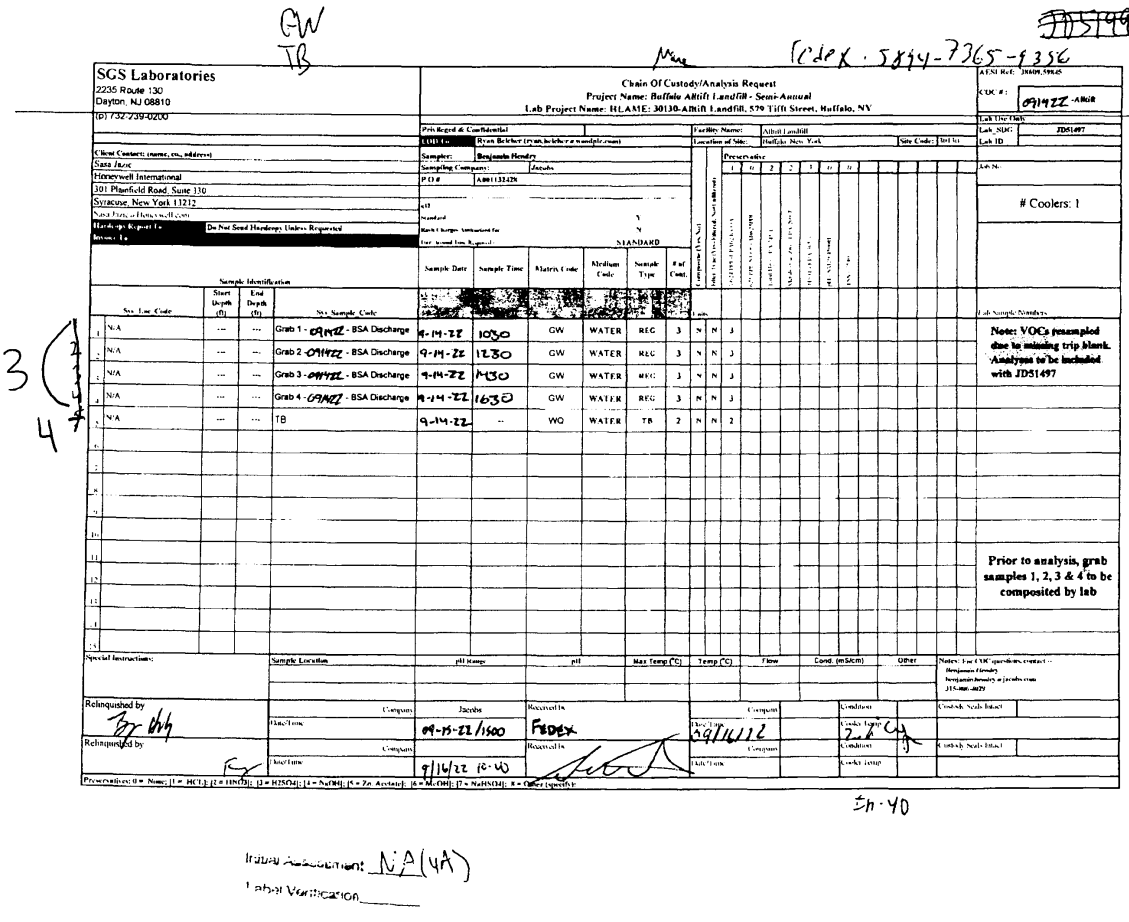
Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments 1). Sample "TB" was not received. Please confirm.

SM089-03
Rev. Date 12/7/17



SGS Laboratories
2235 Route 130
Dayton, NJ 08810
(p) 732-329-0200

Chain Of Custody/Analysis Request
Project Name: Buffalo Altlift Landfill - Semi-Annual
Lab Project Name: RLAME: 30130-Altlift Landfill, 570 Tifft Street, Buffalo, NY

COC #: 091422-AltLft

Client Contact: (name, co., address)
Sass Inc
Honeywell International
301 Plainfield Road, Suite 330
Syracuse, New York 13212

Sampler: Benjamin Hendry
Sampling Company: Jacobs
PO #: A0011132428

Facility Name: Altlift Landfill
Location of Site: Buffalo, New York
Site Code: 30130

Lab Use Only
Lab SDG: JD51497
Lab ID

Job No.

Coolers: 1

Sys. Line Code	Start Depth (ft)	End Depth (ft)	Sys. Sample Code	Sample Date	Sample Time	Matrix Code	Medium Code	Sample Type	# of Cont.	Lab Sample Numbers
1	N/A	---	---	Grab 1 - 091422 - BSA Discharge	9-14-22	1030	GW	WATER	REG	3
2	N/A	---	---	Grab 2 - 091422 - BSA Discharge	9-14-22	1230	GW	WATER	REG	3
3	N/A	---	---	Grab 3 - 091422 - BSA Discharge	9-14-22	1430	GW	WATER	REG	3
4	N/A	---	---	Grab 4 - 091422 - BSA Discharge	9-14-22	1630	GW	WATER	REG	3
5	N/A	---	---	TB	9-14-22	--	WQ	WATER	TB	2

Note: VOCs resampled due to missing trip blank. Analyses to be included with JD51497

Prior to analysis, grab samples 1, 2, 3 & 4 to be composited by lab

Special Instructions:

Relinquished by: [signature] — Company: Jacobs — Date/Time: 09-15-22/1500 — Received by: FEDEX — Date/Time: 9/16/22 — Company: — Condition: — Cooler Temp: 2.4

Relinquished by: [signature] — Company: — Date/Time: 9/16/22 10:40 — Received by: [signature] — Company: — Condition: — Cooler Temp:

Preservatives: 0 = None; 1 = HCl; 2 = HNO3; 3 = H2SO4; 4 = NaOH; 5 = Zn Acetate; 6 = MeOH; 7 = NaHSO4; 8 = Other (specify)

Initial Acceptance: NA (4A)

Label Verification: _____

Job Change Order: JD51497

Requested Date:	9/21/2022	**Received Date:**	9/9/2022
Account Name:	Honeywell International Inc. OMM	**Due Date:**	9/21/2022
Project Description:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Bu	**Deliverable:**	COMMBN
C/O Initiated By:	JADONS **PM:** JBS	**TAT (Days):**	12

==========

Sample #: JD51497-2

Dept:

TAT: 12

Change:
Please relog/re-run for TSS (okay to proceed out of Hold Time)

COMP-090722-BSA DISCHARGE

==========

Above Changes Per: John Formoza **Date/Time:** 9/21/2022

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Job Change Order: JD51497

Requested Date: 9/22/2022 **Received Date:** 9/9/2022

Account Name: Honeywell International Inc. OMM **Due Date:** 9/22/2022

Project Description: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Bu **Deliverable:** COMMBN

C/O Initiated By: JADONS **PM:** JBS **TAT (Days):** 2

==========

Sample #: JD51497-2R **Change:** Please revise TAT to 2 days with a due date of 9/23 for the TSS relog run.

Dept:

TAT: 2

COMP-090722-BSA DISCHARGE

==========

==========

Sample #: JD51497- **Change:**

Dept:

TAT:

==========

Above Changes Per: John Formoza **Date/Time:** 9/22/2022

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

JD51497: Chain of Custody
Page 5 of 5

QC Evaluation: Honeywell Limits

Job Number: JD51497
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/07/22 thru 09/14/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V4D5383	EPA 624.1						
V4D5383-BS	107-02-8	Acrolein	BSP	REC	99	%	70-130
V4D5383-BS	107-13-1	Acrylonitrile	BSP	REC	122	%	70-130
V4D5383-BS	71-43-2	Benzene	BSP	REC	90	%	70-130
V4D5383-BS	75-27-4	Bromodichloromethane	BSP	REC	87	%	70-130
V4D5383-BS	75-25-2	Bromoform	BSP	REC	88	%	70-130
V4D5383-BS	74-83-9	Bromomethane	BSP	REC	101	%	70-130
V4D5383-BS	56-23-5	Carbon tetrachloride	BSP	REC	89	%	70-130
V4D5383-BS	108-90-7	Chlorobenzene	BSP	REC	95	%	70-130
V4D5383-BS	75-00-3	Chloroethane	BSP	REC	125	%	70-130
V4D5383-BS	110-75-8	2-Chloroethyl vinyl ether	BSP	REC	142	%	70-130
V4D5383-BS	67-66-3	Chloroform	BSP	REC	88	%	70-130
V4D5383-BS	74-87-3	Chloromethane	BSP	REC	117	%	70-130
V4D5383-BS	124-48-1	Dibromochloromethane	BSP	REC	93	%	70-130
V4D5383-BS	95-50-1	1,2-Dichlorobenzene	BSP	REC	96	%	70-130
V4D5383-BS	541-73-1	1,3-Dichlorobenzene	BSP	REC	93	%	70-130
V4D5383-BS	106-46-7	1,4-Dichlorobenzene	BSP	REC	88	%	70-130
V4D5383-BS	75-71-8	Dichlorodifluoromethane	BSP	REC	101	%	70-130
V4D5383-BS	75-34-3	1,1-Dichloroethane	BSP	REC	96	%	70-130
V4D5383-BS	107-06-2	1,2-Dichloroethane	BSP	REC	84	%	70-130
V4D5383-BS	75-35-4	1,1-Dichloroethene	BSP	REC	90	%	70-130
V4D5383-BS	156-59-2	cis-1,2-Dichloroethene	BSP	REC	94	%	70-130
V4D5383-BS	156-60-5	trans-1,2-Dichloroethene	BSP	REC	92	%	70-130
V4D5383-BS	78-87-5	1,2-Dichloropropane	BSP	REC	96	%	70-130
V4D5383-BS	10061-01-5	cis-1,3-Dichloropropene	BSP	REC	94	%	70-130
V4D5383-BS	10061-02-6	trans-1,3-Dichloropropene	BSP	REC	94	%	70-130
V4D5383-BS	100-41-4	Ethylbenzene	BSP	REC	94	%	70-130
V4D5383-BS	75-09-2	Methylene chloride	BSP	REC	95	%	70-130
V4D5383-BS	79-34-5	1,1,2,2-Tetrachloroethane	BSP	REC	103	%	70-130
V4D5383-BS	127-18-4	Tetrachloroethene	BSP	REC	90	%	70-130
V4D5383-BS	108-88-3	Toluene	BSP	REC	92	%	70-130
V4D5383-BS	71-55-6	1,1,1-Trichloroethane	BSP	REC	91	%	70-130
V4D5383-BS	79-00-5	1,1,2-Trichloroethane	BSP	REC	100	%	70-130
V4D5383-BS	79-01-6	Trichloroethene	BSP	REC	98	%	70-130
V4D5383-BS	75-69-4	Trichlorofluoromethane	BSP	REC	111	%	70-130
V4D5383-BS	75-01-4	Vinyl chloride	BSP	REC	117	%	70-130
V4D5383-BS	1330-20-7	Xylenes (total)	BSP	REC	96	%	70-130
V4D5383-BS	17060-07-0	1,2-Dichloroethane-D4 (SUR)	BSP	SURR	85	%	70-130
V4D5383-BS	2037-26-5	Toluene-D8 (SUR)	BSP	SURR	98	%	70-130
V4D5383-BS	460-00-4	4-Bromofluorobenzene (SUR)	BSP	SURR	101	%	70-130
V4D5383-BS	1868-53-7	Dibromofluoromethane (S)	BSP	SURR	99	%	70-130
JD51834-4MS*	107-02-8	Acrolein	MS	REC	0 [a]	%	70-130
JD51834-4MS*	107-13-1	Acrylonitrile	MS	REC	147	%	70-130

* Sample used for QC is not from job JD51497

QC Evaluation: Honeywell Limits

Job Number: JD51497
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/07/22 thru 09/14/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD51834-4MS*	71-43-2	Benzene	MS	REC	92	%	70-130
JD51834-4MS*	75-27-4	Bromodichloromethane	MS	REC	89	%	70-130
JD51834-4MS*	75-25-2	Bromoform	MS	REC	91	%	70-130
JD51834-4MS*	74-83-9	Bromomethane	MS	REC	89	%	70-130
JD51834-4MS*	56-23-5	Carbon tetrachloride	MS	REC	91	%	70-130
JD51834-4MS*	108-90-7	Chlorobenzene	MS	REC	96	%	70-130
JD51834-4MS*	75-00-3	Chloroethane	MS	REC	123	%	70-130
JD51834-4MS*	110-75-8	2-Chloroethyl vinyl ether	MS	REC	146	%	70-130
JD51834-4MS*	67-66-3	Chloroform	MS	REC	90	%	70-130
JD51834-4MS*	74-87-3	Chloromethane	MS	REC	105	%	70-130
JD51834-4MS*	124-48-1	Dibromochloromethane	MS	REC	94	%	70-130
JD51834-4MS*	95-50-1	1,2-Dichlorobenzene	MS	REC	97	%	70-130
JD51834-4MS*	541-73-1	1,3-Dichlorobenzene	MS	REC	95	%	70-130
JD51834-4MS*	106-46-7	1,4-Dichlorobenzene	MS	REC	89	%	70-130
JD51834-4MS*	75-71-8	Dichlorodifluoromethane	MS	REC	98	%	70-130
JD51834-4MS*	75-34-3	1,1-Dichloroethane	MS	REC	98	%	70-130
JD51834-4MS*	107-06-2	1,2-Dichloroethane	MS	REC	84	%	70-130
JD51834-4MS*	75-35-4	1,1-Dichloroethene	MS	REC	91	%	70-130
JD51834-4MS*	156-59-2	cis-1,2-Dichloroethene	MS	REC	93	%	70-130
JD51834-4MS*	156-60-5	trans-1,2-Dichloroethene	MS	REC	91	%	70-130
JD51834-4MS*	78-87-5	1,2-Dichloropropane	MS	REC	97	%	70-130
JD51834-4MS*	10061-01-5	cis-1,3-Dichloropropene	MS	REC	95	%	70-130
JD51834-4MS*	10061-02-6	trans-1,3-Dichloropropene	MS	REC	95	%	70-130
JD51834-4MS*	100-41-4	Ethylbenzene	MS	REC	95	%	70-130
JD51834-4MS*	75-09-2	Methylene chloride	MS	REC	95	%	70-130
JD51834-4MS*	79-34-5	1,1,2,2-Tetrachloroethane	MS	REC	104	%	70-130
JD51834-4MS*	127-18-4	Tetrachloroethene	MS	REC	93	%	70-130
JD51834-4MS*	108-88-3	Toluene	MS	REC	94	%	70-130
JD51834-4MS*	71-55-6	1,1,1-Trichloroethane	MS	REC	92	%	70-130
JD51834-4MS*	79-00-5	1,1,2-Trichloroethane	MS	REC	100	%	70-130
JD51834-4MS*	79-01-6	Trichloroethene	MS	REC	101	%	70-130
JD51834-4MS*	75-69-4	Trichlorofluoromethane	MS	REC	109	%	70-130
JD51834-4MS*	75-01-4	Vinyl chloride	MS	REC	105	%	70-130
JD51834-4MS*	1330-20-7	Xylenes (total)	MS	REC	97	%	70-130
JD51834-4MS*	17060-07-0	1,2-Dichloroethane-D4 (SUR)	MS	SURR	84	%	70-130
JD51834-4MS*	2037-26-5	Toluene-D8 (SUR)	MS	SURR	97	%	70-130
JD51834-4MS*	460-00-4	4-Bromofluorobenzene (SUR)	MS	SURR	101	%	70-130
JD51834-4MS*	1868-53-7	Dibromofluoromethane (S)	MS	SURR	98	%	70-130
JD51834-4MSD*	107-02-8	Acrolein	MSD	REC	0 [a]	%	70-130
JD51834-4MSD*	107-02-8	Acrolein	MSD	RPD	0	%	30
JD51834-4MSD*	107-13-1	Acrylonitrile	MSD	REC	128	%	70-130
JD51834-4MSD*	107-13-1	Acrylonitrile	MSD	RPD	7	%	30
JD51834-4MSD*	71-43-2	Benzene	MSD	REC	91	%	70-130
JD51834-4MSD*	71-43-2	Benzene	MSD	RPD	1	%	30
JD51834-4MSD*	75-27-4	Bromodichloromethane	MSD	REC	89	%	70-130

* Sample used for QC is not from job JD51497

QC Evaluation: Honeywell Limits

Job Number: JD51497
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/07/22 thru 09/14/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD51834-4MSD*	75-27-4	Bromodichloromethane	MSD	RPD	0	%	30
JD51834-4MSD*	75-25-2	Bromoform	MSD	REC	90	%	70-130
JD51834-4MSD*	75-25-2	Bromoform	MSD	RPD	1	%	30
JD51834-4MSD*	74-83-9	Bromomethane	MSD	REC	98	%	70-130
JD51834-4MSD*	74-83-9	Bromomethane	MSD	RPD	10	%	30
JD51834-4MSD*	56-23-5	Carbon tetrachloride	MSD	REC	92	%	70-130
JD51834-4MSD*	56-23-5	Carbon tetrachloride	MSD	RPD	1	%	30
JD51834-4MSD*	108-90-7	Chlorobenzene	MSD	REC	97	%	70-130
JD51834-4MSD*	108-90-7	Chlorobenzene	MSD	RPD	1	%	30
JD51834-4MSD*	75-00-3	Chloroethane	MSD	REC	122	%	70-130
JD51834-4MSD*	75-00-3	Chloroethane	MSD	RPD	1	%	30
JD51834-4MSD*	110-75-8	2-Chloroethyl vinyl ether	MSD	REC	145	%	70-130
JD51834-4MSD*	110-75-8	2-Chloroethyl vinyl ether	MSD	RPD	1	%	30
JD51834-4MSD*	67-66-3	Chloroform	MSD	REC	90	%	70-130
JD51834-4MSD*	67-66-3	Chloroform	MSD	RPD	0	%	30
JD51834-4MSD*	74-87-3	Chloromethane	MSD	REC	107	%	70-130
JD51834-4MSD*	74-87-3	Chloromethane	MSD	RPD	1	%	30
JD51834-4MSD*	124-48-1	Dibromochloromethane	MSD	REC	94	%	70-130
JD51834-4MSD*	124-48-1	Dibromochloromethane	MSD	RPD	0	%	30
JD51834-4MSD*	95-50-1	1,2-Dichlorobenzene	MSD	REC	96	%	70-130
JD51834-4MSD*	95-50-1	1,2-Dichlorobenzene	MSD	RPD	1	%	30
JD51834-4MSD*	541-73-1	1,3-Dichlorobenzene	MSD	REC	94	%	70-130
JD51834-4MSD*	541-73-1	1,3-Dichlorobenzene	MSD	RPD	1	%	30
JD51834-4MSD*	106-46-7	1,4-Dichlorobenzene	MSD	REC	89	%	70-130
JD51834-4MSD*	106-46-7	1,4-Dichlorobenzene	MSD	RPD	0	%	30
JD51834-4MSD*	75-71-8	Dichlorodifluoromethane	MSD	REC	98	%	70-130
JD51834-4MSD*	75-71-8	Dichlorodifluoromethane	MSD	RPD	0	%	30
JD51834-4MSD*	75-34-3	1,1-Dichloroethane	MSD	REC	97	%	70-130
JD51834-4MSD*	75-34-3	1,1-Dichloroethane	MSD	RPD	1	%	30
JD51834-4MSD*	107-06-2	1,2-Dichloroethane	MSD	REC	84	%	70-130
JD51834-4MSD*	107-06-2	1,2-Dichloroethane	MSD	RPD	1	%	30
JD51834-4MSD*	75-35-4	1,1-Dichloroethene	MSD	REC	92	%	70-130
JD51834-4MSD*	75-35-4	1,1-Dichloroethene	MSD	RPD	1	%	30
JD51834-4MSD*	156-59-2	cis-1,2-Dichloroethene	MSD	REC	93	%	70-130
JD51834-4MSD*	156-59-2	cis-1,2-Dichloroethene	MSD	RPD	1	%	30
JD51834-4MSD*	156-60-5	trans-1,2-Dichloroethene	MSD	REC	92	%	70-130
JD51834-4MSD*	156-60-5	trans-1,2-Dichloroethene	MSD	RPD	1	%	30
JD51834-4MSD*	78-87-5	1,2-Dichloropropane	MSD	REC	96	%	70-130
JD51834-4MSD*	78-87-5	1,2-Dichloropropane	MSD	RPD	1	%	30
JD51834-4MSD*	10061-01-5	cis-1,3-Dichloropropene	MSD	REC	95	%	70-130
JD51834-4MSD*	10061-01-5	cis-1,3-Dichloropropene	MSD	RPD	1	%	30
JD51834-4MSD*	10061-02-6	trans-1,3-Dichloropropene	MSD	REC	95	%	70-130
JD51834-4MSD*	10061-02-6	trans-1,3-Dichloropropene	MSD	RPD	1	%	30
JD51834-4MSD*	100-41-4	Ethylbenzene	MSD	REC	96	%	70-130
JD51834-4MSD*	100-41-4	Ethylbenzene	MSD	RPD	1	%	30

* Sample used for QC is not from job JD51497

QC Evaluation: Honeywell Limits

Job Number: JD51497
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/07/22 thru 09/14/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD51834-4MSD*	75-09-2	Methylene chloride	MSD	REC	94	%	70-130
JD51834-4MSD*	75-09-2	Methylene chloride	MSD	RPD	1	%	30
JD51834-4MSD*	79-34-5	1,1,2,2-Tetrachloroethane	MSD	REC	103	%	70-130
JD51834-4MSD*	79-34-5	1,1,2,2-Tetrachloroethane	MSD	RPD	1	%	30
JD51834-4MSD*	127-18-4	Tetrachloroethene	MSD	REC	93	%	70-130
JD51834-4MSD*	127-18-4	Tetrachloroethene	MSD	RPD	1	%	30
JD51834-4MSD*	108-88-3	Toluene	MSD	REC	93	%	70-130
JD51834-4MSD*	108-88-3	Toluene	MSD	RPD	1	%	30
JD51834-4MSD*	71-55-6	1,1,1-Trichloroethane	MSD	REC	91	%	70-130
JD51834-4MSD*	71-55-6	1,1,1-Trichloroethane	MSD	RPD	1	%	30
JD51834-4MSD*	79-00-5	1,1,2-Trichloroethane	MSD	REC	100	%	70-130
JD51834-4MSD*	79-00-5	1,1,2-Trichloroethane	MSD	RPD	0	%	30
JD51834-4MSD*	79-01-6	Trichloroethene	MSD	REC	100	%	70-130
JD51834-4MSD*	79-01-6	Trichloroethene	MSD	RPD	0	%	30
JD51834-4MSD*	75-69-4	Trichlorofluoromethane	MSD	REC	110	%	70-130
JD51834-4MSD*	75-69-4	Trichlorofluoromethane	MSD	RPD	0	%	30
JD51834-4MSD*	75-01-4	Vinyl chloride	MSD	REC	106	%	70-130
JD51834-4MSD*	75-01-4	Vinyl chloride	MSD	RPD	0	%	30
JD51834-4MSD*	1330-20-7	Xylenes (total)	MSD	REC	97	%	70-130
JD51834-4MSD*	1330-20-7	Xylenes (total)	MSD	RPD	0	%	30
JD51834-4MSD*	17060-07-0	1,2-Dichloroethane-D4 (SUR)	MSD	SURR	84	%	70-130
JD51834-4MSD*	2037-26-5	Toluene-D8 (SUR)	MSD	SURR	97	%	70-130
JD51834-4MSD*	460-00-4	4-Bromofluorobenzene (SUR)	MSD	SURR	102	%	70-130
JD51834-4MSD*	1868-53-7	Dibromofluoromethane (S)	MSD	SURR	99	%	70-130
V4D5383-MB	17060-07-0	1,2-Dichloroethane-D4 (SUR)	MB	SURR	87	%	70-130
V4D5383-MB	2037-26-5	Toluene-D8 (SUR)	MB	SURR	101	%	70-130
V4D5383-MB	460-00-4	4-Bromofluorobenzene (SUR)	MB	SURR	100	%	70-130
V4D5383-MB	1868-53-7	Dibromofluoromethane (S)	MB	SURR	98	%	70-130
JD51497-1	17060-07-0	1,2-Dichloroethane-D4 (SUR)	SAMP	SURR	88	%	70-130
JD51497-1	2037-26-5	Toluene-D8 (SUR)	SAMP	SURR	100	%	70-130
JD51497-1	460-00-4	4-Bromofluorobenzene (SUR)	SAMP	SURR	99	%	70-130
JD51497-1	1868-53-7	Dibromofluoromethane (S)	SAMP	SURR	99	%	70-130
VN12551	EPA 624.1						
VN12551-BS	107-02-8	Acrolein	BSP	REC	86	%	70-130
VN12551-BS	107-13-1	Acrylonitrile	BSP	REC	94	%	70-130
VN12551-BS	71-43-2	Benzene	BSP	REC	90	%	70-130
VN12551-BS	75-27-4	Bromodichloromethane	BSP	REC	96	%	70-130
VN12551-BS	75-25-2	Bromoform	BSP	REC	111	%	70-130
VN12551-BS	74-83-9	Bromomethane	BSP	REC	110	%	70-130
VN12551-BS	56-23-5	Carbon tetrachloride	BSP	REC	99	%	70-130
VN12551-BS	108-90-7	Chlorobenzene	BSP	REC	86	%	70-130
VN12551-BS	75-00-3	Chloroethane	BSP	REC	107	%	70-130
VN12551-BS	110-75-8	2-Chloroethyl vinyl ether	BSP	REC	87	%	70-130

* Sample used for QC is not from job JD51497

QC Evaluation: Honeywell Limits

Job Number: JD51497
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/07/22 thru 09/14/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
VN12551-BS	67-66-3	Chloroform	BSP	REC	93	%	70-130
VN12551-BS	74-87-3	Chloromethane	BSP	REC	113	%	70-130
VN12551-BS	124-48-1	Dibromochloromethane	BSP	REC	100	%	70-130
VN12551-BS	95-50-1	1,2-Dichlorobenzene	BSP	REC	89	%	70-130
VN12551-BS	541-73-1	1,3-Dichlorobenzene	BSP	REC	89	%	70-130
VN12551-BS	106-46-7	1,4-Dichlorobenzene	BSP	REC	91	%	70-130
VN12551-BS	75-71-8	Dichlorodifluoromethane	BSP	REC	84	%	70-130
VN12551-BS	75-34-3	1,1-Dichloroethane	BSP	REC	92	%	70-130
VN12551-BS	107-06-2	1,2-Dichloroethane	BSP	REC	96	%	70-130
VN12551-BS	75-35-4	1,1-Dichloroethene	BSP	REC	87	%	70-130
VN12551-BS	156-59-2	cis-1,2-Dichloroethene	BSP	REC	86	%	70-130
VN12551-BS	156-60-5	trans-1,2-Dichloroethene	BSP	REC	82	%	70-130
VN12551-BS	78-87-5	1,2-Dichloropropane	BSP	REC	90	%	70-130
VN12551-BS	10061-01-5	cis-1,3-Dichloropropene	BSP	REC	79	%	70-130
VN12551-BS	10061-02-6	trans-1,3-Dichloropropene	BSP	REC	89	%	70-130
VN12551-BS	100-41-4	Ethylbenzene	BSP	REC	89	%	70-130
VN12551-BS	75-09-2	Methylene chloride	BSP	REC	95	%	70-130
VN12551-BS	79-34-5	1,1,2,2-Tetrachloroethane	BSP	REC	90	%	70-130
VN12551-BS	127-18-4	Tetrachloroethene	BSP	REC	99	%	70-130
VN12551-BS	108-88-3	Toluene	BSP	REC	89	%	70-130
VN12551-BS	71-55-6	1,1,1-Trichloroethane	BSP	REC	94	%	70-130
VN12551-BS	79-00-5	1,1,2-Trichloroethane	BSP	REC	92	%	70-130
VN12551-BS	79-01-6	Trichloroethene	BSP	REC	83	%	70-130
VN12551-BS	75-69-4	Trichlorofluoromethane	BSP	REC	111	%	70-130
VN12551-BS	75-01-4	Vinyl chloride	BSP	REC	113	%	70-130
VN12551-BS	1330-20-7	Xylenes (total)	BSP	REC	89	%	70-130
VN12551-BS	17060-07-0	1,2-Dichloroethane-D4 (SUR)	BSP	SURR	118	%	70-130
VN12551-BS	2037-26-5	Toluene-D8 (SUR)	BSP	SURR	106	%	70-130
VN12551-BS	460-00-4	4-Bromofluorobenzene (SUR)	BSP	SURR	84	%	70-130
VN12551-BS	1868-53-7	Dibromofluoromethane (S)	BSP	SURR	108	%	70-130
JD51497-3MS	107-02-8	Acrolein	MS	REC	80	%	70-130
JD51497-3MS	107-13-1	Acrylonitrile	MS	REC	96	%	70-130
JD51497-3MS	71-43-2	Benzene	MS	REC	93	%	70-130
JD51497-3MS	75-27-4	Bromodichloromethane	MS	REC	98	%	70-130
JD51497-3MS	75-25-2	Bromoform	MS	REC	111	%	70-130
JD51497-3MS	74-83-9	Bromomethane	MS	REC	81	%	70-130
JD51497-3MS	56-23-5	Carbon tetrachloride	MS	REC	87	%	70-130
JD51497-3MS	108-90-7	Chlorobenzene	MS	REC	91	%	70-130
JD51497-3MS	75-00-3	Chloroethane	MS	REC	75	%	70-130
JD51497-3MS	110-75-8	2-Chloroethyl vinyl ether	MS	REC	97	%	70-130
JD51497-3MS	67-66-3	Chloroform	MS	REC	97	%	70-130
JD51497-3MS	74-87-3	Chloromethane	MS	REC	85	%	70-130
JD51497-3MS	124-48-1	Dibromochloromethane	MS	REC	101	%	70-130
JD51497-3MS	95-50-1	1,2-Dichlorobenzene	MS	REC	90	%	70-130
JD51497-3MS	541-73-1	1,3-Dichlorobenzene	MS	REC	91	%	70-130

* Sample used for QC is not from job JD51497

QC Evaluation: Honeywell Limits

Job Number: JD51497
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/07/22 thru 09/14/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD51497-3MS	106-46-7	1,4-Dichlorobenzene	MS	REC	90	%	70-130
JD51497-3MS	75-71-8	Dichlorodifluoromethane	MS	REC	43	%	70-130
JD51497-3MS	75-34-3	1,1-Dichloroethane	MS	REC	96	%	70-130
JD51497-3MS	107-06-2	1,2-Dichloroethane	MS	REC	101	%	70-130
JD51497-3MS	75-35-4	1,1-Dichloroethene	MS	REC	81	%	70-130
JD51497-3MS	156-59-2	cis-1,2-Dichloroethene	MS	REC	90	%	70-130
JD51497-3MS	156-60-5	trans-1,2-Dichloroethene	MS	REC	85	%	70-130
JD51497-3MS	78-87-5	1,2-Dichloropropane	MS	REC	93	%	70-130
JD51497-3MS	10061-01-5	cis-1,3-Dichloropropene	MS	REC	82	%	70-130
JD51497-3MS	10061-02-6	trans-1,3-Dichloropropene	MS	REC	90	%	70-130
JD51497-3MS	100-41-4	Ethylbenzene	MS	REC	88	%	70-130
JD51497-3MS	75-09-2	Methylene chloride	MS	REC	98	%	70-130
JD51497-3MS	79-34-5	1,1,2,2-Tetrachloroethane	MS	REC	95	%	70-130
JD51497-3MS	127-18-4	Tetrachloroethene	MS	REC	89	%	70-130
JD51497-3MS	108-88-3	Toluene	MS	REC	87	%	70-130
JD51497-3MS	71-55-6	1,1,1-Trichloroethane	MS	REC	86	%	70-130
JD51497-3MS	79-00-5	1,1,2-Trichloroethane	MS	REC	98	%	70-130
JD51497-3MS	79-01-6	Trichloroethene	MS	REC	82	%	70-130
JD51497-3MS	75-69-4	Trichlorofluoromethane	MS	REC	65	%	70-130
JD51497-3MS	75-01-4	Vinyl chloride	MS	REC	78	%	70-130
JD51497-3MS	1330-20-7	Xylenes (total)	MS	REC	87	%	70-130
JD51497-3MS	17060-07-0	1,2-Dichloroethane-D4 (SUR)	MS	SURR	118	%	70-130
JD51497-3MS	2037-26-5	Toluene-D8 (SUR)	MS	SURR	102	%	70-130
JD51497-3MS	460-00-4	4-Bromofluorobenzene (SUR)	MS	SURR	88	%	70-130
JD51497-3MS	1868-53-7	Dibromofluoromethane (S)	MS	SURR	109	%	70-130
JD51497-3MSD	107-02-8	Acrolein	MSD	REC	95	%	70-130
JD51497-3MSD	107-02-8	Acrolein	MSD	RPD	17	%	30
JD51497-3MSD	107-13-1	Acrylonitrile	MSD	REC	111	%	70-130
JD51497-3MSD	107-13-1	Acrylonitrile	MSD	RPD	15	%	30
JD51497-3MSD	71-43-2	Benzene	MSD	REC	96	%	70-130
JD51497-3MSD	71-43-2	Benzene	MSD	RPD	3	%	30
JD51497-3MSD	75-27-4	Bromodichloromethane	MSD	REC	110	%	70-130
JD51497-3MSD	75-27-4	Bromodichloromethane	MSD	RPD	12	%	30
JD51497-3MSD	75-25-2	Bromoform	MSD	REC	125	%	70-130
JD51497-3MSD	75-25-2	Bromoform	MSD	RPD	11	%	30
JD51497-3MSD	74-83-9	Bromomethane	MSD	REC	102	%	70-130
JD51497-3MSD	74-83-9	Bromomethane	MSD	RPD	23	%	30
JD51497-3MSD	56-23-5	Carbon tetrachloride	MSD	REC	97	%	70-130
JD51497-3MSD	56-23-5	Carbon tetrachloride	MSD	RPD	11	%	30
JD51497-3MSD	108-90-7	Chlorobenzene	MSD	REC	111	%	70-130
JD51497-3MSD	108-90-7	Chlorobenzene	MSD	RPD	4	%	30
JD51497-3MSD	75-00-3	Chloroethane	MSD	REC	98	%	70-130
JD51497-3MSD	75-00-3	Chloroethane	MSD	RPD	26	%	30
JD51497-3MSD	110-75-8	2-Chloroethyl vinyl ether	MSD	REC	110	%	70-130
JD51497-3MSD	110-75-8	2-Chloroethyl vinyl ether	MSD	RPD	12	%	30

* Sample used for QC is not from job JD51497

QC Evaluation: Honeywell Limits

Job Number: JD51497
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/07/22 thru 09/14/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD51497-3MSD	67-66-3	Chloroform	MSD	REC	101	%	70-130
JD51497-3MSD	67-66-3	Chloroform	MSD	RPD	4	%	30
JD51497-3MSD	74-87-3	Chloromethane	MSD	REC	112	%	70-130
JD51497-3MSD	74-87-3	Chloromethane	MSD	RPD	27	%	30
JD51497-3MSD	124-48-1	Dibromochloromethane	MSD	REC	110	%	70-130
JD51497-3MSD	124-48-1	Dibromochloromethane	MSD	RPD	9	%	30
JD51497-3MSD	95-50-1	1,2-Dichlorobenzene	MSD	REC	102	%	70-130
JD51497-3MSD	95-50-1	1,2-Dichlorobenzene	MSD	RPD	12	%	30
JD51497-3MSD	541-73-1	1,3-Dichlorobenzene	MSD	REC	103	%	70-130
JD51497-3MSD	541-73-1	1,3-Dichlorobenzene	MSD	RPD	12	%	30
JD51497-3MSD	106-46-7	1,4-Dichlorobenzene	MSD	REC	102	%	70-130
JD51497-3MSD	106-46-7	1,4-Dichlorobenzene	MSD	RPD	12	%	30
JD51497-3MSD	75-71-8	Dichlorodifluoromethane	MSD	REC	58	%	70-130
JD51497-3MSD	75-71-8	Dichlorodifluoromethane	MSD	RPD	29 [a]	%	30
JD51497-3MSD	75-34-3	1,1-Dichloroethane	MSD	REC	105	%	70-130
JD51497-3MSD	75-34-3	1,1-Dichloroethane	MSD	RPD	9	%	30
JD51497-3MSD	107-06-2	1,2-Dichloroethane	MSD	REC	112	%	70-130
JD51497-3MSD	107-06-2	1,2-Dichloroethane	MSD	RPD	10	%	30
JD51497-3MSD	75-35-4	1,1-Dichloroethene	MSD	REC	93	%	70-130
JD51497-3MSD	75-35-4	1,1-Dichloroethene	MSD	RPD	13	%	30
JD51497-3MSD	156-59-2	cis-1,2-Dichloroethene	MSD	REC	95	%	70-130
JD51497-3MSD	156-59-2	cis-1,2-Dichloroethene	MSD	RPD	5	%	30
JD51497-3MSD	156-60-5	trans-1,2-Dichloroethene	MSD	REC	94	%	70-130
JD51497-3MSD	156-60-5	trans-1,2-Dichloroethene	MSD	RPD	10	%	30
JD51497-3MSD	78-87-5	1,2-Dichloropropane	MSD	REC	103	%	70-130
JD51497-3MSD	78-87-5	1,2-Dichloropropane	MSD	RPD	10	%	30
JD51497-3MSD	10061-01-5	cis-1,3-Dichloropropene	MSD	REC	94	%	70-130
JD51497-3MSD	10061-01-5	cis-1,3-Dichloropropene	MSD	RPD	14	%	30
JD51497-3MSD	10061-02-6	trans-1,3-Dichloropropene	MSD	REC	101	%	70-130
JD51497-3MSD	10061-02-6	trans-1,3-Dichloropropene	MSD	RPD	11	%	30
JD51497-3MSD	100-41-4	Ethylbenzene	MSD	REC	96	%	70-130
JD51497-3MSD	100-41-4	Ethylbenzene	MSD	RPD	8	%	30
JD51497-3MSD	75-09-2	Methylene chloride	MSD	REC	115	%	70-130
JD51497-3MSD	75-09-2	Methylene chloride	MSD	RPD	16	%	30
JD51497-3MSD	79-34-5	1,1,2,2-Tetrachloroethane	MSD	REC	105	%	70-130
JD51497-3MSD	79-34-5	1,1,2,2-Tetrachloroethane	MSD	RPD	10	%	30
JD51497-3MSD	127-18-4	Tetrachloroethene	MSD	REC	95	%	70-130
JD51497-3MSD	127-18-4	Tetrachloroethene	MSD	RPD	7	%	30
JD51497-3MSD	108-88-3	Toluene	MSD	REC	91	%	70-130
JD51497-3MSD	108-88-3	Toluene	MSD	RPD	5	%	30
JD51497-3MSD	71-55-6	1,1,1-Trichloroethane	MSD	REC	99	%	70-130
JD51497-3MSD	71-55-6	1,1,1-Trichloroethane	MSD	RPD	14	%	30
JD51497-3MSD	79-00-5	1,1,2-Trichloroethane	MSD	REC	101	%	70-130
JD51497-3MSD	79-00-5	1,1,2-Trichloroethane	MSD	RPD	3	%	30
JD51497-3MSD	79-01-6	Trichloroethene	MSD	REC	86	%	70-130

* Sample used for QC is not from job JD51497

QC Evaluation: Honeywell Limits

Job Number: JD51497
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/07/22 thru 09/14/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD51497-3MSD	79-01-6	Trichloroethene	MSD	RPD	5	%	30
JD51497-3MSD	75-69-4	Trichlorofluoromethane	MSD	REC	85	%	70-130
JD51497-3MSD	75-69-4	Trichlorofluoromethane	MSD	RPD	26	%	30
JD51497-3MSD	75-01-4	Vinyl chloride	MSD	REC	106	%	70-130
JD51497-3MSD	75-01-4	Vinyl chloride	MSD	RPD	30	%	30
JD51497-3MSD	1330-20-7	Xylenes (total)	MSD	REC	94	%	70-130
JD51497-3MSD	1330-20-7	Xylenes (total)	MSD	RPD	8	%	30
JD51497-3MSD	17060-07-0	1,2-Dichloroethane-D4 (SUR)	MSD	SURR	116	%	70-130
JD51497-3MSD	2037-26-5	Toluene-D8 (SUR)	MSD	SURR	100	%	70-130
JD51497-3MSD	460-00-4	4-Bromofluorobenzene (SUR)	MSD	SURR	87	%	70-130
JD51497-3MSD	1868-53-7	Dibromofluoromethane (S)	MSD	SURR	108	%	70-130
VN12551-MB	17060-07-0	1,2-Dichloroethane-D4 (SUR)	MB	SURR	114	%	70-130
VN12551-MB	2037-26-5	Toluene-D8 (SUR)	MB	SURR	99	%	70-130
VN12551-MB	460-00-4	4-Bromofluorobenzene (SUR)	MB	SURR	88	%	70-130
VN12551-MB	1868-53-7	Dibromofluoromethane (S)	MB	SURR	109	%	70-130
JD51497-3	17060-07-0	1,2-Dichloroethane-D4 (SUR)	SAMP	SURR	119	%	70-130
JD51497-3	2037-26-5	Toluene-D8 (SUR)	SAMP	SURR	101	%	70-130
JD51497-3	460-00-4	4-Bromofluorobenzene (SUR)	SAMP	SURR	90	%	70-130
JD51497-3	1868-53-7	Dibromofluoromethane (S)	SAMP	SURR	107	%	70-130
JD51497-4	17060-07-0	1,2-Dichloroethane-D4 (SUR)	SAMP	SURR	118	%	70-130
JD51497-4	2037-26-5	Toluene-D8 (SUR)	SAMP	SURR	98	%	70-130
JD51497-4	460-00-4	4-Bromofluorobenzene (SUR)	SAMP	SURR	90	%	70-130
JD51497-4	1868-53-7	Dibromofluoromethane (S)	SAMP	SURR	108	%	70-130
OP41784B	EPA 625.1						
OP41784B-BS1	95-57-8	2-Chlorophenol	BSP	REC	67	%	30-130
OP41784B-BS1	59-50-7	4-Chloro-3-methyl phenol	BSP	REC	86	%	30-130
OP41784B-BS1	120-83-2	2,4-Dichlorophenol	BSP	REC	86	%	30-130
OP41784B-BS1	105-67-9	2,4-Dimethylphenol	BSP	REC	76	%	30-130
OP41784B-BS1	51-28-5	2,4-Dinitrophenol	BSP	REC	62	%	30-130
OP41784B-BS1	534-52-1	4,6-Dinitro-o-cresol	BSP	REC	78	%	30-130
OP41784B-BS1	88-75-5	2-Nitrophenol	BSP	REC	73	%	30-130
OP41784B-BS1	100-02-7	4-Nitrophenol	BSP	REC	36	%	30-130
OP41784B-BS1	87-86-5	Pentachlorophenol	BSP	REC	89	%	30-130
OP41784B-BS1	108-95-2	Phenol	BSP	REC	31	%	30-130
OP41784B-BS1	88-06-2	2,4,6-Trichlorophenol	BSP	REC	97	%	30-130
OP41784B-BS1	83-32-9	Acenaphthene	BSP	REC	90	%	40-140
OP41784B-BS1	208-96-8	Acenaphthylene	BSP	REC	108	%	40-140
OP41784B-BS1	120-12-7	Anthracene	BSP	REC	96	%	40-140
OP41784B-BS1	92-87-5	Benzidine	BSP	REC	0 [b]	%	40-140
OP41784B-BS1	56-55-3	Benzo(a)anthracene	BSP	REC	100	%	40-140
OP41784B-BS1	50-32-8	Benzo(a)pyrene	BSP	REC	94	%	40-140
OP41784B-BS1	205-99-2	Benzo(b)fluoranthene	BSP	REC	102	%	40-140
OP41784B-BS1	191-24-2	Benzo(g,h,i)perylene	BSP	REC	101	%	40-140

* Sample used for QC is not from job JD51497

QC Evaluation: Honeywell Limits

Job Number: JD51497
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/07/22 thru 09/14/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP41784B-BS1	207-08-9	Benzo(k)fluoranthene	BSP	REC	101	%	40-140
OP41784B-BS1	101-55-3	4-Bromophenyl phenyl ether	BSP	REC	102	%	40-140
OP41784B-BS1	85-68-7	Butyl benzyl phthalate	BSP	REC	99	%	40-140
OP41784B-BS1	91-58-7	2-Chloronaphthalene	BSP	REC	82	%	40-140
OP41784B-BS1	106-47-8	4-Chloroaniline	BSP	REC	64	%	40-140
OP41784B-BS1	218-01-9	Chrysene	BSP	REC	94	%	40-140
OP41784B-BS1	111-91-1	bis(2-Chloroethoxy)methane	BSP	REC	84	%	40-140
OP41784B-BS1	111-44-4	bis(2-Chloroethyl)ether	BSP	REC	75	%	40-140
OP41784B-BS1	108-60-1	2,2'-Oxybis(1-chloropropane)	BSP	REC	76	%	40-140
OP41784B-BS1	7005-72-3	4-Chlorophenyl phenyl ether	BSP	REC	88	%	40-140
OP41784B-BS1	95-50-1	1,2-Dichlorobenzene	BSP	REC	62	%	40-140
OP41784B-BS1	122-66-7	1,2-Diphenylhydrazine	BSP	REC	100	%	40-140
OP41784B-BS1	541-73-1	1,3-Dichlorobenzene	BSP	REC	59	%	40-140
OP41784B-BS1	106-46-7	1,4-Dichlorobenzene	BSP	REC	60	%	40-140
OP41784B-BS1	121-14-2	2,4-Dinitrotoluene	BSP	REC	90	%	40-140
OP41784B-BS1	606-20-2	2,6-Dinitrotoluene	BSP	REC	91	%	40-140
OP41784B-BS1	91-94-1	3,3'-Dichlorobenzidine	BSP	REC	42	%	40-140
OP41784B-BS1	53-70-3	Dibenzo(a,h)anthracene	BSP	REC	103	%	40-140
OP41784B-BS1	84-74-2	Di-n-butyl phthalate	BSP	REC	104	%	40-140
OP41784B-BS1	117-84-0	Di-n-octyl phthalate	BSP	REC	93	%	40-140
OP41784B-BS1	84-66-2	Diethyl phthalate	BSP	REC	93	%	40-140
OP41784B-BS1	131-11-3	Dimethyl phthalate	BSP	REC	93	%	40-140
OP41784B-BS1	117-81-7	bis(2-Ethylhexyl)phthalate	BSP	REC	97	%	40-140
OP41784B-BS1	206-44-0	Fluoranthene	BSP	REC	93	%	40-140
OP41784B-BS1	86-73-7	Fluorene	BSP	REC	90	%	40-140
OP41784B-BS1	118-74-1	Hexachlorobenzene	BSP	REC	96	%	40-140
OP41784B-BS1	87-68-3	Hexachlorobutadiene	BSP	REC	59	%	40-140
OP41784B-BS1	77-47-4	Hexachlorocyclopentadiene	BSP	REC	70	%	40-140
OP41784B-BS1	67-72-1	Hexachloroethane	BSP	REC	57	%	40-140
OP41784B-BS1	193-39-5	Indeno(1,2,3-cd)pyrene	BSP	REC	102	%	40-140
OP41784B-BS1	78-59-1	Isophorone	BSP	REC	85	%	40-140
OP41784B-BS1	91-20-3	Naphthalene	BSP	REC	70	%	40-140
OP41784B-BS1	98-95-3	Nitrobenzene	BSP	REC	81	%	40-140
OP41784B-BS1	62-75-9	n-Nitrosodimethylamine	BSP	REC	45	%	40-140
OP41784B-BS1	621-64-7	N-Nitroso-di-n-propylamine	BSP	REC	78	%	40-140
OP41784B-BS1	86-30-6	N-Nitrosodiphenylamine	BSP	REC	105	%	40-140
OP41784B-BS1	85-01-8	Phenanthrene	BSP	REC	94	%	40-140
OP41784B-BS1	129-00-0	Pyrene	BSP	REC	113 [b]	%	40-140
OP41784B-BS1	120-82-1	1,2,4-Trichlorobenzene	BSP	REC	66	%	40-140
OP41784B-BS1	367-12-4	2-Fluorophenol	BSP	SURR	42	%	15-110
OP41784B-BS1	4165-62-2	Phenol-d5	BSP	SURR	29	%	15-110
OP41784B-BS1	118-79-6	2,4,6-Tribromophenol	BSP	SURR	104	%	15-110
OP41784B-BS1	4165-60-0	Nitrobenzene-d5	BSP	SURR	82	%	30-130
OP41784B-BS1	321-60-8	2-Fluorobiphenyl	BSP	SURR	93	%	30-130
OP41784B-BS1	1718-51-0	Terphenyl-d14	BSP	SURR	110	%	30-130

* Sample used for QC is not from job JD51497

QC Evaluation: Honeywell Limits

Job Number: JD51497
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/07/22 thru 09/14/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP41784B-BSD	95-57-8	2-Chlorophenol	BSD	REC	63	%	30-130
OP41784B-BSD	95-57-8	2-Chlorophenol	BSD	RPD	6	%	20
OP41784B-BSD	59-50-7	4-Chloro-3-methyl phenol	BSD	REC	76	%	30-130
OP41784B-BSD	59-50-7	4-Chloro-3-methyl phenol	BSD	RPD	12	%	20
OP41784B-BSD	120-83-2	2,4-Dichlorophenol	BSD	REC	76	%	30-130
OP41784B-BSD	120-83-2	2,4-Dichlorophenol	BSD	RPD	13	%	20
OP41784B-BSD	105-67-9	2,4-Dimethylphenol	BSD	REC	63	%	30-130
OP41784B-BSD	105-67-9	2,4-Dimethylphenol	BSD	RPD	18	%	20
OP41784B-BSD	51-28-5	2,4-Dinitrophenol	BSD	REC	68	%	30-130
OP41784B-BSD	51-28-5	2,4-Dinitrophenol	BSD	RPD	10	%	20
OP41784B-BSD	534-52-1	4,6-Dinitro-o-cresol	BSD	REC	81	%	30-130
OP41784B-BSD	534-52-1	4,6-Dinitro-o-cresol	BSD	RPD	4	%	20
OP41784B-BSD	88-75-5	2-Nitrophenol	BSD	REC	72	%	30-130
OP41784B-BSD	88-75-5	2-Nitrophenol	BSD	RPD	2	%	20
OP41784B-BSD	100-02-7	4-Nitrophenol	BSD	REC	35	%	30-130
OP41784B-BSD	100-02-7	4-Nitrophenol	BSD	RPD	3	%	20
OP41784B-BSD	87-86-5	Pentachlorophenol	BSD	REC	89	%	30-130
OP41784B-BSD	87-86-5	Pentachlorophenol	BSD	RPD	1	%	20
OP41784B-BSD	108-95-2	Phenol	BSD	REC	27	%	30-130
OP41784B-BSD	108-95-2	Phenol	BSD	RPD	11	%	20
OP41784B-BSD	88-06-2	2,4,6-Trichlorophenol	BSD	REC	91	%	30-130
OP41784B-BSD	88-06-2	2,4,6-Trichlorophenol	BSD	RPD	7	%	20
OP41784B-BSD	83-32-9	Acenaphthene	BSD	REC	85	%	40-140
OP41784B-BSD	83-32-9	Acenaphthene	BSD	RPD	7	%	20
OP41784B-BSD	208-96-8	Acenaphthylene	BSD	REC	101	%	40-140
OP41784B-BSD	208-96-8	Acenaphthylene	BSD	RPD	7	%	20
OP41784B-BSD	120-12-7	Anthracene	BSD	REC	93	%	40-140
OP41784B-BSD	120-12-7	Anthracene	BSD	RPD	3	%	20
OP41784B-BSD	92-87-5	Benzidine	BSD	REC	0 [b]	%	40-140
OP41784B-BSD	92-87-5	Benzidine	BSD	RPD	0	%	20
OP41784B-BSD	56-55-3	Benzo(a)anthracene	BSD	REC	97	%	40-140
OP41784B-BSD	56-55-3	Benzo(a)anthracene	BSD	RPD	3	%	20
OP41784B-BSD	50-32-8	Benzo(a)pyrene	BSD	REC	88	%	40-140
OP41784B-BSD	50-32-8	Benzo(a)pyrene	BSD	RPD	7	%	20
OP41784B-BSD	205-99-2	Benzo(b)fluoranthene	BSD	REC	97	%	40-140
OP41784B-BSD	205-99-2	Benzo(b)fluoranthene	BSD	RPD	5	%	20
OP41784B-BSD	191-24-2	Benzo(g,h,i)perylene	BSD	REC	93	%	40-140
OP41784B-BSD	191-24-2	Benzo(g,h,i)perylene	BSD	RPD	8	%	20
OP41784B-BSD	207-08-9	Benzo(k)fluoranthene	BSD	REC	94	%	40-140
OP41784B-BSD	207-08-9	Benzo(k)fluoranthene	BSD	RPD	7	%	20
OP41784B-BSD	101-55-3	4-Bromophenyl phenyl ether	BSD	REC	98	%	40-140
OP41784B-BSD	101-55-3	4-Bromophenyl phenyl ether	BSD	RPD	4	%	20
OP41784B-BSD	85-68-7	Butyl benzyl phthalate	BSD	REC	97	%	40-140
OP41784B-BSD	85-68-7	Butyl benzyl phthalate	BSD	RPD	2	%	20
OP41784B-BSD	91-58-7	2-Chloronaphthalene	BSD	REC	76	%	40-140

* Sample used for QC is not from job JD51497

QC Evaluation: Honeywell Limits

Job Number: JD51497
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/07/22 thru 09/14/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP41784B-BSD	91-58-7	2-Chloronaphthalene	BSD	RPD	8	%	20
OP41784B-BSD	106-47-8	4-Chloroaniline	BSD	REC	54	%	40-140
OP41784B-BSD	106-47-8	4-Chloroaniline	BSD	RPD	17	%	20
OP41784B-BSD	218-01-9	Chrysene	BSD	REC	90	%	40-140
OP41784B-BSD	218-01-9	Chrysene	BSD	RPD	4	%	20
OP41784B-BSD	111-91-1	bis(2-Chloroethoxy)methane	BSD	REC	74	%	40-140
OP41784B-BSD	111-91-1	bis(2-Chloroethoxy)methane	BSD	RPD	12	%	20
OP41784B-BSD	111-44-4	bis(2-Chloroethyl)ether	BSD	REC	68	%	40-140
OP41784B-BSD	111-44-4	bis(2-Chloroethyl)ether	BSD	RPD	9	%	20
OP41784B-BSD	108-60-1	2,2'-Oxybis(1-chloropropane)	BSD	REC	70	%	40-140
OP41784B-BSD	108-60-1	2,2'-Oxybis(1-chloropropane)	BSD	RPD	8	%	20
OP41784B-BSD	7005-72-3	4-Chlorophenyl phenyl ether	BSD	REC	84	%	40-140
OP41784B-BSD	7005-72-3	4-Chlorophenyl phenyl ether	BSD	RPD	5	%	20
OP41784B-BSD	95-50-1	1,2-Dichlorobenzene	BSD	REC	57	%	40-140
OP41784B-BSD	95-50-1	1,2-Dichlorobenzene	BSD	RPD	8	%	20
OP41784B-BSD	122-66-7	1,2-Diphenylhydrazine	BSD	REC	96	%	40-140
OP41784B-BSD	122-66-7	1,2-Diphenylhydrazine	BSD	RPD	3	%	20
OP41784B-BSD	541-73-1	1,3-Dichlorobenzene	BSD	REC	56	%	40-140
OP41784B-BSD	541-73-1	1,3-Dichlorobenzene	BSD	RPD	7	%	20
OP41784B-BSD	106-46-7	1,4-Dichlorobenzene	BSD	REC	56	%	40-140
OP41784B-BSD	106-46-7	1,4-Dichlorobenzene	BSD	RPD	7	%	20
OP41784B-BSD	121-14-2	2,4-Dinitrotoluene	BSD	REC	87	%	40-140
OP41784B-BSD	121-14-2	2,4-Dinitrotoluene	BSD	RPD	3	%	20
OP41784B-BSD	606-20-2	2,6-Dinitrotoluene	BSD	REC	90	%	40-140
OP41784B-BSD	606-20-2	2,6-Dinitrotoluene	BSD	RPD	0	%	20
OP41784B-BSD	91-94-1	3,3'-Dichlorobenzidine	BSD	REC	41	%	40-140
OP41784B-BSD	91-94-1	3,3'-Dichlorobenzidine	BSD	RPD	2	%	20
OP41784B-BSD	53-70-3	Dibenzo(a,h)anthracene	BSD	REC	98	%	40-140
OP41784B-BSD	53-70-3	Dibenzo(a,h)anthracene	BSD	RPD	5	%	20
OP41784B-BSD	84-74-2	Di-n-butyl phthalate	BSD	REC	99	%	40-140
OP41784B-BSD	84-74-2	Di-n-butyl phthalate	BSD	RPD	4	%	20
OP41784B-BSD	117-84-0	Di-n-octyl phthalate	BSD	REC	88	%	40-140
OP41784B-BSD	117-84-0	Di-n-octyl phthalate	BSD	RPD	5	%	20
OP41784B-BSD	84-66-2	Diethyl phthalate	BSD	REC	89	%	40-140
OP41784B-BSD	84-66-2	Diethyl phthalate	BSD	RPD	5	%	20
OP41784B-BSD	131-11-3	Dimethyl phthalate	BSD	REC	88	%	40-140
OP41784B-BSD	131-11-3	Dimethyl phthalate	BSD	RPD	6	%	20
OP41784B-BSD	117-81-7	bis(2-Ethylhexyl)phthalate	BSD	REC	93	%	40-140
OP41784B-BSD	117-81-7	bis(2-Ethylhexyl)phthalate	BSD	RPD	5	%	20
OP41784B-BSD	206-44-0	Fluoranthene	BSD	REC	89	%	40-140
OP41784B-BSD	206-44-0	Fluoranthene	BSD	RPD	5	%	20
OP41784B-BSD	86-73-7	Fluorene	BSD	REC	85	%	40-140
OP41784B-BSD	86-73-7	Fluorene	BSD	RPD	6	%	20
OP41784B-BSD	118-74-1	Hexachlorobenzene	BSD	REC	94	%	40-140
OP41784B-BSD	118-74-1	Hexachlorobenzene	BSD	RPD	2	%	20

* Sample used for QC is not from job JD51497

QC Evaluation: Honeywell Limits

Job Number: JD51497
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/07/22 thru 09/14/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP41784B-BSD	87-68-3	Hexachlorobutadiene	BSD	REC	55	%	40-140
OP41784B-BSD	87-68-3	Hexachlorobutadiene	BSD	RPD	8	%	20
OP41784B-BSD	77-47-4	Hexachlorocyclopentadiene	BSD	REC	65	%	40-140
OP41784B-BSD	77-47-4	Hexachlorocyclopentadiene	BSD	RPD	8	%	20
OP41784B-BSD	67-72-1	Hexachloroethane	BSD	REC	53	%	40-140
OP41784B-BSD	67-72-1	Hexachloroethane	BSD	RPD	6	%	20
OP41784B-BSD	193-39-5	Indeno(1,2,3-cd)pyrene	BSD	REC	94	%	40-140
OP41784B-BSD	193-39-5	Indeno(1,2,3-cd)pyrene	BSD	RPD	8	%	20
OP41784B-BSD	78-59-1	Isophorone	BSD	REC	75	%	40-140
OP41784B-BSD	78-59-1	Isophorone	BSD	RPD	13	%	20
OP41784B-BSD	91-20-3	Naphthalene	BSD	REC	64	%	40-140
OP41784B-BSD	91-20-3	Naphthalene	BSD	RPD	9	%	20
OP41784B-BSD	98-95-3	Nitrobenzene	BSD	REC	77	%	40-140
OP41784B-BSD	98-95-3	Nitrobenzene	BSD	RPD	6	%	20
OP41784B-BSD	62-75-9	n-Nitrosodimethylamine	BSD	REC	40	%	40-140
OP41784B-BSD	62-75-9	n-Nitrosodimethylamine	BSD	RPD	13	%	20
OP41784B-BSD	621-64-7	N-Nitroso-di-n-propylamine	BSD	REC	68	%	40-140
OP41784B-BSD	621-64-7	N-Nitroso-di-n-propylamine	BSD	RPD	13	%	20
OP41784B-BSD	86-30-6	N-Nitrosodiphenylamine	BSD	REC	101	%	40-140
OP41784B-BSD	86-30-6	N-Nitrosodiphenylamine	BSD	RPD	4	%	20
OP41784B-BSD	85-01-8	Phenanthrene	BSD	REC	90	%	40-140
OP41784B-BSD	85-01-8	Phenanthrene	BSD	RPD	5	%	20
OP41784B-BSD	129-00-0	Pyrene	BSD	REC	110	%	40-140
OP41784B-BSD	129-00-0	Pyrene	BSD	RPD	3	%	20
OP41784B-BSD	120-82-1	1,2,4-Trichlorobenzene	BSD	REC	60	%	40-140
OP41784B-BSD	120-82-1	1,2,4-Trichlorobenzene	BSD	RPD	9	%	20
OP41784B-BSD	367-12-4	2-Fluorophenol	BSD	SURR	40	%	15-110
OP41784B-BSD	4165-62-2	Phenol-d5	BSD	SURR	26	%	15-110
OP41784B-BSD	118-79-6	2,4,6-Tribromophenol	BSD	SURR	102	%	15-110
OP41784B-BSD	4165-60-0	Nitrobenzene-d5	BSD	SURR	78	%	30-130
OP41784B-BSD	321-60-8	2-Fluorobiphenyl	BSD	SURR	87	%	30-130
OP41784B-BSD	1718-51-0	Terphenyl-d14	BSD	SURR	107	%	30-130
OP41784B-MB1	367-12-4	2-Fluorophenol	MB	SURR	37	%	15-110
OP41784B-MB1	4165-62-2	Phenol-d5	MB	SURR	25	%	15-110
OP41784B-MB1	118-79-6	2,4,6-Tribromophenol	MB	SURR	63	%	15-110
OP41784B-MB1	4165-60-0	Nitrobenzene-d5	MB	SURR	71	%	30-130
OP41784B-MB1	321-60-8	2-Fluorobiphenyl	MB	SURR	76	%	30-130
OP41784B-MB1	1718-51-0	Terphenyl-d14	MB	SURR	78	%	30-130
JD51497-1	367-12-4	2-Fluorophenol	SAMP	SURR	32	%	15-110
JD51497-1	4165-62-2	Phenol-d5	SAMP	SURR	22	%	15-110
JD51497-1	118-79-6	2,4,6-Tribromophenol	SAMP	SURR	103	%	15-110
JD51497-1	4165-60-0	Nitrobenzene-d5	SAMP	SURR	72	%	30-130
JD51497-1	321-60-8	2-Fluorobiphenyl	SAMP	SURR	78	%	30-130
JD51497-1	1718-51-0	Terphenyl-d14	SAMP	SURR	43	%	30-130

* Sample used for QC is not from job JD51497

QC Evaluation: Honeywell Limits

Job Number: JD51497
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/07/22 thru 09/14/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits

(a) Outside control limits due to matrix interference.
(b) Outside of in house control limits.

* Sample used for QC is not from job JD51497

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D5383-MB	4D121180.D	1	09/16/22	TS	n/a	n/a	V4D5383

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD51497-1

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	10	3.7	ug/l	
107-13-1	Acrylonitrile	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.35	ug/l	
75-25-2	Bromoform	ND	1.0	0.60	ug/l	
74-83-9	Bromomethane	ND	1.0	0.87	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.33	ug/l	
75-00-3	Chloroethane	ND	1.0	0.54	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.78	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.43	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.30	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.69	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.46	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.42	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.37	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.41	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.32	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.36	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.35	ug/l	

Method Blank Summary

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D5383-MB	4D121180.D	1	09/16/22	TS	n/a	n/a	V4D5383

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD51497-1

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	87%	80-128%
2037-26-5	Toluene-D8 (SUR)	101%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	100%	79-117%
1868-53-7	Dibromofluoromethane (S)	98%	84-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN12551-MB	N296464.D	1	09/21/22	TS	n/a	n/a	VN12551

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD51497-3, JD51497-4

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	10	3.7	ug/l	
107-13-1	Acrylonitrile	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.35	ug/l	
75-25-2	Bromoform	ND	1.0	0.60	ug/l	
74-83-9	Bromomethane	ND	1.0	0.87	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.33	ug/l	
75-00-3	Chloroethane	ND	1.0	0.54	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.78	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.43	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.30	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.69	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.45	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.46	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.42	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.37	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.41	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.32	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.36	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.43	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.35	ug/l	

Method Blank Summary

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN12551-MB	N296464.D	1	09/21/22	TS	n/a	n/a	VN12551

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD51497-3, JD51497-4

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	114%	80-128%
2037-26-5	Toluene-D8 (SUR)	99%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	88%	79-117%
1868-53-7	Dibromofluoromethane (S)	109%	84-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	3.49	2500	ug/l	J
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D5383-BS	4D121178.D	1	09/16/22	TS	n/a	n/a	V4D5383

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD51497-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
107-02-8	Acrolein	20	19.8	99	60-140
107-13-1	Acrylonitrile	20	24.3	122	60-140
71-43-2	Benzene	20	18.0	90	65-135
75-27-4	Bromodichloromethane	20	17.4	87	65-135
75-25-2	Bromoform	20	17.5	88	70-130
74-83-9	Bromomethane	20	20.2	101	15-185
56-23-5	Carbon tetrachloride	20	17.8	89	70-130
108-90-7	Chlorobenzene	20	18.9	95	65-135
75-00-3	Chloroethane	20	24.9	125	40-160
110-75-8	2-Chloroethyl vinyl ether	100	142	142	10-257
67-66-3	Chloroform	20	17.6	88	70-135
74-87-3	Chloromethane	20	23.4	117	10-205
124-48-1	Dibromochloromethane	20	18.5	93	70-135
95-50-1	1,2-Dichlorobenzene	20	19.2	96	65-135
541-73-1	1,3-Dichlorobenzene	20	18.6	93	70-130
106-46-7	1,4-Dichlorobenzene	20	17.6	88	65-135
75-71-8	Dichlorodifluoromethane	20	20.1	101	42-146
75-34-3	1,1-Dichloroethane	20	19.2	96	70-130
107-06-2	1,2-Dichloroethane	20	16.8	84	70-130
75-35-4	1,1-Dichloroethene	20	18.0	90	50-150
156-59-2	cis-1,2-Dichloroethene	20	18.7	94	72-116
156-60-5	trans-1,2-Dichloroethene	20	18.4	92	70-130
78-87-5	1,2-Dichloropropane	20	19.2	96	35-165
10061-01-5	cis-1,3-Dichloropropene	20	18.7	94	25-175
10061-02-6	trans-1,3-Dichloropropene	20	18.7	94	50-150
100-41-4	Ethylbenzene	20	18.7	94	60-140
75-09-2	Methylene chloride	20	18.9	95	60-140
79-34-5	1,1,2,2-Tetrachloroethane	20	20.5	103	60-140
127-18-4	Tetrachloroethene	20	18.0	90	70-130
108-88-3	Toluene	20	18.3	92	74-111
71-55-6	1,1,1-Trichloroethane	20	18.2	91	73-120
79-00-5	1,1,2-Trichloroethane	20	19.9	100	74-117
79-01-6	Trichloroethene	20	19.5	98	74-113
75-69-4	Trichlorofluoromethane	20	22.1	111	50-150
75-01-4	Vinyl chloride	20	23.3	117	5-195
1330-20-7	Xylenes (total)	60	57.3	96	79-114

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D5383-BS	4D121178.D	1	09/16/22	TS	n/a	n/a	V4D5383

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD51497-1

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	85%	80-128%
2037-26-5	Toluene-D8 (SUR)	98%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	101%	79-117%
1868-53-7	Dibromofluoromethane (S)	99%	84-121%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN12551-BS	N296462.D	1	09/21/22	TS	n/a	n/a	VN12551

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD51497-3, JD51497-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
107-02-8	Acrolein	20	17.1	86	60-140
107-13-1	Acrylonitrile	20	18.8	94	60-140
71-43-2	Benzene	20	17.9	90	65-135
75-27-4	Bromodichloromethane	20	19.1	96	65-135
75-25-2	Bromoform	20	22.1	111	70-130
74-83-9	Bromomethane	20	22.0	110	15-185
56-23-5	Carbon tetrachloride	20	19.7	99	70-130
108-90-7	Chlorobenzene	20	17.1	86	65-135
75-00-3	Chloroethane	20	21.3	107	40-160
110-75-8	2-Chloroethyl vinyl ether	100	86.5	87	10-257
67-66-3	Chloroform	20	18.6	93	70-135
74-87-3	Chloromethane	20	22.6	113	10-205
124-48-1	Dibromochloromethane	20	20.0	100	70-135
95-50-1	1,2-Dichlorobenzene	20	17.8	89	65-135
541-73-1	1,3-Dichlorobenzene	20	17.8	89	70-130
106-46-7	1,4-Dichlorobenzene	20	18.1	91	65-135
75-71-8	Dichlorodifluoromethane	20	16.8	84	42-146
75-34-3	1,1-Dichloroethane	20	18.3	92	70-130
107-06-2	1,2-Dichloroethane	20	19.2	96	70-130
75-35-4	1,1-Dichloroethene	20	17.4	87	50-150
156-59-2	cis-1,2-Dichloroethene	20	17.2	86	72-116
156-60-5	trans-1,2-Dichloroethene	20	16.4	82	70-130
78-87-5	1,2-Dichloropropane	20	17.9	90	35-165
10061-01-5	cis-1,3-Dichloropropene	20	15.7	79	25-175
10061-02-6	trans-1,3-Dichloropropene	20	17.7	89	50-150
100-41-4	Ethylbenzene	20	17.8	89	60-140
75-09-2	Methylene chloride	20	18.9	95	60-140
79-34-5	1,1,2,2-Tetrachloroethane	20	17.9	90	60-140
127-18-4	Tetrachloroethene	20	19.7	99	70-130
108-88-3	Toluene	20	17.8	89	74-111
71-55-6	1,1,1-Trichloroethane	20	18.7	94	73-120
79-00-5	1,1,2-Trichloroethane	20	18.3	92	74-117
79-01-6	Trichloroethene	20	16.6	83	74-113
75-69-4	Trichlorofluoromethane	20	22.1	111	50-150
75-01-4	Vinyl chloride	20	22.5	113	5-195
1330-20-7	Xylenes (total)	60	53.5	89	79-114

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN12551-BS	N296462.D	1	09/21/22	TS	n/a	n/a	VN12551

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD51497-3, JD51497-4

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	118%	80-128%
2037-26-5	Toluene-D8 (SUR)	106%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	84%	79-117%
1868-53-7	Dibromofluoromethane (S)	108%	84-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD51834-4MS [a]	4D121189.D	10	09/16/22	TS	n/a	n/a	V4D5383
JD51834-4MSD [a]	4D121190.D	10	09/16/22	TS	n/a	n/a	V4D5383
JD51834-4 [b]	4D121182.D	10	09/16/22	TS	n/a	n/a	V4D5383

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD51497-1

CAS No.	Compound	JD51834-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
107-02-8	Acrolein	ND		200	ND	0* [c]	200	ND	0* [c]	nc	40-160/60
107-13-1	Acrylonitrile	302		200	596	147	200	557	128	7	40-160/60
71-43-2	Benzene	ND		200	184	92	200	182	91	1	37-151/61
75-27-4	Bromodichloromethane	ND		200	177	89	200	177	89	0	35-155/56
75-25-2	Bromoform	ND		200	181	91	200	180	90	1	45-169/42
74-83-9	Bromomethane	ND		200	178	89	200	196	98	10	10-242/61
56-23-5	Carbon tetrachloride	ND		200	181	91	200	183	92	1	70-140/41
108-90-7	Chlorobenzene	ND		200	192	96	200	193	97	1	37-160/53
75-00-3	Chloroethane	7.5	J	200	253	123	200	251	122	1	14-230/78
110-75-8	2-Chloroethyl vinyl ether	ND		1000	1460	146	1000	1450	145	1	10-305/71
67-66-3	Chloroform	ND		200	179	90	200	179	90	0	51-138/54
74-87-3	Chloromethane	15.0		200	225	105	200	228	107	1	10-273/60
124-48-1	Dibromochloromethane	ND		200	187	94	200	187	94	0	53-149/50
95-50-1	1,2-Dichlorobenzene	ND		200	194	97	200	192	96	1	18-190/57
541-73-1	1,3-Dichlorobenzene	ND		200	189	95	200	187	94	1	59-156/43
106-46-7	1,4-Dichlorobenzene	ND		200	177	89	200	177	89	0	18-190/57
75-71-8	Dichlorodifluoromethane	ND		200	196	98	200	196	98	0	22-172/22
75-34-3	1,1-Dichloroethane	ND		200	196	98	200	194	97	1	59-155/40
107-06-2	1,2-Dichloroethane	9.5	J	200	178	84	200	177	84	1	49-155/59
75-35-4	1,1-Dichloroethene	ND		200	182	91	200	183	92	1	10-234/32
156-59-2	cis-1,2-Dichloroethene	ND		200	186	93	200	185	93	1	38-146/17
156-60-5	trans-1,2-Dichloroethene	ND		200	182	91	200	184	92	1	54-156/45
78-87-5	1,2-Dichloropropane	ND		200	194	97	200	192	96	1	10-210/55
10061-01-5	cis-1,3-Dichloropropene	ND		200	190	95	200	189	95	1	10-227/58
10061-02-6	trans-1,3-Dichloropropene	ND		200	190	95	200	189	95	1	17-183/86
100-41-4	Ethylbenzene	ND		200	190	95	200	191	96	1	37-162/63
75-09-2	Methylene chloride	ND		200	190	95	200	188	94	1	10-221/28
79-34-5	1,1,2,2-Tetrachloroethane	ND		200	207	104	200	205	103	1	46-157/61
127-18-4	Tetrachloroethene	ND		200	185	93	200	186	93	1	64-148/39
108-88-3	Toluene	ND		200	187	94	200	186	93	1	42-140/16
71-55-6	1,1,1-Trichloroethane	ND		200	183	92	200	182	91	1	56-139/17
79-00-5	1,1,2-Trichloroethane	ND		200	200	100	200	200	100	0	61-126/17
79-01-6	Trichloroethene	ND		200	201	101	200	200	100	0	37-148/15
75-69-4	Trichlorofluoromethane	ND		200	218	109	200	219	110	0	17-181/84
75-01-4	Vinyl chloride	57.4		200	268	105	200	269	106	0	10-251/66
1330-20-7	Xylenes (total)	ND		600	582	97	600	581	97	0	58-134/16

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD51834-4MS [a]	4D121189.D	10	09/16/22	TS	n/a	n/a	V4D5383
JD51834-4MSD [a]	4D121190.D	10	09/16/22	TS	n/a	n/a	V4D5383
JD51834-4 [b]	4D121182.D	10	09/16/22	TS	n/a	n/a	V4D5383

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD51497-1

CAS No.	Surrogate Recoveries	MS	MSD	JD51834-4	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	84%	84%	87%	80-128%
2037-26-5	Toluene-D8 (SUR)	97%	97%	99%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	101%	102%	100%	79-117%
1868-53-7	Dibromofluoromethane (S)	98%	99%	99%	84-121%

(a) (pH= 5)Sample pH did not satisfy field preservation criteria.
(b) (pH= 5) Sample is not acid preserved per method/client criteria. Sample analyzed within 3 days holding time as required for acrolein and acrylonitrile. Other compounds within 7 days as required by the method. + 4D121137
(c) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD51497-3MS [a]	N296473.D	1	09/21/22	TS	n/a	n/a	VN12551
JD51497-3MSD [a]	N296474.D	1	09/21/22	TS	n/a	n/a	VN12551
JD51497-3 [b]	N296466.D	1	09/21/22	TS	n/a	n/a	VN12551

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD51497-3, JD51497-4

CAS No.	Compound	JD51497-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
107-02-8	Acrolein	ND		20	16.0	80	20	18.9	95	17	40-160/60
107-13-1	Acrylonitrile	ND		20	19.1	96	20	22.1	111	15	40-160/60
71-43-2	Benzene	5.0		20	23.5	93	20	24.2	96	3	37-151/61
75-27-4	Bromodichloromethane	ND		20	19.6	98	20	22.0	110	12	35-155/56
75-25-2	Bromoform	ND		20	22.2	111	20	24.9	125	11	45-169/42
74-83-9	Bromomethane	ND		20	16.2	81	20	20.4	102	23	10-242/61
56-23-5	Carbon tetrachloride	ND		20	17.3	87	20	19.4	97	11	70-140/41
108-90-7	Chlorobenzene	90.8		20	109	91	20	113	111	4	37-160/53
75-00-3	Chloroethane	0.72	J	20	15.7	75	20	20.3	98	26	14-230/78
110-75-8	2-Chloroethyl vinyl ether	ND		100	97.4	97	100	110	110	12	10-305/71
67-66-3	Chloroform	ND		20	19.4	97	20	20.2	101	4	51-138/54
74-87-3	Chloromethane	ND		20	17.0	85	20	22.4	112	27	10-273/60
124-48-1	Dibromochloromethane	ND		20	20.2	101	20	22.0	110	9	53-149/50
95-50-1	1,2-Dichlorobenzene	0.78	J	20	18.7	90	20	21.1	102	12	18-190/57
541-73-1	1,3-Dichlorobenzene	ND		20	18.2	91	20	20.5	103	12	59-156/43
106-46-7	1,4-Dichlorobenzene	1.5		20	19.4	90	20	21.8	102	12	18-190/57
75-71-8	Dichlorodifluoromethane	ND		20	8.6	43	20	11.5	58	29* [c]	22-172/22
75-34-3	1,1-Dichloroethane	0.43	J	20	19.6	96	20	21.4	105	9	59-155/40
107-06-2	1,2-Dichloroethane	ND		20	20.2	101	20	22.3	112	10	49-155/59
75-35-4	1,1-Dichloroethene	ND		20	16.2	81	20	18.5	93	13	10-234/32
156-59-2	cis-1,2-Dichloroethene	0.77	J	20	18.8	90	20	19.7	95	5	38-146/17
156-60-5	trans-1,2-Dichloroethene	ND		20	16.9	85	20	18.7	94	10	54-156/45
78-87-5	1,2-Dichloropropane	ND		20	18.6	93	20	20.5	103	10	10-210/55
10061-01-5	cis-1,3-Dichloropropene	ND		20	16.4	82	20	18.8	94	14	10-227/58
10061-02-6	trans-1,3-Dichloropropene	ND		20	18.0	90	20	20.1	101	11	17-183/86
100-41-4	Ethylbenzene	ND		20	17.6	88	20	19.1	96	8	37-162/63
75-09-2	Methylene chloride	ND		20	19.6	98	20	23.0	115	16	10-221/28
79-34-5	1,1,2,2-Tetrachloroethane	ND		20	18.9	95	20	20.9	105	10	46-157/61
127-18-4	Tetrachloroethene	ND		20	17.8	89	20	19.0	95	7	64-148/39
108-88-3	Toluene	ND		20	17.3	87	20	18.2	91	5	42-140/16
71-55-6	1,1,1-Trichloroethane	ND		20	17.2	86	20	19.8	99	14	56-139/17
79-00-5	1,1,2-Trichloroethane	ND		20	19.6	98	20	20.1	101	3	61-126/17
79-01-6	Trichloroethene	ND		20	16.3	82	20	17.2	86	5	37-148/15
75-69-4	Trichlorofluoromethane	ND		20	13.0	65	20	16.9	85	26	17-181/84
75-01-4	Vinyl chloride	ND		20	15.6	78	20	21.1	106	30	10-251/66
1330-20-7	Xylenes (total)	ND		60	52.4	87	60	56.5	94	8	58-134/16

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD51497-3MS [a]	N296473.D	1	09/21/22	TS	n/a	n/a	VN12551
JD51497-3MSD [a]	N296474.D	1	09/21/22	TS	n/a	n/a	VN12551
JD51497-3 [b]	N296466.D	1	09/21/22	TS	n/a	n/a	VN12551

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD51497-3, JD51497-4

CAS No.	Surrogate Recoveries	MS	MSD	JD51497-3	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	118%	116%	119%	80-128%
2037-26-5	Toluene-D8 (SUR)	102%	100%	101%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	88%	87%	90%	79-117%
1868-53-7	Dibromofluoromethane (S)	109%	108%	107%	84-121%

(a) (pH= 4.5)Sample pH did not satisfy field preservation criteria.
(b) (pH= 4.5)Sample pH did not satisfy field preservation criteria. Results reported from the HCl preserved sample. The reported result for acrolein is for screening only and cannot be used for compliance purposes.
(c) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: V4D5341-BFB
Lab File ID: 4D120247.D
Instrument ID: GCMS4D
Injection Date: 08/13/22
Injection Time: 19:58

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	14.99 - 40.0% of mass 95	56496	20.6		Pass
75	30.0 - 60.0% of mass 95	141485	51.6		Pass
95	Base peak, 100% relative abundance	274069	100.0		Pass
96	5.0 - 9.0% of mass 95	18675	6.81		Pass
173	Less than 2.0% of mass 174	2724	0.99	(1.06) [a]	Pass
174	50.0 - 120.0% of mass 95	256363	93.5		Pass
175	5.0 - 9.0% of mass 174	18765	6.85	(7.32) [a]	Pass
176	95.0 - 101.0% of mass 174	245909	89.7	(95.9) [a]	Pass
177	5.0 - 9.0% of mass 176	16181	5.90	(6.58) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V4D5341-IC5341	4D120248.D	08/13/22	20:38	00:40	Initial cal 0.2
V4D5341-IC5341	4D120249.D	08/13/22	21:06	01:08	Initial cal 0.5
V4D5341-IC5341	4D120250.D	08/13/22	21:35	01:37	Initial cal 1
V4D5341-IC5341	4D120251.D	08/13/22	22:03	02:05	Initial cal 2
V4D5341-IC5341	4D120252.D	08/13/22	22:31	02:33	Initial cal 4
V4D5341-IC5341	4D120253.D	08/13/22	23:00	03:02	Initial cal 8
V4D5341-IC5341	4D120254.D	08/13/22	23:28	03:30	Initial cal 20
V4D5341-ICC5341	4D120255.D	08/13/22	23:56	03:58	Initial cal 50
V4D5341-IC5341	4D120256.D	08/14/22	00:25	04:27	Initial cal 100
V4D5341-IC5341	4D120257.D	08/14/22	00:53	04:55	Initial cal 200
V4D5341-ICV5341	4D120260.D	08/14/22	02:18	06:20	Initial cal verification 50
V4D5341-ICV5341	4D120261.D	08/14/22	02:46	06:48	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: V4D5383-BFB
Lab File ID: 4D121177.D
Instrument ID: GCMS4D
Injection Date: 09/16/22
Injection Time: 08:23

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	14.99 - 40.0% of mass 95	65341	17.5		Pass
75	30.0 - 60.0% of mass 95	160427	42.9		Pass
95	Base peak, 100% relative abundance	374208	100.0		Pass
96	5.0 - 9.0% of mass 95	24784	6.62		Pass
173	Less than 2.0% of mass 174	2086	0.56	(0.64) [a]	Pass
174	50.0 - 120.0% of mass 95	327147	87.4		Pass
175	5.0 - 9.0% of mass 174	24864	6.64	(7.60) [a]	Pass
176	95.0 - 101.0% of mass 174	322731	86.2	(98.7) [a]	Pass
177	5.0 - 9.0% of mass 176	21867	5.84	(6.78) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V4D5383-BS	4D121178.D	09/16/22	08:56	00:33	Blank Spike
V4D5383-CC5341	4D121178.D	09/16/22	08:56	00:33	Continuing cal 20
V4D5383-MB	4D121180.D	09/16/22	10:07	01:44	Method Blank
ZZZZZZ	4D121181.D	09/16/22	10:36	02:13	(unrelated sample)
JD51834-4	4D121182.D	09/16/22	11:05	02:42	(used for QC only; not part of job JD51497)
ZZZZZZ	4D121183.D	09/16/22	11:34	03:11	(unrelated sample)
ZZZZZZ	4D121184.D	09/16/22	12:03	03:40	(unrelated sample)
ZZZZZZ	4D121185.D	09/16/22	12:32	04:09	(unrelated sample)
ZZZZZZ	4D121186.D	09/16/22	13:01	04:38	(unrelated sample)
ZZZZZZ	4D121187.D	09/16/22	13:30	05:07	(unrelated sample)
ZZZZZZ	4D121188.D	09/16/22	13:59	05:36	(unrelated sample)
JD51834-4MS	4D121189.D	09/16/22	14:28	06:05	Matrix Spike
JD51834-4MSD	4D121190.D	09/16/22	14:58	06:35	Matrix Spike Duplicate
ZZZZZZ	4D121192.D	09/16/22	15:56	07:33	(unrelated sample)
ZZZZZZ	4D121193.D	09/16/22	16:25	08:02	(unrelated sample)
ZZZZZZ	4D121194.D	09/16/22	16:54	08:31	(unrelated sample)
JD51497-1	4D121195.D	09/16/22	17:24	09:01	GRAB 1 THRU 4-090722-BSA DISCHARGE
ZZZZZZ	4D121196.D	09/16/22	17:53	09:30	(unrelated sample)
ZZZZZZ	4D121197.D	09/16/22	18:22	09:59	(unrelated sample)
ZZZZZZ	4D121198.D	09/16/22	18:52	10:29	(unrelated sample)
ZZZZZZ	4D121199.D	09/16/22	19:21	10:58	(unrelated sample)
ZZZZZZ	4D121200.D	09/16/22	19:50	11:27	(unrelated sample)
ZZZZZZ	4D121201.D	09/16/22	20:19	11:56	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: VN12528-BFB
Lab File ID: N295976.D
Instrument ID: GCMSN
Injection Date: 08/23/22
Injection Time: 20:51

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	45392	23.8		Pass
75	30.0 - 60.0% of mass 95	93351	49.0		Pass
95	Base peak, 100% relative abundance	190677	100.0		Pass
96	5.0 - 9.0% of mass 95	12523	6.57		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	143397	75.2		Pass
175	5.0 - 9.0% of mass 174	10759	5.64	(7.50) [a]	Pass
176	95.0 - 101.0% of mass 174	137888	72.3	(96.2) [a]	Pass
177	5.0 - 9.0% of mass 176	9893	5.19	(7.17) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VN12528-IC12528	N295977.D	08/23/22	21:30	00:39	Initial cal 0.2
VN12528-IC12528	N295978.D	08/23/22	22:00	01:09	Initial cal 0.5
VN12528-IC12528	N295979.D	08/23/22	22:30	01:39	Initial cal 1
VN12528-IC12528	N295980.D	08/23/22	23:00	02:09	Initial cal 2
VN12528-IC12528	N295981.D	08/23/22	23:29	02:38	Initial cal 4
VN12528-IC12528	N295982.D	08/23/22	23:59	03:08	Initial cal 8
VN12528-ICC12528	N295983.D	08/24/22	00:29	03:38	Initial cal 20
VN12528-IC12528	N295984.D	08/24/22	00:59	04:08	Initial cal 50
VN12528-IC12528	N295985.D	08/24/22	01:28	04:37	Initial cal 100
VN12528-IC12528	N295986.D	08/24/22	01:58	05:07	Initial cal 200
VN12528-ICV12528	N295989.D	08/24/22	03:27	06:36	Initial cal verification 20
VN12528-ICV12528	N295990.D	08/24/22	03:57	07:06	Initial cal verification 20

Instrument Performance Check (BFB)

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: VN12551-BFB
Lab File ID: N296461.D
Instrument ID: GCMSN
Injection Date: 09/21/22
Injection Time: 07:50

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	39290	27.7		Pass
75	30.0 - 60.0% of mass 95	71765	50.5		Pass
95	Base peak, 100% relative abundance	141987	100.0		Pass
96	5.0 - 9.0% of mass 95	8646	6.09		Pass
173	Less than 2.0% of mass 174	656	0.46	(0.52) [a]	Pass
174	50.0 - 120.0% of mass 95	125040	88.1		Pass
175	5.0 - 9.0% of mass 174	9040	6.37	(7.23) [a]	Pass
176	95.0 - 101.0% of mass 174	119384	84.1	(95.5) [a]	Pass
177	5.0 - 9.0% of mass 176	7475	5.26	(6.26) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VN12551-BS	N296462.D	09/21/22	08:20	00:30	Blank Spike
VN12551-CC12528	N296462.D	09/21/22	08:20	00:30	Continuing cal 20
VN12551-MB	N296464.D	09/21/22	09:33	01:43	Method Blank
ZZZZZZ	N296465.D	09/21/22	10:03	02:13	(unrelated sample)
JD51497-3	N296466.D	09/21/22	10:32	02:42	GRAB 1 THRU 4-091422-BSA DISCHARGE
ZZZZZZ	N296467.D	09/21/22	11:03	03:13	(unrelated sample)
ZZZZZZ	N296469.D	09/21/22	12:19	04:29	(unrelated sample)
JD51497-3MS	N296473.D	09/21/22	14:19	06:29	Matrix Spike
JD51497-3MSD	N296474.D	09/21/22	14:49	06:59	Matrix Spike Duplicate
ZZZZZZ	N296476.D	09/21/22	15:49	07:59	(unrelated sample)
ZZZZZZ	N296477.D	09/21/22	16:19	08:29	(unrelated sample)
ZZZZZZ	N296478.D	09/21/22	16:49	08:59	(unrelated sample)
JD51497-4	N296479.D	09/21/22	17:19	09:29	TB
ZZZZZZ	N296480.D	09/21/22	17:49	09:59	(unrelated sample)
ZZZZZZ	N296481.D	09/21/22	18:20	10:30	(unrelated sample)
ZZZZZZ	N296482.D	09/21/22	18:50	11:00	(unrelated sample)
ZZZZZZ	N296483.D	09/21/22	19:20	11:30	(unrelated sample)

Surrogate Recovery Summary

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Method: EPA 624.1 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JD51497-1	4D121195.D	88	100	99	99
JD51497-3	N296466.D	119	101	90	107
JD51497-4	N296479.D	118	98	90	108
JD51497-3MS	N296473.D	118	102	88	109
JD51497-3MSD	N296474.D	116	100	87	108
JD51834-4MS	4D121189.D	84	97	101	98
JD51834-4MSD	4D121190.D	84	97	102	99
V4D5383-BS	4D121178.D	85	98	101	99
V4D5383-MB	4D121180.D	87	101	100	98
VN12551-BS	N296462.D	118	106	84	108
VN12551-MB	N296464.D	114	99	88	109

Surrogate Compounds	Recovery Limits
S1 = 1,2-Dichloroethane-D4 (SUR)	80-128%
S2 = Toluene-D8 (SUR)	82-113%
S3 = 4-Bromofluorobenzene (SUR)	79-117%
S4 = Dibromofluoromethane (S)	84-121%

MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41784B-MB1	P151361.D	1	09/15/22	CS	09/14/22	OP41784B	EP7011

The QC reported here applies to the following samples: **Method:** EPA 625.1

JD51497-1

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.82	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.89	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.4	ug/l	
51-28-5	2,4-Dinitrophenol	ND	10	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.0	1.3	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.96	ug/l	
100-02-7	4-Nitrophenol	ND	10	1.2	ug/l	
87-86-5	Pentachlorophenol	ND	5.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.92	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.19	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.14	ug/l	
120-12-7	Anthracene	ND	1.0	0.21	ug/l	
92-87-5	Benzidine	ND	10	0.90	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.21	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.21	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.34	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.21	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.40	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.46	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.24	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.34	ug/l	
218-01-9	Chrysene	ND	1.0	0.18	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.28	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.25	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	2.0	0.40	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.37	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.17	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.17	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.51	ug/l	

Method Blank Summary

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41784B-MB1	P151361.D	1	09/15/22	CS	09/14/22	OP41784B	EP7011

The QC reported here applies to the following samples: **Method:** EPA 625.1

JD51497-1

CAS No.	Compound	Result	RL	MDL	Units	Q
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.33	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.23	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.22	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	1.7	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.17	ug/l	
86-73-7	Fluorene	ND	1.0	0.17	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.8	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.39	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.33	ug/l	
78-59-1	Isophorone	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	1.0	0.23	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.64	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	2.0	0.82	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.18	ug/l	
129-00-0	Pyrene	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	37%	10-110%
4165-62-2	Phenol-d5	25%	10-110%
118-79-6	2,4,6-Tribromophenol	63%	35-147%
4165-60-0	Nitrobenzene-d5	71%	32-132%
321-60-8	2-Fluorobiphenyl	76%	40-117%
1718-51-0	Terphenyl-d14	78%	33-126%

Method Blank Summary

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41784B-MB1	P151361.D	1	09/15/22	CS	09/14/22	OP41784B	EP7011

The QC reported here applies to the following samples: **Method:**

JD51497-1

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41784B-BS1	P151364.D	1	09/15/22	CS	09/14/22	OP41784B	EP7011
OP41784B-BSD	P151365.D	1	09/15/22	CS	09/14/22	OP41784B	EP7011

The QC reported here applies to the following samples: **Method:** EPA 625.1

JD51497-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	50	33.3	67	31.5	63	6	43-100/22
59-50-7	4-Chloro-3-methyl phenol	50	43.1	86	38.1	76	12	46-110/21
120-83-2	2,4-Dichlorophenol	50	43.1	86	37.8	76	13	44-109/21
105-67-9	2,4-Dimethylphenol	50	37.8	76	31.4	63	18	42-116/20
51-28-5	2,4-Dinitrophenol	100	61.8	62	68.2	68	10	38-131/27
534-52-1	4,6-Dinitro-o-cresol	50	39.1	78	40.5	81	4	50-124/26
88-75-5	2-Nitrophenol	50	36.5	73	35.8	72	2	44-109/21
100-02-7	4-Nitrophenol	50	18.2	36	17.7	35	3	14-110/23
87-86-5	Pentachlorophenol	100	89.2	89	88.6	89	1	25-128/25
108-95-2	Phenol	50	15.3	31	13.7	27	11	20-110/22
88-06-2	2,4,6-Trichlorophenol	50	48.6	97	45.4	91	7	52-118/24
83-32-9	Acenaphthene	50	45.2	90	42.3	85	7	47-110/24
208-96-8	Acenaphthylene	50	54.0	108	50.4	101	7	45-110/24
120-12-7	Anthracene	50	47.9	96	46.5	93	3	52-110/24
92-87-5	Benzidine	50	ND	0* [a]	ND	0* [a]	nc	10-110/65
56-55-3	Benzo(a)anthracene	50	50.0	100	48.3	97	3	53-110/20
50-32-8	Benzo(a)pyrene	50	46.8	94	43.8	88	7	55-110/23
205-99-2	Benzo(b)fluoranthene	50	51.0	102	48.6	97	5	57-110/23
191-24-2	Benzo(g,h,i)perylene	50	50.3	101	46.6	93	8	51-110/23
207-08-9	Benzo(k)fluoranthene	50	50.3	101	46.8	94	7	56-110/22
101-55-3	4-Bromophenyl phenyl ether	50	51.0	102	48.9	98	4	51-112/23
85-68-7	Butyl benzyl phthalate	50	49.5	99	48.4	97	2	50-122/23
91-58-7	2-Chloronaphthalene	50	41.2	82	38.2	76	8	41-110/26
106-47-8	4-Chloroaniline	50	31.9	64	26.9	54	17	10-110/44
218-01-9	Chrysene	50	46.9	94	45.2	90	4	52-110/20
111-91-1	bis(2-Chloroethoxy)methane	50	41.8	84	36.9	74	12	36-110/21
111-44-4	bis(2-Chloroethyl)ether	50	37.5	75	34.1	68	9	40-111/21
108-60-1	2,2'-Oxybis(1-chloropropane)	50	37.8	76	35.0	70	8	37-110/25
7005-72-3	4-Chlorophenyl phenyl ether	50	44.2	88	42.1	84	5	48-110/25
95-50-1	1,2-Dichlorobenzene	50	31.0	62	28.7	57	8	35-110/28
122-66-7	1,2-Diphenylhydrazine	50	49.9	100	48.2	96	3	39-128/23
541-73-1	1,3-Dichlorobenzene	50	29.7	59	27.8	56	7	32-110/28
106-46-7	1,4-Dichlorobenzene	50	30.1	60	28.2	56	7	33-110/27
121-14-2	2,4-Dinitrotoluene	50	45.0	90	43.6	87	3	61-117/25
606-20-2	2,6-Dinitrotoluene	50	45.3	91	45.1	90	0	61-119/23
91-94-1	3,3'-Dichlorobenzidine	100	42.1	42	41.3	41	2	20-110/33

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41784B-BS1	P151364.D	1	09/15/22	CS	09/14/22	OP41784B	EP7011
OP41784B-BSD	P151365.D	1	09/15/22	CS	09/14/22	OP41784B	EP7011

The QC reported here applies to the following samples: **Method:** EPA 625.1

JD51497-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
53-70-3	Dibenzo(a,h)anthracene	50	51.7	103	49.2	98	5	55-110/25
84-74-2	Di-n-butyl phthalate	50	51.8	104	49.7	99	4	55-118/25
117-84-0	Di-n-octyl phthalate	50	46.3	93	44.0	88	5	49-124/26
84-66-2	Diethyl phthalate	50	46.5	93	44.3	89	5	54-113/23
131-11-3	Dimethyl phthalate	50	46.6	93	43.8	88	6	56-110/23
117-81-7	bis(2-Ethylhexyl)phthalate	50	48.6	97	46.3	93	5	50-120/22
206-44-0	Fluoranthene	50	46.5	93	44.3	89	5	55-111/23
86-73-7	Fluorene	50	45.2	90	42.7	85	6	51-110/25
118-74-1	Hexachlorobenzene	50	47.9	96	46.8	94	2	47-116/23
87-68-3	Hexachlorobutadiene	50	29.6	59	27.3	55	8	24-110/34
77-47-4	Hexachlorocyclopentadiene	100	70.0	70	64.7	65	8	10-110/39
67-72-1	Hexachloroethane	50	28.4	57	26.7	53	6	28-110/34
193-39-5	Indeno(1,2,3-cd)pyrene	50	50.8	102	47.0	94	8	51-112/24
78-59-1	Isophorone	50	42.5	85	37.4	75	13	42-111/20
91-20-3	Naphthalene	50	35.1	70	32.2	64	9	34-110/25
98-95-3	Nitrobenzene	50	40.6	81	38.4	77	6	39-110/21
62-75-9	n-Nitrosodimethylamine	50	22.5	45	19.8	40	13	15-110/19
621-64-7	N-Nitroso-di-n-propylamine	50	38.9	78	34.1	68	13	33-117/21
86-30-6	N-Nitrosodiphenylamine	50	52.5	105	50.3	101	4	54-110/24
85-01-8	Phenanthrene	50	47.2	94	45.1	90	5	53-110/23
129-00-0	Pyrene	50	56.6	113* [a]	54.9	110	3	52-110/22
120-82-1	1,2,4-Trichlorobenzene	50	33.1	66	30.2	60	9	30-110/29

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	42%	40%	10-110%
4165-62-2	Phenol-d5	29%	26%	10-110%
118-79-6	2,4,6-Tribromophenol	104%	102%	35-147%
4165-60-0	Nitrobenzene-d5	82%	78%	32-132%
321-60-8	2-Fluorobiphenyl	93%	87%	40-117%
1718-51-0	Terphenyl-d14	110%	107%	33-126%

(a) Outside of in house control limits.

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: EP7003-DFTPP
Lab File ID: P151279.D
Instrument ID: GCMSP
Injection Date: 09/09/22
Injection Time: 20:56

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	8365	36.4		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	9820	42.7		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	13541	58.9		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	22979	100.0		Pass
199	5.0 - 9.0% of mass 198	1635	7.12		Pass
275	10.0 - 30.0% of mass 198	5496	23.9		Pass
365	1.0 - 100.0% of mass 198	828	3.60		Pass
441	Present, but less than mass 443	2585	11.2	(85.8) [b]	Pass
442	40.0 - 100.0% of mass 198	16779	73.0		Pass
443	17.0 - 23.0% of mass 442	3013	13.1	(18.0) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP7003-IC7003	P151280.D	09/09/22	21:23	00:27	Initial cal 100
EP7003-IC7003	P151281.D	09/09/22	21:47	00:51	Initial cal 1
EP7003-IC7003	P151282.D	09/09/22	22:12	01:16	Initial cal 80
EP7003-IC7003	P151283.D	09/09/22	22:37	01:41	Initial cal 2
EP7003-ICC7003	P151284.D	09/09/22	23:02	02:06	Initial cal 50
EP7003-IC7003	P151285.D	09/09/22	23:27	02:31	Initial cal 5
EP7003-IC7003	P151286.D	09/09/22	23:52	02:56	Initial cal 25
EP7003-IC7003	P151287.D	09/10/22	00:16	03:20	Initial cal 10
EP7003-ICV7003	P151288.D	09/10/22	00:41	03:45	Initial cal verification 50
EP7003-ICV7003	P151289.D	09/10/22	01:06	04:10	Initial cal verification 50
EP7003-ICV7003	P151290.D	09/10/22	01:31	04:35	Initial cal verification 50
EP7003-ICV7003	P151291A.D	09/10/22	02:00	05:04	Initial cal verification 50
EP7003-ICV7003	P151292B.D	09/10/22	02:25	05:29	Initial cal verification 50
EP7003-ICV7003	P151293.D	09/10/22	02:50	05:54	Initial cal verification 50
EP7003-ICV7003	P151294.D	09/10/22	03:16	06:20	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: EP7004-DFTPP
Lab File ID: P151295.D
Instrument ID: GCMSP
Injection Date: 09/10/22
Injection Time: 05:00

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	9537	35.5		Pass
68	Less than 2.0% of mass 69	119	0.44	(1.16) [a]	Pass
69	Mass 69 relative abundance	10229	38.1		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	14985	55.8		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	26857	100.0		Pass
199	5.0 - 9.0% of mass 198	1889	7.03		Pass
275	10.0 - 30.0% of mass 198	6423	23.9		Pass
365	1.0 - 100.0% of mass 198	1016	3.78		Pass
441	Present, but less than mass 443	3107	11.6	(82.0) [b]	Pass
442	40.0 - 100.0% of mass 198	20578	76.6		Pass
443	17.0 - 23.0% of mass 442	3789	14.1	(18.4) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP7004-IC7004	P151296A.D	09/10/22	05:39	00:39	Initial cal 100
EP7004-IC7004	P151297.D	09/10/22	06:04	01:04	Initial cal 80
EP7004-ICC7004	P151298.D	09/10/22	06:28	01:28	Initial cal 50
EP7004-IC7004	P151299A.D	09/10/22	07:34	02:34	Initial cal 25
EP7004-IC7004	P151300.D	09/10/22	07:58	02:58	Initial cal 10
EP7004-IC7004	P151301.D	09/10/22	08:23	03:23	Initial cal 5
EP7004-IC7004	P151302.D	09/10/22	08:48	03:48	Initial cal 2
EP7004-IC7004	P151303.D	09/10/22	09:13	04:13	Initial cal 1
EP7004-ICV7004	P151304.D	09/10/22	09:37	04:37	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: EP7011-DFTPP
Lab File ID: P151357.D
Instrument ID: GCMSP
Injection Date: 09/15/22
Injection Time: 06:03

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	14996	37.7		Pass
68	Less than 2.0% of mass 69	81	0.20	(0.48) [a]	Pass
69	Mass 69 relative abundance	17016	42.8		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	22593	56.8		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	39768	100.0		Pass
199	5.0 - 9.0% of mass 198	2660	6.69		Pass
275	10.0 - 30.0% of mass 198	9090	22.9		Pass
365	1.0 - 100.0% of mass 198	1346	3.38		Pass
441	Present, but less than mass 443	3959	9.96	(76.3) [b]	Pass
442	40.0 - 100.0% of mass 198	26752	67.3		Pass
443	17.0 - 23.0% of mass 442	5186	13.0	(19.4) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP7011-CC7003	P151358.D	09/15/22	06:15	00:12	Continuing cal 50
EP7011-CC7004	P151359.D	09/15/22	06:40	00:37	Continuing cal 50
EP7011-CC7003	P151360.D	09/15/22	07:07	01:04	Continuing cal 5
OP41784-MB1	P151361.D	09/15/22	07:47	01:44	Method Blank
OP41784B-MB1	P151361.D	09/15/22	07:47	01:44	Method Blank
ZZZZZZ	P151362.D	09/15/22	08:12	02:09	(unrelated sample)
ZZZZZZ	P151363.D	09/15/22	08:36	02:33	(unrelated sample)
OP41784-BS1	P151364.D	09/15/22	09:01	02:58	Blank Spike
OP41784B-BS1	P151364.D	09/15/22	09:01	02:58	Blank Spike
OP41784-BSD	P151365.D	09/15/22	09:26	03:23	Blank Spike Duplicate
OP41784B-BSD	P151365.D	09/15/22	09:26	03:23	Blank Spike Duplicate
ZZZZZZ	P151366.D	09/15/22	09:51	03:48	(unrelated sample)
ZZZZZZ	P151367.D	09/15/22	10:15	04:12	(unrelated sample)
ZZZZZZ	P151368.D	09/15/22	10:40	04:37	(unrelated sample)
ZZZZZZ	P151369.D	09/15/22	11:05	05:02	(unrelated sample)
ZZZZZZ	P151370.D	09/15/22	11:29	05:26	(unrelated sample)
ZZZZZZ	P151371.D	09/15/22	11:54	05:51	(unrelated sample)
ZZZZZZ	P151372.D	09/15/22	12:19	06:16	(unrelated sample)
ZZZZZZ	P151373.D	09/15/22	12:44	06:41	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample:	EP7011-DFTPP	**Injection Date:**	09/15/22
Lab File ID:	P151357.D	**Injection Time:**	06:03
Instrument ID:	GCMSP		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	P151374.D	09/15/22	13:09	07:06	(unrelated sample)
ZZZZZZ	P151375.D	09/15/22	13:33	07:30	(unrelated sample)
ZZZZZZ	P151376.D	09/15/22	13:58	07:55	(unrelated sample)
ZZZZZZ	P151377.D	09/15/22	14:23	08:20	(unrelated sample)
ZZZZZZ	P151378.D	09/15/22	14:48	08:45	(unrelated sample)
JD51497-1	P151379.D	09/15/22	15:12	09:09	GRAB 1 THRU 4-090722-BSA DISCHARGE

Surrogate Recovery Summary

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Method: EPA 625.1 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JD51497-1	P151379.D	32	22	103	72	78	43
OP41784B-BS1	P151364.D	42	29	104	82	93	110
OP41784B-BSD	P151365.D	40	26	102	78	87	107
OP41784B-MB1	P151361.D	37	25	63	71	76	78

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	10-110%
S2 = Phenol-d5	10-110%
S3 = 2,4,6-Tribromophenol	35-147%
S4 = Nitrobenzene-d5	32-132%
S5 = 2-Fluorobiphenyl	40-117%
S6 = Terphenyl-d14	33-126%

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD51497
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35169
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/16/22

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	9.2	77		
Antimony	6.0	2.8	4.1		
Arsenic	3.0	2.6	2.5		
Barium	200	.2	17		
Beryllium	1.0	.2	.5		
Bismuth	20	2.5	4.8		
Boron	100	1.8	85		
Cadmium	3.0	.4	1.2		
Calcium	5000	13	130		
Cerium	100				
Chromium	10	.7	1.5		
Cobalt	50	.6	2.5		
Copper	10	.7	4.1	-0.70	<10
Iron	100	3.3	30		
Lead	3.0	2	2.4		
Lithium	50	1.5	9.1		
Magnesium	5000	25	200		
Manganese	15	.1	2		
Molybdenum	20	.6	4.5		
Nickel	10	.8	1.8		
Phosphorus	50	7	14		
Potassium	10000	35	200		
Selenium	10	3.6	5.5		
Silicon	200	2.2	130		
Silver	10	.6	2.4		
Sodium	10000	14	900		
Strontium	10	.1	1.6		
Sulfur	50	3.7	18		
Thallium	10	5.2	1.9		
Tin	50	1.4	4.7		
Titanium	10	.8	1.9		
Tungsten	50	1.3	19		
Vanadium	50	.5	2.3		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD51497
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35169
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/16/22

Metal	RL	IDL	MDL	MB raw	final
Zinc	20	.3	8.5	0.40	<20
Zirconium	10	.5	4.9		

Associated samples MP35169: JD51497-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD51497
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35169
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/16/22

Metal	JD51807-1 Original	MS	Spikelot MP200.7A	% Rec	QC Limits
Aluminum					
Antimony	anr				
Arsenic	anr				
Barium	anr				
Beryllium	anr				
Bismuth					
Boron					
Cadmium	anr				
Cerium					
Chromium	anr				
Cobalt					
Copper	284	2150	2000	93.3	70-130
Iron					
Lead	anr				
Lithium					
Magnesium					
Manganese	anr				
Molybdenum					
Nickel	anr				
Phosphorus					
Potassium					
Selenium	anr				
Silicon					
Silver	anr				
Sodium					
Strontium					
Sulfur					
Thallium	anr				
Tin					
Titanium					
Tungsten					
Vanadium					
Zinc	69.4	1910	2000	92.0	70-130

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD51497
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35169
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/16/22

Metal	JD51807-1 Original MS	Spikelot MP200.7A % Rec	QC Limits
Zirconium			

Associated samples MP35169: JD51497-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD51497
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35169 Methods: EPA 200.7
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 09/16/22

Metal	JD51807-1 Original	MSD	Spikelot MP200.7A	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Bismuth						
Boron						
Cadmium	anr					
Cerium						
Chromium	anr					
Cobalt						
Copper	284	2200	2000	95.8	2.3	10
Iron						
Lead	anr					
Lithium						
Magnesium						
Manganese	anr					
Molybdenum						
Nickel	anr					
Phosphorus						
Potassium						
Selenium	anr					
Silicon						
Silver	anr					
Sodium						
Strontium						
Sulfur						
Thallium	anr					
Tin						
Titanium						
Tungsten						
Vanadium						
Zinc	69.4	1940	2000	93.5	1.6	10

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD51497
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35169 Methods: EPA 200.7
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 09/16/22

Metal	JD51807-1 Original MSD	Spikelot MP200.7A % Rec	MSD RPD	QC Limit
Zirconium				

Associated samples MP35169: JD51497-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD51497
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35169
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/16/22

Metal	BSP Result	Spikelot MP200.7A	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Bismuth				
Boron				
Cadmium	anr			
Calcium				
Cerium				
Chromium	anr			
Cobalt				
Copper	1980	2000	99.0	85-115
Iron				
Lead	anr			
Lithium				
Magnesium				
Manganese	anr			
Molybdenum				
Nickel	anr			
Phosphorus				
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Strontium				
Sulfur				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium				

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD51497
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35169
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/16/22

Metal	BSP Result	Spikelot MP200.7A	% Rec	QC Limits
Zinc	2050	2000	102.5	85-115
Zirconium				

Associated samples MP35169: JD51497-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD51497
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35169
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/16/22

Metal	JD51807-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Bismuth				
Boron				
Cadmium	anr			
Calcium				
Cerium				
Chromium	anr			
Cobalt				
Copper	284	266	6.6	0-10
Iron				
Lead	anr			
Lithium				
Magnesium				
Manganese	anr			
Molybdenum				
Nickel	anr			
Phosphorus				
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Strontium				
Sulfur				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium				

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD51497
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35169
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/16/22

Metal	JD51807-1 Original	SDL 1:5	%DIF	QC Limits
Zinc	69.4	74.8	7.8	0-10
Zirconium				

Associated samples MP35169: JD51497-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD51497
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35209 Methods: EPA 245.1
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 09/19/22

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.034	.092	-0.059	<0.20

Associated samples MP35209: JD51497-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD51497
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35209
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 09/19/22

Metal	JD51848-1 Original	MS	Spikelot HGPW3	% Rec	QC Limits
Mercury	0.0	2.2	2	110.0	70-130

Associated samples MP35209: JD51497-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD51497
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35209 Methods: EPA 245.1
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 09/19/22

Metal	JD51848-1 Original	MSD	Spikelot HGPW3	% Rec	MSD RPD	QC Limit
Mercury	0.0	2.1	2	105.0	4.7	19

Associated samples MP35209: JD51497-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD51497
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35209
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 09/19/22

Metal	BSP Result	Spikelot HGPW3	% Rec	QC Limits
Mercury	2.2	2	110.0	85-115

Associated samples MP35209: JD51497-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD51497
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Phosphorus, Total	GP42249/GN33290	0.050	0.0	mg/l	0.4	0.36	90.0	80-120%
Solids, Total Suspended	GN33328	4.0	0.0	mg/l	100	96.8 mg/l	96.8	80-120%
Solids, Total Suspended	GN33578	4.0	0.0	mg/l	100	92.8	92.8	80-120%

Associated Samples:
Batch GN33328: JD51497-2
Batch GN33578: JD51497-2R
Batch GP42249: JD51497-2
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD51497
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Phosphorus, Total	GP42249/GN33290	JD51465-1	mg/l	0.0	0.0	0.0	0-38%
Solids, Total Suspended	GN33328	JD51467-1	mg/l	3.8	3.8	0.0	0-5%
Solids, Total Suspended	GN33578	JD52255-3	mg/l	15.1	14.6	3.4	0-5%

Associated Samples:
Batch GN33328: JD51497-2
Batch GN33578: JD51497-2R
Batch GP42249: JD51497-2
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD51497
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Phosphorus, Total	GP42249/GN33290	JD51465-1	mg/l	0.0	0.4	0.35	87.5	35-137%

Associated Samples:
Batch GP42249: JD51497-2
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

The results set forth herein are provided by SGS North America Inc.

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Automated Report

Technical Report for

Honeywell International Inc. OMM work

HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

30130 PO#A001132428

SGS Job Number: JD52582

Sampling Date: 09/23/22

Report to:

Wood Environment & Infrastructure Soln.
511 Congress Street
Portland, ME 04112
HTS-RES-LAB@Honeywell.com; Ryan.Belcher@amecfw.com

ATTN: Ryan Belcher

Total number of pages in report: **14**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Jadon Schiller 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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SGS North America Inc.

Sample Summary

Honeywell International Inc. OMM work

Job No: JD52582

HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Project No: 30130 PO#A001132428

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
JD52582-1	09/23/22	15:45	BH	09/27/22	AQ	Ground Water	COMP-092322-BSA DISCHARGE

This report contains results reported as ND = Not detected. The following applies:
General Chemistry ND = Not detected above the MDL

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Honeywell International Inc. OMM work	**Job No:**	JD52582
Site:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY	**Report Date**	9/30/2022 10:03:11 A

On 09/27/2022, 1 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 1.8 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD52582 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

General Chemistry By Method SM2540 D-11/15

Matrix: AQ **Batch ID:** GN33810

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD52577-1DUP were used as the QC samples for Solids, Total Suspended.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD52582
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/23/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD52582-1	**COMP-092322-BSA DISCHARGE**					
Solids, Total Suspended		243	4.0	1.5	mg/l	SM2540 D-11/15

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	COMP-092322-BSA DISCHARGE		
Lab Sample ID:	JD52582-1	**Date Sampled:**	09/23/22
Matrix:	AQ - Ground Water	**Date Received:**	09/27/22
		Percent Solids:	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Suspended	243	4.0	1.5	mg/l	1	09/28/22 16:20	AS	SM2540 D-11/15

RL = Reporting Limit
MDL = Method Detection Limit

ND = Not detected
J = Indicates a result > = MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- QC Evaluation: Honeywell Limits

WW

SGS Laboratories
2235 Route 130
Dayton, NJ 08810
(p) 732-239-0200

Chain Of Custody/Analysis Request
Project Name: Buffalo Alltift Landfill - Semi-Annual
Lab Project Name: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

AESI Ref: 38609.59845
COC #: 20220923-Alltift
Lab Use Only
Lab_SDG
Lab ID

Privileged & Confidential
EDD To: Ryan Belcher (ryan.belcher@woodplc.com)
Sampler: Benjamin Hendry
Sampling Company: Jacobs
P O #: A001132428
Analysis Turnaround Time: 2 DAY RUSH
Standard: N
Rush Charges Authorized for: Y
Time Around Time Required: 2 DAY RUSH

Facility Name: Alltift Landfill
Location of Site: Buffalo, New York
Site Code: 30130

Client Contact: (name, co., address)
Sasa Jazic
Honeywell International
301 Plainfield Road, Suite 330
Syracuse, New York 13212
Sasa.Jazic@Honeywell.com
Hardcopy Report To: Do Not Send Hardcopy Unless Requested
Invoice To:

Job No: JD52582
1 cooler

Sample Identification											Preservative															
											1	0	2	3	0	0										
	Sys_Loc_Code	Start Depth (ft)	End Depth (ft)	Sys_Sample_Code	Sample Date	Sample Time	Matrix Code	Medium Code	Sample Type	# of Cont.	Composite (Yes/No)	Filter Type (Yes=Filtered, Not=Filtered)	VOA_HCl - 8260_5030	625_H2SO4 - 8270C_3510	Total Hg - 1631_245.1	Metals (exc. Hg) - 6010_200.7	TPH - 1664_n-h	pH_SM21-4500-H	TSS - 2540-D								Lab Sample Numbers
											Units																
1	N/A	---	---	COMP-092322-BSA Discharge	09/23/2022	1545	GW	WATER	REG	2	N	N							2								G32
2																											
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											
13																											
14																											
15																											

Initial Assessment 2A EC
Label Verification

Special Instructions:	Sample Location	pH Range	pH	Max Temp (°C)	Temp (°C)	Flow	Cond. (mS/cm)	Other	Notes: For COC questions, contact -- Benjamin Hendry benjamin.hendry@jacobs.com 315-806-4029

Relinquished by:	Company:	Jacobs	Received by:	FEDEX	Company:		Condition:		Custody Seals Intact:
	Date/Time:	09-26 22/1400			Date/Time: 9/27/22 9:56		Cooler Temp:	1.2	
Relinquished by: FedEx	Company:		Received by:		Company:		Condition:		Custody Seals Intact:
	Date/Time: 9/27/22 9:56				Date/Time:		Cooler Temp:		

Preservatives: 0 = None; 1 = HCL; 2 = HNO3; 3 = H2SO4; 4 = NaOH; 5 = Zn, Acetate; 6 = MeOH; 7 = NaHSO4; 8 = Other (specify):

FedEx: 5894 7365 8371

JD52582: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: JD52582 **Client:** HONEYWELL **Project:** BUFFALO ALLTIFT LANDFILL

Date / Time Received: 9/27/2022 9:56:00 AM **Delivery Method:** Fed Ex **Airbill #'s:** 5894 7365 8371

Cooler Temps (Raw Measured) °C: Cooler 1: (1.2);

Cooler Temps (Corrected) °C: Cooler 1: (1.8);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JD52582: Chain of Custody
Page 2 of 2

QC Evaluation: Honeywell Limits

Job Number: JD52582
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/23/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits

No Honeywell Limits found for methods in this job.

* Sample used for QC is not from job JD52582

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD52582
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Solids, Total Suspended	GN33810	4.0	0.0	mg/l	100	99.2 mg/l	99.2	80-120%

Associated Samples:
Batch GN33810: JD52582-1
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD52582
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Solids, Total Suspended	GN33810	JD52577-1	mg/l	5.7	5.7	0.0	0-5%

Associated Samples:
Batch GN33810: JD52582-1
(*) Outside of QC limits

October 04, 2022

Ms. Traserra Adams
Buffalo Sewer Authority
Industrial Waste Section
90 West Ferry Street
Buffalo, NY 14213-1799

Subject: B.P.D.E.S. Discharge Permit 21-12 BU098
Permit Excursion Notification and Investigation
Alltift Landfill, Buffalo, New York

Dear Ms. Adams:

On behalf of Honeywell International Inc. (Honeywell), WSP USA Environment and Infrastructure (WSP), formerly Wood Environment & Infrastructure Solutions, Inc. (Wood), is submitting this letter notification in accordance with the permit requirement to report a detection of total suspended solids (TSS) at 270 milligrams per liter (mg/L) in the second 2022 semi-annual discharge sample collected on September 7, 2022 (refer to **Enclosure 1 – Laboratory Analytical Report for September 7-14, 2022, Semi-Annual Discharge Monitoring**), which is more than the permit limit of 250 mg/L.

Ryan Belcher of WSP provided notification via voice message and email to you on September 22, 2022, that the preliminary results of the laboratory analysis of TSS available on the laboratory online portal indicated an exceedance of permit limit for TSS. The final reported result described above was consistent with the preliminary result, as well as the result of the re-analysis of the initial sample as presented in Enclosure 1.

In accordance with the permit requirement, resampling for TSS was completed on September 23, 2022. The results of the September 23, 2022 resample indicate a TSS concentration of 243 mg/L (refer to **Enclosure 2 – Laboratory Analytical Report for September 23, 2022, Resampling for TSS**), which is below the permit limit of 250 mg/L. We are currently completing the second semi-annual discharge monitoring report (DMR) for submittal to the BSA and will include both the original and resampling results in the DMR.

Over the past seven events (semi-annual events for 2019 through first half of 2022) TSS has ranged from 20 to 142 mg/L, with typical second semi-annual discharge sampling results of approximately 100 mg/L. The first 2022 semi-annual discharge sampling result (142 mg/L) was higher than typical first semi-annual sampling results and may be indicative of a change in groundwater quality. Investigation activities are ongoing, and results will be communicated as they become available.

Please call Ryan Belcher at 207-289-4213 with any question regarding this submittal.

Yours sincerely,

Robert L. Gersh
Senior Project Manager

Ryan T. Belcher
Associate Environmental Engineer

cc:
Sasa Jazic, Honeywell
John Formoza, Jacobs
Taylor Monnin, NYSDEC
Jason Paananen, City of Buffalo

Encl.
(1) Laboratory Analytical Report for September 7-14 2, 2022, Semi-Annual Discharge Monitoring
(2) Laboratory Analytical Report for September 23, 2022, Resampling for TSS

WSP USA E&I.
511 Congress Street, Ste 200
Portland, ME 04101, USA
wsp.com

Laboratory Analytical Report for September 7-14 2, 2022, Semi-Annual Discharge Monitoring

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Honeywell International Inc. OMM work

HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

PO#A001132428

SGS Job Number: JD51497

Sampling Dates: 09/07/22 - 09/14/22

Report to:

Wood Environment & Infrastructure Soln.
511 Congress Street
Portland, ME 04112
HTS-RES-LAB@Honeywell.com; Ryan.Belcher@amecfw.com

ATTN: Ryan Belcher

Total number of pages in report: 87

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Jadon Schiller 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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Test results relate only to samples analyzed.

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Please share your ideas about
how we can serve you better at:
EHS.US.CustomerCare@sgs.com

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SGS North America Inc.

Sample Summary

Honeywell International Inc. OMM work

Job No: JD51497

HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Project No: PO#A001132428

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD51497-1	09/07/22	15:30	BH	09/09/22	AQ	Ground Water	GRAB 1 THRU 4-090722-BSA DISCHARGE
JD51497-2	09/07/22	15:45	BH	09/09/22	AQ	Ground Water	COMP-090722-BSA DISCHARGE
JD51497-2R	09/07/22	15:45	BH	09/09/22	AQ	Ground Water	COMP-090722-BSA DISCHARGE
JD51497-3	09/14/22	16:30	BH	09/16/22	AQ	Ground Water	GRAB 1 THRU 4-091422-BSA DISCHARGE
JD51497-4	09/14/22	16:30	BH	09/16/22	AQ	Trip Blank Water	TB

This report contains results reported as ND = Not detected. The following applies:

Organics ND = Not detected above the MDL
Metals ND = Not detected above the MDL
General Chemistry ND = Not detected above the MDL

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Honeywell International Inc. OMM work **Job No:** JD51497

Site: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY **Report Date** 9/29/2022 10:53:51 A

Between 09/09/2022 and 09/16/2022, 3 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 4.6 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD51497 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method EPA 624.1

Matrix: AQ **Batch ID:** V4D5383

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD51834-4MS, JD51834-4MSD were used as the QC samples indicated.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for Acrolein are outside control limits. Outside control limits due to matrix interference.
- JD51497-1: (pH=5)Sample pH did not satisfy field preservation criteria.Results reported from the HCl preserved sample. The reported result for acrolein is for screening only and cannot be used for compliance purposes.
- JD51497-1 for 2-Chloroethyl vinyl ether: Associated CCV outside of control limits high, sample was ND.

Matrix: AQ **Batch ID:** VN12551

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD51497-3MS, JD51497-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- RPD(s) for MSD for Dichlorodifluoromethane are outside control limits for sample JD51497-3MSD. Probable cause due to sample homogeneity.
- JD51497-3: (pH=4.5)Sample pH did not satisfy field preservation criteria. Results reported from the HCl preserved sample. The reported result for acrolein is for screening only and cannot be used for compliance purposes.
- JD51497-4: Results reported from the HCl preserved sample. The reported result for acrolein is for screening only and cannot be used for compliance purposes.

MS Semi-volatiles By Method EPA 625.1

Matrix: AQ **Batch ID:** OP41784B

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Benzidine, Pyrene are outside control limits.
- OP41784B-BS1 for Benzidine: Outside of in house control limits.
- JD51497-1 for Benzidine: This compound in BS,BSD is outside in house QC limits bias low.
- JD51497-1 for Indeno(1,2,3-cd)pyrene: Associated CCV outside of control limits high, sample was ND.
- OP41784B-BS1 for Pyrene: Outside of in house control limits.

Metals Analysis By Method EPA 200.7

Matrix: AQ	Batch ID: MP35169

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD51807-1MS, JD51807-1MSD, JD51807-1SDL were used as the QC samples for metals.

Metals Analysis By Method EPA 245.1

Matrix: AQ	Batch ID: MP35209

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD51848-1MS, JD51848-1MSD were used as the QC samples for metals.

General Chemistry By Method EPA 365.3

Matrix: AQ	Batch ID: GP42249

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD51465-1DUP, JD51465-1MS were used as the QC samples for Phosphorus, Total.

General Chemistry By Method SM2540 D-11/15

Matrix: AQ	Batch ID: GN33328

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD51467-1DUP were used as the QC samples for Solids, Total Suspended.

Matrix: AQ	Batch ID: GN33578

- All method blanks for this batch meet method specific criteria.
- Sample(s) JD52255-3DUP were used as the QC samples for Solids, Total Suspended.
- The following samples were run outside of holding time for method SM2540 D-11/15: JD51497-2R Analysis done out of holding time.

General Chemistry By Method SM4500H+ B-11

Matrix: AQ	Batch ID: R199600

- The data for SM4500H+ B-11 meets quality control requirements.
- JD51497-2 for pH: Sample received out of holding time for pH analysis. Temp of pH Reading: 6.8 Deg. C

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD51497
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/07/22 thru 09/14/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD51497-1	**GRAB 1 THRU 4-090722-BSA DISCHARGE**					
Benzene [a]		9.3	1.0	0.34	ug/l	EPA 624.1
Chlorobenzene [a]		104	1.0	0.33	ug/l	EPA 624.1
1,2-Dichlorobenzene [a]		0.96 J	1.0	0.30	ug/l	EPA 624.1
1,4-Dichlorobenzene [a]		1.9	1.0	0.50	ug/l	EPA 624.1
cis-1,2-Dichloroethene [a]		0.76 J	1.0	0.51	ug/l	EPA 624.1
4-Chloroaniline		5.6	5.0	0.34	ug/l	EPA 625.1
1,2-Dichlorobenzene		0.61 J	1.0	0.17	ug/l	EPA 625.1
1,3-Dichlorobenzene		0.27 J	1.0	0.19	ug/l	EPA 625.1
1,4-Dichlorobenzene		1.2	1.0	0.17	ug/l	EPA 625.1
Phenanthrene		0.19 J	1.0	0.18	ug/l	EPA 625.1
JD51497-2	**COMP-090722-BSA DISCHARGE**					
Mercury		0.16 J	0.20	0.092	ug/l	EPA 245.1
Phosphorus, Total		12.0	5.0	2.7	mg/l	EPA 365.3
Solids, Total Suspended		270	4.0	1.5	mg/l	SM2540 D-11/15
pH [b]		7.05			su	SM4500H+ B-11
JD51497-2R	**COMP-090722-BSA DISCHARGE**					
Solids, Total Suspended [c]		274	4.0	1.5	mg/l	SM2540 D-11/15
JD51497-3	**GRAB 1 THRU 4-091422-BSA DISCHARGE**					
Benzene [d]		5.0	1.0	0.34	ug/l	EPA 624.1
Chlorobenzene [d]		90.8	1.0	0.33	ug/l	EPA 624.1
Chloroethane [d]		0.72 J	1.0	0.54	ug/l	EPA 624.1
1,2-Dichlorobenzene [d]		0.78 J	1.0	0.30	ug/l	EPA 624.1
1,4-Dichlorobenzene [d]		1.5	1.0	0.50	ug/l	EPA 624.1
1,1-Dichloroethane [d]		0.43 J	1.0	0.42	ug/l	EPA 624.1
cis-1,2-Dichloroethene [d]		0.77 J	1.0	0.51	ug/l	EPA 624.1
JD51497-4	**TB**					
Chlorobenzene [e]		0.54 J	1.0	0.33	ug/l	EPA 624.1
Toluene [e]		0.36 J	1.0	0.36	ug/l	EPA 624.1

(a) (pH= 5)Sample pH did not satisfy field preservation criteria.Results reported from the HCl preserved sample. The reported result for acrolein is for screening only and cannot be used for compliance purposes.
(b) Sample received out of holding time for pH analysis. Temp of pH Reading: 6.8 Deg. C
(c) Analysis done out of holding time.
(d) (pH= 4.5)Sample pH did not satisfy field preservation criteria. Results reported from the HCl preserved sample. The reported result for acrolein is for screening only and cannot be used for compliance purposes.

Summary of Hits

Job Number: JD51497
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/07/22 thru 09/14/22

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

(e) Results reported from the HCl preserved sample. The reported result for acrolein is for screening only and cannot be used for compliance purposes.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	GRAB 1 THRU 4-090722-BSA DISCHARGE		
Lab Sample ID:	JD51497-1	**Date Sampled:**	09/07/22
Matrix:	AQ - Ground Water	**Date Received:**	09/09/22
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	4D121195.D	1	09/16/22 17:24	TS	n/a	n/a	V4D5383
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	10	3.7	ug/l	
107-13-1	Acrylonitrile	ND	10	2.5	ug/l	
71-43-2	Benzene	9.3	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.35	ug/l	
75-25-2	Bromoform	ND	1.0	0.60	ug/l	
74-83-9	Bromomethane	ND	1.0	0.87	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	104	1.0	0.33	ug/l	
75-00-3	Chloroethane	ND	1.0	0.54	ug/l	
110-75-8	2-Chloroethyl vinyl ether [b]	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.78	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.43	ug/l	
95-50-1	1,2-Dichlorobenzene	0.96	1.0	0.30	ug/l	J
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	1.9	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.69	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.76	1.0	0.51	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.46	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.42	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.37	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.41	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.32	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.36	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRAB 1 THRU 4-090722-BSA DISCHARGE		
Lab Sample ID:	JD51497-1	**Date Sampled:**	09/07/22
Matrix:	AQ - Ground Water	**Date Received:**	09/09/22
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.35	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	88%		80-128%
2037-26-5	Toluene-D8 (SUR)	100%		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	99%		79-117%
1868-53-7	Dibromofluoromethane (S)	99%		84-121%

(a) (pH= 5)Sample pH did not satisfy field preservation criteria.Results reported from the HCl preserved sample.
The reported result for acrolein is for screening only and cannot be used for compliance purposes.
(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRAB 1 THRU 4-090722-BSA DISCHARGE		
Lab Sample ID:	JD51497-1	**Date Sampled:**	09/07/22
Matrix:	AQ - Ground Water	**Date Received:**	09/09/22
Method:	EPA 625.1 SW846 3510C	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P151379.D	1	09/15/22 15:12	CS	09/14/22 15:30	OP41784B	EP7011
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.82	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.89	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.4	ug/l	
51-28-5	2,4-Dinitrophenol	ND	10	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.0	1.3	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.96	ug/l	
100-02-7	4-Nitrophenol	ND	10	1.2	ug/l	
87-86-5	Pentachlorophenol	ND	5.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.92	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.19	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.14	ug/l	
120-12-7	Anthracene	ND	1.0	0.21	ug/l	
92-87-5	Benzidine [a]	ND	10	0.90	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.21	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.21	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.34	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.21	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.40	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.46	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.24	ug/l	
106-47-8	4-Chloroaniline	5.6	5.0	0.34	ug/l	
218-01-9	Chrysene	ND	1.0	0.18	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.28	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.25	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	2.0	0.40	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.37	ug/l	
95-50-1	1,2-Dichlorobenzene	0.61	1.0	0.17	ug/l	J
122-66-7	1,2-Diphenylhydrazine	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	0.27	1.0	0.19	ug/l	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRAB 1 THRU 4-090722-BSA DISCHARGE		
Lab Sample ID:	JD51497-1	**Date Sampled:**	09/07/22
Matrix:	AQ - Ground Water	**Date Received:**	09/09/22
Method:	EPA 625.1 SW846 3510C	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	1.2	1.0	0.17	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.51	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.33	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.23	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.22	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	1.7	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.17	ug/l	
86-73-7	Fluorene	ND	1.0	0.17	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.8	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.39	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene [b]	ND	1.0	0.33	ug/l	
78-59-1	Isophorone	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	1.0	0.23	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.64	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	2.0	0.82	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	
85-01-8	Phenanthrene	0.19	1.0	0.18	ug/l	J
129-00-0	Pyrene	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	32%		10-110%
4165-62-2	Phenol-d5	22%		10-110%
118-79-6	2,4,6-Tribromophenol	103%		35-147%
4165-60-0	Nitrobenzene-d5	72%		32-132%
321-60-8	2-Fluorobiphenyl	78%		40-117%
1718-51-0	Terphenyl-d14	43%		33-126%

(a) This compound in BS,BSD is outside in house QC limits bias low.
(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: COMP-090722-BSA DISCHARGE
Lab Sample ID: JD51497-2
Matrix: AQ - Ground Water
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Date Sampled: 09/07/22
Date Received: 09/09/22
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Copper	ND	100	41	ug/l	1	09/16/22	09/19/22	ND	EPA 200.7 [2]	EPA 200.7 [3]
Mercury	0.16 J	0.20	0.092	ug/l	1	09/19/22	09/19/22	LM	EPA 245.1 [1]	EPA 245.1 [4]
Zinc	ND	200	85	ug/l	1	09/16/22	09/19/22	ND	EPA 200.7 [2]	EPA 200.7 [3]

(1) Instrument QC Batch: MA52996
(2) Instrument QC Batch: MA53011
(3) Prep QC Batch: MP35169
(4) Prep QC Batch: MP35209

RL = Reporting Limit
MDL = Method Detection Limit
ND = Not detected
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	COMP-090722-BSA DISCHARGE		
Lab Sample ID:	JD51497-2	**Date Sampled:**	09/07/22
Matrix:	AQ - Ground Water	**Date Received:**	09/09/22
		Percent Solids:	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Phosphorus, Total	12.0	5.0	2.7	mg/l	1	09/13/22 16:22	MP	EPA 365.3
Solids, Total Suspended	270	4.0	1.5	mg/l	1	09/14/22 15:21	AS	SM2540 D-11/15
pH [a]	7.05			su	1	09/27/22 09:41	MS	SM4500H+ B-11

(a) Sample received out of holding time for pH analysis. Temp of pH Reading: 6.8 Deg. C

RL = Reporting Limit
MDL = Method Detection Limit
ND = Not detected
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	COMP-090722-BSA DISCHARGE		
Lab Sample ID:	JD51497-2R	**Date Sampled:**	09/07/22
Matrix:	AQ - Ground Water	**Date Received:**	09/09/22
		Percent Solids:	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Suspended [a]	274	4.0	1.5	mg/l	1	09/22/22 13:58	AS	SM2540 D-11/15

(a) Analysis done out of holding time.

RL = Reporting Limit
MDL = Method Detection Limit

ND = Not detected
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	GRAB 1 THRU 4-091422-BSA DISCHARGE		
Lab Sample ID:	JD51497-3	**Date Sampled:**	09/14/22
Matrix:	AQ - Ground Water	**Date Received:**	09/16/22
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	N296466.D	1	09/21/22 10:32	TS	n/a	n/a	VN12551
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	10	3.7	ug/l	
107-13-1	Acrylonitrile	ND	10	2.5	ug/l	
71-43-2	Benzene	5.0	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.35	ug/l	
75-25-2	Bromoform	ND	1.0	0.60	ug/l	
74-83-9	Bromomethane	ND	1.0	0.87	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	90.8	1.0	0.33	ug/l	
75-00-3	Chloroethane	0.72	1.0	0.54	ug/l	J
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.78	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.43	ug/l	
95-50-1	1,2-Dichlorobenzene	0.78	1.0	0.30	ug/l	J
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	1.5	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.69	ug/l	
75-34-3	1,1-Dichloroethane	0.43	1.0	0.42	ug/l	J
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.45	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.77	1.0	0.51	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.46	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.42	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.37	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.41	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.32	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.36	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.43	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRAB 1 THRU 4-091422-BSA DISCHARGE		
Lab Sample ID:	JD51497-3	**Date Sampled:**	09/14/22
Matrix:	AQ - Ground Water	**Date Received:**	09/16/22
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.35	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	119%		80-128%
2037-26-5	Toluene-D8 (SUR)	101%		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	90%		79-117%
1868-53-7	Dibromofluoromethane (S)	107%		84-121%

(a) (pH= 4.5)Sample pH did not satisfy field preservation criteria. Results reported from the HCl preserved sample. The reported result for acrolein is for screening only and cannot be used for compliance purposes.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB		
Lab Sample ID:	JD51497-4	**Date Sampled:**	09/14/22
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/16/22
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	N296479.D	1	09/21/22 17:19	TS	n/a	n/a	VN12551
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	10	3.7	ug/l	
107-13-1	Acrylonitrile	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.35	ug/l	
75-25-2	Bromoform	ND	1.0	0.60	ug/l	
74-83-9	Bromomethane	ND	1.0	0.87	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	0.54	1.0	0.33	ug/l	J
75-00-3	Chloroethane	ND	1.0	0.54	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.78	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.43	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.30	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.69	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.45	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.46	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.42	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.37	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.41	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.32	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	0.36	1.0	0.36	ug/l	J
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.43	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB		
Lab Sample ID:	JD51497-4	**Date Sampled:**	09/14/22
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/16/22
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.35	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	118%		80-128%
2037-26-5	Toluene-D8 (SUR)	98%		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	90%		79-117%
1868-53-7	Dibromofluoromethane (S)	108%		84-121%

(a) Results reported from the HCl preserved sample. The reported result for acrolein is for screening only and cannot be used for compliance purposes.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody
- QC Evaluation: Honeywell Limits

Parameter Certification Exceptions

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
1,2-Dichlorobenzene	95-50-1	**EPA 625.1**	AQ	SGS is not certified for this parameter.[a]
1,4-Dichlorobenzene	106-46-7	**EPA 625.1**	AQ	SGS is not certified for this parameter.[a]

(a) Lab cert for analyte not supported by NJDEP, OQA. Only methods/analytes required for reporting by the State of NJ can be certified in NJ. Use of this analyte for compliance must be verified through the appropriate regulatory office.

Certification exceptions shown are based on the New Jersey DEP certifications. Applicability in other states may vary. Please contact your laboratory representative if additional information is required for a specific regulatory program.

GW
TB

Comp

Fedex: 5894-7366-2346

SGS Laboratories
2235 Route 130
Dayton, NJ 08810
(p) 732-239-0200

Chain Of Custody/Analysis Request
Project Name: Buffalo Alltift Landfill - Semi-Annual
Lab Project Name: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

AESI Ref: 38609.59845
COC #: 090722-Alltift
Lab Use Only
Lab_SDG
Lab ID

Privileged & Confidential
EDD To: Ryan Belcher (ryan.belcher@woodplc.com)
Sampler: Benjamin Hendry
Sampling Company: Jacobs
P O #: A001132428
qa12
Standard -
Rush Charges Authorized for
Date Around Time Required -

Facility Name: Alltift Landfill
Location of Site: Buffalo, New York
Site Code: 30130

STANDARD

Client Contact: (name, co., address)
Sasa Jazic
Honeywell International
301 Plainfield Road, Suite 330
Syracuse, New York 13212
Sasa.Jazic@Honeywell.com
Hardcopy Report To: Do Not Send Hardcopy Unless Requested
Invoice To:

Job No: JD 51497
Coolers: 2

Sample Identification				Sample Date	Sample Time	Matrix Code	Medium Code	Sample Type	# of Cont.	Composite (Y or N)	Filter (Type Used/Brand, Size/Efficiency)	Preservative 1	Preservative 0	Preservative 2	Preservative 2	Preservative 3	Preservative 0	Preservative 0	Lab Sample Numbers
Sys_Loc_Code	Start Depth (ft)	End Depth (ft)	Sys_Sample_Code							Units									
1 N/A	---	---	Grab 1 - 090722 - BSA Discharge	09-07-2022	0930	GW	WATER	REG	5	N	N	3	2						E28
2 N/A	---	---	Grab 2 - 090722 - BSA Discharge	09-07-2022	1130	GW	WATER	REG	5	N	N	3	2						VSII
3 N/A	---	---	Grab 3 - 090722 - BSA Discharge	09-07-2022	1330	GW	WATER	REG	5	N	N	3	2						A12
4 N/A	---	---	Grab 4 - 090722 - BSA Discharge	09-07-2022	1530	GW	WATER	REG	5	N	N	3	2						GW
5 N/A	---	---	Comp - 090722 - BSA Discharge	09-07-2022	1545	GW	WATER	REG	6	N	N			1	1	1	1	2	2
6 N/A	---	---	TB	09/07/2022	--	WQ	WATER	TB	2	N	N	2							3
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Prior to analysis, grab samples 1, 2, 3 & 4 to be composited by lab

Special Instructions:	Sample Location	pH Range	pH	Max Temp (°C)	Temp (°C)	Flow	Cond. (mS/cm)	Other	Notes: For COC questions, contact --
									Benjamin Hendry benjamin.hendry@jacobs.com 315-806-4029

Relinquished by	Company	Received by	Company	Condition	Custody Seals Intact
	Date/Time: 09-08-22/1500	FEDEX	Date/Time: 09/14/22 10:00	Cooler Temp: 2.1	
Relinquished by: Feder	Company	Received by: JP	Company	Condition	Custody Seals Intact
	Date/Time: 9/9/22/0:4		Date/Time	Cooler Temp	

Preservatives: 0 = None; 1 = HCL; 2 = HNO3; 3 = H2SO4; 4 = NaOH; 5 = Zn. Acetate; 6 = MeOH; 7 = NaHSO4; 8 = Other (specify):

2.3

Initial Assessment NA (2A)
Label Verification

JD51497: Chain of Custody
Page 1 of 5

SGS Sample Receipt Summary

Job Number: JD51497 **Client:** HONEYWELL INTERNATIONAL **Project:** 30130-ALLTIFT LANDFILL

Date / Time Received: 9/9/2022 10:00:00 AM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (2.3);

Cooler Temps (Corrected) °C: Cooler 1: (2.9);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

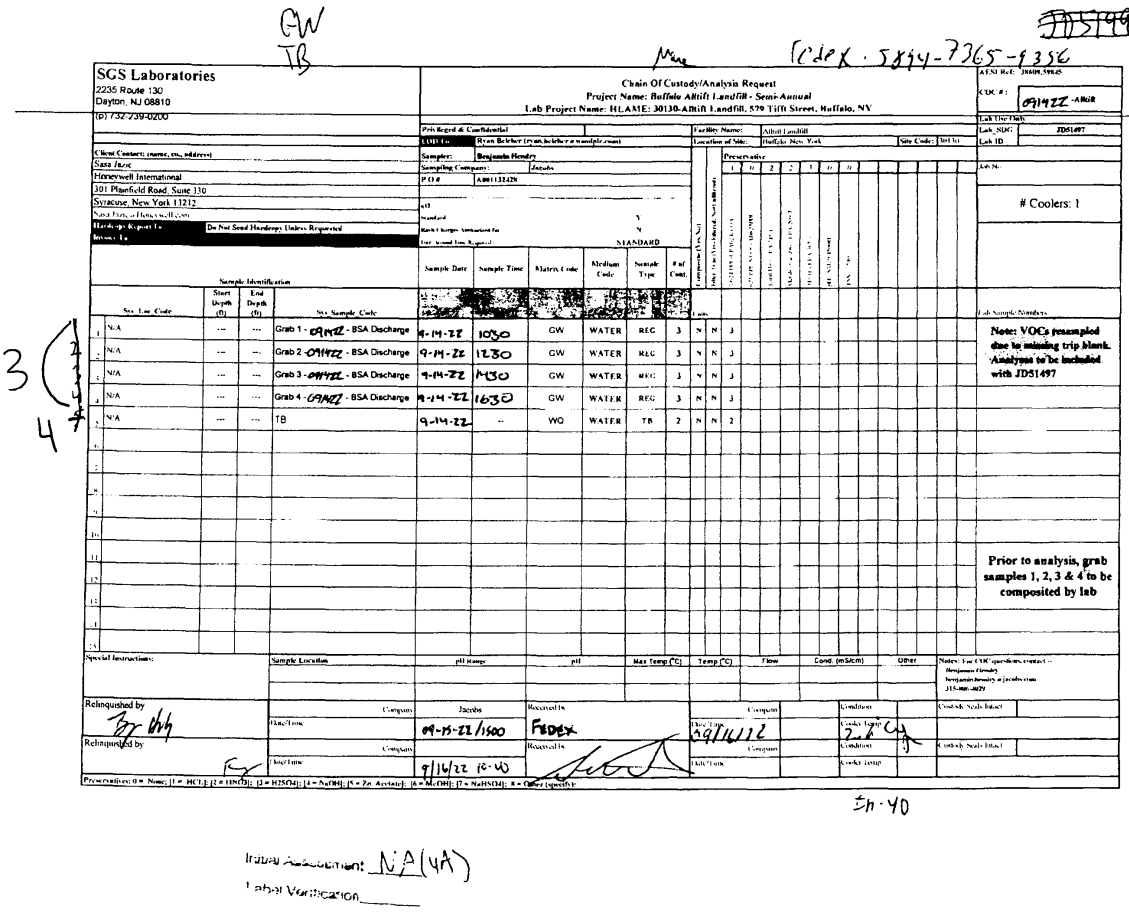
Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments 1). Sample "TB" was not received. Please confirm.

SM089-03
Rev. Date 12/7/17



SGS Laboratories
2235 Route 130
Dayton, NJ 08810
(p) 732-329-0200

Chain Of Custody/Analysis Request
Project Name: Buffalo Altlift Landfill - Semi-Annual
Lab Project Name: RLAME: 30130-Altlift Landfill, 570 Tifft Street, Buffalo, NY

COC #: 091422-AltLft

Client Contact: (name, co., address)
Sass Inc
Honeywell International
301 Plainfield Road, Suite 330
Syracuse, New York 13212

Facility Name: Altlift Landfill
Location of Site: Buffalo, New York
Site Code: 30130

Lab Use Only
Lab SDG: JD51497
Lab ID

Sampler: Benjamin Hendry
Sampling Company: Jacobs
PO #: A0011132428

Preservative

Job No.

Coolers: 1

STANDARD

| Sample Identification | | | | Sample Date | Sample Time | Matrix Code | Medium Code | Sample Type | # of Cont. | | | |

Job Change Order: JD51497

Requested Date:	9/21/2022	**Received Date:**	9/9/2022
Account Name:	Honeywell International Inc. OMM	**Due Date:**	9/21/2022
Project Description:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Bu	**Deliverable:**	COMMBN
C/O Initiated By:	JADONS **PM:** JBS	**TAT (Days):**	12

==========

Sample #: JD51497-2

Dept:

TAT: 12

Change:
Please relog/re-run for TSS (okay to proceed out of Hold Time)

COMP-090722-BSA DISCHARGE

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Above Changes Per: John Formoza **Date/Time:** 9/21/2022

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Job Change Order: JD51497

Requested Date: 9/22/2022 **Received Date:** 9/9/2022

Account Name: Honeywell International Inc. OMM **Due Date:** 9/22/2022

Project Description: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Bu **Deliverable:** COMMBN

C/O Initiated By: JADONS **PM:** JBS **TAT (Days):** 2

==========

Sample #: JD51497-2R **Change:** Please revise TAT to 2 days with a due date of 9/23 for the TSS relog run.

Dept:

TAT: 2

COMP-090722-BSA DISCHARGE

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Sample #: JD51497- **Change:**

Dept:

TAT:

==========

Above Changes Per: John Formoza **Date/Time:** 9/22/2022

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

JD51497: Chain of Custody
Page 5 of 5

QC Evaluation: Honeywell Limits

Job Number: JD51497
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/07/22 thru 09/14/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V4D5383	EPA 624.1						
V4D5383-BS	107-02-8	Acrolein	BSP	REC	99	%	70-130
V4D5383-BS	107-13-1	Acrylonitrile	BSP	REC	122	%	70-130
V4D5383-BS	71-43-2	Benzene	BSP	REC	90	%	70-130
V4D5383-BS	75-27-4	Bromodichloromethane	BSP	REC	87	%	70-130
V4D5383-BS	75-25-2	Bromoform	BSP	REC	88	%	70-130
V4D5383-BS	74-83-9	Bromomethane	BSP	REC	101	%	70-130
V4D5383-BS	56-23-5	Carbon tetrachloride	BSP	REC	89	%	70-130
V4D5383-BS	108-90-7	Chlorobenzene	BSP	REC	95	%	70-130
V4D5383-BS	75-00-3	Chloroethane	BSP	REC	125	%	70-130
V4D5383-BS	110-75-8	2-Chloroethyl vinyl ether	BSP	REC	142	%	70-130
V4D5383-BS	67-66-3	Chloroform	BSP	REC	88	%	70-130
V4D5383-BS	74-87-3	Chloromethane	BSP	REC	117	%	70-130
V4D5383-BS	124-48-1	Dibromochloromethane	BSP	REC	93	%	70-130
V4D5383-BS	95-50-1	1,2-Dichlorobenzene	BSP	REC	96	%	70-130
V4D5383-BS	541-73-1	1,3-Dichlorobenzene	BSP	REC	93	%	70-130
V4D5383-BS	106-46-7	1,4-Dichlorobenzene	BSP	REC	88	%	70-130
V4D5383-BS	75-71-8	Dichlorodifluoromethane	BSP	REC	101	%	70-130
V4D5383-BS	75-34-3	1,1-Dichloroethane	BSP	REC	96	%	70-130
V4D5383-BS	107-06-2	1,2-Dichloroethane	BSP	REC	84	%	70-130
V4D5383-BS	75-35-4	1,1-Dichloroethene	BSP	REC	90	%	70-130
V4D5383-BS	156-59-2	cis-1,2-Dichloroethene	BSP	REC	94	%	70-130
V4D5383-BS	156-60-5	trans-1,2-Dichloroethene	BSP	REC	92	%	70-130
V4D5383-BS	78-87-5	1,2-Dichloropropane	BSP	REC	96	%	70-130
V4D5383-BS	10061-01-5	cis-1,3-Dichloropropene	BSP	REC	94	%	70-130
V4D5383-BS	10061-02-6	trans-1,3-Dichloropropene	BSP	REC	94	%	70-130
V4D5383-BS	100-41-4	Ethylbenzene	BSP	REC	94	%	70-130
V4D5383-BS	75-09-2	Methylene chloride	BSP	REC	95	%	70-130
V4D5383-BS	79-34-5	1,1,2,2-Tetrachloroethane	BSP	REC	103	%	70-130
V4D5383-BS	127-18-4	Tetrachloroethene	BSP	REC	90	%	70-130
V4D5383-BS	108-88-3	Toluene	BSP	REC	92	%	70-130
V4D5383-BS	71-55-6	1,1,1-Trichloroethane	BSP	REC	91	%	70-130
V4D5383-BS	79-00-5	1,1,2-Trichloroethane	BSP	REC	100	%	70-130
V4D5383-BS	79-01-6	Trichloroethene	BSP	REC	98	%	70-130
V4D5383-BS	75-69-4	Trichlorofluoromethane	BSP	REC	111	%	70-130
V4D5383-BS	75-01-4	Vinyl chloride	BSP	REC	117	%	70-130
V4D5383-BS	1330-20-7	Xylenes (total)	BSP	REC	96	%	70-130
V4D5383-BS	17060-07-0	1,2-Dichloroethane-D4 (SUR)	BSP	SURR	85	%	70-130
V4D5383-BS	2037-26-5	Toluene-D8 (SUR)	BSP	SURR	98	%	70-130
V4D5383-BS	460-00-4	4-Bromofluorobenzene (SUR)	BSP	SURR	101	%	70-130
V4D5383-BS	1868-53-7	Dibromofluoromethane (S)	BSP	SURR	99	%	70-130
JD51834-4MS*	107-02-8	Acrolein	MS	REC	0 [a]	%	70-130
JD51834-4MS*	107-13-1	Acrylonitrile	MS	REC	147	%	70-130

* Sample used for QC is not from job JD51497

QC Evaluation: Honeywell Limits

Job Number: JD51497
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/07/22 thru 09/14/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD51834-4MS*	71-43-2	Benzene	MS	REC	92	%	70-130
JD51834-4MS*	75-27-4	Bromodichloromethane	MS	REC	89	%	70-130
JD51834-4MS*	75-25-2	Bromoform	MS	REC	91	%	70-130
JD51834-4MS*	74-83-9	Bromomethane	MS	REC	89	%	70-130
JD51834-4MS*	56-23-5	Carbon tetrachloride	MS	REC	91	%	70-130
JD51834-4MS*	108-90-7	Chlorobenzene	MS	REC	96	%	70-130
JD51834-4MS*	75-00-3	Chloroethane	MS	REC	123	%	70-130
JD51834-4MS*	110-75-8	2-Chloroethyl vinyl ether	MS	REC	146	%	70-130
JD51834-4MS*	67-66-3	Chloroform	MS	REC	90	%	70-130
JD51834-4MS*	74-87-3	Chloromethane	MS	REC	105	%	70-130
JD51834-4MS*	124-48-1	Dibromochloromethane	MS	REC	94	%	70-130
JD51834-4MS*	95-50-1	1,2-Dichlorobenzene	MS	REC	97	%	70-130
JD51834-4MS*	541-73-1	1,3-Dichlorobenzene	MS	REC	95	%	70-130
JD51834-4MS*	106-46-7	1,4-Dichlorobenzene	MS	REC	89	%	70-130
JD51834-4MS*	75-71-8	Dichlorodifluoromethane	MS	REC	98	%	70-130
JD51834-4MS*	75-34-3	1,1-Dichloroethane	MS	REC	98	%	70-130
JD51834-4MS*	107-06-2	1,2-Dichloroethane	MS	REC	84	%	70-130
JD51834-4MS*	75-35-4	1,1-Dichloroethene	MS	REC	91	%	70-130
JD51834-4MS*	156-59-2	cis-1,2-Dichloroethene	MS	REC	93	%	70-130
JD51834-4MS*	156-60-5	trans-1,2-Dichloroethene	MS	REC	91	%	70-130
JD51834-4MS*	78-87-5	1,2-Dichloropropane	MS	REC	97	%	70-130
JD51834-4MS*	10061-01-5	cis-1,3-Dichloropropene	MS	REC	95	%	70-130
JD51834-4MS*	10061-02-6	trans-1,3-Dichloropropene	MS	REC	95	%	70-130
JD51834-4MS*	100-41-4	Ethylbenzene	MS	REC	95	%	70-130
JD51834-4MS*	75-09-2	Methylene chloride	MS	REC	95	%	70-130
JD51834-4MS*	79-34-5	1,1,2,2-Tetrachloroethane	MS	REC	104	%	70-130
JD51834-4MS*	127-18-4	Tetrachloroethene	MS	REC	93	%	70-130
JD51834-4MS*	108-88-3	Toluene	MS	REC	94	%	70-130
JD51834-4MS*	71-55-6	1,1,1-Trichloroethane	MS	REC	92	%	70-130
JD51834-4MS*	79-00-5	1,1,2-Trichloroethane	MS	REC	100	%	70-130
JD51834-4MS*	79-01-6	Trichloroethene	MS	REC	101	%	70-130
JD51834-4MS*	75-69-4	Trichlorofluoromethane	MS	REC	109	%	70-130
JD51834-4MS*	75-01-4	Vinyl chloride	MS	REC	105	%	70-130
JD51834-4MS*	1330-20-7	Xylenes (total)	MS	REC	97	%	70-130
JD51834-4MS*	17060-07-0	1,2-Dichloroethane-D4 (SUR)	MS	SURR	84	%	70-130
JD51834-4MS*	2037-26-5	Toluene-D8 (SUR)	MS	SURR	97	%	70-130
JD51834-4MS*	460-00-4	4-Bromofluorobenzene (SUR)	MS	SURR	101	%	70-130
JD51834-4MS*	1868-53-7	Dibromofluoromethane (S)	MS	SURR	98	%	70-130
JD51834-4MSD*	107-02-8	Acrolein	MSD	REC	0 [a]	%	70-130
JD51834-4MSD*	107-02-8	Acrolein	MSD	RPD	0	%	30
JD51834-4MSD*	107-13-1	Acrylonitrile	MSD	REC	128	%	70-130
JD51834-4MSD*	107-13-1	Acrylonitrile	MSD	RPD	7	%	30
JD51834-4MSD*	71-43-2	Benzene	MSD	REC	91	%	70-130
JD51834-4MSD*	71-43-2	Benzene	MSD	RPD	1	%	30
JD51834-4MSD*	75-27-4	Bromodichloromethane	MSD	REC	89	%	70-130

* Sample used for QC is not from job JD51497

QC Evaluation: Honeywell Limits

Job Number: JD51497
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/07/22 thru 09/14/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD51834-4MSD*	75-27-4	Bromodichloromethane	MSD	RPD	0	%	30
JD51834-4MSD*	75-25-2	Bromoform	MSD	REC	90	%	70-130
JD51834-4MSD*	75-25-2	Bromoform	MSD	RPD	1	%	30
JD51834-4MSD*	74-83-9	Bromomethane	MSD	REC	98	%	70-130
JD51834-4MSD*	74-83-9	Bromomethane	MSD	RPD	10	%	30
JD51834-4MSD*	56-23-5	Carbon tetrachloride	MSD	REC	92	%	70-130
JD51834-4MSD*	56-23-5	Carbon tetrachloride	MSD	RPD	1	%	30
JD51834-4MSD*	108-90-7	Chlorobenzene	MSD	REC	97	%	70-130
JD51834-4MSD*	108-90-7	Chlorobenzene	MSD	RPD	1	%	30
JD51834-4MSD*	75-00-3	Chloroethane	MSD	REC	122	%	70-130
JD51834-4MSD*	75-00-3	Chloroethane	MSD	RPD	1	%	30
JD51834-4MSD*	110-75-8	2-Chloroethyl vinyl ether	MSD	REC	145	%	70-130
JD51834-4MSD*	110-75-8	2-Chloroethyl vinyl ether	MSD	RPD	1	%	30
JD51834-4MSD*	67-66-3	Chloroform	MSD	REC	90	%	70-130
JD51834-4MSD*	67-66-3	Chloroform	MSD	RPD	0	%	30
JD51834-4MSD*	74-87-3	Chloromethane	MSD	REC	107	%	70-130
JD51834-4MSD*	74-87-3	Chloromethane	MSD	RPD	1	%	30
JD51834-4MSD*	124-48-1	Dibromochloromethane	MSD	REC	94	%	70-130
JD51834-4MSD*	124-48-1	Dibromochloromethane	MSD	RPD	0	%	30
JD51834-4MSD*	95-50-1	1,2-Dichlorobenzene	MSD	REC	96	%	70-130
JD51834-4MSD*	95-50-1	1,2-Dichlorobenzene	MSD	RPD	1	%	30
JD51834-4MSD*	541-73-1	1,3-Dichlorobenzene	MSD	REC	94	%	70-130
JD51834-4MSD*	541-73-1	1,3-Dichlorobenzene	MSD	RPD	1	%	30
JD51834-4MSD*	106-46-7	1,4-Dichlorobenzene	MSD	REC	89	%	70-130
JD51834-4MSD*	106-46-7	1,4-Dichlorobenzene	MSD	RPD	0	%	30
JD51834-4MSD*	75-71-8	Dichlorodifluoromethane	MSD	REC	98	%	70-130
JD51834-4MSD*	75-71-8	Dichlorodifluoromethane	MSD	RPD	0	%	30
JD51834-4MSD*	75-34-3	1,1-Dichloroethane	MSD	REC	97	%	70-130
JD51834-4MSD*	75-34-3	1,1-Dichloroethane	MSD	RPD	1	%	30
JD51834-4MSD*	107-06-2	1,2-Dichloroethane	MSD	REC	84	%	70-130
JD51834-4MSD*	107-06-2	1,2-Dichloroethane	MSD	RPD	1	%	30
JD51834-4MSD*	75-35-4	1,1-Dichloroethene	MSD	REC	92	%	70-130
JD51834-4MSD*	75-35-4	1,1-Dichloroethene	MSD	RPD	1	%	30
JD51834-4MSD*	156-59-2	cis-1,2-Dichloroethene	MSD	REC	93	%	70-130
JD51834-4MSD*	156-59-2	cis-1,2-Dichloroethene	MSD	RPD	1	%	30
JD51834-4MSD*	156-60-5	trans-1,2-Dichloroethene	MSD	REC	92	%	70-130
JD51834-4MSD*	156-60-5	trans-1,2-Dichloroethene	MSD	RPD	1	%	30
JD51834-4MSD*	78-87-5	1,2-Dichloropropane	MSD	REC	96	%	70-130
JD51834-4MSD*	78-87-5	1,2-Dichloropropane	MSD	RPD	1	%	30
JD51834-4MSD*	10061-01-5	cis-1,3-Dichloropropene	MSD	REC	95	%	70-130
JD51834-4MSD*	10061-01-5	cis-1,3-Dichloropropene	MSD	RPD	1	%	30
JD51834-4MSD*	10061-02-6	trans-1,3-Dichloropropene	MSD	REC	95	%	70-130
JD51834-4MSD*	10061-02-6	trans-1,3-Dichloropropene	MSD	RPD	1	%	30
JD51834-4MSD*	100-41-4	Ethylbenzene	MSD	REC	96	%	70-130
JD51834-4MSD*	100-41-4	Ethylbenzene	MSD	RPD	1	%	30

* Sample used for QC is not from job JD51497

QC Evaluation: Honeywell Limits

Job Number: JD51497
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/07/22 thru 09/14/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD51834-4MSD*	75-09-2	Methylene chloride	MSD	REC	94	%	70-130
JD51834-4MSD*	75-09-2	Methylene chloride	MSD	RPD	1	%	30
JD51834-4MSD*	79-34-5	1,1,2,2-Tetrachloroethane	MSD	REC	103	%	70-130
JD51834-4MSD*	79-34-5	1,1,2,2-Tetrachloroethane	MSD	RPD	1	%	30
JD51834-4MSD*	127-18-4	Tetrachloroethene	MSD	REC	93	%	70-130
JD51834-4MSD*	127-18-4	Tetrachloroethene	MSD	RPD	1	%	30
JD51834-4MSD*	108-88-3	Toluene	MSD	REC	93	%	70-130
JD51834-4MSD*	108-88-3	Toluene	MSD	RPD	1	%	30
JD51834-4MSD*	71-55-6	1,1,1-Trichloroethane	MSD	REC	91	%	70-130
JD51834-4MSD*	71-55-6	1,1,1-Trichloroethane	MSD	RPD	1	%	30
JD51834-4MSD*	79-00-5	1,1,2-Trichloroethane	MSD	REC	100	%	70-130
JD51834-4MSD*	79-00-5	1,1,2-Trichloroethane	MSD	RPD	0	%	30
JD51834-4MSD*	79-01-6	Trichloroethene	MSD	REC	100	%	70-130
JD51834-4MSD*	79-01-6	Trichloroethene	MSD	RPD	0	%	30
JD51834-4MSD*	75-69-4	Trichlorofluoromethane	MSD	REC	110	%	70-130
JD51834-4MSD*	75-69-4	Trichlorofluoromethane	MSD	RPD	0	%	30
JD51834-4MSD*	75-01-4	Vinyl chloride	MSD	REC	106	%	70-130
JD51834-4MSD*	75-01-4	Vinyl chloride	MSD	RPD	0	%	30
JD51834-4MSD*	1330-20-7	Xylenes (total)	MSD	REC	97	%	70-130
JD51834-4MSD*	1330-20-7	Xylenes (total)	MSD	RPD	0	%	30
JD51834-4MSD*	17060-07-0	1,2-Dichloroethane-D4 (SUR)	MSD	SURR	84	%	70-130
JD51834-4MSD*	2037-26-5	Toluene-D8 (SUR)	MSD	SURR	97	%	70-130
JD51834-4MSD*	460-00-4	4-Bromofluorobenzene (SUR)	MSD	SURR	102	%	70-130
JD51834-4MSD*	1868-53-7	Dibromofluoromethane (S)	MSD	SURR	99	%	70-130
V4D5383-MB	17060-07-0	1,2-Dichloroethane-D4 (SUR)	MB	SURR	87	%	70-130
V4D5383-MB	2037-26-5	Toluene-D8 (SUR)	MB	SURR	101	%	70-130
V4D5383-MB	460-00-4	4-Bromofluorobenzene (SUR)	MB	SURR	100	%	70-130
V4D5383-MB	1868-53-7	Dibromofluoromethane (S)	MB	SURR	98	%	70-130
JD51497-1	17060-07-0	1,2-Dichloroethane-D4 (SUR)	SAMP	SURR	88	%	70-130
JD51497-1	2037-26-5	Toluene-D8 (SUR)	SAMP	SURR	100	%	70-130
JD51497-1	460-00-4	4-Bromofluorobenzene (SUR)	SAMP	SURR	99	%	70-130
JD51497-1	1868-53-7	Dibromofluoromethane (S)	SAMP	SURR	99	%	70-130
VN12551	EPA 624.1						
VN12551-BS	107-02-8	Acrolein	BSP	REC	86	%	70-130
VN12551-BS	107-13-1	Acrylonitrile	BSP	REC	94	%	70-130
VN12551-BS	71-43-2	Benzene	BSP	REC	90	%	70-130
VN12551-BS	75-27-4	Bromodichloromethane	BSP	REC	96	%	70-130
VN12551-BS	75-25-2	Bromoform	BSP	REC	111	%	70-130
VN12551-BS	74-83-9	Bromomethane	BSP	REC	110	%	70-130
VN12551-BS	56-23-5	Carbon tetrachloride	BSP	REC	99	%	70-130
VN12551-BS	108-90-7	Chlorobenzene	BSP	REC	86	%	70-130
VN12551-BS	75-00-3	Chloroethane	BSP	REC	107	%	70-130
VN12551-BS	110-75-8	2-Chloroethyl vinyl ether	BSP	REC	87	%	70-130

* Sample used for QC is not from job JD51497

QC Evaluation: Honeywell Limits

Job Number: JD51497
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Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/07/22 thru 09/14/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
VN12551-BS	67-66-3	Chloroform	BSP	REC	93	%	70-130
VN12551-BS	74-87-3	Chloromethane	BSP	REC	113	%	70-130
VN12551-BS	124-48-1	Dibromochloromethane	BSP	REC	100	%	70-130
VN12551-BS	95-50-1	1,2-Dichlorobenzene	BSP	REC	89	%	70-130
VN12551-BS	541-73-1	1,3-Dichlorobenzene	BSP	REC	89	%	70-130
VN12551-BS	106-46-7	1,4-Dichlorobenzene	BSP	REC	91	%	70-130
VN12551-BS	75-71-8	Dichlorodifluoromethane	BSP	REC	84	%	70-130
VN12551-BS	75-34-3	1,1-Dichloroethane	BSP	REC	92	%	70-130
VN12551-BS	107-06-2	1,2-Dichloroethane	BSP	REC	96	%	70-130
VN12551-BS	75-35-4	1,1-Dichloroethene	BSP	REC	87	%	70-130
VN12551-BS	156-59-2	cis-1,2-Dichloroethene	BSP	REC	86	%	70-130
VN12551-BS	156-60-5	trans-1,2-Dichloroethene	BSP	REC	82	%	70-130
VN12551-BS	78-87-5	1,2-Dichloropropane	BSP	REC	90	%	70-130
VN12551-BS	10061-01-5	cis-1,3-Dichloropropene	BSP	REC	79	%	70-130
VN12551-BS	10061-02-6	trans-1,3-Dichloropropene	BSP	REC	89	%	70-130
VN12551-BS	100-41-4	Ethylbenzene	BSP	REC	89	%	70-130
VN12551-BS	75-09-2	Methylene chloride	BSP	REC	95	%	70-130
VN12551-BS	79-34-5	1,1,2,2-Tetrachloroethane	BSP	REC	90	%	70-130
VN12551-BS	127-18-4	Tetrachloroethene	BSP	REC	99	%	70-130
VN12551-BS	108-88-3	Toluene	BSP	REC	89	%	70-130
VN12551-BS	71-55-6	1,1,1-Trichloroethane	BSP	REC	94	%	70-130
VN12551-BS	79-00-5	1,1,2-Trichloroethane	BSP	REC	92	%	70-130
VN12551-BS	79-01-6	Trichloroethene	BSP	REC	83	%	70-130
VN12551-BS	75-69-4	Trichlorofluoromethane	BSP	REC	111	%	70-130
VN12551-BS	75-01-4	Vinyl chloride	BSP	REC	113	%	70-130
VN12551-BS	1330-20-7	Xylenes (total)	BSP	REC	89	%	70-130
VN12551-BS	17060-07-0	1,2-Dichloroethane-D4 (SUR)	BSP	SURR	118	%	70-130
VN12551-BS	2037-26-5	Toluene-D8 (SUR)	BSP	SURR	106	%	70-130
VN12551-BS	460-00-4	4-Bromofluorobenzene (SUR)	BSP	SURR	84	%	70-130
VN12551-BS	1868-53-7	Dibromofluoromethane (S)	BSP	SURR	108	%	70-130
JD51497-3MS	107-02-8	Acrolein	MS	REC	80	%	70-130
JD51497-3MS	107-13-1	Acrylonitrile	MS	REC	96	%	70-130
JD51497-3MS	71-43-2	Benzene	MS	REC	93	%	70-130
JD51497-3MS	75-27-4	Bromodichloromethane	MS	REC	98	%	70-130
JD51497-3MS	75-25-2	Bromoform	MS	REC	111	%	70-130
JD51497-3MS	74-83-9	Bromomethane	MS	REC	81	%	70-130
JD51497-3MS	56-23-5	Carbon tetrachloride	MS	REC	87	%	70-130
JD51497-3MS	108-90-7	Chlorobenzene	MS	REC	91	%	70-130
JD51497-3MS	75-00-3	Chloroethane	MS	REC	75	%	70-130
JD51497-3MS	110-75-8	2-Chloroethyl vinyl ether	MS	REC	97	%	70-130
JD51497-3MS	67-66-3	Chloroform	MS	REC	97	%	70-130
JD51497-3MS	74-87-3	Chloromethane	MS	REC	85	%	70-130
JD51497-3MS	124-48-1	Dibromochloromethane	MS	REC	101	%	70-130
JD51497-3MS	95-50-1	1,2-Dichlorobenzene	MS	REC	90	%	70-130
JD51497-3MS	541-73-1	1,3-Dichlorobenzene	MS	REC	91	%	70-130

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QC Evaluation: Honeywell Limits

Job Number: JD51497
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/07/22 thru 09/14/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD51497-3MS	106-46-7	1,4-Dichlorobenzene	MS	REC	90	%	70-130
JD51497-3MS	75-71-8	Dichlorodifluoromethane	MS	REC	43	%	70-130
JD51497-3MS	75-34-3	1,1-Dichloroethane	MS	REC	96	%	70-130
JD51497-3MS	107-06-2	1,2-Dichloroethane	MS	REC	101	%	70-130
JD51497-3MS	75-35-4	1,1-Dichloroethene	MS	REC	81	%	70-130
JD51497-3MS	156-59-2	cis-1,2-Dichloroethene	MS	REC	90	%	70-130
JD51497-3MS	156-60-5	trans-1,2-Dichloroethene	MS	REC	85	%	70-130
JD51497-3MS	78-87-5	1,2-Dichloropropane	MS	REC	93	%	70-130
JD51497-3MS	10061-01-5	cis-1,3-Dichloropropene	MS	REC	82	%	70-130
JD51497-3MS	10061-02-6	trans-1,3-Dichloropropene	MS	REC	90	%	70-130
JD51497-3MS	100-41-4	Ethylbenzene	MS	REC	88	%	70-130
JD51497-3MS	75-09-2	Methylene chloride	MS	REC	98	%	70-130
JD51497-3MS	79-34-5	1,1,2,2-Tetrachloroethane	MS	REC	95	%	70-130
JD51497-3MS	127-18-4	Tetrachloroethene	MS	REC	89	%	70-130
JD51497-3MS	108-88-3	Toluene	MS	REC	87	%	70-130
JD51497-3MS	71-55-6	1,1,1-Trichloroethane	MS	REC	86	%	70-130
JD51497-3MS	79-00-5	1,1,2-Trichloroethane	MS	REC	98	%	70-130
JD51497-3MS	79-01-6	Trichloroethene	MS	REC	82	%	70-130
JD51497-3MS	75-69-4	Trichlorofluoromethane	MS	REC	65	%	70-130
JD51497-3MS	75-01-4	Vinyl chloride	MS	REC	78	%	70-130
JD51497-3MS	1330-20-7	Xylenes (total)	MS	REC	87	%	70-130
JD51497-3MS	17060-07-0	1,2-Dichloroethane-D4 (SUR)	MS	SURR	118	%	70-130
JD51497-3MS	2037-26-5	Toluene-D8 (SUR)	MS	SURR	102	%	70-130
JD51497-3MS	460-00-4	4-Bromofluorobenzene (SUR)	MS	SURR	88	%	70-130
JD51497-3MS	1868-53-7	Dibromofluoromethane (S)	MS	SURR	109	%	70-130
JD51497-3MSD	107-02-8	Acrolein	MSD	REC	95	%	70-130
JD51497-3MSD	107-02-8	Acrolein	MSD	RPD	17	%	30
JD51497-3MSD	107-13-1	Acrylonitrile	MSD	REC	111	%	70-130
JD51497-3MSD	107-13-1	Acrylonitrile	MSD	RPD	15	%	30
JD51497-3MSD	71-43-2	Benzene	MSD	REC	96	%	70-130
JD51497-3MSD	71-43-2	Benzene	MSD	RPD	3	%	30
JD51497-3MSD	75-27-4	Bromodichloromethane	MSD	REC	110	%	70-130
JD51497-3MSD	75-27-4	Bromodichloromethane	MSD	RPD	12	%	30
JD51497-3MSD	75-25-2	Bromoform	MSD	REC	125	%	70-130
JD51497-3MSD	75-25-2	Bromoform	MSD	RPD	11	%	30
JD51497-3MSD	74-83-9	Bromomethane	MSD	REC	102	%	70-130
JD51497-3MSD	74-83-9	Bromomethane	MSD	RPD	23	%	30
JD51497-3MSD	56-23-5	Carbon tetrachloride	MSD	REC	97	%	70-130
JD51497-3MSD	56-23-5	Carbon tetrachloride	MSD	RPD	11	%	30
JD51497-3MSD	108-90-7	Chlorobenzene	MSD	REC	111	%	70-130
JD51497-3MSD	108-90-7	Chlorobenzene	MSD	RPD	4	%	30
JD51497-3MSD	75-00-3	Chloroethane	MSD	REC	98	%	70-130
JD51497-3MSD	75-00-3	Chloroethane	MSD	RPD	26	%	30
JD51497-3MSD	110-75-8	2-Chloroethyl vinyl ether	MSD	REC	110	%	70-130
JD51497-3MSD	110-75-8	2-Chloroethyl vinyl ether	MSD	RPD	12	%	30

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QC Evaluation: Honeywell Limits

Job Number: JD51497
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Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/07/22 thru 09/14/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD51497-3MSD	67-66-3	Chloroform	MSD	REC	101	%	70-130
JD51497-3MSD	67-66-3	Chloroform	MSD	RPD	4	%	30
JD51497-3MSD	74-87-3	Chloromethane	MSD	REC	112	%	70-130
JD51497-3MSD	74-87-3	Chloromethane	MSD	RPD	27	%	30
JD51497-3MSD	124-48-1	Dibromochloromethane	MSD	REC	110	%	70-130
JD51497-3MSD	124-48-1	Dibromochloromethane	MSD	RPD	9	%	30
JD51497-3MSD	95-50-1	1,2-Dichlorobenzene	MSD	REC	102	%	70-130
JD51497-3MSD	95-50-1	1,2-Dichlorobenzene	MSD	RPD	12	%	30
JD51497-3MSD	541-73-1	1,3-Dichlorobenzene	MSD	REC	103	%	70-130
JD51497-3MSD	541-73-1	1,3-Dichlorobenzene	MSD	RPD	12	%	30
JD51497-3MSD	106-46-7	1,4-Dichlorobenzene	MSD	REC	102	%	70-130
JD51497-3MSD	106-46-7	1,4-Dichlorobenzene	MSD	RPD	12	%	30
JD51497-3MSD	75-71-8	Dichlorodifluoromethane	MSD	REC	58	%	70-130
JD51497-3MSD	75-71-8	Dichlorodifluoromethane	MSD	RPD	29 [a]	%	30
JD51497-3MSD	75-34-3	1,1-Dichloroethane	MSD	REC	105	%	70-130
JD51497-3MSD	75-34-3	1,1-Dichloroethane	MSD	RPD	9	%	30
JD51497-3MSD	107-06-2	1,2-Dichloroethane	MSD	REC	112	%	70-130
JD51497-3MSD	107-06-2	1,2-Dichloroethane	MSD	RPD	10	%	30
JD51497-3MSD	75-35-4	1,1-Dichloroethene	MSD	REC	93	%	70-130
JD51497-3MSD	75-35-4	1,1-Dichloroethene	MSD	RPD	13	%	30
JD51497-3MSD	156-59-2	cis-1,2-Dichloroethene	MSD	REC	95	%	70-130
JD51497-3MSD	156-59-2	cis-1,2-Dichloroethene	MSD	RPD	5	%	30
JD51497-3MSD	156-60-5	trans-1,2-Dichloroethene	MSD	REC	94	%	70-130
JD51497-3MSD	156-60-5	trans-1,2-Dichloroethene	MSD	RPD	10	%	30
JD51497-3MSD	78-87-5	1,2-Dichloropropane	MSD	REC	103	%	70-130
JD51497-3MSD	78-87-5	1,2-Dichloropropane	MSD	RPD	10	%	30
JD51497-3MSD	10061-01-5	cis-1,3-Dichloropropene	MSD	REC	94	%	70-130
JD51497-3MSD	10061-01-5	cis-1,3-Dichloropropene	MSD	RPD	14	%	30
JD51497-3MSD	10061-02-6	trans-1,3-Dichloropropene	MSD	REC	101	%	70-130
JD51497-3MSD	10061-02-6	trans-1,3-Dichloropropene	MSD	RPD	11	%	30
JD51497-3MSD	100-41-4	Ethylbenzene	MSD	REC	96	%	70-130
JD51497-3MSD	100-41-4	Ethylbenzene	MSD	RPD	8	%	30
JD51497-3MSD	75-09-2	Methylene chloride	MSD	REC	115	%	70-130
JD51497-3MSD	75-09-2	Methylene chloride	MSD	RPD	16	%	30
JD51497-3MSD	79-34-5	1,1,2,2-Tetrachloroethane	MSD	REC	105	%	70-130
JD51497-3MSD	79-34-5	1,1,2,2-Tetrachloroethane	MSD	RPD	10	%	30
JD51497-3MSD	127-18-4	Tetrachloroethene	MSD	REC	95	%	70-130
JD51497-3MSD	127-18-4	Tetrachloroethene	MSD	RPD	7	%	30
JD51497-3MSD	108-88-3	Toluene	MSD	REC	91	%	70-130
JD51497-3MSD	108-88-3	Toluene	MSD	RPD	5	%	30
JD51497-3MSD	71-55-6	1,1,1-Trichloroethane	MSD	REC	99	%	70-130
JD51497-3MSD	71-55-6	1,1,1-Trichloroethane	MSD	RPD	14	%	30
JD51497-3MSD	79-00-5	1,1,2-Trichloroethane	MSD	REC	101	%	70-130
JD51497-3MSD	79-00-5	1,1,2-Trichloroethane	MSD	RPD	3	%	30
JD51497-3MSD	79-01-6	Trichloroethene	MSD	REC	86	%	70-130

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QC Evaluation: Honeywell Limits

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Collected: 09/07/22 thru 09/14/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD51497-3MSD	79-01-6	Trichloroethene	MSD	RPD	5	%	30
JD51497-3MSD	75-69-4	Trichlorofluoromethane	MSD	REC	85	%	70-130
JD51497-3MSD	75-69-4	Trichlorofluoromethane	MSD	RPD	26	%	30
JD51497-3MSD	75-01-4	Vinyl chloride	MSD	REC	106	%	70-130
JD51497-3MSD	75-01-4	Vinyl chloride	MSD	RPD	30	%	30
JD51497-3MSD	1330-20-7	Xylenes (total)	MSD	REC	94	%	70-130
JD51497-3MSD	1330-20-7	Xylenes (total)	MSD	RPD	8	%	30
JD51497-3MSD	17060-07-0	1,2-Dichloroethane-D4 (SUR)	MSD	SURR	116	%	70-130
JD51497-3MSD	2037-26-5	Toluene-D8 (SUR)	MSD	SURR	100	%	70-130
JD51497-3MSD	460-00-4	4-Bromofluorobenzene (SUR)	MSD	SURR	87	%	70-130
JD51497-3MSD	1868-53-7	Dibromofluoromethane (S)	MSD	SURR	108	%	70-130
VN12551-MB	17060-07-0	1,2-Dichloroethane-D4 (SUR)	MB	SURR	114	%	70-130
VN12551-MB	2037-26-5	Toluene-D8 (SUR)	MB	SURR	99	%	70-130
VN12551-MB	460-00-4	4-Bromofluorobenzene (SUR)	MB	SURR	88	%	70-130
VN12551-MB	1868-53-7	Dibromofluoromethane (S)	MB	SURR	109	%	70-130
JD51497-3	17060-07-0	1,2-Dichloroethane-D4 (SUR)	SAMP	SURR	119	%	70-130
JD51497-3	2037-26-5	Toluene-D8 (SUR)	SAMP	SURR	101	%	70-130
JD51497-3	460-00-4	4-Bromofluorobenzene (SUR)	SAMP	SURR	90	%	70-130
JD51497-3	1868-53-7	Dibromofluoromethane (S)	SAMP	SURR	107	%	70-130
JD51497-4	17060-07-0	1,2-Dichloroethane-D4 (SUR)	SAMP	SURR	118	%	70-130
JD51497-4	2037-26-5	Toluene-D8 (SUR)	SAMP	SURR	98	%	70-130
JD51497-4	460-00-4	4-Bromofluorobenzene (SUR)	SAMP	SURR	90	%	70-130
JD51497-4	1868-53-7	Dibromofluoromethane (S)	SAMP	SURR	108	%	70-130
OP41784B	EPA 625.1						
OP41784B-BS1	95-57-8	2-Chlorophenol	BSP	REC	67	%	30-130
OP41784B-BS1	59-50-7	4-Chloro-3-methyl phenol	BSP	REC	86	%	30-130
OP41784B-BS1	120-83-2	2,4-Dichlorophenol	BSP	REC	86	%	30-130
OP41784B-BS1	105-67-9	2,4-Dimethylphenol	BSP	REC	76	%	30-130
OP41784B-BS1	51-28-5	2,4-Dinitrophenol	BSP	REC	62	%	30-130
OP41784B-BS1	534-52-1	4,6-Dinitro-o-cresol	BSP	REC	78	%	30-130
OP41784B-BS1	88-75-5	2-Nitrophenol	BSP	REC	73	%	30-130
OP41784B-BS1	100-02-7	4-Nitrophenol	BSP	REC	36	%	30-130
OP41784B-BS1	87-86-5	Pentachlorophenol	BSP	REC	89	%	30-130
OP41784B-BS1	108-95-2	Phenol	BSP	REC	31	%	30-130
OP41784B-BS1	88-06-2	2,4,6-Trichlorophenol	BSP	REC	97	%	30-130
OP41784B-BS1	83-32-9	Acenaphthene	BSP	REC	90	%	40-140
OP41784B-BS1	208-96-8	Acenaphthylene	BSP	REC	108	%	40-140
OP41784B-BS1	120-12-7	Anthracene	BSP	REC	96	%	40-140
OP41784B-BS1	92-87-5	Benzidine	BSP	REC	0 [b]	%	40-140
OP41784B-BS1	56-55-3	Benzo(a)anthracene	BSP	REC	100	%	40-140
OP41784B-BS1	50-32-8	Benzo(a)pyrene	BSP	REC	94	%	40-140
OP41784B-BS1	205-99-2	Benzo(b)fluoranthene	BSP	REC	102	%	40-140
OP41784B-BS1	191-24-2	Benzo(g,h,i)perylene	BSP	REC	101	%	40-140

* Sample used for QC is not from job JD51497

QC Evaluation: Honeywell Limits

Job Number: JD51497
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/07/22 thru 09/14/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP41784B-BS1	207-08-9	Benzo(k)fluoranthene	BSP	REC	101	%	40-140
OP41784B-BS1	101-55-3	4-Bromophenyl phenyl ether	BSP	REC	102	%	40-140
OP41784B-BS1	85-68-7	Butyl benzyl phthalate	BSP	REC	99	%	40-140
OP41784B-BS1	91-58-7	2-Chloronaphthalene	BSP	REC	82	%	40-140
OP41784B-BS1	106-47-8	4-Chloroaniline	BSP	REC	64	%	40-140
OP41784B-BS1	218-01-9	Chrysene	BSP	REC	94	%	40-140
OP41784B-BS1	111-91-1	bis(2-Chloroethoxy)methane	BSP	REC	84	%	40-140
OP41784B-BS1	111-44-4	bis(2-Chloroethyl)ether	BSP	REC	75	%	40-140
OP41784B-BS1	108-60-1	2,2'-Oxybis(1-chloropropane)	BSP	REC	76	%	40-140
OP41784B-BS1	7005-72-3	4-Chlorophenyl phenyl ether	BSP	REC	88	%	40-140
OP41784B-BS1	95-50-1	1,2-Dichlorobenzene	BSP	REC	62	%	40-140
OP41784B-BS1	122-66-7	1,2-Diphenylhydrazine	BSP	REC	100	%	40-140
OP41784B-BS1	541-73-1	1,3-Dichlorobenzene	BSP	REC	59	%	40-140
OP41784B-BS1	106-46-7	1,4-Dichlorobenzene	BSP	REC	60	%	40-140
OP41784B-BS1	121-14-2	2,4-Dinitrotoluene	BSP	REC	90	%	40-140
OP41784B-BS1	606-20-2	2,6-Dinitrotoluene	BSP	REC	91	%	40-140
OP41784B-BS1	91-94-1	3,3'-Dichlorobenzidine	BSP	REC	42	%	40-140
OP41784B-BS1	53-70-3	Dibenzo(a,h)anthracene	BSP	REC	103	%	40-140
OP41784B-BS1	84-74-2	Di-n-butyl phthalate	BSP	REC	104	%	40-140
OP41784B-BS1	117-84-0	Di-n-octyl phthalate	BSP	REC	93	%	40-140
OP41784B-BS1	84-66-2	Diethyl phthalate	BSP	REC	93	%	40-140
OP41784B-BS1	131-11-3	Dimethyl phthalate	BSP	REC	93	%	40-140
OP41784B-BS1	117-81-7	bis(2-Ethylhexyl)phthalate	BSP	REC	97	%	40-140
OP41784B-BS1	206-44-0	Fluoranthene	BSP	REC	93	%	40-140
OP41784B-BS1	86-73-7	Fluorene	BSP	REC	90	%	40-140
OP41784B-BS1	118-74-1	Hexachlorobenzene	BSP	REC	96	%	40-140
OP41784B-BS1	87-68-3	Hexachlorobutadiene	BSP	REC	59	%	40-140
OP41784B-BS1	77-47-4	Hexachlorocyclopentadiene	BSP	REC	70	%	40-140
OP41784B-BS1	67-72-1	Hexachloroethane	BSP	REC	57	%	40-140
OP41784B-BS1	193-39-5	Indeno(1,2,3-cd)pyrene	BSP	REC	102	%	40-140
OP41784B-BS1	78-59-1	Isophorone	BSP	REC	85	%	40-140
OP41784B-BS1	91-20-3	Naphthalene	BSP	REC	70	%	40-140
OP41784B-BS1	98-95-3	Nitrobenzene	BSP	REC	81	%	40-140
OP41784B-BS1	62-75-9	n-Nitrosodimethylamine	BSP	REC	45	%	40-140
OP41784B-BS1	621-64-7	N-Nitroso-di-n-propylamine	BSP	REC	78	%	40-140
OP41784B-BS1	86-30-6	N-Nitrosodiphenylamine	BSP	REC	105	%	40-140
OP41784B-BS1	85-01-8	Phenanthrene	BSP	REC	94	%	40-140
OP41784B-BS1	129-00-0	Pyrene	BSP	REC	113 [b]	%	40-140
OP41784B-BS1	120-82-1	1,2,4-Trichlorobenzene	BSP	REC	66	%	40-140
OP41784B-BS1	367-12-4	2-Fluorophenol	BSP	SURR	42	%	15-110
OP41784B-BS1	4165-62-2	Phenol-d5	BSP	SURR	29	%	15-110
OP41784B-BS1	118-79-6	2,4,6-Tribromophenol	BSP	SURR	104	%	15-110
OP41784B-BS1	4165-60-0	Nitrobenzene-d5	BSP	SURR	82	%	30-130
OP41784B-BS1	321-60-8	2-Fluorobiphenyl	BSP	SURR	93	%	30-130
OP41784B-BS1	1718-51-0	Terphenyl-d14	BSP	SURR	110	%	30-130

* Sample used for QC is not from job JD51497

QC Evaluation: Honeywell Limits

Job Number: JD51497
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/07/22 thru 09/14/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP41784B-BSD	95-57-8	2-Chlorophenol	BSD	REC	63	%	30-130
OP41784B-BSD	95-57-8	2-Chlorophenol	BSD	RPD	6	%	20
OP41784B-BSD	59-50-7	4-Chloro-3-methyl phenol	BSD	REC	76	%	30-130
OP41784B-BSD	59-50-7	4-Chloro-3-methyl phenol	BSD	RPD	12	%	20
OP41784B-BSD	120-83-2	2,4-Dichlorophenol	BSD	REC	76	%	30-130
OP41784B-BSD	120-83-2	2,4-Dichlorophenol	BSD	RPD	13	%	20
OP41784B-BSD	105-67-9	2,4-Dimethylphenol	BSD	REC	63	%	30-130
OP41784B-BSD	105-67-9	2,4-Dimethylphenol	BSD	RPD	18	%	20
OP41784B-BSD	51-28-5	2,4-Dinitrophenol	BSD	REC	68	%	30-130
OP41784B-BSD	51-28-5	2,4-Dinitrophenol	BSD	RPD	10	%	20
OP41784B-BSD	534-52-1	4,6-Dinitro-o-cresol	BSD	REC	81	%	30-130
OP41784B-BSD	534-52-1	4,6-Dinitro-o-cresol	BSD	RPD	4	%	20
OP41784B-BSD	88-75-5	2-Nitrophenol	BSD	REC	72	%	30-130
OP41784B-BSD	88-75-5	2-Nitrophenol	BSD	RPD	2	%	20
OP41784B-BSD	100-02-7	4-Nitrophenol	BSD	REC	35	%	30-130
OP41784B-BSD	100-02-7	4-Nitrophenol	BSD	RPD	3	%	20
OP41784B-BSD	87-86-5	Pentachlorophenol	BSD	REC	89	%	30-130
OP41784B-BSD	87-86-5	Pentachlorophenol	BSD	RPD	1	%	20
OP41784B-BSD	108-95-2	Phenol	BSD	REC	27	%	30-130
OP41784B-BSD	108-95-2	Phenol	BSD	RPD	11	%	20
OP41784B-BSD	88-06-2	2,4,6-Trichlorophenol	BSD	REC	91	%	30-130
OP41784B-BSD	88-06-2	2,4,6-Trichlorophenol	BSD	RPD	7	%	20
OP41784B-BSD	83-32-9	Acenaphthene	BSD	REC	85	%	40-140
OP41784B-BSD	83-32-9	Acenaphthene	BSD	RPD	7	%	20
OP41784B-BSD	208-96-8	Acenaphthylene	BSD	REC	101	%	40-140
OP41784B-BSD	208-96-8	Acenaphthylene	BSD	RPD	7	%	20
OP41784B-BSD	120-12-7	Anthracene	BSD	REC	93	%	40-140
OP41784B-BSD	120-12-7	Anthracene	BSD	RPD	3	%	20
OP41784B-BSD	92-87-5	Benzidine	BSD	REC	0 [b]	%	40-140
OP41784B-BSD	92-87-5	Benzidine	BSD	RPD	0	%	20
OP41784B-BSD	56-55-3	Benzo(a)anthracene	BSD	REC	97	%	40-140
OP41784B-BSD	56-55-3	Benzo(a)anthracene	BSD	RPD	3	%	20
OP41784B-BSD	50-32-8	Benzo(a)pyrene	BSD	REC	88	%	40-140
OP41784B-BSD	50-32-8	Benzo(a)pyrene	BSD	RPD	7	%	20
OP41784B-BSD	205-99-2	Benzo(b)fluoranthene	BSD	REC	97	%	40-140
OP41784B-BSD	205-99-2	Benzo(b)fluoranthene	BSD	RPD	5	%	20
OP41784B-BSD	191-24-2	Benzo(g,h,i)perylene	BSD	REC	93	%	40-140
OP41784B-BSD	191-24-2	Benzo(g,h,i)perylene	BSD	RPD	8	%	20
OP41784B-BSD	207-08-9	Benzo(k)fluoranthene	BSD	REC	94	%	40-140
OP41784B-BSD	207-08-9	Benzo(k)fluoranthene	BSD	RPD	7	%	20
OP41784B-BSD	101-55-3	4-Bromophenyl phenyl ether	BSD	REC	98	%	40-140
OP41784B-BSD	101-55-3	4-Bromophenyl phenyl ether	BSD	RPD	4	%	20
OP41784B-BSD	85-68-7	Butyl benzyl phthalate	BSD	REC	97	%	40-140
OP41784B-BSD	85-68-7	Butyl benzyl phthalate	BSD	RPD	2	%	20
OP41784B-BSD	91-58-7	2-Chloronaphthalene	BSD	REC	76	%	40-140

* Sample used for QC is not from job JD51497

QC Evaluation: Honeywell Limits

Job Number: JD51497
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/07/22 thru 09/14/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP41784B-BSD	91-58-7	2-Chloronaphthalene	BSD	RPD	8	%	20
OP41784B-BSD	106-47-8	4-Chloroaniline	BSD	REC	54	%	40-140
OP41784B-BSD	106-47-8	4-Chloroaniline	BSD	RPD	17	%	20
OP41784B-BSD	218-01-9	Chrysene	BSD	REC	90	%	40-140
OP41784B-BSD	218-01-9	Chrysene	BSD	RPD	4	%	20
OP41784B-BSD	111-91-1	bis(2-Chloroethoxy)methane	BSD	REC	74	%	40-140
OP41784B-BSD	111-91-1	bis(2-Chloroethoxy)methane	BSD	RPD	12	%	20
OP41784B-BSD	111-44-4	bis(2-Chloroethyl)ether	BSD	REC	68	%	40-140
OP41784B-BSD	111-44-4	bis(2-Chloroethyl)ether	BSD	RPD	9	%	20
OP41784B-BSD	108-60-1	2,2'-Oxybis(1-chloropropane)	BSD	REC	70	%	40-140
OP41784B-BSD	108-60-1	2,2'-Oxybis(1-chloropropane)	BSD	RPD	8	%	20
OP41784B-BSD	7005-72-3	4-Chlorophenyl phenyl ether	BSD	REC	84	%	40-140
OP41784B-BSD	7005-72-3	4-Chlorophenyl phenyl ether	BSD	RPD	5	%	20
OP41784B-BSD	95-50-1	1,2-Dichlorobenzene	BSD	REC	57	%	40-140
OP41784B-BSD	95-50-1	1,2-Dichlorobenzene	BSD	RPD	8	%	20
OP41784B-BSD	122-66-7	1,2-Diphenylhydrazine	BSD	REC	96	%	40-140
OP41784B-BSD	122-66-7	1,2-Diphenylhydrazine	BSD	RPD	3	%	20
OP41784B-BSD	541-73-1	1,3-Dichlorobenzene	BSD	REC	56	%	40-140
OP41784B-BSD	541-73-1	1,3-Dichlorobenzene	BSD	RPD	7	%	20
OP41784B-BSD	106-46-7	1,4-Dichlorobenzene	BSD	REC	56	%	40-140
OP41784B-BSD	106-46-7	1,4-Dichlorobenzene	BSD	RPD	7	%	20
OP41784B-BSD	121-14-2	2,4-Dinitrotoluene	BSD	REC	87	%	40-140
OP41784B-BSD	121-14-2	2,4-Dinitrotoluene	BSD	RPD	3	%	20
OP41784B-BSD	606-20-2	2,6-Dinitrotoluene	BSD	REC	90	%	40-140
OP41784B-BSD	606-20-2	2,6-Dinitrotoluene	BSD	RPD	0	%	20
OP41784B-BSD	91-94-1	3,3'-Dichlorobenzidine	BSD	REC	41	%	40-140
OP41784B-BSD	91-94-1	3,3'-Dichlorobenzidine	BSD	RPD	2	%	20
OP41784B-BSD	53-70-3	Dibenzo(a,h)anthracene	BSD	REC	98	%	40-140
OP41784B-BSD	53-70-3	Dibenzo(a,h)anthracene	BSD	RPD	5	%	20
OP41784B-BSD	84-74-2	Di-n-butyl phthalate	BSD	REC	99	%	40-140
OP41784B-BSD	84-74-2	Di-n-butyl phthalate	BSD	RPD	4	%	20
OP41784B-BSD	117-84-0	Di-n-octyl phthalate	BSD	REC	88	%	40-140
OP41784B-BSD	117-84-0	Di-n-octyl phthalate	BSD	RPD	5	%	20
OP41784B-BSD	84-66-2	Diethyl phthalate	BSD	REC	89	%	40-140
OP41784B-BSD	84-66-2	Diethyl phthalate	BSD	RPD	5	%	20
OP41784B-BSD	131-11-3	Dimethyl phthalate	BSD	REC	88	%	40-140
OP41784B-BSD	131-11-3	Dimethyl phthalate	BSD	RPD	6	%	20
OP41784B-BSD	117-81-7	bis(2-Ethylhexyl)phthalate	BSD	REC	93	%	40-140
OP41784B-BSD	117-81-7	bis(2-Ethylhexyl)phthalate	BSD	RPD	5	%	20
OP41784B-BSD	206-44-0	Fluoranthene	BSD	REC	89	%	40-140
OP41784B-BSD	206-44-0	Fluoranthene	BSD	RPD	5	%	20
OP41784B-BSD	86-73-7	Fluorene	BSD	REC	85	%	40-140
OP41784B-BSD	86-73-7	Fluorene	BSD	RPD	6	%	20
OP41784B-BSD	118-74-1	Hexachlorobenzene	BSD	REC	94	%	40-140
OP41784B-BSD	118-74-1	Hexachlorobenzene	BSD	RPD	2	%	20

* Sample used for QC is not from job JD51497

QC Evaluation: Honeywell Limits

Job Number: JD51497
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/07/22 thru 09/14/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP41784B-BSD	87-68-3	Hexachlorobutadiene	BSD	REC	55	%	40-140
OP41784B-BSD	87-68-3	Hexachlorobutadiene	BSD	RPD	8	%	20
OP41784B-BSD	77-47-4	Hexachlorocyclopentadiene	BSD	REC	65	%	40-140
OP41784B-BSD	77-47-4	Hexachlorocyclopentadiene	BSD	RPD	8	%	20
OP41784B-BSD	67-72-1	Hexachloroethane	BSD	REC	53	%	40-140
OP41784B-BSD	67-72-1	Hexachloroethane	BSD	RPD	6	%	20
OP41784B-BSD	193-39-5	Indeno(1,2,3-cd)pyrene	BSD	REC	94	%	40-140
OP41784B-BSD	193-39-5	Indeno(1,2,3-cd)pyrene	BSD	RPD	8	%	20
OP41784B-BSD	78-59-1	Isophorone	BSD	REC	75	%	40-140
OP41784B-BSD	78-59-1	Isophorone	BSD	RPD	13	%	20
OP41784B-BSD	91-20-3	Naphthalene	BSD	REC	64	%	40-140
OP41784B-BSD	91-20-3	Naphthalene	BSD	RPD	9	%	20
OP41784B-BSD	98-95-3	Nitrobenzene	BSD	REC	77	%	40-140
OP41784B-BSD	98-95-3	Nitrobenzene	BSD	RPD	6	%	20
OP41784B-BSD	62-75-9	n-Nitrosodimethylamine	BSD	REC	40	%	40-140
OP41784B-BSD	62-75-9	n-Nitrosodimethylamine	BSD	RPD	13	%	20
OP41784B-BSD	621-64-7	N-Nitroso-di-n-propylamine	BSD	REC	68	%	40-140
OP41784B-BSD	621-64-7	N-Nitroso-di-n-propylamine	BSD	RPD	13	%	20
OP41784B-BSD	86-30-6	N-Nitrosodiphenylamine	BSD	REC	101	%	40-140
OP41784B-BSD	86-30-6	N-Nitrosodiphenylamine	BSD	RPD	4	%	20
OP41784B-BSD	85-01-8	Phenanthrene	BSD	REC	90	%	40-140
OP41784B-BSD	85-01-8	Phenanthrene	BSD	RPD	5	%	20
OP41784B-BSD	129-00-0	Pyrene	BSD	REC	110	%	40-140
OP41784B-BSD	129-00-0	Pyrene	BSD	RPD	3	%	20
OP41784B-BSD	120-82-1	1,2,4-Trichlorobenzene	BSD	REC	60	%	40-140
OP41784B-BSD	120-82-1	1,2,4-Trichlorobenzene	BSD	RPD	9	%	20
OP41784B-BSD	367-12-4	2-Fluorophenol	BSD	SURR	40	%	15-110
OP41784B-BSD	4165-62-2	Phenol-d5	BSD	SURR	26	%	15-110
OP41784B-BSD	118-79-6	2,4,6-Tribromophenol	BSD	SURR	102	%	15-110
OP41784B-BSD	4165-60-0	Nitrobenzene-d5	BSD	SURR	78	%	30-130
OP41784B-BSD	321-60-8	2-Fluorobiphenyl	BSD	SURR	87	%	30-130
OP41784B-BSD	1718-51-0	Terphenyl-d14	BSD	SURR	107	%	30-130
OP41784B-MB1	367-12-4	2-Fluorophenol	MB	SURR	37	%	15-110
OP41784B-MB1	4165-62-2	Phenol-d5	MB	SURR	25	%	15-110
OP41784B-MB1	118-79-6	2,4,6-Tribromophenol	MB	SURR	63	%	15-110
OP41784B-MB1	4165-60-0	Nitrobenzene-d5	MB	SURR	71	%	30-130
OP41784B-MB1	321-60-8	2-Fluorobiphenyl	MB	SURR	76	%	30-130
OP41784B-MB1	1718-51-0	Terphenyl-d14	MB	SURR	78	%	30-130
JD51497-1	367-12-4	2-Fluorophenol	SAMP	SURR	32	%	15-110
JD51497-1	4165-62-2	Phenol-d5	SAMP	SURR	22	%	15-110
JD51497-1	118-79-6	2,4,6-Tribromophenol	SAMP	SURR	103	%	15-110
JD51497-1	4165-60-0	Nitrobenzene-d5	SAMP	SURR	72	%	30-130
JD51497-1	321-60-8	2-Fluorobiphenyl	SAMP	SURR	78	%	30-130
JD51497-1	1718-51-0	Terphenyl-d14	SAMP	SURR	43	%	30-130

* Sample used for QC is not from job JD51497

QC Evaluation: Honeywell Limits

Job Number: JD51497
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/07/22 thru 09/14/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits

(a) Outside control limits due to matrix interference.
(b) Outside of in house control limits.

* Sample used for QC is not from job JD51497

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D5383-MB	4D121180.D	1	09/16/22	TS	n/a	n/a	V4D5383

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD51497-1

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	10	3.7	ug/l	
107-13-1	Acrylonitrile	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.35	ug/l	
75-25-2	Bromoform	ND	1.0	0.60	ug/l	
74-83-9	Bromomethane	ND	1.0	0.87	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.33	ug/l	
75-00-3	Chloroethane	ND	1.0	0.54	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.78	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.43	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.30	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.69	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.46	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.42	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.37	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.41	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.32	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.36	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.35	ug/l	

Method Blank Summary

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D5383-MB	4D121180.D	1	09/16/22	TS	n/a	n/a	V4D5383

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD51497-1

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	87%	80-128%
2037-26-5	Toluene-D8 (SUR)	101%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	100%	79-117%
1868-53-7	Dibromofluoromethane (S)	98%	84-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN12551-MB	N296464.D	1	09/21/22	TS	n/a	n/a	VN12551

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD51497-3, JD51497-4

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	10	3.7	ug/l	
107-13-1	Acrylonitrile	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.35	ug/l	
75-25-2	Bromoform	ND	1.0	0.60	ug/l	
74-83-9	Bromomethane	ND	1.0	0.87	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.33	ug/l	
75-00-3	Chloroethane	ND	1.0	0.54	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.78	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.43	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.30	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.69	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.45	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.46	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.42	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.37	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.41	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.32	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.36	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.43	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.35	ug/l	

Method Blank Summary

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN12551-MB	N296464.D	1	09/21/22	TS	n/a	n/a	VN12551

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD51497-3, JD51497-4

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	114%	80-128%
2037-26-5	Toluene-D8 (SUR)	99%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	88%	79-117%
1868-53-7	Dibromofluoromethane (S)	109%	84-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	3.49	2500	ug/l	J
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D5383-BS	4D121178.D	1	09/16/22	TS	n/a	n/a	V4D5383

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD51497-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
107-02-8	Acrolein	20	19.8	99	60-140
107-13-1	Acrylonitrile	20	24.3	122	60-140
71-43-2	Benzene	20	18.0	90	65-135
75-27-4	Bromodichloromethane	20	17.4	87	65-135
75-25-2	Bromoform	20	17.5	88	70-130
74-83-9	Bromomethane	20	20.2	101	15-185
56-23-5	Carbon tetrachloride	20	17.8	89	70-130
108-90-7	Chlorobenzene	20	18.9	95	65-135
75-00-3	Chloroethane	20	24.9	125	40-160
110-75-8	2-Chloroethyl vinyl ether	100	142	142	10-257
67-66-3	Chloroform	20	17.6	88	70-135
74-87-3	Chloromethane	20	23.4	117	10-205
124-48-1	Dibromochloromethane	20	18.5	93	70-135
95-50-1	1,2-Dichlorobenzene	20	19.2	96	65-135
541-73-1	1,3-Dichlorobenzene	20	18.6	93	70-130
106-46-7	1,4-Dichlorobenzene	20	17.6	88	65-135
75-71-8	Dichlorodifluoromethane	20	20.1	101	42-146
75-34-3	1,1-Dichloroethane	20	19.2	96	70-130
107-06-2	1,2-Dichloroethane	20	16.8	84	70-130
75-35-4	1,1-Dichloroethene	20	18.0	90	50-150
156-59-2	cis-1,2-Dichloroethene	20	18.7	94	72-116
156-60-5	trans-1,2-Dichloroethene	20	18.4	92	70-130
78-87-5	1,2-Dichloropropane	20	19.2	96	35-165
10061-01-5	cis-1,3-Dichloropropene	20	18.7	94	25-175
10061-02-6	trans-1,3-Dichloropropene	20	18.7	94	50-150
100-41-4	Ethylbenzene	20	18.7	94	60-140
75-09-2	Methylene chloride	20	18.9	95	60-140
79-34-5	1,1,2,2-Tetrachloroethane	20	20.5	103	60-140
127-18-4	Tetrachloroethene	20	18.0	90	70-130
108-88-3	Toluene	20	18.3	92	74-111
71-55-6	1,1,1-Trichloroethane	20	18.2	91	73-120
79-00-5	1,1,2-Trichloroethane	20	19.9	100	74-117
79-01-6	Trichloroethene	20	19.5	98	74-113
75-69-4	Trichlorofluoromethane	20	22.1	111	50-150
75-01-4	Vinyl chloride	20	23.3	117	5-195
1330-20-7	Xylenes (total)	60	57.3	96	79-114

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D5383-BS	4D121178.D	1	09/16/22	TS	n/a	n/a	V4D5383

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD51497-1

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	85%	80-128%
2037-26-5	Toluene-D8 (SUR)	98%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	101%	79-117%
1868-53-7	Dibromofluoromethane (S)	99%	84-121%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN12551-BS	N296462.D	1	09/21/22	TS	n/a	n/a	VN12551

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD51497-3, JD51497-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
107-02-8	Acrolein	20	17.1	86	60-140
107-13-1	Acrylonitrile	20	18.8	94	60-140
71-43-2	Benzene	20	17.9	90	65-135
75-27-4	Bromodichloromethane	20	19.1	96	65-135
75-25-2	Bromoform	20	22.1	111	70-130
74-83-9	Bromomethane	20	22.0	110	15-185
56-23-5	Carbon tetrachloride	20	19.7	99	70-130
108-90-7	Chlorobenzene	20	17.1	86	65-135
75-00-3	Chloroethane	20	21.3	107	40-160
110-75-8	2-Chloroethyl vinyl ether	100	86.5	87	10-257
67-66-3	Chloroform	20	18.6	93	70-135
74-87-3	Chloromethane	20	22.6	113	10-205
124-48-1	Dibromochloromethane	20	20.0	100	70-135
95-50-1	1,2-Dichlorobenzene	20	17.8	89	65-135
541-73-1	1,3-Dichlorobenzene	20	17.8	89	70-130
106-46-7	1,4-Dichlorobenzene	20	18.1	91	65-135
75-71-8	Dichlorodifluoromethane	20	16.8	84	42-146
75-34-3	1,1-Dichloroethane	20	18.3	92	70-130
107-06-2	1,2-Dichloroethane	20	19.2	96	70-130
75-35-4	1,1-Dichloroethene	20	17.4	87	50-150
156-59-2	cis-1,2-Dichloroethene	20	17.2	86	72-116
156-60-5	trans-1,2-Dichloroethene	20	16.4	82	70-130
78-87-5	1,2-Dichloropropane	20	17.9	90	35-165
10061-01-5	cis-1,3-Dichloropropene	20	15.7	79	25-175
10061-02-6	trans-1,3-Dichloropropene	20	17.7	89	50-150
100-41-4	Ethylbenzene	20	17.8	89	60-140
75-09-2	Methylene chloride	20	18.9	95	60-140
79-34-5	1,1,2,2-Tetrachloroethane	20	17.9	90	60-140
127-18-4	Tetrachloroethene	20	19.7	99	70-130
108-88-3	Toluene	20	17.8	89	74-111
71-55-6	1,1,1-Trichloroethane	20	18.7	94	73-120
79-00-5	1,1,2-Trichloroethane	20	18.3	92	74-117
79-01-6	Trichloroethene	20	16.6	83	74-113
75-69-4	Trichlorofluoromethane	20	22.1	111	50-150
75-01-4	Vinyl chloride	20	22.5	113	5-195
1330-20-7	Xylenes (total)	60	53.5	89	79-114

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN12551-BS	N296462.D	1	09/21/22	TS	n/a	n/a	VN12551

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD51497-3, JD51497-4

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	118%	80-128%
2037-26-5	Toluene-D8 (SUR)	106%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	84%	79-117%
1868-53-7	Dibromofluoromethane (S)	108%	84-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD51834-4MS [a]	4D121189.D	10	09/16/22	TS	n/a	n/a	V4D5383
JD51834-4MSD [a]	4D121190.D	10	09/16/22	TS	n/a	n/a	V4D5383
JD51834-4 [b]	4D121182.D	10	09/16/22	TS	n/a	n/a	V4D5383

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD51497-1

CAS No.	Compound	JD51834-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
107-02-8	Acrolein	ND		200	ND	0* [c]	200	ND	0* [c]	nc	40-160/60
107-13-1	Acrylonitrile	302		200	596	147	200	557	128	7	40-160/60
71-43-2	Benzene	ND		200	184	92	200	182	91	1	37-151/61
75-27-4	Bromodichloromethane	ND		200	177	89	200	177	89	0	35-155/56
75-25-2	Bromoform	ND		200	181	91	200	180	90	1	45-169/42
74-83-9	Bromomethane	ND		200	178	89	200	196	98	10	10-242/61
56-23-5	Carbon tetrachloride	ND		200	181	91	200	183	92	1	70-140/41
108-90-7	Chlorobenzene	ND		200	192	96	200	193	97	1	37-160/53
75-00-3	Chloroethane	7.5	J	200	253	123	200	251	122	1	14-230/78
110-75-8	2-Chloroethyl vinyl ether	ND		1000	1460	146	1000	1450	145	1	10-305/71
67-66-3	Chloroform	ND		200	179	90	200	179	90	0	51-138/54
74-87-3	Chloromethane	15.0		200	225	105	200	228	107	1	10-273/60
124-48-1	Dibromochloromethane	ND		200	187	94	200	187	94	0	53-149/50
95-50-1	1,2-Dichlorobenzene	ND		200	194	97	200	192	96	1	18-190/57
541-73-1	1,3-Dichlorobenzene	ND		200	189	95	200	187	94	1	59-156/43
106-46-7	1,4-Dichlorobenzene	ND		200	177	89	200	177	89	0	18-190/57
75-71-8	Dichlorodifluoromethane	ND		200	196	98	200	196	98	0	22-172/22
75-34-3	1,1-Dichloroethane	ND		200	196	98	200	194	97	1	59-155/40
107-06-2	1,2-Dichloroethane	9.5	J	200	178	84	200	177	84	1	49-155/59
75-35-4	1,1-Dichloroethene	ND		200	182	91	200	183	92	1	10-234/32
156-59-2	cis-1,2-Dichloroethene	ND		200	186	93	200	185	93	1	38-146/17
156-60-5	trans-1,2-Dichloroethene	ND		200	182	91	200	184	92	1	54-156/45
78-87-5	1,2-Dichloropropane	ND		200	194	97	200	192	96	1	10-210/55
10061-01-5	cis-1,3-Dichloropropene	ND		200	190	95	200	189	95	1	10-227/58
10061-02-6	trans-1,3-Dichloropropene	ND		200	190	95	200	189	95	1	17-183/86
100-41-4	Ethylbenzene	ND		200	190	95	200	191	96	1	37-162/63
75-09-2	Methylene chloride	ND		200	190	95	200	188	94	1	10-221/28
79-34-5	1,1,2,2-Tetrachloroethane	ND		200	207	104	200	205	103	1	46-157/61
127-18-4	Tetrachloroethene	ND		200	185	93	200	186	93	1	64-148/39
108-88-3	Toluene	ND		200	187	94	200	186	93	1	42-140/16
71-55-6	1,1,1-Trichloroethane	ND		200	183	92	200	182	91	1	56-139/17
79-00-5	1,1,2-Trichloroethane	ND		200	200	100	200	200	100	0	61-126/17
79-01-6	Trichloroethene	ND		200	201	101	200	200	100	0	37-148/15
75-69-4	Trichlorofluoromethane	ND		200	218	109	200	219	110	0	17-181/84
75-01-4	Vinyl chloride	57.4		200	268	105	200	269	106	0	10-251/66
1330-20-7	Xylenes (total)	ND		600	582	97	600	581	97	0	58-134/16

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD51834-4MS [a]	4D121189.D	10	09/16/22	TS	n/a	n/a	V4D5383
JD51834-4MSD [a]	4D121190.D	10	09/16/22	TS	n/a	n/a	V4D5383
JD51834-4 [b]	4D121182.D	10	09/16/22	TS	n/a	n/a	V4D5383

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD51497-1

CAS No.	Surrogate Recoveries	MS	MSD	JD51834-4	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	84%	84%	87%	80-128%
2037-26-5	Toluene-D8 (SUR)	97%	97%	99%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	101%	102%	100%	79-117%
1868-53-7	Dibromofluoromethane (S)	98%	99%	99%	84-121%

(a) (pH= 5)Sample pH did not satisfy field preservation criteria.
(b) (pH= 5) Sample is not acid preserved per method/client criteria. Sample analyzed within 3 days holding time as required for acrolein and acrylonitrile. Other compounds within 7 days as required by the method. + 4D121137
(c) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD51497-3MS [a]	N296473.D	1	09/21/22	TS	n/a	n/a	VN12551
JD51497-3MSD [a]	N296474.D	1	09/21/22	TS	n/a	n/a	VN12551
JD51497-3 [b]	N296466.D	1	09/21/22	TS	n/a	n/a	VN12551

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD51497-3, JD51497-4

CAS No.	Compound	JD51497-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
107-02-8	Acrolein	ND		20	16.0	80	20	18.9	95	17	40-160/60
107-13-1	Acrylonitrile	ND		20	19.1	96	20	22.1	111	15	40-160/60
71-43-2	Benzene	5.0		20	23.5	93	20	24.2	96	3	37-151/61
75-27-4	Bromodichloromethane	ND		20	19.6	98	20	22.0	110	12	35-155/56
75-25-2	Bromoform	ND		20	22.2	111	20	24.9	125	11	45-169/42
74-83-9	Bromomethane	ND		20	16.2	81	20	20.4	102	23	10-242/61
56-23-5	Carbon tetrachloride	ND		20	17.3	87	20	19.4	97	11	70-140/41
108-90-7	Chlorobenzene	90.8		20	109	91	20	113	111	4	37-160/53
75-00-3	Chloroethane	0.72	J	20	15.7	75	20	20.3	98	26	14-230/78
110-75-8	2-Chloroethyl vinyl ether	ND		100	97.4	97	100	110	110	12	10-305/71
67-66-3	Chloroform	ND		20	19.4	97	20	20.2	101	4	51-138/54
74-87-3	Chloromethane	ND		20	17.0	85	20	22.4	112	27	10-273/60
124-48-1	Dibromochloromethane	ND		20	20.2	101	20	22.0	110	9	53-149/50
95-50-1	1,2-Dichlorobenzene	0.78	J	20	18.7	90	20	21.1	102	12	18-190/57
541-73-1	1,3-Dichlorobenzene	ND		20	18.2	91	20	20.5	103	12	59-156/43
106-46-7	1,4-Dichlorobenzene	1.5		20	19.4	90	20	21.8	102	12	18-190/57
75-71-8	Dichlorodifluoromethane	ND		20	8.6	43	20	11.5	58	29* [c]	22-172/22
75-34-3	1,1-Dichloroethane	0.43	J	20	19.6	96	20	21.4	105	9	59-155/40
107-06-2	1,2-Dichloroethane	ND		20	20.2	101	20	22.3	112	10	49-155/59
75-35-4	1,1-Dichloroethene	ND		20	16.2	81	20	18.5	93	13	10-234/32
156-59-2	cis-1,2-Dichloroethene	0.77	J	20	18.8	90	20	19.7	95	5	38-146/17
156-60-5	trans-1,2-Dichloroethene	ND		20	16.9	85	20	18.7	94	10	54-156/45
78-87-5	1,2-Dichloropropane	ND		20	18.6	93	20	20.5	103	10	10-210/55
10061-01-5	cis-1,3-Dichloropropene	ND		20	16.4	82	20	18.8	94	14	10-227/58
10061-02-6	trans-1,3-Dichloropropene	ND		20	18.0	90	20	20.1	101	11	17-183/86
100-41-4	Ethylbenzene	ND		20	17.6	88	20	19.1	96	8	37-162/63
75-09-2	Methylene chloride	ND		20	19.6	98	20	23.0	115	16	10-221/28
79-34-5	1,1,2,2-Tetrachloroethane	ND		20	18.9	95	20	20.9	105	10	46-157/61
127-18-4	Tetrachloroethene	ND		20	17.8	89	20	19.0	95	7	64-148/39
108-88-3	Toluene	ND		20	17.3	87	20	18.2	91	5	42-140/16
71-55-6	1,1,1-Trichloroethane	ND		20	17.2	86	20	19.8	99	14	56-139/17
79-00-5	1,1,2-Trichloroethane	ND		20	19.6	98	20	20.1	101	3	61-126/17
79-01-6	Trichloroethene	ND		20	16.3	82	20	17.2	86	5	37-148/15
75-69-4	Trichlorofluoromethane	ND		20	13.0	65	20	16.9	85	26	17-181/84
75-01-4	Vinyl chloride	ND		20	15.6	78	20	21.1	106	30	10-251/66
1330-20-7	Xylenes (total)	ND		60	52.4	87	60	56.5	94	8	58-134/16

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD51497-3MS [a]	N296473.D	1	09/21/22	TS	n/a	n/a	VN12551
JD51497-3MSD [a]	N296474.D	1	09/21/22	TS	n/a	n/a	VN12551
JD51497-3 [b]	N296466.D	1	09/21/22	TS	n/a	n/a	VN12551

The QC reported here applies to the following samples: **Method:** EPA 624.1

JD51497-3, JD51497-4

CAS No.	Surrogate Recoveries	MS	MSD	JD51497-3	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	118%	116%	119%	80-128%
2037-26-5	Toluene-D8 (SUR)	102%	100%	101%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	88%	87%	90%	79-117%
1868-53-7	Dibromofluoromethane (S)	109%	108%	107%	84-121%

(a) (pH= 4.5)Sample pH did not satisfy field preservation criteria.
(b) (pH= 4.5)Sample pH did not satisfy field preservation criteria. Results reported from the HCl preserved sample. The reported result for acrolein is for screening only and cannot be used for compliance purposes.
(c) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: V4D5341-BFB
Lab File ID: 4D120247.D
Instrument ID: GCMS4D
Injection Date: 08/13/22
Injection Time: 19:58

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	14.99 - 40.0% of mass 95	56496	20.6		Pass
75	30.0 - 60.0% of mass 95	141485	51.6		Pass
95	Base peak, 100% relative abundance	274069	100.0		Pass
96	5.0 - 9.0% of mass 95	18675	6.81		Pass
173	Less than 2.0% of mass 174	2724	0.99	(1.06) [a]	Pass
174	50.0 - 120.0% of mass 95	256363	93.5		Pass
175	5.0 - 9.0% of mass 174	18765	6.85	(7.32) [a]	Pass
176	95.0 - 101.0% of mass 174	245909	89.7	(95.9) [a]	Pass
177	5.0 - 9.0% of mass 176	16181	5.90	(6.58) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V4D5341-IC5341	4D120248.D	08/13/22	20:38	00:40	Initial cal 0.2
V4D5341-IC5341	4D120249.D	08/13/22	21:06	01:08	Initial cal 0.5
V4D5341-IC5341	4D120250.D	08/13/22	21:35	01:37	Initial cal 1
V4D5341-IC5341	4D120251.D	08/13/22	22:03	02:05	Initial cal 2
V4D5341-IC5341	4D120252.D	08/13/22	22:31	02:33	Initial cal 4
V4D5341-IC5341	4D120253.D	08/13/22	23:00	03:02	Initial cal 8
V4D5341-IC5341	4D120254.D	08/13/22	23:28	03:30	Initial cal 20
V4D5341-ICC5341	4D120255.D	08/13/22	23:56	03:58	Initial cal 50
V4D5341-IC5341	4D120256.D	08/14/22	00:25	04:27	Initial cal 100
V4D5341-IC5341	4D120257.D	08/14/22	00:53	04:55	Initial cal 200
V4D5341-ICV5341	4D120260.D	08/14/22	02:18	06:20	Initial cal verification 50
V4D5341-ICV5341	4D120261.D	08/14/22	02:46	06:48	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: V4D5383-BFB
Lab File ID: 4D121177.D
Instrument ID: GCMS4D
Injection Date: 09/16/22
Injection Time: 08:23

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	14.99 - 40.0% of mass 95	65341	17.5		Pass
75	30.0 - 60.0% of mass 95	160427	42.9		Pass
95	Base peak, 100% relative abundance	374208	100.0		Pass
96	5.0 - 9.0% of mass 95	24784	6.62		Pass
173	Less than 2.0% of mass 174	2086	0.56	(0.64) [a]	Pass
174	50.0 - 120.0% of mass 95	327147	87.4		Pass
175	5.0 - 9.0% of mass 174	24864	6.64	(7.60) [a]	Pass
176	95.0 - 101.0% of mass 174	322731	86.2	(98.7) [a]	Pass
177	5.0 - 9.0% of mass 176	21867	5.84	(6.78) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V4D5383-BS	4D121178.D	09/16/22	08:56	00:33	Blank Spike
V4D5383-CC5341	4D121178.D	09/16/22	08:56	00:33	Continuing cal 20
V4D5383-MB	4D121180.D	09/16/22	10:07	01:44	Method Blank
ZZZZZZ	4D121181.D	09/16/22	10:36	02:13	(unrelated sample)
JD51834-4	4D121182.D	09/16/22	11:05	02:42	(used for QC only; not part of job JD51497)
ZZZZZZ	4D121183.D	09/16/22	11:34	03:11	(unrelated sample)
ZZZZZZ	4D121184.D	09/16/22	12:03	03:40	(unrelated sample)
ZZZZZZ	4D121185.D	09/16/22	12:32	04:09	(unrelated sample)
ZZZZZZ	4D121186.D	09/16/22	13:01	04:38	(unrelated sample)
ZZZZZZ	4D121187.D	09/16/22	13:30	05:07	(unrelated sample)
ZZZZZZ	4D121188.D	09/16/22	13:59	05:36	(unrelated sample)
JD51834-4MS	4D121189.D	09/16/22	14:28	06:05	Matrix Spike
JD51834-4MSD	4D121190.D	09/16/22	14:58	06:35	Matrix Spike Duplicate
ZZZZZZ	4D121192.D	09/16/22	15:56	07:33	(unrelated sample)
ZZZZZZ	4D121193.D	09/16/22	16:25	08:02	(unrelated sample)
ZZZZZZ	4D121194.D	09/16/22	16:54	08:31	(unrelated sample)
JD51497-1	4D121195.D	09/16/22	17:24	09:01	GRAB 1 THRU 4-090722-BSA DISCHARGE
ZZZZZZ	4D121196.D	09/16/22	17:53	09:30	(unrelated sample)
ZZZZZZ	4D121197.D	09/16/22	18:22	09:59	(unrelated sample)
ZZZZZZ	4D121198.D	09/16/22	18:52	10:29	(unrelated sample)
ZZZZZZ	4D121199.D	09/16/22	19:21	10:58	(unrelated sample)
ZZZZZZ	4D121200.D	09/16/22	19:50	11:27	(unrelated sample)
ZZZZZZ	4D121201.D	09/16/22	20:19	11:56	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: VN12528-BFB
Lab File ID: N295976.D
Instrument ID: GCMSN
Injection Date: 08/23/22
Injection Time: 20:51

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	45392	23.8		Pass
75	30.0 - 60.0% of mass 95	93351	49.0		Pass
95	Base peak, 100% relative abundance	190677	100.0		Pass
96	5.0 - 9.0% of mass 95	12523	6.57		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	143397	75.2		Pass
175	5.0 - 9.0% of mass 174	10759	5.64	(7.50) [a]	Pass
176	95.0 - 101.0% of mass 174	137888	72.3	(96.2) [a]	Pass
177	5.0 - 9.0% of mass 176	9893	5.19	(7.17) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VN12528-IC12528	N295977.D	08/23/22	21:30	00:39	Initial cal 0.2
VN12528-IC12528	N295978.D	08/23/22	22:00	01:09	Initial cal 0.5
VN12528-IC12528	N295979.D	08/23/22	22:30	01:39	Initial cal 1
VN12528-IC12528	N295980.D	08/23/22	23:00	02:09	Initial cal 2
VN12528-IC12528	N295981.D	08/23/22	23:29	02:38	Initial cal 4
VN12528-IC12528	N295982.D	08/23/22	23:59	03:08	Initial cal 8
VN12528-ICC12528	N295983.D	08/24/22	00:29	03:38	Initial cal 20
VN12528-IC12528	N295984.D	08/24/22	00:59	04:08	Initial cal 50
VN12528-IC12528	N295985.D	08/24/22	01:28	04:37	Initial cal 100
VN12528-IC12528	N295986.D	08/24/22	01:58	05:07	Initial cal 200
VN12528-ICV12528	N295989.D	08/24/22	03:27	06:36	Initial cal verification 20
VN12528-ICV12528	N295990.D	08/24/22	03:57	07:06	Initial cal verification 20

Instrument Performance Check (BFB)

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: VN12551-BFB
Lab File ID: N296461.D
Instrument ID: GCMSN
Injection Date: 09/21/22
Injection Time: 07:50

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	39290	27.7		Pass
75	30.0 - 60.0% of mass 95	71765	50.5		Pass
95	Base peak, 100% relative abundance	141987	100.0		Pass
96	5.0 - 9.0% of mass 95	8646	6.09		Pass
173	Less than 2.0% of mass 174	656	0.46	(0.52) [a]	Pass
174	50.0 - 120.0% of mass 95	125040	88.1		Pass
175	5.0 - 9.0% of mass 174	9040	6.37	(7.23) [a]	Pass
176	95.0 - 101.0% of mass 174	119384	84.1	(95.5) [a]	Pass
177	5.0 - 9.0% of mass 176	7475	5.26	(6.26) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VN12551-BS	N296462.D	09/21/22	08:20	00:30	Blank Spike
VN12551-CC12528	N296462.D	09/21/22	08:20	00:30	Continuing cal 20
VN12551-MB	N296464.D	09/21/22	09:33	01:43	Method Blank
ZZZZZZ	N296465.D	09/21/22	10:03	02:13	(unrelated sample)
JD51497-3	N296466.D	09/21/22	10:32	02:42	GRAB 1 THRU 4-091422-BSA DISCHARGE
ZZZZZZ	N296467.D	09/21/22	11:03	03:13	(unrelated sample)
ZZZZZZ	N296469.D	09/21/22	12:19	04:29	(unrelated sample)
JD51497-3MS	N296473.D	09/21/22	14:19	06:29	Matrix Spike
JD51497-3MSD	N296474.D	09/21/22	14:49	06:59	Matrix Spike Duplicate
ZZZZZZ	N296476.D	09/21/22	15:49	07:59	(unrelated sample)
ZZZZZZ	N296477.D	09/21/22	16:19	08:29	(unrelated sample)
ZZZZZZ	N296478.D	09/21/22	16:49	08:59	(unrelated sample)
JD51497-4	N296479.D	09/21/22	17:19	09:29	TB
ZZZZZZ	N296480.D	09/21/22	17:49	09:59	(unrelated sample)
ZZZZZZ	N296481.D	09/21/22	18:20	10:30	(unrelated sample)
ZZZZZZ	N296482.D	09/21/22	18:50	11:00	(unrelated sample)
ZZZZZZ	N296483.D	09/21/22	19:20	11:30	(unrelated sample)

Surrogate Recovery Summary

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Method: EPA 624.1 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JD51497-1	4D121195.D	88	100	99	99
JD51497-3	N296466.D	119	101	90	107
JD51497-4	N296479.D	118	98	90	108
JD51497-3MS	N296473.D	118	102	88	109
JD51497-3MSD	N296474.D	116	100	87	108
JD51834-4MS	4D121189.D	84	97	101	98
JD51834-4MSD	4D121190.D	84	97	102	99
V4D5383-BS	4D121178.D	85	98	101	99
V4D5383-MB	4D121180.D	87	101	100	98
VN12551-BS	N296462.D	118	106	84	108
VN12551-MB	N296464.D	114	99	88	109

Surrogate Compounds	Recovery Limits
S1 = 1,2-Dichloroethane-D4 (SUR)	80-128%
S2 = Toluene-D8 (SUR)	82-113%
S3 = 4-Bromofluorobenzene (SUR)	79-117%
S4 = Dibromofluoromethane (S)	84-121%

MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41784B-MB1	P151361.D	1	09/15/22	CS	09/14/22	OP41784B	EP7011

The QC reported here applies to the following samples: **Method:** EPA 625.1

JD51497-1

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.82	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.89	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.4	ug/l	
51-28-5	2,4-Dinitrophenol	ND	10	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.0	1.3	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.96	ug/l	
100-02-7	4-Nitrophenol	ND	10	1.2	ug/l	
87-86-5	Pentachlorophenol	ND	5.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.39	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.92	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.19	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.14	ug/l	
120-12-7	Anthracene	ND	1.0	0.21	ug/l	
92-87-5	Benzidine	ND	10	0.90	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.21	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.21	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.34	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.21	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.40	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.46	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.24	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.34	ug/l	
218-01-9	Chrysene	ND	1.0	0.18	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.28	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.25	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	2.0	0.40	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.37	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.17	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.17	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.51	ug/l	

Method Blank Summary

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41784B-MB1	P151361.D	1	09/15/22	CS	09/14/22	OP41784B	EP7011

The QC reported here applies to the following samples: **Method:** EPA 625.1

JD51497-1

CAS No.	Compound	Result	RL	MDL	Units	Q
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.33	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.23	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.22	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	1.7	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.17	ug/l	
86-73-7	Fluorene	ND	1.0	0.17	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.8	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.39	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.33	ug/l	
78-59-1	Isophorone	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	1.0	0.23	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.64	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	2.0	0.82	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.18	ug/l	
129-00-0	Pyrene	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	37%	10-110%
4165-62-2	Phenol-d5	25%	10-110%
118-79-6	2,4,6-Tribromophenol	63%	35-147%
4165-60-0	Nitrobenzene-d5	71%	32-132%
321-60-8	2-Fluorobiphenyl	76%	40-117%
1718-51-0	Terphenyl-d14	78%	33-126%

Method Blank Summary

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41784B-MB1	P151361.D	1	09/15/22	CS	09/14/22	OP41784B	EP7011

The QC reported here applies to the following samples: **Method:**

JD51497-1

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41784B-BS1	P151364.D	1	09/15/22	CS	09/14/22	OP41784B	EP7011
OP41784B-BSD	P151365.D	1	09/15/22	CS	09/14/22	OP41784B	EP7011

The QC reported here applies to the following samples: **Method:** EPA 625.1

JD51497-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	50	33.3	67	31.5	63	6	43-100/22
59-50-7	4-Chloro-3-methyl phenol	50	43.1	86	38.1	76	12	46-110/21
120-83-2	2,4-Dichlorophenol	50	43.1	86	37.8	76	13	44-109/21
105-67-9	2,4-Dimethylphenol	50	37.8	76	31.4	63	18	42-116/20
51-28-5	2,4-Dinitrophenol	100	61.8	62	68.2	68	10	38-131/27
534-52-1	4,6-Dinitro-o-cresol	50	39.1	78	40.5	81	4	50-124/26
88-75-5	2-Nitrophenol	50	36.5	73	35.8	72	2	44-109/21
100-02-7	4-Nitrophenol	50	18.2	36	17.7	35	3	14-110/23
87-86-5	Pentachlorophenol	100	89.2	89	88.6	89	1	25-128/25
108-95-2	Phenol	50	15.3	31	13.7	27	11	20-110/22
88-06-2	2,4,6-Trichlorophenol	50	48.6	97	45.4	91	7	52-118/24
83-32-9	Acenaphthene	50	45.2	90	42.3	85	7	47-110/24
208-96-8	Acenaphthylene	50	54.0	108	50.4	101	7	45-110/24
120-12-7	Anthracene	50	47.9	96	46.5	93	3	52-110/24
92-87-5	Benzidine	50	ND	0* [a]	ND	0* [a]	nc	10-110/65
56-55-3	Benzo(a)anthracene	50	50.0	100	48.3	97	3	53-110/20
50-32-8	Benzo(a)pyrene	50	46.8	94	43.8	88	7	55-110/23
205-99-2	Benzo(b)fluoranthene	50	51.0	102	48.6	97	5	57-110/23
191-24-2	Benzo(g,h,i)perylene	50	50.3	101	46.6	93	8	51-110/23
207-08-9	Benzo(k)fluoranthene	50	50.3	101	46.8	94	7	56-110/22
101-55-3	4-Bromophenyl phenyl ether	50	51.0	102	48.9	98	4	51-112/23
85-68-7	Butyl benzyl phthalate	50	49.5	99	48.4	97	2	50-122/23
91-58-7	2-Chloronaphthalene	50	41.2	82	38.2	76	8	41-110/26
106-47-8	4-Chloroaniline	50	31.9	64	26.9	54	17	10-110/44
218-01-9	Chrysene	50	46.9	94	45.2	90	4	52-110/20
111-91-1	bis(2-Chloroethoxy)methane	50	41.8	84	36.9	74	12	36-110/21
111-44-4	bis(2-Chloroethyl)ether	50	37.5	75	34.1	68	9	40-111/21
108-60-1	2,2'-Oxybis(1-chloropropane)	50	37.8	76	35.0	70	8	37-110/25
7005-72-3	4-Chlorophenyl phenyl ether	50	44.2	88	42.1	84	5	48-110/25
95-50-1	1,2-Dichlorobenzene	50	31.0	62	28.7	57	8	35-110/28
122-66-7	1,2-Diphenylhydrazine	50	49.9	100	48.2	96	3	39-128/23
541-73-1	1,3-Dichlorobenzene	50	29.7	59	27.8	56	7	32-110/28
106-46-7	1,4-Dichlorobenzene	50	30.1	60	28.2	56	7	33-110/27
121-14-2	2,4-Dinitrotoluene	50	45.0	90	43.6	87	3	61-117/25
606-20-2	2,6-Dinitrotoluene	50	45.3	91	45.1	90	0	61-119/23
91-94-1	3,3'-Dichlorobenzidine	100	42.1	42	41.3	41	2	20-110/33

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41784B-BS1	P151364.D	1	09/15/22	CS	09/14/22	OP41784B	EP7011
OP41784B-BSD	P151365.D	1	09/15/22	CS	09/14/22	OP41784B	EP7011

The QC reported here applies to the following samples: **Method:** EPA 625.1

JD51497-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
53-70-3	Dibenzo(a,h)anthracene	50	51.7	103	49.2	98	5	55-110/25
84-74-2	Di-n-butyl phthalate	50	51.8	104	49.7	99	4	55-118/25
117-84-0	Di-n-octyl phthalate	50	46.3	93	44.0	88	5	49-124/26
84-66-2	Diethyl phthalate	50	46.5	93	44.3	89	5	54-113/23
131-11-3	Dimethyl phthalate	50	46.6	93	43.8	88	6	56-110/23
117-81-7	bis(2-Ethylhexyl)phthalate	50	48.6	97	46.3	93	5	50-120/22
206-44-0	Fluoranthene	50	46.5	93	44.3	89	5	55-111/23
86-73-7	Fluorene	50	45.2	90	42.7	85	6	51-110/25
118-74-1	Hexachlorobenzene	50	47.9	96	46.8	94	2	47-116/23
87-68-3	Hexachlorobutadiene	50	29.6	59	27.3	55	8	24-110/34
77-47-4	Hexachlorocyclopentadiene	100	70.0	70	64.7	65	8	10-110/39
67-72-1	Hexachloroethane	50	28.4	57	26.7	53	6	28-110/34
193-39-5	Indeno(1,2,3-cd)pyrene	50	50.8	102	47.0	94	8	51-112/24
78-59-1	Isophorone	50	42.5	85	37.4	75	13	42-111/20
91-20-3	Naphthalene	50	35.1	70	32.2	64	9	34-110/25
98-95-3	Nitrobenzene	50	40.6	81	38.4	77	6	39-110/21
62-75-9	n-Nitrosodimethylamine	50	22.5	45	19.8	40	13	15-110/19
621-64-7	N-Nitroso-di-n-propylamine	50	38.9	78	34.1	68	13	33-117/21
86-30-6	N-Nitrosodiphenylamine	50	52.5	105	50.3	101	4	54-110/24
85-01-8	Phenanthrene	50	47.2	94	45.1	90	5	53-110/23
129-00-0	Pyrene	50	56.6	113* [a]	54.9	110	3	52-110/22
120-82-1	1,2,4-Trichlorobenzene	50	33.1	66	30.2	60	9	30-110/29

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	42%	40%	10-110%
4165-62-2	Phenol-d5	29%	26%	10-110%
118-79-6	2,4,6-Tribromophenol	104%	102%	35-147%
4165-60-0	Nitrobenzene-d5	82%	78%	32-132%
321-60-8	2-Fluorobiphenyl	93%	87%	40-117%
1718-51-0	Terphenyl-d14	110%	107%	33-126%

(a) Outside of in house control limits.

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: EP7003-DFTPP
Lab File ID: P151279.D
Instrument ID: GCMSP
Injection Date: 09/09/22
Injection Time: 20:56

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	8365	36.4		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	9820	42.7		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	13541	58.9		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	22979	100.0		Pass
199	5.0 - 9.0% of mass 198	1635	7.12		Pass
275	10.0 - 30.0% of mass 198	5496	23.9		Pass
365	1.0 - 100.0% of mass 198	828	3.60		Pass
441	Present, but less than mass 443	2585	11.2	(85.8) [b]	Pass
442	40.0 - 100.0% of mass 198	16779	73.0		Pass
443	17.0 - 23.0% of mass 442	3013	13.1	(18.0) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP7003-IC7003	P151280.D	09/09/22	21:23	00:27	Initial cal 100
EP7003-IC7003	P151281.D	09/09/22	21:47	00:51	Initial cal 1
EP7003-IC7003	P151282.D	09/09/22	22:12	01:16	Initial cal 80
EP7003-IC7003	P151283.D	09/09/22	22:37	01:41	Initial cal 2
EP7003-ICC7003	P151284.D	09/09/22	23:02	02:06	Initial cal 50
EP7003-IC7003	P151285.D	09/09/22	23:27	02:31	Initial cal 5
EP7003-IC7003	P151286.D	09/09/22	23:52	02:56	Initial cal 25
EP7003-IC7003	P151287.D	09/10/22	00:16	03:20	Initial cal 10
EP7003-ICV7003	P151288.D	09/10/22	00:41	03:45	Initial cal verification 50
EP7003-ICV7003	P151289.D	09/10/22	01:06	04:10	Initial cal verification 50
EP7003-ICV7003	P151290.D	09/10/22	01:31	04:35	Initial cal verification 50
EP7003-ICV7003	P151291A.D	09/10/22	02:00	05:04	Initial cal verification 50
EP7003-ICV7003	P151292B.D	09/10/22	02:25	05:29	Initial cal verification 50
EP7003-ICV7003	P151293.D	09/10/22	02:50	05:54	Initial cal verification 50
EP7003-ICV7003	P151294.D	09/10/22	03:16	06:20	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: EP7004-DFTPP
Lab File ID: P151295.D
Instrument ID: GCMSP
Injection Date: 09/10/22
Injection Time: 05:00

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	9537	35.5		Pass
68	Less than 2.0% of mass 69	119	0.44	(1.16) [a]	Pass
69	Mass 69 relative abundance	10229	38.1		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	14985	55.8		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	26857	100.0		Pass
199	5.0 - 9.0% of mass 198	1889	7.03		Pass
275	10.0 - 30.0% of mass 198	6423	23.9		Pass
365	1.0 - 100.0% of mass 198	1016	3.78		Pass
441	Present, but less than mass 443	3107	11.6	(82.0) [b]	Pass
442	40.0 - 100.0% of mass 198	20578	76.6		Pass
443	17.0 - 23.0% of mass 442	3789	14.1	(18.4) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP7004-IC7004	P151296A.D	09/10/22	05:39	00:39	Initial cal 100
EP7004-IC7004	P151297.D	09/10/22	06:04	01:04	Initial cal 80
EP7004-ICC7004	P151298.D	09/10/22	06:28	01:28	Initial cal 50
EP7004-IC7004	P151299A.D	09/10/22	07:34	02:34	Initial cal 25
EP7004-IC7004	P151300.D	09/10/22	07:58	02:58	Initial cal 10
EP7004-IC7004	P151301.D	09/10/22	08:23	03:23	Initial cal 5
EP7004-IC7004	P151302.D	09/10/22	08:48	03:48	Initial cal 2
EP7004-IC7004	P151303.D	09/10/22	09:13	04:13	Initial cal 1
EP7004-ICV7004	P151304.D	09/10/22	09:37	04:37	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: EP7011-DFTPP
Lab File ID: P151357.D
Instrument ID: GCMSP
Injection Date: 09/15/22
Injection Time: 06:03

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	14996	37.7		Pass
68	Less than 2.0% of mass 69	81	0.20	(0.48) [a]	Pass
69	Mass 69 relative abundance	17016	42.8		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	22593	56.8		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	39768	100.0		Pass
199	5.0 - 9.0% of mass 198	2660	6.69		Pass
275	10.0 - 30.0% of mass 198	9090	22.9		Pass
365	1.0 - 100.0% of mass 198	1346	3.38		Pass
441	Present, but less than mass 443	3959	9.96	(76.3) [b]	Pass
442	40.0 - 100.0% of mass 198	26752	67.3		Pass
443	17.0 - 23.0% of mass 442	5186	13.0	(19.4) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP7011-CC7003	P151358.D	09/15/22	06:15	00:12	Continuing cal 50
EP7011-CC7004	P151359.D	09/15/22	06:40	00:37	Continuing cal 50
EP7011-CC7003	P151360.D	09/15/22	07:07	01:04	Continuing cal 5
OP41784-MB1	P151361.D	09/15/22	07:47	01:44	Method Blank
OP41784B-MB1	P151361.D	09/15/22	07:47	01:44	Method Blank
ZZZZZZ	P151362.D	09/15/22	08:12	02:09	(unrelated sample)
ZZZZZZ	P151363.D	09/15/22	08:36	02:33	(unrelated sample)
OP41784-BS1	P151364.D	09/15/22	09:01	02:58	Blank Spike
OP41784B-BS1	P151364.D	09/15/22	09:01	02:58	Blank Spike
OP41784-BSD	P151365.D	09/15/22	09:26	03:23	Blank Spike Duplicate
OP41784B-BSD	P151365.D	09/15/22	09:26	03:23	Blank Spike Duplicate
ZZZZZZ	P151366.D	09/15/22	09:51	03:48	(unrelated sample)
ZZZZZZ	P151367.D	09/15/22	10:15	04:12	(unrelated sample)
ZZZZZZ	P151368.D	09/15/22	10:40	04:37	(unrelated sample)
ZZZZZZ	P151369.D	09/15/22	11:05	05:02	(unrelated sample)
ZZZZZZ	P151370.D	09/15/22	11:29	05:26	(unrelated sample)
ZZZZZZ	P151371.D	09/15/22	11:54	05:51	(unrelated sample)
ZZZZZZ	P151372.D	09/15/22	12:19	06:16	(unrelated sample)
ZZZZZZ	P151373.D	09/15/22	12:44	06:41	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample:	EP7011-DFTPP	**Injection Date:**	09/15/22
Lab File ID:	P151357.D	**Injection Time:**	06:03
Instrument ID:	GCMSP		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	P151374.D	09/15/22	13:09	07:06	(unrelated sample)
ZZZZZZ	P151375.D	09/15/22	13:33	07:30	(unrelated sample)
ZZZZZZ	P151376.D	09/15/22	13:58	07:55	(unrelated sample)
ZZZZZZ	P151377.D	09/15/22	14:23	08:20	(unrelated sample)
ZZZZZZ	P151378.D	09/15/22	14:48	08:45	(unrelated sample)
JD51497-1	P151379.D	09/15/22	15:12	09:09	GRAB 1 THRU 4-090722-BSA DISCHARGE

Surrogate Recovery Summary

Job Number: JD51497
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Method: EPA 625.1 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JD51497-1	P151379.D	32	22	103	72	78	43
OP41784B-BS1	P151364.D	42	29	104	82	93	110
OP41784B-BSD	P151365.D	40	26	102	78	87	107
OP41784B-MB1	P151361.D	37	25	63	71	76	78

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	10-110%
S2 = Phenol-d5	10-110%
S3 = 2,4,6-Tribromophenol	35-147%
S4 = Nitrobenzene-d5	32-132%
S5 = 2-Fluorobiphenyl	40-117%
S6 = Terphenyl-d14	33-126%

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD51497
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35169
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/16/22

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	9.2	77		
Antimony	6.0	2.8	4.1		
Arsenic	3.0	2.6	2.5		
Barium	200	.2	17		
Beryllium	1.0	.2	.5		
Bismuth	20	2.5	4.8		
Boron	100	1.8	85		
Cadmium	3.0	.4	1.2		
Calcium	5000	13	130		
Cerium	100				
Chromium	10	.7	1.5		
Cobalt	50	.6	2.5		
Copper	10	.7	4.1	-0.70	<10
Iron	100	3.3	30		
Lead	3.0	2	2.4		
Lithium	50	1.5	9.1		
Magnesium	5000	25	200		
Manganese	15	.1	2		
Molybdenum	20	.6	4.5		
Nickel	10	.8	1.8		
Phosphorus	50	7	14		
Potassium	10000	35	200		
Selenium	10	3.6	5.5		
Silicon	200	2.2	130		
Silver	10	.6	2.4		
Sodium	10000	14	900		
Strontium	10	.1	1.6		
Sulfur	50	3.7	18		
Thallium	10	5.2	1.9		
Tin	50	1.4	4.7		
Titanium	10	.8	1.9		
Tungsten	50	1.3	19		
Vanadium	50	.5	2.3		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD51497
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35169
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/16/22

Metal	RL	IDL	MDL	MB raw	final
Zinc	20	.3	8.5	0.40	<20
Zirconium	10	.5	4.9		

Associated samples MP35169: JD51497-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD51497
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35169
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/16/22

Metal	JD51807-1 Original	MS	Spikelot MP200.7A	% Rec	QC Limits
Aluminum					
Antimony	anr				
Arsenic	anr				
Barium	anr				
Beryllium	anr				
Bismuth					
Boron					
Cadmium	anr				
Cerium					
Chromium	anr				
Cobalt					
Copper	284	2150	2000	93.3	70-130
Iron					
Lead	anr				
Lithium					
Magnesium					
Manganese	anr				
Molybdenum					
Nickel	anr				
Phosphorus					
Potassium					
Selenium	anr				
Silicon					
Silver	anr				
Sodium					
Strontium					
Sulfur					
Thallium	anr				
Tin					
Titanium					
Tungsten					
Vanadium					
Zinc	69.4	1910	2000	92.0	70-130

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD51497
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35169 Methods: EPA 200.7
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 09/16/22

Metal	JD51807-1 Original MS	Spikelot MP200.7A % Rec	QC Limits
Zirconium			

Associated samples MP35169: JD51497-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD51497
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35169 Methods: EPA 200.7
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 09/16/22

Metal	JD51807-1 Original	MSD	Spikelot MP200.7A	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Bismuth						
Boron						
Cadmium	anr					
Cerium						
Chromium	anr					
Cobalt						
Copper	284	2200	2000	95.8	2.3	10
Iron						
Lead	anr					
Lithium						
Magnesium						
Manganese	anr					
Molybdenum						
Nickel	anr					
Phosphorus						
Potassium						
Selenium	anr					
Silicon						
Silver	anr					
Sodium						
Strontium						
Sulfur						
Thallium	anr					
Tin						
Titanium						
Tungsten						
Vanadium						
Zinc	69.4	1940	2000	93.5	1.6	10

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD51497
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35169 Methods: EPA 200.7
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 09/16/22

Metal	JD51807-1 Original MSD	Spikelot MP200.7A % Rec	MSD RPD	QC Limit
Zirconium				

Associated samples MP35169: JD51497-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD51497
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35169
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/16/22

Metal	BSP Result	Spikelot MP200.7A	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Bismuth				
Boron				
Cadmium	anr			
Calcium				
Cerium				
Chromium	anr			
Cobalt				
Copper	1980	2000	99.0	85-115
Iron				
Lead	anr			
Lithium				
Magnesium				
Manganese	anr			
Molybdenum				
Nickel	anr			
Phosphorus				
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Strontium				
Sulfur				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium				

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD51497
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35169
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/16/22

Metal	BSP Result	Spikelot MP200.7A	% Rec	QC Limits
Zinc	2050	2000	102.5	85-115
Zirconium				

Associated samples MP35169: JD51497-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD51497
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35169
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/16/22

Metal	JD51807-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Bismuth				
Boron				
Cadmium	anr			
Calcium				
Cerium				
Chromium	anr			
Cobalt				
Copper	284	266	6.6	0-10
Iron				
Lead	anr			
Lithium				
Magnesium				
Manganese	anr			
Molybdenum				
Nickel	anr			
Phosphorus				
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Strontium				
Sulfur				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium				

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD51497
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35169
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/16/22

Metal	JD51807-1 Original	SDL 1:5	%DIF	QC Limits
Zinc	69.4	74.8	7.8	0-10
Zirconium				

Associated samples MP35169: JD51497-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD51497
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35209 Methods: EPA 245.1
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 09/19/22

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.034	.092	-0.059	<0.20

Associated samples MP35209: JD51497-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD51497
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35209 Methods: EPA 245.1
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 09/19/22

Metal	JD51848-1 Original	MS	Spikelot HGPW3	% Rec	QC Limits
Mercury	0.0	2.2	2	110.0	70-130

Associated samples MP35209: JD51497-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD51497
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35209 Methods: EPA 245.1
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 09/19/22

Metal	JD51848-1 Original	MSD	Spikelot HGPW3	% Rec	MSD RPD	QC Limit
Mercury	0.0	2.1	2	105.0	4.7	19

Associated samples MP35209: JD51497-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD51497
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35209
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 09/19/22

Metal	BSP Result	Spikelot HGPW3	% Rec	QC Limits
Mercury	2.2	2	110.0	85-115

Associated samples MP35209: JD51497-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD51497
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Phosphorus, Total	GP42249/GN33290	0.050	0.0	mg/l	0.4	0.36	90.0	80-120%
Solids, Total Suspended	GN33328	4.0	0.0	mg/l	100	96.8 mg/l	96.8	80-120%
Solids, Total Suspended	GN33578	4.0	0.0	mg/l	100	92.8	92.8	80-120%

Associated Samples:
Batch GN33328: JD51497-2
Batch GN33578: JD51497-2R
Batch GP42249: JD51497-2
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD51497
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Phosphorus, Total	GP42249/GN33290	JD51465-1	mg/l	0.0	0.0	0.0	0-38%
Solids, Total Suspended	GN33328	JD51467-1	mg/l	3.8	3.8	0.0	0-5%
Solids, Total Suspended	GN33578	JD52255-3	mg/l	15.1	14.6	3.4	0-5%

Associated Samples:
Batch GN33328: JD51497-2
Batch GN33578: JD51497-2R
Batch GP42249: JD51497-2
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD51497
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Phosphorus, Total	GP42249/GN33290	JD51465-1	mg/l	0.0	0.4	0.35	87.5	35-137%

Associated Samples:
Batch GP42249: JD51497-2
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Laboratory Analytical Report for September 23, 2022, Resampling for TSS

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Honeywell International Inc. OMM work

HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

30130 PO#A001132428

SGS Job Number: JD52582

Sampling Date: 09/23/22

Report to:

Wood Environment & Infrastructure Soln.
511 Congress Street
Portland, ME 04112
HTS-RES-LAB@Honeywell.com; Ryan.Belcher@amecfw.com

ATTN: Ryan Belcher

Total number of pages in report: **14**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Jadon Schiller 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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EHS.US.CustomerCare@sgs.com

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SGS North America Inc.

Sample Summary

Honeywell International Inc. OMM work

Job No: JD52582

HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Project No: 30130 PO#A001132428

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
JD52582-1	09/23/22	15:45	BH	09/27/22	AQ	Ground Water	COMP-092322-BSA DISCHARGE

This report contains results reported as ND = Not detected. The following applies:
General Chemistry ND = Not detected above the MDL

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Honeywell International Inc. OMM work	**Job No:**	JD52582
Site:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY	**Report Date**	9/30/2022 10:03:11 A

On 09/27/2022, 1 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 1.8 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD52582 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

General Chemistry By Method SM2540 D-11/15

Matrix: AQ **Batch ID:** GN33810

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD52577-1DUP were used as the QC samples for Solids, Total Suspended.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD52582
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/23/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD52582-1	**COMP-092322-BSA DISCHARGE**					
Solids, Total Suspended		243	4.0	1.5	mg/l	SM2540 D-11/15

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	COMP-092322-BSA DISCHARGE		
Lab Sample ID:	JD52582-1	**Date Sampled:**	09/23/22
Matrix:	AQ - Ground Water	**Date Received:**	09/27/22
		Percent Solids:	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Suspended	243	4.0	1.5	mg/l	1	09/28/22 16:20	AS	SM2540 D-11/15

RL = Reporting Limit
MDL = Method Detection Limit

ND = Not detected
J = Indicates a result > = MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- QC Evaluation: Honeywell Limits

WW

SGS Laboratories
2235 Route 130
Dayton, NJ 08810
(p) 732-239-0200

Chain Of Custody/Analysis Request
Project Name: Buffalo Alltift Landfill - Semi-Annual
Lab Project Name: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

AESI Ref: 38609.59845
COC #: 20220923-Alltift
Lab Use Only
Lab_SDG
Lab ID

Privileged & Confidential
EDD To: Ryan Belcher (ryan.belcher@woodplc.com)
Facility Name: Alltift Landfill
Location of Site: Buffalo, New York
Site Code: 30130

Client Contact: (name, co., address)
Sasa Jazic
Honeywell International
301 Plainfield Road, Suite 330
Syracuse, New York 13212
Sasa.Jazic@Honeywell.com
Hardcopy Report To: Do Not Send Hardcopy Unless Requested
Invoice To:

Sampler: Benjamin Hendry
Sampling Company: Jacobs
PO #: A001132428
Analysis Turnaround Time:
Standard -
Rush Charges Authorized for -
Time Around Time Required -
2 DAY RUSH
N
Y
2 DAY RUSH

Job No: JD52582
1 cooler

Sample Identification										Composite (Yes/No)	Filter (Yes - Filtered, Not-filtered)	Preservative: 1	0	2	3	0	0	Lab Sample Numbers
	Sys_Loc_Code	Start Depth (ft)	End Depth (ft)	Sys_Sample_Code	Sample Date	Sample Time	Matrix Code	Medium Code	Sample Type	# of Cont.								
										Units								
1	N/A	---	---	COMP-092322-BSA Discharge	09/23/2022	1545	GW	WATER	REG	2	N	N					2	G32
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Initial Assessment 2A EC
Label Verification

Special Instructions:	Sample Location	pH Range	pH	Max Temp (°C)	Temp (°C)	Flow	Cond. (mS/cm)	Other	Notes: For COC questions, contact -- Benjamin Hendry benjamin.hendry@jacobs.com 315-806-4029

Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Custody Seals Intact
	Jacobs	09-26 22/1400	FEDEX		9/27/22 9:56	Cooler Temp. 1.2	
Fed Ex		9/27/22 9:56	James Kinney			Condition	Custody Seals Intact
					Date/Time	Cooler Temp.	

Preservatives: 0 = None; 1 = HCL; 2 = HNO3; 3 = H2SO4; 4 = NaOH; 5 = Zn, Acetate; 6 = MeOH; 7 = NaHSO4; 8 = Other (specify):

Fedex: 5894 7365 8371

JD52582: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: JD52582 **Client:** HONEYWELL **Project:** BUFFALO ALLTIFT LANDFILL

Date / Time Received: 9/27/2022 9:56:00 AM **Delivery Method:** Fed Ex **Airbill #'s:** 5894 7365 8371

Cooler Temps (Raw Measured) °C: Cooler 1: (1.2);

Cooler Temps (Corrected) °C: Cooler 1: (1.8);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JD52582: Chain of Custody
Page 2 of 2

QC Evaluation: Honeywell Limits

Job Number: JD52582
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/23/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits

No Honeywell Limits found for methods in this job.

* Sample used for QC is not from job JD52582

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD52582
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Solids, Total Suspended	GN33810	4.0	0.0	mg/l	100	99.2 mg/l	99.2	80-120%

Associated Samples:
Batch GN33810: JD52582-1
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD52582
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Solids, Total Suspended	GN33810	JD52577-1	mg/l	5.7	5.7	0.0	0-5%

Associated Samples:
Batch GN33810: JD52582-1
(*) Outside of QC limits

October 26, 2022

Ms. Traserra Adams
Buffalo Sewer Authority
Industrial Waste Section
90 West Ferry Street
Buffalo, NY 14213-1799

Subject: B.P.D.E.S. Discharge Permit 21-12 BU098
Permit Excursion Investigation Update
Alltift Landfill, Buffalo, New York

Dear Ms. Adams:

On behalf of Honeywell International Inc. (Honeywell), WSP USA Environment and Infrastructure (WSP) is submitting this letter to summarize the results of the investigation and the corrective actions to be implemented in response to the total suspended solids (TSS) excursion of permit limits of the subject permit during the second 2022 semi-annual discharge monitoring event.

As previously reported, 270 milligrams per liter (mg/L) of TSS detected in the second 2022 semi-annual discharge sample collected on September 7, 2022, which is greater than the permit limit of 250 mg/L, and a second sample for TSS collected on September 23, 2022 had a result of 243 mg/L, which is below the limit, but elevated compared to historical TSS results.

The project team is currently completing the second semi-annual discharge monitoring report (DMR) for submittal to the Buffalo Sewer Authority (BSA) and will include both the original and resampling results in the DMR.

The investigation has concluded that suspended solids in the permitted discharge likely have increased due to the presence of precipitated iron solids in the low-lift station. Historically, iron solids have been periodically removed from the low-lift station, sampled, waste profiled, and properly disposed off-site. We therefore propose to remove iron solids from the low-lift station as one of the corrective actions. As a second corrective action, we plan to redevelop the well screen of one or both of the active groundwater pumping sumps associated with the groundwater collection system that discharges to the low-lift station before being pumped to the BSA sewer system. Planning and execution of these corrective actions are ongoing, and the schedule, implementation and results will be communicated as they become available.

Please call Ryan Belcher at 207-289-4213 with any question regarding this submittal.

Yours sincerely,

Robert L. Gersh
Senior Project Manager

Ryan T. Belcher
Associate Environmental Engineer

cc:
Sasa Jazic, Honeywell
John Formoza, Jacobs
Taylor Monnin, NYSDEC
Jason Paananen, City of Buffalo

WSP USA E&I.
511 Congress Street, Ste 500
Portland, ME 04101, USA
wsp.com

ATTACHMENT B.7

ANNUAL GROUNDWATER MONITORING DATA

TABLE 1
Summary of Groundwater Analytical Results - 2022
2022/2023 Annual OM&M Report
Alltift Landfill /Ramco Steel Site

Parameter Name	Units	NYSDEC Class GA Standards or Guidance Values	MW-2-092322 09/23/2022	SUMP-1-092322 09/23/2022	SUMP-2-092322 09/23/2022	SUMP-3-092322 09/23/2022	SUMP-4-092322 9/23/2022	SUMP-4-FD-092322 9/23/2022	SUMP-COMP-092322 09/23/2022
ALUMINUM	**ug/L**								
Metals (Dissolved)									
ANTIMONY	**mg/L**	**0.003**	0.0047 U	-- --	-- --	-- --	0.0047 U	0.0047 U	0.0047 U
ARSENIC	**mg/L**	**0.025**	0.0028 U	-- --	-- --	-- --	**0.0109**	**0.012**	**0.117**
CADMIUM	**mg/L**	**0.005**	0.001 U	-- --	-- --	-- --	0.001 U	0.001 U	0.001 U
CHROMIUM	**mg/L**	**0.05**	0.002 U	-- --	-- --	-- --	**0.0024** J	**0.0023** J	**0.0849**
IRON	**mg/L**	**0.3**	**0.0657** J	-- --	-- --	-- --	**36.4**	**36.8**	**70.6**
LEAD	**mg/L**	**0.025**	0.0018 U	-- --	-- --	-- --	0.0018 U	0.0018 U	**0.0192**
MANGANESE	**mg/L**	**0.3**	**0.048**	-- --	-- --	-- --	**0.183**	**0.179**	**0.617**
NICKEL	**mg/L**	**0.1**		-- --	-- --	-- --			
MERCURY	**mg/L**	**0.0007**	**0.00011** J	-- --	-- --	-- --	**0.00013** J	**0.00014** J	**0.00019** J
VOCs									
BENZENE	**µg/L**	**1**	0.43 U	**6.4**	**6.2**	**0.98**	0.43 U	0.43 U	-- --
CHLOROBENZENE	**µg/L**	**5**	0.56 U	**109**	**110**	**16.9**	**46**	**46.8**	-- --
ETHYLBENZENE	**µg/L**	**5**	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	-- --
XYLENES, TOTAL	**µg/L**	**5**	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	-- --
1,2-DICHLOROBENZENE	**µg/L**	**3**	0.53 U	**0.92** J	**0.96** J	0.53 U	**0.61** J	**0.60** J	-- --
1,4-DICHLOROBENZENE	**µg/L**	**3**	0.51 U	**1.6**	**1.7**	0.51 U	**1.1**	**1.1**	-- --
SVOCs									
4-CHLOROANILINE	**µg/L**	**5**	0.32 U	-- --	-- --	-- --	0.32 U	0.32 U	0.32 U
NAPHTHALENE	**µg/L**	**10**	0.22 U	-- --	-- --	-- --	0.22 U	0.22 U	0.22 U
1,4-Dioxane	**µg/L**	**0.35**	0.048 U	-- --	-- --	-- --	**15.7**	**18.4**	**20.7**
PFAs									
Perfluorooctanesulfonic Acid (PFOS)	**ng/L**	**2.7**	**5.3**	**54.8**	**47.2**	**22.7**	**21.2**	**18.7**	**39.9**
Perfluoroundecanoic Acid (Pfunda)	**ng/L**	**100**	0.94 U	5.6 U	1 U	1.1 U	1.1 U	1 U	1.2 U
n-Methyl Perfluorooctanesulfonamidoacetic Acid (n-MeFOSAA)	**ng/L**	**100**	1.9 U	11 U	10 U	2.1 U	2.1 U	2.1 U	2.4 U
Perfluoropentanoic Acid (PFPeA)	**ng/L**	**100**	**3**	**41.7**	5 U	**57.1**	5.3 U	5.2 U	**65.2**
6:2 Fluorotelomer Sulfonate (6:2 FTS)	**ng/L**	**100**	1.9 U	11 U	10 U	2.1 U	2.1 U	2.1 U	**5.4** J
n-Ethyl Perfluorooctanesulfonamidoacetic Acid (n-ETFOSAA)	**ng/L**	**100**	1.9 U	11 U	10 U	2.1 U	2.1 U	2.1 U	2.4 U
Perfluorohexanoic Acid (PFHxA)	**ng/L**	**100**	**2.5**	**43.5**	**38.6**	**22.3**	**15.6**	**15.3**	**31.4**
Perfluorododecanoic Acid (PFDoA)	**ng/L**	**100**	0.94 U	5.6 U	1 U	1.1 U	1.1 U	5.2 U	1.2 U
Perfluorooctanoic Acid (PFOA)	**ng/L**	**6.7**	**5.6**	**251**	**222**	**52.5**	**52.3**	**47.9**	**141**
Perfluorodecanoic acid (PFDA)	**ng/L**	**100**	0.94 U	5.6 U	1 U	1.1 U	1.1 U	5.2 U	1.2 U
Perfluorodecanesulfonic acid (PFDS)	**ng/L**	**100**	0.94 U	5.6 U	1 U	1.1 U	1.1 U	1 U	1.2 U
Perfluorohexanesulfonic Acid (PFHxS)	**ng/L**	**100**	**1.8** J	5.6 U	5 U	1.1 U	1.1 U	5.2 U	6.1 U
Perfluorobutanoic Acid (PFBA)	**ng/L**	**100**	**8.7**	**1160**	**1150**	**152**	**99**	**96.7**	**774**
Perfluorobutanesulfonic Acid (PFBS)	**ng/L**	**100**	**2**	5.6 U	1 U	5.3 U	5.3 U	5.2 U	6.1 U
Perfluoroheptanoic Acid (PFHpA)	**ng/L**	**100**	**1.7** J	**57.6**	**41**	**20.5**	**17.1**	**15.5**	**35.9**
Perfluoroheptanesulfonic Acid (PFHpS)	**ng/L**	**100**	0.94 U	5.6 U	5 U	1.1 U	5.3 U	5.2 U	6.1 U
Perfluorononanoic Acid (PFNA)	**ng/L**	**100**	**1.1** J	5.6 U	1 U	1.1 U	1.1 U	1 U	6.1 U
Perfluorotetradecanoic Acid (PFTeDA)	**ng/L**	**100**	0.94 U	5.6 U	1 U	1.1 U	1.1 U	1 U	1.2 U
8:2 Fluorotelomer Sulfonate (8:2 FTS)	**ng/L**	**100**	1.9 U	11 U	2 U	2.1 U	2.1 U	10 U	2.4 U
Perfluorotridecanoic Acid (Pftrda)	**ng/L**	**100**	0.94 U	5.6 U	1 U	1.1 U	1.1 U	5.2 U	1.2 U
Perfluorooctane Sulfonamide (FOSA)	**ng/L**	**100**	1.9 U	11 U	10 U	2.1 U	11 U	10 U	2.4 U
Total PFAS	**ng/L**	**500**	**31.7**	**1608.6**	**1498.8**	**327.1**	**206.3**	**199.3**	**1092.8**

Note:

Bold - Detected during Laboratory Analysis

B - Analyte Detected in Associated Method Blank

J - Analyte Detected Below Reporting Limit

U - Analyte not detected

Shading indicates exceedance of NYSDEC Class GA Standard

mg/L - milligrams per liter

ng/L - nanograms per liter

ug/L - micrograms per liter

NS - No Standard

Prepared By: HTS/AB 04/24/2023
Checked By: RTB 05/15/2023

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Honeywell International Inc. OMM work

HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

30130 PO#A000804776

SGS Job Number: JD52684

Sampling Date: 09/23/22

Report to:

WSP USA Environment & Infrastructure Inc
511 Congress Street
Portland, ME 04112
HTS-RES-LAB@Honeywell.com; Ryan.Belcher@amecfw.com

ATTN: Ryan Belcher

Total number of pages in report: **118**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Jadon Schiller 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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Test results relate only to samples analyzed.

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Please share your ideas about
how we can serve you better at:
EHS.US.CustomerCare@sgs.com

May 02, 2023

Mr. Ryan Belcher
WSP USA Environment & Infrastructure Inc
511 Congress Street
Portland, ME 04112

Re: SGS North America – Dayton, NJ Jobs # JD52684 – Reissues

Dear Mr. Belcher,

The final reports for SGS jobs number JD52684 have been edited to reflect corrections to the final results. These edits have been incorporated into the revised report which is attached.

Specifically, the PFAS data for samples JD52684-4A and JD52684-5A have been retransferred and reported. We reported PFHxS from the 1x from both and it is ND. The attached revised report incorporates these revisions.

SGS apologizes for this occurrence and for any inconvenience this situation may have caused. Please contact me at 732-329-0200 if I can be of further assistance in this matter.

Sincerely,

Report Department

SGS North America Inc

CONTINUOUS SERVICE IMPROVEMENT!

Our goal is to continuously improve our service to you. Please share your ideas about how we can serve you better at EHS.US.CustomerCare@sgs.com. Your feedback is appreciated!

May 15, 2023

Mr. Ryan Belcher
WSP USA Environment & Infrastructure Inc
511 Congress Street
Portland, ME 04112

Re: SGS North America – Dayton, NJ Jobs # JD52684 – Data Inquiry #: DI-DAYT-050423 Reissues #2

Dear Mr. Belcher,

The final reports for SGS jobs number JD52684 have been edited to reflect corrections to the final results. These edits have been incorporated into the revised report which is attached.

Specifically, JD52684-5 data has been updated and revised for Chlorobenzene. The attached revised report incorporates these revisions.

SGS apologizes for this occurrence and for any inconvenience this situation may have caused. Please contact me at 732-329-0200 if I can be of further assistance in this matter.

Sincerely,

Report Department

SGS North America Inc

CONTINUOUS SERVICE IMPROVEMENT!

Our goal is to continuously improve our service to you. Please share your ideas about how we can serve you better at EHS.US.CustomerCare@sgs.com. Your feedback is appreciated!

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SGS North America Inc.

Sample Summary

Honeywell International Inc. OMM work

Job No: JD52684

HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Project No: 30130 PO#A000804776

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD52684-1	09/23/22	12:58	BH	09/27/22	AQ	Ground Water	SUMP-1-092322
JD52684-1A	09/23/22	12:58	BH	09/27/22	AQ	Ground Water	SUMP-1-092322
JD52684-2	09/23/22	14:13	BH	09/27/22	AQ	Ground Water	SUMP-2-092322
JD52684-2A	09/23/22	14:13	BH	09/27/22	AQ	Ground Water	SUMP-2-092322
JD52684-3	09/23/22	15:18	BH	09/27/22	AQ	Ground Water	SUMP-3-092322
JD52684-3A	09/23/22	15:18	BH	09/27/22	AQ	Ground Water	SUMP-3-092322
JD52684-4	09/23/22	16:42	BH	09/27/22	AQ	Ground Water	SUMP-4-092322
JD52684-4A	09/23/22	16:42	BH	09/27/22	AQ	Ground Water	SUMP-4-092322
JD52684-4AD	09/23/22	16:42	BH	09/27/22	AQ	Water Dup/MSD	SUMP-4-092322
JD52684-4AS	09/23/22	16:42	BH	09/27/22	AQ	Water Matrix Spike	SUMP-4-092322
JD52684-4D	09/23/22	16:42	BH	09/27/22	AQ	Water Dup/MSD	SUMP-4-MSD-092322
JD52684-4S	09/23/22	16:42	BH	09/27/22	AQ	Water Matrix Spike	SUMP-4-MS-092322

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL
Metals ND = Not detected above the MDL

Sample Summary
(continued)

Honeywell International Inc. OMM work

Job No: JD52684

HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Project No: 30130 PO#A000804776

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD52684-5	09/23/22	16:42	BH	09/27/22	AQ	Ground Water	SUMP-4-FD-092322
JD52684-5A	09/23/22	16:42	BH	09/27/22	AQ	Ground Water	SUMP-4-FD-092322
JD52684-6	09/23/22	19:00	BH	09/27/22	AQ	Ground Water	SUMP-COMP-092322
JD52684-6A	09/23/22	19:00	BH	09/27/22	AQ	Ground Water	SUMP-COMP-092322
JD52684-7	09/23/22	10:47	BH	09/27/22	AQ	Ground Water	MW-2-092322
JD52684-7A	09/23/22	10:47	BH	09/27/22	AQ	Ground Water	MW-2-092322
JD52684-8	09/23/22	19:00	BH	09/27/22	AQ	Trip Blank Water	TRIP BLANK-092322
JD52684-9	09/23/22	19:00	BH	09/27/22	AQ	Trip Blank Water	TRIP BLANK-2-092322

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Honeywell International Inc. OMM work	**Job No:**	JD52684
Site:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY	**Report Date**	5/2/2023 12:44:20 PM

On 09/27/2022, 7 sample(s), 2 Trip Blank(s), and 0 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 3.6 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of JD52684 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Volatiles By Method SW846 8260D

Matrix: AQ **Batch ID:** V4D5410

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD52684-4MS, JD52684-4MSD were used as the QC samples indicated.
- JD52684-1: (pH=5)Sample pH did not satisfy field preservation criteria.
- JD52684-2: (pH=6)Sample pH did not satisfy field preservation criteria.
- JD52684-3: (pH=3)Sample pH did not satisfy field preservation criteria.
- JD52684-4: (pH=3)Sample pH did not satisfy field preservation criteria.
- JD52684-5: (pH=3)Sample pH did not satisfy field preservation criteria.

MS Semi-volatiles By Method EPA 537M BY ID

Matrix: AQ **Batch ID:** F:OP93368

- The data for EPA 537M BY ID meets quality control requirements.
- JD52684-2A: Analysis performed at SGS Orlando, FL.
- JD52684-5A: Analysis performed at SGS Orlando, FL.
- JD52684-5A: Dilution required (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
- JD52684-1A: Dilution required (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
- JD52684-4A: Analysis performed at SGS Orlando, FL.
- JD52684-6A: Analysis performed at SGS Orlando, FL.
- JD52684-3A: Dilution required (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
- JD52684-3A: Analysis performed at SGS Orlando, FL.
- JD52684-7A: Analysis performed at SGS Orlando, FL.
- JD52684-6A: Dilution required (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
- JD52684-9: Dilution required (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
- JD52684-9: Analysis performed at SGS Orlando, FL.
- JD52684-5A for Perfluorohexanesulfonic acid: Associated ID Standard outside control limits.
- JD52684-6A for PFOSA: Associated ID Standard outside control limits. Confirmed by re-analysis.
- JD52684-2A for Perfluorobutanesulfonic acid: Associated ID Standard outside control limits.
- JD52684-6A for 6:2 Fluorotelomer sulfonate: Associated ID Standard outside control limits.
- JD52684-3A for PFOSA: Associated ID Standard outside control limits. Confirmed by re-analysis.
- JD52684-4A for PFOSA: Associated ID Standard outside control limits.
- JD52684-1A for Perfluorotetradecanoic acid: Associated ID Standard outside control limits.

MS Semi-volatiles By Method SW846 8270E

Matrix: AQ **Batch ID:** OP42162

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) JD52684-4MS, JD52684-4MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

MS Semi-volatiles By Method SW846 8270E BY SIM

Matrix: AQ **Batch ID:** OP42162A

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) JD52684-4MS, JD52684-4MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- The matrix spike (MS) recovery(s) of 1,4-Dioxane are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Metals Analysis By Method SW846 6010D

Matrix: AQ **Batch ID:** MP35442

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD52684-4MS, JD52684-4MSD, JD52684-4SDL were used as the QC samples for the metals analysis.
- The serial dilution RPD(s) for Arsenic, Chromium are outside control limits for sample MP35442-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals Analysis By Method SW846 7470A

Matrix: AQ **Batch ID:** MP35466

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD52684-4MS, JD52684-4MSD were used as the QC samples for the metals analysis.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: SGS Dayton, NJ **Job No:** JD52684

Site: HWINJOMM: HLAME: 30130-Alltift Landfill, 579 Tifft Street, **Report Date:** 10/31/2022 2:48:17 PM

On 10/01/2022, 7 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc - Orlando. at a maximum corrected temperature of 2.6 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. - Orlando Job Number of JD52684 was assigned to the project.

Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section. Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Semi-volatiles By Method EPA 537M BY ID

Matrix: AQ **Batch ID:** OP93368

Sample(s) JD52684-4AMS, JD52684-4AMSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Perfluorobutanesulfonic acid, Perfluoropentanoic acid are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for Perfluorobutanesulfonic acid, Perfluoropentanoic acid are outside control limits. Probable cause is due to matrix interference.

Sample(s) JD52684-1A, JD52684-2A, JD52684-3A, JD52684-4A, JD52684-5A, JD52684-6A, JD52684-9 have surrogates outside control limits.

OP93368-MS for 13C8-FOSA: Outside control limits.

OP93368-MSD for 13C8-FOSA: Outside control limits.

JD52684-1A for 13C2-6:2FTS: Outside control limits.

JD52684-1A for 13C2-8:2FTS: Outside control limits.

JD52684-1A for 13C2-PFDoDA: Outside control limits.

JD52684-1A for 13C2-PFTeDA: Outside control limits.

JD52684-1A for 13C3-PFBS: Outside control limits.

JD52684-1A for 13C3-PFHxS: Outside control limits.

JD52684-1A for 13C4-PFBA: Outside control limits.

JD52684-1A for 13C4-PFHpA: Outside control limits.

JD52684-1A for 13C5-PFHxA: Outside control limits.

JD52684-1A for 13C5-PFPeA: Outside control limits.

JD52684-1A for 13C6-PFDA: Outside control limits.

JD52684-1A for 13C7-PFUnDA: Associated ID Standard outside control limits.

JD52684-1A for 13C8-FOSA: Outside control limits.

JD52684-1A for 13C8-PFOA: Outside control limits.

JD52684-1A for 13C8-PFOS: Outside control limits.

JD52684-1A for 13C9-PFNA: Outside control limits.

JD52684-1A for d3-MeFOSAA: Outside control limits.

JD52684-1A for d5-EtFOSAA: Outside control limits.

JD52684-1A for Perfluorotetradecanoic acid: Associated ID Standard outside control limits.

JD52684-1A: Dilution required (ID recovery standard failure).

JD52684-2A for 13C2-6:2FTS: Outside control limits.

JD52684-2A for 13C2-PFDoDA: Outside control limits.

JD52684-2A for 13C2-PFDoDA: Outside control limits.

JD52684-2A for 13C2-PFTeDA: Outside control limits.

JD52684-2A for 13C2-PFTeDA: Outside control limits.

JD52684-2A for 13C3-PFBS: Outside control limits.

JD52684-2A for 13C3-PFHxS: Outside control limits.

JD52684-2A for 13C4-PFBA: Outside control limits.

JD52684-2A for 13C4-PFBA: Outside control limits.

JD52684-2A for 13C4-PFHpA: Outside control limits.

JD52684-2A for 13C5-PFHxA: Outside control limits.

JD52684-2A for 13C5-PFPeA: Outside control limits.

JD52684-2A for 13C8-FOSA: Outside control limits.

MS Semi-volatiles By Method EPA 537M BY ID

Matrix: AQ **Batch ID:** OP93368

JD52684-2A for 13C8-FOSA: Outside control limits.
JD52684-2A for 13C8-FOSA: Outside control limits.
JD52684-2A for 13C8-PFOA: Outside control limits.
JD52684-2A for 13C8-PFOS: Outside control limits.
JD52684-2A for 13C9-PFNA: Outside control limits.
JD52684-2A for d3-MeFOSAA: Outside control limits.
JD52684-2A for d5-EtFOSAA: Outside control limits.
JD52684-2A for Perfluorobutanesulfonic acid: Associated ID Standard outside control limits.
JD52684-2A for Perfluorononanoic acid: Associated ID Standard outside control limits.
JD52684-2A for PFOSA: Associated ID Standard outside control limits.
JD52684-3A for 13C3-PFBS: Outside control limits.
JD52684-3A for 13C4-PFBA: Outside control limits.
JD52684-3A for 13C4-PFHpA: Outside control limits.
JD52684-3A for 13C5-PFHxA: Outside control limits.
JD52684-3A for 13C5-PFPeA: Outside control limits.
JD52684-3A for 13C8-FOSA: Outside control limits.
JD52684-3A for 13C8-PFOS: Outside control limits.
JD52684-3A for PFOSA: Associated ID Standard outside control limits. Confirmed by re-analysis.
JD52684-3A: Dilution required (ID recovery standard failure).
JD52684-4A for 13C3-PFBS: Outside control limits.
JD52684-4A for 13C4-PFHpA: Outside control limits.
JD52684-4A for 13C5-PFHxA: Outside control limits.
JD52684-4A for 13C5-PFPeA: Outside control limits.
JD52684-4A for 13C8-FOSA: Outside control limits.
JD52684-4A for 13C8-FOSA: Outside control limits.
JD52684-4A for 13C8-PFOS: Outside control limits.
JD52684-4A for PFOSA: Associated ID Standard outside control limits.
JD52684-5A for 13C2-8:2FTS: Outside control limits.
JD52684-5A for 13C2-PFDoDA: Outside control limits.
JD52684-5A for 13C3-PFBS: Outside control limits.
JD52684-5A for 13C3-PFHxS: Outside control limits.
JD52684-5A for 13C4-PFBA: Outside control limits.
JD52684-5A for 13C4-PFHpA: Outside control limits.
JD52684-5A for 13C5-PFHxA: Outside control limits.
JD52684-5A for 13C5-PFPeA: Outside control limits.
JD52684-5A for 13C6-PFDA: Outside control limits.
JD52684-5A for 13C8-FOSA: Outside control limits.
JD52684-5A for 13C8-PFOA: Outside control limits.
JD52684-5A for 13C8-PFOS: Outside control limits.
JD52684-5A for 13C9-PFNA: Outside control limits.
JD52684-5A for Perfluorononanoic acid: Associated ID Standard outside control limits.
JD52684-5A for Perfluoropentanoic acid: Associated ID Standard outside control limits.
JD52684-5A for PFOSA: Associated ID Standard outside control limits.
JD52684-5A: Dilution required (ID recovery standard failure).
JD52684-6A for 13C2-6:2FTS: Outside control limits.
JD52684-6A for 13C3-PFBS: Outside control limits.
JD52684-6A for 13C3-PFHxS: Outside control limits.
JD52684-6A for 13C4-PFBA: Outside control limits.
JD52684-6A for 13C4-PFHpA: Outside control limits.
JD52684-6A for 13C5-PFHxA: Outside control limits.
JD52684-6A for 13C5-PFPeA: Outside control limits.
JD52684-6A for 13C8-FOSA: Outside control limits.
JD52684-6A for 13C8-PFOA: Outside control limits.

MS Semi-volatiles By Method EPA 537M BY ID

Matrix: AQ **Batch ID:** OP93368

JD52684-6A for 13C8-PFOS: Outside control limits.

JD52684-6A for 13C9-PFNA: Outside control limits.

JD52684-6A for 6:2 Fluorotelomer sulfonate: Associated ID Standard outside control limits.

JD52684-6A for PFOSA: Associated ID Standard outside control limits. Confirmed by re-analysis.

JD52684-6A: Dilution required (ID recovery standard failure).

JD52684-9 for 13C2-PFDoDA: Outside control limits.

JD52684-9 for 13C2-PFTeDA: Outside control limits.

JD52684-9 for 13C8-FOSA: Outside control limits.

JD52684-9: Dilution required (ID recovery standard failure).

SGS North America Inc. - Orlando certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted. Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria. SGS North America Inc.- Orlando is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety.

Summary of Hits

Job Number: JD52684
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/23/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD52684-1	**SUMP-1-092322**					
Benzene [a]		6.4	0.50	0.43	ug/l	SW846 8260D
Chlorobenzene [a]		109	1.0	0.56	ug/l	SW846 8260D
1,2-Dichlorobenzene [a]		0.92 J	1.0	0.53	ug/l	SW846 8260D
1,4-Dichlorobenzene [a]		1.6	1.0	0.51	ug/l	SW846 8260D
JD52684-1A	**SUMP-1-092322**					
Perfluorobutanoic acid [b]		1160	22	11	ng/l	EPA 537M BY ID
Perfluoropentanoic acid [b]		41.7	11	5.6	ng/l	EPA 537M BY ID
Perfluorohexanoic acid [b]		43.5	11	5.6	ng/l	EPA 537M BY ID
Perfluoroheptanoic acid [b]		57.6	11	5.6	ng/l	EPA 537M BY ID
Perfluorooctanoic acid [b]		251	11	5.6	ng/l	EPA 537M BY ID
Perfluorooctanesulfonic acid [b]		54.8	11	5.6	ng/l	EPA 537M BY ID
JD52684-2	**SUMP-2-092322**					
Benzene [c]		6.2	0.50	0.43	ug/l	SW846 8260D
Chlorobenzene [c]		110	1.0	0.56	ug/l	SW846 8260D
1,2-Dichlorobenzene [c]		0.96 J	1.0	0.53	ug/l	SW846 8260D
1,4-Dichlorobenzene [c]		1.7	1.0	0.51	ug/l	SW846 8260D
JD52684-2A	**SUMP-2-092322**					
Perfluorobutanoic acid [d]		1150	80	40	ng/l	EPA 537M BY ID
Perfluorohexanoic acid [d]		38.6	10	5.0	ng/l	EPA 537M BY ID
Perfluoroheptanoic acid [d]		41.0	10	5.0	ng/l	EPA 537M BY ID
Perfluorooctanoic acid [d]		222	10	5.0	ng/l	EPA 537M BY ID
Perfluorooctanesulfonic acid [d]		47.2	10	5.0	ng/l	EPA 537M BY ID
JD52684-3	**SUMP-3-092322**					
Benzene [e]		0.98	0.50	0.43	ug/l	SW846 8260D
Chlorobenzene [e]		16.9	1.0	0.56	ug/l	SW846 8260D
JD52684-3A	**SUMP-3-092322**					
Perfluorobutanoic acid [b]		152	21	11	ng/l	EPA 537M BY ID
Perfluoropentanoic acid [b]		57.1	11	5.3	ng/l	EPA 537M BY ID
Perfluorohexanoic acid [b]		22.3	11	5.3	ng/l	EPA 537M BY ID
Perfluoroheptanoic acid [b]		20.5	11	5.3	ng/l	EPA 537M BY ID
Perfluorooctanoic acid [d]		52.5	2.1	1.1	ng/l	EPA 537M BY ID
Perfluorooctanesulfonic acid [b]		22.7	11	5.3	ng/l	EPA 537M BY ID

Summary of Hits

Job Number: JD52684
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/23/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD52684-4	**SUMP-4-092322**					
Chlorobenzene [e]		46.0	1.0	0.56	ug/l	SW846 8260D
1,2-Dichlorobenzene [e]		0.61 J	1.0	0.53	ug/l	SW846 8260D
1,4-Dichlorobenzene [e]		1.1	1.0	0.51	ug/l	SW846 8260D
1,4-Dioxane		15.7	0.95	0.63	ug/l	SW846 8270E
Arsenic		10.9	3.0	2.8	ug/l	SW846 6010D
Chromium		2.4 J	10	2.0	ug/l	SW846 6010D
Iron		36400	100	32	ug/l	SW846 6010D
Manganese		183	15	1.4	ug/l	SW846 6010D
Mercury		0.13 J	0.20	0.095	ug/l	SW846 7470A
JD52684-4A	**SUMP-4-092322**					
Perfluorobutanoic acid [d]		99.0	21	11	ng/l	EPA 537M BY ID
Perfluorohexanoic acid [d]		15.6	11	5.3	ng/l	EPA 537M BY ID
Perfluoroheptanoic acid [d]		17.1	11	5.3	ng/l	EPA 537M BY ID
Perfluorooctanoic acid [d]		52.3	2.1	1.1	ng/l	EPA 537M BY ID
Perfluorooctanesulfonic acid [d]		21.2	11	5.3	ng/l	EPA 537M BY ID
JD52684-5	**SUMP-4-FD-092322**					
Chlorobenzene [e]		46.8	1.0	0.56	ug/l	SW846 8260D
1,2-Dichlorobenzene [e]		0.60 J	1.0	0.53	ug/l	SW846 8260D
1,4-Dichlorobenzene [e]		1.1	1.0	0.51	ug/l	SW846 8260D
1,4-Dioxane		18.4	0.95	0.63	ug/l	SW846 8270E
Arsenic		12.0	3.0	2.8	ug/l	SW846 6010D
Chromium		2.3 J	10	2.0	ug/l	SW846 6010D
Iron		36800	100	32	ug/l	SW846 6010D
Manganese		179	15	1.4	ug/l	SW846 6010D
Mercury		0.14 J	0.20	0.095	ug/l	SW846 7470A
JD52684-5A	**SUMP-4-FD-092322**					
Perfluorobutanoic acid [b]		96.7	21	10	ng/l	EPA 537M BY ID
Perfluorohexanoic acid [b]		15.3	10	5.2	ng/l	EPA 537M BY ID
Perfluoroheptanoic acid [b]		15.5	10	5.2	ng/l	EPA 537M BY ID
Perfluorooctanoic acid [b]		47.9	10	5.2	ng/l	EPA 537M BY ID
Perfluorooctanesulfonic acid [b]		18.7	10	5.2	ng/l	EPA 537M BY ID
JD52684-6	**SUMP-COMP-092322**					
1,4-Dioxane		20.7	0.95	0.63	ug/l	SW846 8270E
Arsenic		117	3.0	2.8	ug/l	SW846 6010D
Chromium		84.9	10	2.0	ug/l	SW846 6010D

Summary of Hits

Job Number: JD52684
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/23/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Iron		70600	100	32	ug/l	SW846 6010D
Lead		19.2	3.0	1.8	ug/l	SW846 6010D
Manganese		617	15	1.4	ug/l	SW846 6010D
Mercury		0.19 J	0.20	0.095	ug/l	SW846 7470A
JD52684-6A	**SUMP-COMP-092322**					
Perfluorobutanoic acid [b]		774	24	12	ng/l	EPA 537M BY ID
Perfluoropentanoic acid [b]		65.2	12	6.1	ng/l	EPA 537M BY ID
Perfluorohexanoic acid [b]		31.4	12	6.1	ng/l	EPA 537M BY ID
Perfluoroheptanoic acid [b]		35.9	12	6.1	ng/l	EPA 537M BY ID
Perfluorooctanoic acid [b]		141	12	6.1	ng/l	EPA 537M BY ID
Perfluorooctanesulfonic acid [b]		39.9	12	6.1	ng/l	EPA 537M BY ID
6:2 Fluorotelomer sulfonate [f]		5.4 J	9.8	2.4	ng/l	EPA 537M BY ID
JD52684-7	**MW-2-092322**					
Iron		65.7 J	100	32	ug/l	SW846 6010D
Manganese		48.0	15	1.4	ug/l	SW846 6010D
Mercury		0.11 J	0.20	0.095	ug/l	SW846 7470A
JD52684-7A	**MW-2-092322**					
Perfluorobutanoic acid [d]		8.7	3.8	1.9	ng/l	EPA 537M BY ID
Perfluoropentanoic acid [d]		3.0	1.9	0.94	ng/l	EPA 537M BY ID
Perfluorohexanoic acid [d]		2.5	1.9	0.94	ng/l	EPA 537M BY ID
Perfluoroheptanoic acid [d]		1.7 J	1.9	0.94	ng/l	EPA 537M BY ID
Perfluorooctanoic acid [d]		5.6	1.9	0.94	ng/l	EPA 537M BY ID
Perfluorononanoic acid [d]		1.1 J	1.9	0.94	ng/l	EPA 537M BY ID
Perfluorobutanesulfonic acid [d]		2.0	1.9	0.94	ng/l	EPA 537M BY ID
Perfluorohexanesulfonic acid [d]		1.8 J	1.9	0.94	ng/l	EPA 537M BY ID
Perfluorooctanesulfonic acid [d]		5.3	1.9	0.94	ng/l	EPA 537M BY ID
JD52684-8	**TRIP BLANK-092322**					
No hits reported in this sample.						
JD52684-9	**TRIP BLANK-2-092322**					
No hits reported in this sample.						

(a) (pH= 5)Sample pH did not satisfy field preservation criteria.
(b) Dilution required (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
(c) (pH= 6)Sample pH did not satisfy field preservation criteria.
(d) Analysis performed at SGS Orlando, FL.

Summary of Hits

Job Number: JD52684
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/23/22

Lab Sample ID	Client Sample ID	Result/				
Analyte		Qual	RL	MDL	Units	Method

(e) (pH= 3)Sample pH did not satisfy field preservation criteria.
(f) Analysis performed at SGS Orlando, FL. Associated ID Standard outside control limits.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SUMP-1-092322		
Lab Sample ID:	JD52684-1	**Date Sampled:**	09/23/22
Matrix:	AQ - Ground Water	**Date Received:**	09/27/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	4D121806.D	1	10/02/22 03:04	TS	n/a	n/a	V4D5410
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	6.4	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	
108-90-7	Chlorobenzene	109	1.0	0.56	ug/l	
95-50-1	1,2-Dichlorobenzene	0.92	1.0	0.53	ug/l	J
106-46-7	1,4-Dichlorobenzene	1.6	1.0	0.51	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		80-120%
17060-07-0	1,2-Dichloroethane-D4	99%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

(a) (pH= 5)Sample pH did not satisfy field preservation criteria.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SUMP-1-092322		
Lab Sample ID:	JD52684-1A	**Date Sampled:**	09/23/22
Matrix:	AQ - Ground Water	**Date Received:**	09/27/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2Q100742.D	1	10/21/22 21:14	AFL	10/06/22 09:57	F:OP93368	F:S2Q1406
Run #2 [b]	2Q100995.D	5	10/25/22 16:16	AFL	10/06/22 09:57	F:OP93368	F:S2Q1409

	Initial Volume	Final Volume
Run #1	225 ml	1.0 ml
Run #2	225 ml	1.0 ml

PFAS List

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	1160 [c]	22	11	ng/l	
2706-90-3	Perfluoropentanoic acid	41.7 [c]	11	5.6	ng/l	
307-24-4	Perfluorohexanoic acid	43.5 [c]	11	5.6	ng/l	
375-85-9	Perfluoroheptanoic acid	57.6 [c]	11	5.6	ng/l	
335-67-1	Perfluorooctanoic acid	251 [c]	11	5.6	ng/l	
375-95-1	Perfluorononanoic acid	ND [c]	11	5.6	ng/l	
335-76-2	Perfluorodecanoic acid	ND [c]	11	5.6	ng/l	
2058-94-8	Perfluoroundecanoic acid	ND [c]	11	5.6	ng/l	
307-55-1	Perfluorododecanoic acid	ND [c]	11	5.6	ng/l	
72629-94-8	Perfluorotridecanoic acid	ND [c]	11	5.6	ng/l	
376-06-7	Perfluorotetradecanoic acid [d]	ND [c]	11	5.6	ng/l	
PERFLUOROALKYLSULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	ND [c]	11	5.6	ng/l	
355-46-4	Perfluorohexanesulfonic acid	ND [c]	11	5.6	ng/l	
375-92-8	Perfluoroheptanesulfonic acid	ND [c]	11	5.6	ng/l	
1763-23-1	Perfluorooctanesulfonic acid	54.8 [c]	11	5.6	ng/l	
335-77-3	Perfluorodecanesulfonic acid	ND [c]	11	5.6	ng/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA [d]	ND [c]	22	11	ng/l	
PERFLUOROOCTANESULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND [c]	22	11	ng/l	
2991-50-6	EtFOSAA	ND [c]	22	11	ng/l	
FLUOROTELOMER SULFONATES						
27619-97-2	6:2 Fluorotelomer sulfonate	ND [c]	44	11	ng/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND [c]	44	11	ng/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SUMP-1-092322		
Lab Sample ID:	JD52684-1A	**Date Sampled:**	09/23/22
Matrix:	AQ - Ground Water	**Date Received:**	09/27/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

PFAS List

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	22% [e]	35%	35-135%
	13C5-PFPeA	23% [e]	52%	50-150%
	13C5-PFHxA	25% [e]	52%	50-150%
	13C4-PFHpA	29% [e]	54%	50-150%
	13C8-PFOA	32% [e]	64%	50-150%
	13C9-PFNA	38% [e]	57%	50-150%
	13C6-PFDA	46% [e]	61%	50-150%
	13C7-PFUnDA	49% [d]	65%	40-140%
	13C2-PFDoDA	38% [e]	48%	40-140%
	13C2-PFTeDA	29% [e]	15% [e]	30-130%
	13C3-PFBS	31% [e]	57%	50-150%
	13C3-PFHxS	40% [e]	64%	50-150%
	13C8-PFOS	35% [e]	52%	50-150%
	13C8-FOSA	2% [e]	9% [e]	30-130%
	d3-MeFOSAA	39% [e]	66%	40-140%
	d5-EtFOSAA	30% [e]	61%	40-140%
	13C2-6:2FTS	39% [e]	68%	50-150%
	13C2-8:2FTS	48% [e]	58%	50-150%

(a) Analysis performed at SGS Orlando, FL.
(b) Dilution required (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
(c) Result is from Run# 2
(d) Associated ID Standard outside control limits.
(e) Outside control limits.

Report of Analysis

Client Sample ID:	SUMP-2-092322		
Lab Sample ID:	JD52684-2	**Date Sampled:**	09/23/22
Matrix:	AQ - Ground Water	**Date Received:**	09/27/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	4D121807.D	1	10/02/22 03:33	TS	n/a	n/a	V4D5410
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	6.2	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	
108-90-7	Chlorobenzene	110	1.0	0.56	ug/l	
95-50-1	1,2-Dichlorobenzene	0.96	1.0	0.53	ug/l	J
106-46-7	1,4-Dichlorobenzene	1.7	1.0	0.51	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-120%
17060-07-0	1,2-Dichloroethane-D4	98%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

(a) (pH= 6)Sample pH did not satisfy field preservation criteria.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SUMP-2-092322
Lab Sample ID: JD52684-2A
Matrix: AQ - Ground Water
Method: EPA 537M BY ID EPA 537 MOD
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Date Sampled: 09/23/22
Date Received: 09/27/22
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2Q100745.D	1	10/21/22 22:04	AFL	10/06/22 09:57	F:OP93368	F:S2Q1406
Run #2 [a]	2Q100996.D	5	10/25/22 16:33	AFL	10/06/22 09:57	F:OP93368	F:S2Q1409
Run #3 [a]	2Q101029.D	20	10/26/22 15:43	AFL	10/06/22 09:57	F:OP93368	F:S2Q1410

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2	250 ml	1.0 ml
Run #3	250 ml	1.0 ml

PFAS List

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	1150 [b]	80	40	ng/l	
2706-90-3	Perfluoropentanoic acid	ND [c]	10	5.0	ng/l	
307-24-4	Perfluorohexanoic acid	38.6 [c]	10	5.0	ng/l	
375-85-9	Perfluoroheptanoic acid	41.0 [c]	10	5.0	ng/l	
335-67-1	Perfluorooctanoic acid	222 [c]	10	5.0	ng/l	
375-95-1	Perfluorononanoic acid [d]	ND	2.0	1.0	ng/l	
335-76-2	Perfluorodecanoic acid	ND	2.0	1.0	ng/l	
2058-94-8	Perfluoroundecanoic acid	ND	2.0	1.0	ng/l	
307-55-1	Perfluorododecanoic acid	ND	2.0	1.0	ng/l	
72629-94-8	Perfluorotridecanoic acid	ND	2.0	1.0	ng/l	
376-06-7	Perfluorotetradecanoic acid	ND	2.0	1.0	ng/l	
PERFLUOROALKYLSULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid [d]	ND	2.0	1.0	ng/l	
355-46-4	Perfluorohexanesulfonic acid	ND [c]	10	5.0	ng/l	
375-92-8	Perfluoroheptanesulfonic acid	ND [c]	10	5.0	ng/l	
1763-23-1	Perfluorooctanesulfonic acid	47.2 [c]	10	5.0	ng/l	
335-77-3	Perfluorodecanesulfonic acid	ND	2.0	1.0	ng/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA [d]	ND [c]	20	10	ng/l	
PERFLUOROOCTANESULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND [c]	20	10	ng/l	
2991-50-6	EtFOSAA	ND [c]	20	10	ng/l	
FLUOROTELOMER SULFONATES						
27619-97-2	6:2 Fluorotelomer sulfonate	ND [c]	40	10	ng/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	8.0	2.0	ng/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SUMP-2-092322		
Lab Sample ID:	JD52684-2A	**Date Sampled:**	09/23/22
Matrix:	AQ - Ground Water	**Date Received:**	09/27/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

PFAS List

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Run# 3	Limits
	13C4-PFBA	13% [e]	29% [e]	37%	35-135%
	13C5-PFPeA	22% [e]	64%	87%	50-150%
	13C5-PFHxA	25% [e]	66%	85%	50-150%
	13C4-PFHpA	29% [e]	72%	89%	50-150%
	13C8-PFOA	36% [e]	83%	99%	50-150%
	13C9-PFNA	43% [e]	77%	87%	50-150%
	13C6-PFDA	54%	79%	85%	50-150%
	13C7-PFUnDA	59%	72%	66%	40-140%
	13C2-PFDoDA	54%	37% [e]	28% [e]	40-140%
	13C2-PFTeDA	48%	8% [e]	7% [e]	30-130%
	13C3-PFBS	34% [e]	74%	90%	50-150%
	13C3-PFHxS	44% [e]	84%	98%	50-150%
	13C8-PFOS	41% [e]	65%	76%	50-150%
	13C8-FOSA	2% [e]	5% [e]	6% [e]	30-130%
	d3-MeFOSAA	20% [e]	84%	88%	40-140%
	d5-EtFOSAA	26% [e]	75%	71%	40-140%
	13C2-6:2FTS	46% [e]	88%	103%	50-150%
	13C2-8:2FTS	56%	75%	78%	50-150%

(a) Analysis performed at SGS Orlando, FL.
(b) Result is from Run# 3
(c) Result is from Run# 2
(d) Associated ID Standard outside control limits.
(e) Outside control limits.

Report of Analysis

Client Sample ID:	SUMP-3-092322		
Lab Sample ID:	JD52684-3	**Date Sampled:**	09/23/22
Matrix:	AQ - Ground Water	**Date Received:**	09/27/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	4D121808.D	1	10/02/22 04:02	TS	n/a	n/a	V4D5410
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.98	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	
108-90-7	Chlorobenzene	16.9	1.0	0.56	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		80-120%
17060-07-0	1,2-Dichloroethane-D4	96%		80-120%
2037-26-5	Toluene-D8	103%		80-120%
460-00-4	4-Bromofluorobenzene	99%		82-114%

(a) (pH= 3)Sample pH did not satisfy field preservation criteria.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SUMP-3-092322		
Lab Sample ID:	JD52684-3A	**Date Sampled:**	09/23/22
Matrix:	AQ - Ground Water	**Date Received:**	09/27/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2Q100746.D	1	10/21/22 22:20	AFL	10/06/22 09:57	F:OP93368	F:S2Q1406
Run #2 [b]	2Q100997.D	5	10/25/22 16:49	AFL	10/06/22 09:57	F:OP93368	F:S2Q1409

	Initial Volume	Final Volume
Run #1	235 ml	1.0 ml
Run #2	235 ml	1.0 ml

PFAS List

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	152 [c]	21	11	ng/l	
2706-90-3	Perfluoropentanoic acid	57.1 [c]	11	5.3	ng/l	
307-24-4	Perfluorohexanoic acid	22.3 [c]	11	5.3	ng/l	
375-85-9	Perfluoroheptanoic acid	20.5 [c]	11	5.3	ng/l	
335-67-1	Perfluorooctanoic acid	52.5	2.1	1.1	ng/l	
375-95-1	Perfluorononanoic acid	ND	2.1	1.1	ng/l	
335-76-2	Perfluorodecanoic acid	ND	2.1	1.1	ng/l	
2058-94-8	Perfluoroundecanoic acid	ND	2.1	1.1	ng/l	
307-55-1	Perfluorododecanoic acid	ND	2.1	1.1	ng/l	
72629-94-8	Perfluorotridecanoic acid	ND	2.1	1.1	ng/l	
376-06-7	Perfluorotetradecanoic acid	ND	2.1	1.1	ng/l	
PERFLUOROALKYLSULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	ND [c]	11	5.3	ng/l	
355-46-4	Perfluorohexanesulfonic acid	ND	2.1	1.1	ng/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	2.1	1.1	ng/l	
1763-23-1	Perfluorooctanesulfonic acid	22.7 [c]	11	5.3	ng/l	
335-77-3	Perfluorodecanesulfonic acid	ND	2.1	1.1	ng/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA [d]	ND	4.3	2.1	ng/l	
PERFLUOROOCTANESULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	4.3	2.1	ng/l	
2991-50-6	EtFOSAA	ND	4.3	2.1	ng/l	
FLUOROTELOMER SULFONATES						
27619-97-2	6:2 Fluorotelomer sulfonate	ND	8.5	2.1	ng/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	8.5	2.1	ng/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SUMP-3-092322		
Lab Sample ID:	JD52684-3A	**Date Sampled:**	09/23/22
Matrix:	AQ - Ground Water	**Date Received:**	09/27/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

PFAS List

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	21% e	43%	35-135%
	13C5-PFPeA	29% e	62%	50-150%
	13C5-PFHxA	32% e	65%	50-150%
	13C4-PFHpA	40% e	71%	50-150%
	13C8-PFOA	51%	81%	50-150%
	13C9-PFNA	52%	74%	50-150%
	13C6-PFDA	55%	71%	50-150%
	13C7-PFUnDA	51%	66%	40-140%
	13C2-PFDoDA	43%	51%	40-140%
	13C2-PFTeDA	40%	40%	30-130%
	13C3-PFBS	38% e	67%	50-150%
	13C3-PFHxS	52%	83%	50-150%
	13C8-PFOS	47% e	67%	50-150%
	13C8-FOSA	11% e	24% e	30-130%
	d3-MeFOSAA	64%	68%	40-140%
	d5-EtFOSAA	55%	61%	40-140%
	13C2-6:2FTS	56%	88%	50-150%
	13C2-8:2FTS	57%	67%	50-150%

(a) Analysis performed at SGS Orlando, FL.
(b) Dilution required (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
(c) Result is from Run# 2
(d) Associated ID Standard outside control limits. Confirmed by re-analysis.
(e) Outside control limits.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SUMP-4-092322		
Lab Sample ID:	JD52684-4	**Date Sampled:**	09/23/22
Matrix:	AQ - Ground Water	**Date Received:**	09/27/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	4D121802.D	1	10/02/22 01:08	TS	n/a	n/a	V4D5410
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	
108-90-7	Chlorobenzene	46.0	1.0	0.56	ug/l	
95-50-1	1,2-Dichlorobenzene	0.61	1.0	0.53	ug/l	J
106-46-7	1,4-Dichlorobenzene	1.1	1.0	0.51	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		80-120%
17060-07-0	1,2-Dichloroethane-D4	97%		80-120%
2037-26-5	Toluene-D8	103%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

(a) (pH= 3)Sample pH did not satisfy field preservation criteria.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SUMP-4-092322		
Lab Sample ID:	JD52684-4	**Date Sampled:**	09/23/22
Matrix:	AQ - Ground Water	**Date Received:**	09/27/22
Method:	SW846 8270E SW846 3510C	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6P506497.D	1	10/01/22 13:54	KLS	09/30/22 11:55	OP42162	E6P3730
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-47-8	4-Chloroaniline	ND	4.8	0.32	ug/l	
123-91-1	1,4-Dioxane	15.7	0.95	0.63	ug/l	
91-20-3	Naphthalene	ND	0.95	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	77%		28-118%
321-60-8	2-Fluorobiphenyl	82%		34-116%
1718-51-0	Terphenyl-d14	38%		10-127%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SUMP-4-092322
Lab Sample ID: JD52684-4 **Date Sampled:** 09/23/22
Matrix: AQ - Ground Water **Date Received:** 09/27/22
Method: SW846 8270E BY SIM SW846 3510C **Percent Solids:** n/a
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M111469.D	1	10/01/22 03:22	CS	09/30/22 11:55	OP42162A	E4M5194
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	77%		23-127%
321-60-8	2-Fluorobiphenyl	65%		23-114%
1718-51-0	Terphenyl-d14	33%		10-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SUMP-4-092322
Lab Sample ID: JD52684-4
Matrix: AQ - Ground Water
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Date Sampled: 09/23/22
Date Received: 09/27/22
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	ND	6.0	4.7	ug/l	1	10/02/22	10/05/22	ND	SW846 6010D [2]	SW846 3010A [4]
Arsenic	10.9	3.0	2.8	ug/l	1	10/07/22	10/07/22	MET	SW846 6010D [3]	SW846 3010A [4]
Cadmium	ND	3.0	1.0	ug/l	1	10/02/22	10/05/22	ND	SW846 6010D [2]	SW846 3010A [4]
Chromium	2.4 J	10	2.0	ug/l	1	10/02/22	10/05/22	ND	SW846 6010D [2]	SW846 3010A [4]
Iron	36400	100	32	ug/l	1	10/02/22	10/05/22	ND	SW846 6010D [2]	SW846 3010A [4]
Lead	ND	3.0	1.8	ug/l	1	10/02/22	10/05/22	ND	SW846 6010D [2]	SW846 3010A [4]
Manganese	183	15	1.4	ug/l	1	10/02/22	10/05/22	ND	SW846 6010D [2]	SW846 3010A [4]
Mercury	0.13 J	0.20	0.095	ug/l	1	10/03/22	10/03/22	LM	SW846 7470A [1]	SW846 7470A [5]

(1) Instrument QC Batch: MA53076
(2) Instrument QC Batch: MA53094
(3) Instrument QC Batch: MA53114
(4) Prep QC Batch: MP35442
(5) Prep QC Batch: MP35466

RL = Reporting Limit
MDL = Method Detection Limit
ND = Not detected
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: SUMP-4-092322
Lab Sample ID: JD52684-4A
Matrix: AQ - Ground Water
Method: EPA 537M BY ID EPA 537 MOD
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Date Sampled: 09/23/22
Date Received: 09/27/22
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2Q100747.D	1	10/21/22 22:37	AFL	10/06/22 09:57	F:OP93368	F:S2Q1406
Run #2 [a]	2Q100998.D	5	10/25/22 17:06	AFL	10/06/22 09:57	F:OP93368	F:S2Q1409

	Initial Volume	Final Volume
Run #1	235 ml	1.0 ml
Run #2	235 ml	1.0 ml

PFAS List

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	99.0 [b]	21	11	ng/l	
2706-90-3	Perfluoropentanoic acid	ND [b]	11	5.3	ng/l	
307-24-4	Perfluorohexanoic acid	15.6 [b]	11	5.3	ng/l	
375-85-9	Perfluoroheptanoic acid	17.1 [b]	11	5.3	ng/l	
335-67-1	Perfluorooctanoic acid	52.3	2.1	1.1	ng/l	
375-95-1	Perfluorononanoic acid	ND	2.1	1.1	ng/l	
335-76-2	Perfluorodecanoic acid	ND	2.1	1.1	ng/l	
2058-94-8	Perfluoroundecanoic acid	ND	2.1	1.1	ng/l	
307-55-1	Perfluorododecanoic acid	ND	2.1	1.1	ng/l	
72629-94-8	Perfluorotridecanoic acid	ND	2.1	1.1	ng/l	
376-06-7	Perfluorotetradecanoic acid	ND	2.1	1.1	ng/l	
PERFLUOROALKYLSULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	ND [b]	11	5.3	ng/l	
355-46-4	Perfluorohexanesulfonic acid	ND	2.1	1.1	ng/l	
375-92-8	Perfluoroheptanesulfonic acid	ND [b]	11	5.3	ng/l	
1763-23-1	Perfluorooctanesulfonic acid	21.2 [b]	11	5.3	ng/l	
335-77-3	Perfluorodecanesulfonic acid	ND	2.1	1.1	ng/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA [c]	ND [b]	21	11	ng/l	
PERFLUOROOCTANESULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	4.3	2.1	ng/l	
2991-50-6	EtFOSAA	ND	4.3	2.1	ng/l	
FLUOROTELOMER SULFONATES						
27619-97-2	6:2 Fluorotelomer sulfonate	ND	8.5	2.1	ng/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	8.5	2.1	ng/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SUMP-4-092322		
Lab Sample ID:	JD52684-4A	**Date Sampled:**	09/23/22
Matrix:	AQ - Ground Water	**Date Received:**	09/27/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

PFAS List

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	36%	58%	35-135%
	13C5-PFPeA	36% d	58%	50-150%
	13C5-PFHxA	39% d	58%	50-150%
	13C4-PFHpA	46% d	63%	50-150%
	13C8-PFOA	53%	72%	50-150%
	13C9-PFNA	50%	64%	50-150%
	13C6-PFDA	50%	64%	50-150%
	13C7-PFUnDA	49%	67%	40-140%
	13C2-PFDoDA	40%	62%	40-140%
	13C2-PFTeDA	34%	53%	30-130%
	13C3-PFBS	41% d	60%	50-150%
	13C3-PFHxS	50%	63%	50-150%
	13C8-PFOS	42% d	59%	50-150%
	13C8-FOSA	5% d	12% d	30-130%
	d3-MeFOSAA	59%	63%	40-140%
	d5-EtFOSAA	51%	63%	40-140%
	13C2-6:2FTS	58%	72%	50-150%
	13C2-8:2FTS	51%	59%	50-150%

(a) Analysis performed at SGS Orlando, FL.
(b) Result is from Run# 2
(c) Associated ID Standard outside control limits.
(d) Outside control limits.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SUMP-4-FD-092322		
Lab Sample ID:	JD52684-5	**Date Sampled:**	09/23/22
Matrix:	AQ - Ground Water	**Date Received:**	09/27/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	4D121809.D	1	10/02/22 04:31	TS	n/a	n/a	V4D5410
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	
108-90-7	Chlorobenzene	46.8	1.0	0.56	ug/l	
95-50-1	1,2-Dichlorobenzene	0.60	1.0	0.53	ug/l	J
106-46-7	1,4-Dichlorobenzene	1.1	1.0	0.51	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		80-120%
17060-07-0	1,2-Dichloroethane-D4	97%		80-120%
2037-26-5	Toluene-D8	104%		80-120%
460-00-4	4-Bromofluorobenzene	100%		82-114%

(a) (pH= 3)Sample pH did not satisfy field preservation criteria.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SUMP-4-FD-092322
Lab Sample ID: JD52684-5 **Date Sampled:** 09/23/22
Matrix: AQ - Ground Water **Date Received:** 09/27/22
Method: SW846 8270E SW846 3510C **Percent Solids:** n/a
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6P506498.D	1	10/01/22 14:17	KLS	09/30/22 11:55	OP42162	E6P3730
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-47-8	4-Chloroaniline	ND	4.8	0.32	ug/l	
123-91-1	1,4-Dioxane	18.4	0.95	0.63	ug/l	
91-20-3	Naphthalene	ND	0.95	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%		28-118%
321-60-8	2-Fluorobiphenyl	74%		34-116%
1718-51-0	Terphenyl-d14	21%		10-127%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SUMP-4-FD-092322		
Lab Sample ID:	JD52684-5	**Date Sampled:**	09/23/22
Matrix:	AQ - Ground Water	**Date Received:**	09/27/22
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M111470.D	1	10/01/22 03:44	CS	09/30/22 11:55	OP42162A	E4M5194
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%		23-127%
321-60-8	2-Fluorobiphenyl	63%		23-114%
1718-51-0	Terphenyl-d14	19%		10-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SUMP-4-FD-092322
Lab Sample ID: JD52684-5
Matrix: AQ - Ground Water
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Date Sampled: 09/23/22
Date Received: 09/27/22
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	ND	6.0	4.7	ug/l	1	10/02/22	10/05/22	ND	SW846 6010D [2]	SW846 3010A [4]
Arsenic	12.0	3.0	2.8	ug/l	1	10/07/22	10/07/22	MET	SW846 6010D [3]	SW846 3010A [4]
Cadmium	ND	3.0	1.0	ug/l	1	10/02/22	10/05/22	ND	SW846 6010D [2]	SW846 3010A [4]
Chromium	2.3 J	10	2.0	ug/l	1	10/02/22	10/05/22	ND	SW846 6010D [2]	SW846 3010A [4]
Iron	36800	100	32	ug/l	1	10/02/22	10/05/22	ND	SW846 6010D [2]	SW846 3010A [4]
Lead	ND	3.0	1.8	ug/l	1	10/02/22	10/05/22	ND	SW846 6010D [2]	SW846 3010A [4]
Manganese	179	15	1.4	ug/l	1	10/02/22	10/05/22	ND	SW846 6010D [2]	SW846 3010A [4]
Mercury	0.14 J	0.20	0.095	ug/l	1	10/03/22	10/03/22	LM	SW846 7470A [1]	SW846 7470A [5]

(1) Instrument QC Batch: MA53076
(2) Instrument QC Batch: MA53094
(3) Instrument QC Batch: MA53114
(4) Prep QC Batch: MP35442
(5) Prep QC Batch: MP35466

RL = Reporting Limit
MDL = Method Detection Limit
ND = Not detected
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: SUMP-4-FD-092322
Lab Sample ID: JD52684-5A
Matrix: AQ - Ground Water
Method: EPA 537M BY ID EPA 537 MOD
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Date Sampled: 09/23/22
Date Received: 09/27/22
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2Q100750.D	1	10/21/22 23:27	AFL	10/06/22 09:57	F:OP93368	F:S2Q1406
Run #2 [b]	2Q101001.D	5	10/25/22 17:56	AFL	10/06/22 09:57	F:OP93368	F:S2Q1409

	Initial Volume	Final Volume
Run #1	240 ml	1.0 ml
Run #2	240 ml	1.0 ml

PFAS List

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	96.7 [c]	21	10	ng/l	
2706-90-3	Perfluoropentanoic acid	ND [c]	10	5.2	ng/l	
307-24-4	Perfluorohexanoic acid	15.3 [c]	10	5.2	ng/l	
375-85-9	Perfluoroheptanoic acid	15.5 [c]	10	5.2	ng/l	
335-67-1	Perfluorooctanoic acid	47.9 [c]	10	5.2	ng/l	
375-95-1	Perfluorononanoic acid [d]	ND	2.1	1.0	ng/l	
335-76-2	Perfluorodecanoic acid	ND [c]	10	5.2	ng/l	
2058-94-8	Perfluoroundecanoic acid	ND	2.1	1.0	ng/l	
307-55-1	Perfluorododecanoic acid	ND [c]	10	5.2	ng/l	
72629-94-8	Perfluorotridecanoic acid	ND [c]	10	5.2	ng/l	
376-06-7	Perfluorotetradecanoic acid	ND	2.1	1.0	ng/l	
PERFLUOROALKYLSULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	ND [c]	10	5.2	ng/l	
355-46-4	Perfluorohexanesulfonic acid [d]	ND	2.1	1.0	ng/l	
375-92-8	Perfluoroheptanesulfonic acid	ND [c]	10	5.2	ng/l	
1763-23-1	Perfluorooctanesulfonic acid	18.7 [c]	10	5.2	ng/l	
335-77-3	Perfluorodecanesulfonic acid	ND	2.1	1.0	ng/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA [d]	ND [c]	21	10	ng/l	
PERFLUOROOCTANESULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	4.2	2.1	ng/l	
2991-50-6	EtFOSAA	ND	4.2	2.1	ng/l	
FLUOROTELOMER SULFONATES						
27619-97-2	6:2 Fluorotelomer sulfonate	ND	8.3	2.1	ng/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND [c]	42	10	ng/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SUMP-4-FD-092322		
Lab Sample ID:	JD52684-5A	**Date Sampled:**	09/23/22
Matrix:	AQ - Ground Water	**Date Received:**	09/27/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

PFAS List

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	34% e	61%	35-135%
	13C5-PFPeA	33% e	60%	50-150%
	13C5-PFHxA	36% e	62%	50-150%
	13C4-PFHpA	41% e	66%	50-150%
	13C8-PFOA	47% e	74%	50-150%
	13C9-PFNA	43% e	66%	50-150%
	13C6-PFDA	44% e	65%	50-150%
	13C7-PFUnDA	41%	65%	40-140%
	13C2-PFDoDA	36% e	54%	40-140%
	13C2-PFTeDA	36%	45%	30-130%
	13C3-PFBS	38% e	62%	50-150%
	13C3-PFHxS	45% e	69%	50-150%
	13C8-PFOS	34% e	60%	50-150%
	13C8-FOSA	7% e	16% e	30-130%
	d3-MeFOSAA	52%	66%	40-140%
	d5-EtFOSAA	43%	59%	40-140%
	13C2-6:2FTS	51%	76%	50-150%
	13C2-8:2FTS	45% e	59%	50-150%

(a) Analysis performed at SGS Orlando, FL.
(b) Dilution required (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
(c) Result is from Run# 2
(d) Associated ID Standard outside control limits.
(e) Outside control limits.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SUMP-COMP-092322		
Lab Sample ID:	JD52684-6	**Date Sampled:**	09/23/22
Matrix:	AQ - Ground Water	**Date Received:**	09/27/22
Method:	SW846 8270E SW846 3510C	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6P506499.D	1	10/01/22 14:41	KLS	09/30/22 11:55	OP42162	E6P3730
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-47-8	4-Chloroaniline	ND	4.8	0.32	ug/l	
123-91-1	1,4-Dioxane	20.7	0.95	0.63	ug/l	
91-20-3	Naphthalene	ND	0.95	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	78%		28-118%
321-60-8	2-Fluorobiphenyl	74%		34-116%
1718-51-0	Terphenyl-d14	39%		10-127%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SUMP-COMP-092322		
Lab Sample ID:	JD52684-6	**Date Sampled:**	09/23/22
Matrix:	AQ - Ground Water	**Date Received:**	09/27/22
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M111471.D	1	10/01/22 04:05	CS	09/30/22 11:55	OP42162A	E4M5194
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%		23-127%
321-60-8	2-Fluorobiphenyl	65%		23-114%
1718-51-0	Terphenyl-d14	32%		10-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SUMP-COMP-092322
Lab Sample ID: JD52684-6
Matrix: AQ - Ground Water
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Date Sampled: 09/23/22
Date Received: 09/27/22
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	ND	6.0	4.7	ug/l	1	10/02/22	10/05/22	ND	SW846 6010D [2]	SW846 3010A [4]
Arsenic	117	3.0	2.8	ug/l	1	10/07/22	10/07/22	MET	SW846 6010D [3]	SW846 3010A [4]
Cadmium	ND	3.0	1.0	ug/l	1	10/02/22	10/05/22	ND	SW846 6010D [2]	SW846 3010A [4]
Chromium	84.9	10	2.0	ug/l	1	10/02/22	10/05/22	ND	SW846 6010D [2]	SW846 3010A [4]
Iron	70600	100	32	ug/l	1	10/02/22	10/05/22	ND	SW846 6010D [2]	SW846 3010A [4]
Lead	19.2	3.0	1.8	ug/l	1	10/02/22	10/05/22	ND	SW846 6010D [2]	SW846 3010A [4]
Manganese	617	15	1.4	ug/l	1	10/02/22	10/05/22	ND	SW846 6010D [2]	SW846 3010A [4]
Mercury	0.19 J	0.20	0.095	ug/l	1	10/03/22	10/03/22	LM	SW846 7470A [1]	SW846 7470A [5]

(1) Instrument QC Batch: MA53076
(2) Instrument QC Batch: MA53094
(3) Instrument QC Batch: MA53114
(4) Prep QC Batch: MP35442
(5) Prep QC Batch: MP35466

RL = Reporting Limit
MDL = Method Detection Limit
ND = Not detected
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	SUMP-COMP-092322		
Lab Sample ID:	JD52684-6A	**Date Sampled:**	09/23/22
Matrix:	AQ - Ground Water	**Date Received:**	09/27/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2Q100751.D	1	10/21/22 23:43	AFL	10/06/22 09:57	F:OP93368	F:S2Q1406
Run #2 [b]	2Q101002.D	5	10/25/22 18:12	AFL	10/06/22 09:57	F:OP93368	F:S2Q1409

	Initial Volume	Final Volume
Run #1	205 ml	1.0 ml
Run #2	205 ml	1.0 ml

PFAS List

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	774 [c]	24	12	ng/l	
2706-90-3	Perfluoropentanoic acid	65.2 [c]	12	6.1	ng/l	
307-24-4	Perfluorohexanoic acid	31.4 [c]	12	6.1	ng/l	
375-85-9	Perfluoroheptanoic acid	35.9 [c]	12	6.1	ng/l	
335-67-1	Perfluorooctanoic acid	141 [c]	12	6.1	ng/l	
375-95-1	Perfluorononanoic acid	ND [c]	12	6.1	ng/l	
335-76-2	Perfluorodecanoic acid	ND	2.4	1.2	ng/l	
2058-94-8	Perfluoroundecanoic acid	ND	2.4	1.2	ng/l	
307-55-1	Perfluorododecanoic acid	ND	2.4	1.2	ng/l	
72629-94-8	Perfluorotridecanoic acid	ND	2.4	1.2	ng/l	
376-06-7	Perfluorotetradecanoic acid	ND	2.4	1.2	ng/l	
PERFLUOROALKYLSULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	ND [c]	12	6.1	ng/l	
355-46-4	Perfluorohexanesulfonic acid	ND [c]	12	6.1	ng/l	
375-92-8	Perfluoroheptanesulfonic acid	ND [c]	12	6.1	ng/l	
1763-23-1	Perfluorooctanesulfonic acid	39.9 [c]	12	6.1	ng/l	
335-77-3	Perfluorodecanesulfonic acid	ND	2.4	1.2	ng/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA [d]	ND	4.9	2.4	ng/l	
PERFLUOROOCTANESULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	4.9	2.4	ng/l	
2991-50-6	EtFOSAA	ND	4.9	2.4	ng/l	
FLUOROTELOMER SULFONATES						
27619-97-2	6:2 Fluorotelomer sulfonate [e]	5.4	9.8	2.4	ng/l	J
39108-34-4	8:2 Fluorotelomer sulfonate	ND	9.8	2.4	ng/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SUMP-COMP-092322		
Lab Sample ID:	JD52684-6A	**Date Sampled:**	09/23/22
Matrix:	AQ - Ground Water	**Date Received:**	09/27/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

PFAS List

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	23% [f]	46%	35-135%
	13C5-PFPeA	29% [f]	66%	50-150%
	13C5-PFHxA	32% [f]	67%	50-150%
	13C4-PFHpA	38% [f]	71%	50-150%
	13C8-PFOA	44% [f]	83%	50-150%
	13C9-PFNA	49% [f]	73%	50-150%
	13C6-PFDA	52%	75%	50-150%
	13C7-PFUnDA	51%	71%	40-140%
	13C2-PFDoDA	45%	62%	40-140%
	13C2-PFTeDA	44%	52%	30-130%
	13C3-PFBS	0% [f]	73%	50-150%
	13C3-PFHxS	49% [f]	81%	50-150%
	13C8-PFOS	41% [f]	63%	50-150%
	13C8-FOSA	6% [f]	20% [f]	30-130%
	d3-MeFOSAA	57%	74%	40-140%
	d5-EtFOSAA	40%	68%	40-140%
	13C2-6:2FTS	48% [f]	89%	50-150%
	13C2-8:2FTS	55%	69%	50-150%

(a) Analysis performed at SGS Orlando, FL.
(b) Dilution required (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
(c) Result is from Run# 2
(d) Associated ID Standard outside control limits. Confirmed by re-analysis.
(e) Associated ID Standard outside control limits.
(f) Outside control limits.

Report of Analysis

Client Sample ID:	MW-2-092322		
Lab Sample ID:	JD52684-7	**Date Sampled:**	09/23/22
Matrix:	AQ - Ground Water	**Date Received:**	09/27/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D121810.D	1	10/02/22 05:00	TS	n/a	n/a	V4D5410
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		80-120%
17060-07-0	1,2-Dichloroethane-D4	98%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-2-092322
Lab Sample ID: JD52684-7 **Date Sampled:** 09/23/22
Matrix: AQ - Ground Water **Date Received:** 09/27/22
Method: SW846 8270E SW846 3510C **Percent Solids:** n/a
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6P506500.D	1	10/01/22 15:04	KLS	09/30/22 11:55	OP42162	E6P3730
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-47-8	4-Chloroaniline	ND	4.8	0.32	ug/l	
91-20-3	Naphthalene	ND	0.95	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	70%		28-118%
321-60-8	2-Fluorobiphenyl	70%		34-116%
1718-51-0	Terphenyl-d14	85%		10-127%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-2-092322
Lab Sample ID: JD52684-7 **Date Sampled:** 09/23/22
Matrix: AQ - Ground Water **Date Received:** 09/27/22
Method: SW846 8270E BY SIM SW846 3510C **Percent Solids:** n/a
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M111472.D	1	10/01/22 04:27	CS	09/30/22 11:55	OP42162A	E4M5194
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.095	0.048	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	70%		23-127%
321-60-8	2-Fluorobiphenyl	59%		23-114%
1718-51-0	Terphenyl-d14	68%		10-121%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-2-092322
Lab Sample ID: JD52684-7
Matrix: AQ - Ground Water
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Date Sampled: 09/23/22
Date Received: 09/27/22
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	ND	6.0	4.7	ug/l	1	10/02/22	10/05/22	ND	SW846 6010D [2]	SW846 3010A [4]
Arsenic	ND	3.0	2.8	ug/l	1	10/07/22	10/07/22	MET	SW846 6010D [3]	SW846 3010A [4]
Cadmium	ND	3.0	1.0	ug/l	1	10/02/22	10/05/22	ND	SW846 6010D [2]	SW846 3010A [4]
Chromium	ND	10	2.0	ug/l	1	10/02/22	10/05/22	ND	SW846 6010D [2]	SW846 3010A [4]
Iron	65.7 J	100	32	ug/l	1	10/02/22	10/05/22	ND	SW846 6010D [2]	SW846 3010A [4]
Lead	ND	3.0	1.8	ug/l	1	10/02/22	10/05/22	ND	SW846 6010D [2]	SW846 3010A [4]
Manganese	48.0	15	1.4	ug/l	1	10/02/22	10/05/22	ND	SW846 6010D [2]	SW846 3010A [4]
Mercury	0.11 J	0.20	0.095	ug/l	1	10/03/22	10/03/22	LM	SW846 7470A [1]	SW846 7470A [5]

(1) Instrument QC Batch: MA53076
(2) Instrument QC Batch: MA53094
(3) Instrument QC Batch: MA53114
(4) Prep QC Batch: MP35442
(5) Prep QC Batch: MP35466

RL = Reporting Limit
MDL = Method Detection Limit
ND = Not detected
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-2-092322		
Lab Sample ID:	JD52684-7A	**Date Sampled:**	09/23/22
Matrix:	AQ - Ground Water	**Date Received:**	09/27/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2Q101030.D	1	10/26/22 15:59	AFL	10/06/22 09:57	F:OP93368	F:S2Q1410
Run #2							

	Initial Volume	Final Volume
Run #1	265 ml	1.0 ml
Run #2		

PFAS List

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	8.7	3.8	1.9	ng/l	
2706-90-3	Perfluoropentanoic acid	3.0	1.9	0.94	ng/l	
307-24-4	Perfluorohexanoic acid	2.5	1.9	0.94	ng/l	
375-85-9	Perfluoroheptanoic acid	1.7	1.9	0.94	ng/l	J
335-67-1	Perfluorooctanoic acid	5.6	1.9	0.94	ng/l	
375-95-1	Perfluorononanoic acid	1.1	1.9	0.94	ng/l	J
335-76-2	Perfluorodecanoic acid	ND	1.9	0.94	ng/l	
2058-94-8	Perfluoroundecanoic acid	ND	1.9	0.94	ng/l	
307-55-1	Perfluorododecanoic acid	ND	1.9	0.94	ng/l	
72629-94-8	Perfluorotridecanoic acid	ND	1.9	0.94	ng/l	
376-06-7	Perfluorotetradecanoic acid	ND	1.9	0.94	ng/l	
PERFLUOROALKYLSULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	2.0	1.9	0.94	ng/l	
355-46-4	Perfluorohexanesulfonic acid	1.8	1.9	0.94	ng/l	J
375-92-8	Perfluoroheptanesulfonic acid	ND	1.9	0.94	ng/l	
1763-23-1	Perfluorooctanesulfonic acid	5.3	1.9	0.94	ng/l	
335-77-3	Perfluorodecanesulfonic acid	ND	1.9	0.94	ng/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA	ND	3.8	1.9	ng/l	
PERFLUOROOCTANESULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	3.8	1.9	ng/l	
2991-50-6	EtFOSAA	ND	3.8	1.9	ng/l	
FLUOROTELOMER SULFONATES						
27619-97-2	6:2 Fluorotelomer sulfonate	ND	7.5	1.9	ng/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	7.5	1.9	ng/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2-092322		
Lab Sample ID:	JD52684-7A	**Date Sampled:**	09/23/22
Matrix:	AQ - Ground Water	**Date Received:**	09/27/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

PFAS List

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	63%		35-135%
	13C5-PFPeA	63%		50-150%
	13C5-PFHxA	61%		50-150%
	13C4-PFHpA	66%		50-150%
	13C8-PFOA	71%		50-150%
	13C9-PFNA	62%		50-150%
	13C6-PFDA	64%		50-150%
	13C7-PFUnDA	66%		40-140%
	13C2-PFDoDA	59%		40-140%
	13C2-PFTeDA	54%		30-130%
	13C3-PFBS	61%		50-150%
	13C3-PFHxS	64%		50-150%
	13C8-PFOS	56%		50-150%
	13C8-FOSA	31%		30-130%
	d3-MeFOSAA	67%		40-140%
	d5-EtFOSAA	65%		40-140%
	13C2-6:2FTS	73%		50-150%
	13C2-8:2FTS	59%		50-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK-092322		
Lab Sample ID:	JD52684-8	**Date Sampled:**	09/23/22
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/27/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D121801.D	1	10/02/22 00:39	TS	n/a	n/a	V4D5410
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		80-120%
17060-07-0	1,2-Dichloroethane-D4	98%		80-120%
2037-26-5	Toluene-D8	103%		80-120%
460-00-4	4-Bromofluorobenzene	99%		82-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK-2-092322		
Lab Sample ID:	JD52684-9	**Date Sampled:**	09/23/22
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/27/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2Q101027.D	1	10/26/22 15:10	AFL	10/06/22 09:57	F:OP93368	F:S2Q1410
Run #2 [b]	2Q101028.D	5	10/26/22 15:26	AFL	10/06/22 09:57	F:OP93368	F:S2Q1410

	Initial Volume	Final Volume
Run #1	270 ml	1.0 ml
Run #2	270 ml	1.0 ml

PFAS List

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	ND	3.7	1.9	ng/l	
2706-90-3	Perfluoropentanoic acid	ND	1.9	0.93	ng/l	
307-24-4	Perfluorohexanoic acid	ND	1.9	0.93	ng/l	
375-85-9	Perfluoroheptanoic acid	ND	1.9	0.93	ng/l	
335-67-1	Perfluorooctanoic acid	ND	1.9	0.93	ng/l	
375-95-1	Perfluorononanoic acid	ND	1.9	0.93	ng/l	
335-76-2	Perfluorodecanoic acid	ND	1.9	0.93	ng/l	
2058-94-8	Perfluoroundecanoic acid	ND	1.9	0.93	ng/l	
307-55-1	Perfluorododecanoic acid	ND [c]	9.3	4.6	ng/l	
72629-94-8	Perfluorotridecanoic acid	ND [c]	9.3	4.6	ng/l	
376-06-7	Perfluorotetradecanoic acid	ND [c]	9.3	4.6	ng/l	
PERFLUOROALKYLSULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	ND	1.9	0.93	ng/l	
355-46-4	Perfluorohexanesulfonic acid	ND	1.9	0.93	ng/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	1.9	0.93	ng/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	1.9	0.93	ng/l	
335-77-3	Perfluorodecanesulfonic acid	ND	1.9	0.93	ng/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA	ND [c]	19	9.3	ng/l	
PERFLUOROOCTANESULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	3.7	1.9	ng/l	
2991-50-6	EtFOSAA	ND	3.7	1.9	ng/l	
FLUOROTELOMER SULFONATES						
27619-97-2	6:2 Fluorotelomer sulfonate	ND	7.4	1.9	ng/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	7.4	1.9	ng/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK-2-092322		
Lab Sample ID:	JD52684-9	**Date Sampled:**	09/23/22
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/27/22
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

PFAS List

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	80%	82%	35-135%
	13C5-PFPeA	80%	82%	50-150%
	13C5-PFHxA	80%	82%	50-150%
	13C4-PFHpA	81%	85%	50-150%
	13C8-PFOA	79%	86%	50-150%
	13C9-PFNA	74%	82%	50-150%
	13C6-PFDA	66%	78%	50-150%
	13C7-PFUnDA	56%	76%	40-140%
	13C2-PFDoDA	39% [d]	61%	40-140%
	13C2-PFTeDA	18% [d]	41%	30-130%
	13C3-PFBS	78%	83%	50-150%
	13C3-PFHxS	74%	80%	50-150%
	13C8-PFOS	67%	77%	50-150%
	13C8-FOSA	26% [d]	33%	30-130%
	d3-MeFOSAA	57%	70%	40-140%
	d5-EtFOSAA	51%	64%	40-140%
	13C2-6:2FTS	81%	84%	50-150%
	13C2-8:2FTS	58%	69%	50-150%

(a) Analysis performed at SGS Orlando, FL.
(b) Dilution required (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
(c) Result is from Run# 2
(d) Outside control limits.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- QC Evaluation: Honeywell Limits

GW
TB

Fedex: 5272 0644 0260

SGS Laboratories
2235 Route 130
Dayton, NJ 08810
(p) 732-239-0200

Chain Of Custody/Analysis Request
Project Name: Buffalo Alltift Landfill - ANNUAL
Lab Project Name: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

AESI Ref: 38609.59845
COC #: 092322 -Alltift
Lab Use Only
Lab_SDG
Lab ID

Privileged & Confidential
EDD To: Ryan Belcher (ryan.belcher@woodplc.com)
Sampler: Benjamin Hardy
Sampling Company: Jacobs
PO #: A0008804776
Analysis Turnaround Time:
Standard -
Rush Charges Authorized for -
Date Needed Time Required
STANDARD

Facility Name: Alltift Landfill
Location of Site: Buffalo, NY
Site Code: 30130

Client Contact: (name, co., address)
Sasa Jazic
Honeywell International
301 Plainfield Road, Suite 330
Syracuse, New York 13212
Sasa.Jazic@Honeywell.com
Hardcopy Report To: Do Not Send Hardcopy Unless Requested
Invoice To:

Job No: JD52684
# of Coolers: 3

| Sample Identification | | |

SGS Sample Receipt Summary

Job Number: JD52684 **Client:** HONEYWELL **Project:** BUFFALO ALLTIFT LANDFILL

Date / Time Received: 9/27/2022 9:56:00 AM **Delivery Method:** Fed Ex **Airbill #'s:** 5272 0644 0260

Cooler Temps (Raw Measured) °C: Cooler 1: (1.5); Cooler 2: (2.2); Cooler 3: (3.0);

Cooler Temps (Corrected) °C: Cooler 1: (2.1); Cooler 2: (2.8); Cooler 3: (3.6);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	3		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

QC Evaluation: Honeywell Limits

Job Number: JD52684
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/23/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V4D5410	SW846 8260D						
V4D5410-BS	71-43-2	Benzene	BSP	REC	90	%	70-130
V4D5410-BS	108-90-7	Chlorobenzene	BSP	REC	95	%	70-130
V4D5410-BS	95-50-1	1,2-Dichlorobenzene	BSP	REC	98	%	70-130
V4D5410-BS	106-46-7	1,4-Dichlorobenzene	BSP	REC	89	%	70-130
V4D5410-BS	100-41-4	Ethylbenzene	BSP	REC	91	%	70-130
V4D5410-BS	1330-20-7	Xylene (total)	BSP	REC	92	%	70-130
V4D5410-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	105	%	70-130
V4D5410-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	95	%	70-130
V4D5410-BS	2037-26-5	Toluene-D8	BSP	SURR	100	%	70-130
V4D5410-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	97	%	70-130
JD52684-4MS	71-43-2	Benzene	MS	REC	93	%	70-130
JD52684-4MS	108-90-7	Chlorobenzene	MS	REC	97	%	70-130
JD52684-4MS	95-50-1	1,2-Dichlorobenzene	MS	REC	100	%	70-130
JD52684-4MS	106-46-7	1,4-Dichlorobenzene	MS	REC	92	%	70-130
JD52684-4MS	100-41-4	Ethylbenzene	MS	REC	95	%	70-130
JD52684-4MS	1330-20-7	Xylene (total)	MS	REC	96	%	70-130
JD52684-4MS	1868-53-7	Dibromofluoromethane	MS	SURR	106	%	70-130
JD52684-4MS	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	92	%	70-130
JD52684-4MS	2037-26-5	Toluene-D8	MS	SURR	103	%	70-130
JD52684-4MS	460-00-4	4-Bromofluorobenzene	MS	SURR	98	%	70-130
JD52684-4MSD	71-43-2	Benzene	MSD	REC	97	%	70-130
JD52684-4MSD	71-43-2	Benzene	MSD	RPD	4	%	30
JD52684-4MSD	108-90-7	Chlorobenzene	MSD	REC	99	%	70-130
JD52684-4MSD	108-90-7	Chlorobenzene	MSD	RPD	1	%	30
JD52684-4MSD	95-50-1	1,2-Dichlorobenzene	MSD	REC	106	%	70-130
JD52684-4MSD	95-50-1	1,2-Dichlorobenzene	MSD	RPD	6	%	30
JD52684-4MSD	106-46-7	1,4-Dichlorobenzene	MSD	REC	98	%	70-130
JD52684-4MSD	106-46-7	1,4-Dichlorobenzene	MSD	RPD	7	%	30
JD52684-4MSD	100-41-4	Ethylbenzene	MSD	REC	99	%	70-130
JD52684-4MSD	100-41-4	Ethylbenzene	MSD	RPD	4	%	30
JD52684-4MSD	1330-20-7	Xylene (total)	MSD	REC	100	%	70-130
JD52684-4MSD	1330-20-7	Xylene (total)	MSD	RPD	4	%	30
JD52684-4MSD	1868-53-7	Dibromofluoromethane	MSD	SURR	105	%	70-130
JD52684-4MSD	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	92	%	70-130
JD52684-4MSD	2037-26-5	Toluene-D8	MSD	SURR	102	%	70-130
JD52684-4MSD	460-00-4	4-Bromofluorobenzene	MSD	SURR	100	%	70-130
V4D5410-MB	1868-53-7	Dibromofluoromethane	MB	SURR	106	%	70-130
V4D5410-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	98	%	70-130
V4D5410-MB	2037-26-5	Toluene-D8	MB	SURR	103	%	70-130
V4D5410-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	98	%	70-130
JD52684-1	1868-53-7	Dibromofluoromethane	SAMP	SURR	105	%	70-130
JD52684-1	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	99	%	70-130

* Sample used for QC is not from job JD52684

QC Evaluation: Honeywell Limits

Job Number: JD52684
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/23/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD52684-1	2037-26-5	Toluene-D8	SAMP	SURR	102	%	70-130
JD52684-1	460-00-4	4-Bromofluorobenzene	SAMP	SURR	98	%	70-130
JD52684-2	1868-53-7	Dibromofluoromethane	SAMP	SURR	104	%	70-130
JD52684-2	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	98	%	70-130
JD52684-2	2037-26-5	Toluene-D8	SAMP	SURR	102	%	70-130
JD52684-2	460-00-4	4-Bromofluorobenzene	SAMP	SURR	98	%	70-130
JD52684-3	1868-53-7	Dibromofluoromethane	SAMP	SURR	105	%	70-130
JD52684-3	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	96	%	70-130
JD52684-3	2037-26-5	Toluene-D8	SAMP	SURR	103	%	70-130
JD52684-3	460-00-4	4-Bromofluorobenzene	SAMP	SURR	99	%	70-130
JD52684-4	1868-53-7	Dibromofluoromethane	SAMP	SURR	106	%	70-130
JD52684-4	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	97	%	70-130
JD52684-4	2037-26-5	Toluene-D8	SAMP	SURR	103	%	70-130
JD52684-4	460-00-4	4-Bromofluorobenzene	SAMP	SURR	98	%	70-130
JD52684-5	1868-53-7	Dibromofluoromethane	SAMP	SURR	105	%	70-130
JD52684-5	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	97	%	70-130
JD52684-5	2037-26-5	Toluene-D8	SAMP	SURR	104	%	70-130
JD52684-5	460-00-4	4-Bromofluorobenzene	SAMP	SURR	100	%	70-130
JD52684-7	1868-53-7	Dibromofluoromethane	SAMP	SURR	106	%	70-130
JD52684-7	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	98	%	70-130
JD52684-7	2037-26-5	Toluene-D8	SAMP	SURR	102	%	70-130
JD52684-7	460-00-4	4-Bromofluorobenzene	SAMP	SURR	98	%	70-130
JD52684-8	1868-53-7	Dibromofluoromethane	SAMP	SURR	106	%	70-130
JD52684-8	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	98	%	70-130
JD52684-8	2037-26-5	Toluene-D8	SAMP	SURR	103	%	70-130
JD52684-8	460-00-4	4-Bromofluorobenzene	SAMP	SURR	99	%	70-130
OP42162	SW846 8270E						
OP42162-BS1	106-47-8	4-Chloroaniline	BSP	REC	72	%	40-140
OP42162-BS1	123-91-1	1,4-Dioxane	BSP	REC	46	%	40-140
OP42162-BS1	91-20-3	Naphthalene	BSP	REC	76	%	40-140
OP42162-BS1	4165-60-0	Nitrobenzene-d5	BSP	SURR	81	%	30-130
OP42162-BS1	321-60-8	2-Fluorobiphenyl	BSP	SURR	82	%	30-130
OP42162-BS1	1718-51-0	Terphenyl-d14	BSP	SURR	87	%	30-130
OP42162-BSD	106-47-8	4-Chloroaniline	BSD	REC	62	%	40-140
OP42162-BSD	106-47-8	4-Chloroaniline	BSD	RPD	14	%	20
OP42162-BSD	123-91-1	1,4-Dioxane	BSD	REC	49	%	40-140
OP42162-BSD	123-91-1	1,4-Dioxane	BSD	RPD	7	%	20
OP42162-BSD	91-20-3	Naphthalene	BSD	REC	85	%	40-140
OP42162-BSD	91-20-3	Naphthalene	BSD	RPD	11	%	20
OP42162-BSD	4165-60-0	Nitrobenzene-d5	BSD	SURR	88	%	30-130
OP42162-BSD	321-60-8	2-Fluorobiphenyl	BSD	SURR	91	%	30-130
OP42162-BSD	1718-51-0	Terphenyl-d14	BSD	SURR	95	%	30-130
OP42162-MS	106-47-8	4-Chloroaniline	MS	REC	57	%	40-140

* Sample used for QC is not from job JD52684

QC Evaluation: Honeywell Limits

Job Number: JD52684
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/23/22

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP42162-MS	123-91-1	1,4-Dioxane	MS	REC	37	%	40-140
OP42162-MS	91-20-3	Naphthalene	MS	REC	64	%	40-140
OP42162-MS	4165-60-0	Nitrobenzene-d5	MS	SURR	71	%	30-130
OP42162-MS	321-60-8	2-Fluorobiphenyl	MS	SURR	76	%	30-130
OP42162-MS	1718-51-0	Terphenyl-d14	MS	SURR	40	%	30-130
OP42162-MSD	106-47-8	4-Chloroaniline	MSD	REC	64	%	40-140
OP42162-MSD	106-47-8	4-Chloroaniline	MSD	RPD	12	%	20
OP42162-MSD	123-91-1	1,4-Dioxane	MSD	REC	41	%	40-140
OP42162-MSD	123-91-1	1,4-Dioxane	MSD	RPD	5	%	20
OP42162-MSD	91-20-3	Naphthalene	MSD	REC	69	%	40-140
OP42162-MSD	91-20-3	Naphthalene	MSD	RPD	8	%	20
OP42162-MSD	4165-60-0	Nitrobenzene-d5	MSD	SURR	79	%	30-130
OP42162-MSD	321-60-8	2-Fluorobiphenyl	MSD	SURR	80	%	30-130
OP42162-MSD	1718-51-0	Terphenyl-d14	MSD	SURR	48	%	30-130
OP42162-MB1	4165-60-0	Nitrobenzene-d5	MB	SURR	75	%	30-130
OP42162-MB1	321-60-8	2-Fluorobiphenyl	MB	SURR	80	%	30-130
OP42162-MB1	1718-51-0	Terphenyl-d14	MB	SURR	96	%	30-130
JD52684-4	4165-60-0	Nitrobenzene-d5	SAMP	SURR	77	%	30-130
JD52684-4	321-60-8	2-Fluorobiphenyl	SAMP	SURR	82	%	30-130
JD52684-4	1718-51-0	Terphenyl-d14	SAMP	SURR	38	%	30-130
JD52684-5	4165-60-0	Nitrobenzene-d5	SAMP	SURR	76	%	30-130
JD52684-5	321-60-8	2-Fluorobiphenyl	SAMP	SURR	74	%	30-130
JD52684-5	1718-51-0	Terphenyl-d14	SAMP	SURR	21	%	30-130
JD52684-6	4165-60-0	Nitrobenzene-d5	SAMP	SURR	78	%	30-130
JD52684-6	321-60-8	2-Fluorobiphenyl	SAMP	SURR	74	%	30-130
JD52684-6	1718-51-0	Terphenyl-d14	SAMP	SURR	39	%	30-130
JD52684-7	4165-60-0	Nitrobenzene-d5	SAMP	SURR	70	%	30-130
JD52684-7	321-60-8	2-Fluorobiphenyl	SAMP	SURR	70	%	30-130
JD52684-7	1718-51-0	Terphenyl-d14	SAMP	SURR	85	%	30-130

* Sample used for QC is not from job JD52684

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD52684
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D5410-MB	4D121800.D	1	10/02/22	TS	n/a	n/a	V4D5410

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD52684-1, JD52684-2, JD52684-3, JD52684-4, JD52684-5, JD52684-7, JD52684-8

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	106%	80-120%
17060-07-0	1,2-Dichloroethane-D4	98%	80-120%
2037-26-5	Toluene-D8	103%	80-120%
460-00-4	4-Bromofluorobenzene	98%	82-114%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: JD52684
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D5410-BS	4D121798.D	1	10/01/22	TS	n/a	n/a	V4D5410

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD52684-1, JD52684-2, JD52684-3, JD52684-4, JD52684-5, JD52684-7, JD52684-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	45.1	90	80-115
108-90-7	Chlorobenzene	50	47.5	95	80-115
95-50-1	1,2-Dichlorobenzene	50	48.9	98	81-117
106-46-7	1,4-Dichlorobenzene	50	44.6	89	80-114
100-41-4	Ethylbenzene	50	45.7	91	78-116
1330-20-7	Xylene (total)	150	138	92	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	105%	80-120%
17060-07-0	1,2-Dichloroethane-D4	95%	80-120%
2037-26-5	Toluene-D8	100%	80-120%
460-00-4	4-Bromofluorobenzene	97%	82-114%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD52684
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD52684-4MS [a]	4D121803.D	1	10/02/22	TS	n/a	n/a	V4D5410
JD52684-4MSD [a]	4D121804.D	1	10/02/22	TS	n/a	n/a	V4D5410
JD52684-4 [a]	4D121802.D	1	10/02/22	TS	n/a	n/a	V4D5410

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD52684-1, JD52684-2, JD52684-3, JD52684-4, JD52684-5, JD52684-7, JD52684-8

CAS No.	Compound	JD52684-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		50	46.6	93	50	48.7	97	4	49-137/12
108-90-7	Chlorobenzene	46.0		50	94.4	97	50	95.4	99	1	68-123/12
95-50-1	1,2-Dichlorobenzene	0.61	J	50	50.7	100	50	53.6	106	6	74-119/12
106-46-7	1,4-Dichlorobenzene	1.1		50	46.9	92	50	50.1	98	7	72-117/12
100-41-4	Ethylbenzene	ND		50	47.4	95	50	49.5	99	4	37-144/12
1330-20-7	Xylene (total)	ND		150	144	96	150	150	100	4	38-147/12

CAS No.	Surrogate Recoveries	MS	MSD	JD52684-4	Limits
1868-53-7	Dibromofluoromethane	106%	105%	106%	80-120%
17060-07-0	1,2-Dichloroethane-D4	92%	92%	97%	80-120%
2037-26-5	Toluene-D8	103%	102%	103%	80-120%
460-00-4	4-Bromofluorobenzene	98%	100%	98%	82-114%

(a) (pH= 3)Sample pH did not satisfy field preservation criteria.

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JD52684
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: V4D5341-BFB
Lab File ID: 4D120247.D
Instrument ID: GCMS4D
Injection Date: 08/13/22
Injection Time: 19:58

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	14.99 - 40.0% of mass 95	56496	20.6		Pass
75	30.0 - 60.0% of mass 95	141485	51.6		Pass
95	Base peak, 100% relative abundance	274069	100.0		Pass
96	5.0 - 9.0% of mass 95	18675	6.81		Pass
173	Less than 2.0% of mass 174	2724	0.99	(1.06) [a]	Pass
174	50.0 - 120.0% of mass 95	256363	93.5		Pass
175	5.0 - 9.0% of mass 174	18765	6.85	(7.32) [a]	Pass
176	95.0 - 101.0% of mass 174	245909	89.7	(95.9) [a]	Pass
177	5.0 - 9.0% of mass 176	16181	5.90	(6.58) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V4D5341-IC5341	4D120248.D	08/13/22	20:38	00:40	Initial cal 0.2
V4D5341-IC5341	4D120249.D	08/13/22	21:06	01:08	Initial cal 0.5
V4D5341-IC5341	4D120250.D	08/13/22	21:35	01:37	Initial cal 1
V4D5341-IC5341	4D120251.D	08/13/22	22:03	02:05	Initial cal 2
V4D5341-IC5341	4D120252.D	08/13/22	22:31	02:33	Initial cal 4
V4D5341-IC5341	4D120253.D	08/13/22	23:00	03:02	Initial cal 8
V4D5341-IC5341	4D120254.D	08/13/22	23:28	03:30	Initial cal 20
V4D5341-ICC5341	4D120255.D	08/13/22	23:56	03:58	Initial cal 50
V4D5341-IC5341	4D120256.D	08/14/22	00:25	04:27	Initial cal 100
V4D5341-IC5341	4D120257.D	08/14/22	00:53	04:55	Initial cal 200
V4D5341-ICV5341	4D120260.D	08/14/22	02:18	06:20	Initial cal verification 50
V4D5341-ICV5341	4D120261.D	08/14/22	02:46	06:48	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JD52684
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: V4D5410-BFB
Lab File ID: 4D121796.D
Instrument ID: GCMS4D
Injection Date: 10/01/22
Injection Time: 22:15

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	14.99 - 40.0% of mass 95	58677	20.0		Pass
75	30.0 - 60.0% of mass 95	132861	45.3		Pass
95	Base peak, 100% relative abundance	293205	100.0		Pass
96	5.0 - 9.0% of mass 95	19681	6.71		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	271680	92.7		Pass
175	5.0 - 9.0% of mass 174	21723	7.41	(8.00) [a]	Pass
176	95.0 - 101.0% of mass 174	265749	90.6	(97.8) [a]	Pass
177	5.0 - 9.0% of mass 176	17394	5.93	(6.55) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V4D5410-CC5341	4D121796.D	10/01/22	22:15	00:00	Continuing cal 50
V4D5410-BS	4D121798.D	10/01/22	23:13	00:58	Blank Spike
V4D5410-MB	4D121800.D	10/02/22	00:10	01:55	Method Blank
JD52684-8	4D121801.D	10/02/22	00:39	02:24	TRIP BLANK-092322
JD52684-4	4D121802.D	10/02/22	01:08	02:53	SUMP-4-092322
JD52684-4MS	4D121803.D	10/02/22	01:37	03:22	Matrix Spike
JD52684-4MSD	4D121804.D	10/02/22	02:06	03:51	Matrix Spike Duplicate
JD52684-1	4D121806.D	10/02/22	03:04	04:49	SUMP-1-092322
JD52684-2	4D121807.D	10/02/22	03:33	05:18	SUMP-2-092322
JD52684-3	4D121808.D	10/02/22	04:02	05:47	SUMP-3-092322
JD52684-5	4D121809.D	10/02/22	04:31	06:16	SUMP-4-FD-092322
JD52684-7	4D121810.D	10/02/22	05:00	06:45	MW-2-092322
ZZZZZZ	4D121811.D	10/02/22	05:29	07:14	(unrelated sample)

Surrogate Recovery Summary

Job Number: JD52684
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Method: SW846 8260D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JD52684-1	4D121806.D	105	99	102	98
JD52684-2	4D121807.D	104	98	102	98
JD52684-3	4D121808.D	105	96	103	99
JD52684-4	4D121802.D	106	97	103	98
JD52684-5	4D121809.D	105	97	104	100
JD52684-7	4D121810.D	106	98	102	98
JD52684-8	4D121801.D	106	98	103	99
JD52684-4MS	4D121803.D	106	92	103	98
JD52684-4MSD	4D121804.D	105	92	102	100
V4D5410-BS	4D121798.D	105	95	100	97
V4D5410-MB	4D121800.D	106	98	103	98

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	80-120%
S2 = 1,2-Dichloroethane-D4	80-120%
S3 = Toluene-D8	80-120%
S4 = 4-Bromofluorobenzene	82-114%

MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Isotope Dilution Standard/Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD52684
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42162-MB1	6P506493.D	1	10/01/22	KLS	09/30/22	OP42162	E6P3730

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD52684-4, JD52684-5, JD52684-6, JD52684-7

CAS No.	Compound	Result	RL	MDL	Units	Q
106-47-8	4-Chloroaniline	ND	5.0	0.34	ug/l	
123-91-1	1,4-Dioxane	ND	1.0	0.66	ug/l	
91-20-3	Naphthalene	ND	1.0	0.23	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	45%	10-71%
4165-62-2	Phenol-d5	26%	10-58%
118-79-6	2,4,6-Tribromophenol	84%	22-144%
4165-60-0	Nitrobenzene-d5	75%	28-118%
321-60-8	2-Fluorobiphenyl	80%	34-116%
1718-51-0	Terphenyl-d14	96%	10-127%

Method Blank Summary

Job Number: JD52684
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42162A-MB1	4M111462.D	1	10/01/22	CS	09/30/22	OP42162A	E4M5194

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD52684-4, JD52684-5, JD52684-6, JD52684-7

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	74%	23-127%
321-60-8	2-Fluorobiphenyl	63%	23-114%
1718-51-0	Terphenyl-d14	78%	10-121%

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD52684
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42162-BS1	6P506494.D	1	10/01/22	KLS	09/30/22	OP42162	E6P3730
OP42162-BSD	6P506495.D	1	10/01/22	KLS	09/30/22	OP42162	E6P3730

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD52684-4, JD52684-5, JD52684-6, JD52684-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
106-47-8	4-Chloroaniline	50	35.8	72	31.2	62	14	10-100/92
123-91-1	1,4-Dioxane	50	22.8	46	24.5	49	7	10-88/49
91-20-3	Naphthalene	50	37.9	76	42.4	85	11	37-112/39

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	52%	50%	10-71%
4165-62-2	Phenol-d5	35%	33%	10-58%
118-79-6	2,4,6-Tribromophenol	86%	94%	22-144%
4165-60-0	Nitrobenzene-d5	81%	88%	28-118%
321-60-8	2-Fluorobiphenyl	82%	91%	34-116%
1718-51-0	Terphenyl-d14	87%	95%	10-127%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD52684
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42162A-BS12	4M111465.D	1	10/01/22	CS	09/30/22	OP42162A	E4M5194
OP42162A-BSD12	4M111466.D	1	10/01/22	CS	09/30/22	OP42162A	E4M5194

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD52684-4, JD52684-5, JD52684-6, JD52684-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	1	0.369	37	0.352	35	5	10-70/67

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
4165-60-0	Nitrobenzene-d5	69%	65%	23-127%
321-60-8	2-Fluorobiphenyl	57%	53%	23-114%
1718-51-0	Terphenyl-d14	71%	73%	10-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD52684
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42162-MS	6P506508.D	1	10/01/22	KLS	09/30/22	OP42162	E6P3730
OP42162-MSD	6P506509.D	1	10/01/22	KLS	09/30/22	OP42162	E6P3730
JD52684-4	6P506497.D	1	10/01/22	KLS	09/30/22	OP42162	E6P3730

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD52684-4, JD52684-5, JD52684-6, JD52684-7

CAS No.	Compound	JD52684-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
106-47-8	4-Chloroaniline	ND		47.6	27.0	57	47.6	30.4	64	12	10-114/90
123-91-1	1,4-Dioxane	15.7		47.6	33.5	37	47.6	35.1	41	5	10-141/50
91-20-3	Naphthalene	ND		47.6	30.3	64	47.6	32.9	69	8	10-158/50

CAS No.	Surrogate Recoveries	MS	MSD	JD52684-4	Limits
367-12-4	2-Fluorophenol	33%	31%		10-71%
4165-62-2	Phenol-d5	22%	23%		10-58%
118-79-6	2,4,6-Tribromophenol	75%	83%		22-144%
4165-60-0	Nitrobenzene-d5	71%	79%	77%	28-118%
321-60-8	2-Fluorobiphenyl	76%	80%	82%	34-116%
1718-51-0	Terphenyl-d14	40%	48%	38%	10-127%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD52684
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP42162A-MSA	4M111467.D	1	10/01/22	CS	09/30/22	OP42162A	E4M5194
OP42162A-MSDA	4M111468.D	1	10/01/22	CS	09/30/22	OP42162A	E4M5194
JD52684-4	4M111469.D	1	10/01/22	CS	09/30/22	OP42162A	E4M5194

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD52684-4, JD52684-5, JD52684-6, JD52684-7

CAS No.	Compound	JD52684-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	15.3	E	0.952	19.8	472* [a]	0.952	21.6	661* [a]	9	10-94/81

CAS No.	Surrogate Recoveries	MS	MSD	JD52684-4	Limits
4165-60-0	Nitrobenzene-d5	68%	71%	77%	23-127%
321-60-8	2-Fluorobiphenyl	62%	60%	65%	23-114%
1718-51-0	Terphenyl-d14	40%	31%	33%	10-121%

(a) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JD52684
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: E4M5138-DFTPP
Lab File ID: 4M110358.D
Instrument ID: GCMS4M
Injection Date: 08/06/22
Injection Time: 11:43

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	36200	41.0		Pass
68	Less than 2.0% of mass 69	469	0.53	(1.24) [a]	Pass
69	Mass 69 relative abundance	37779	42.8		Pass
70	Less than 2.0% of mass 69	239	0.27	(0.63) [a]	Pass
127	40.0 - 60.0% of mass 198	49419	56.0		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	88197	100.0		Pass
199	5.0 - 9.0% of mass 198	5800	6.58		Pass
275	10.0 - 30.0% of mass 198	23962	27.2		Pass
365	1.0 - 100.0% of mass 198	4450	5.05		Pass
441	Present, but less than mass 443	13937	15.8	(88.2) [b]	Pass
442	40.0 - 100.0% of mass 198	83611	94.8		Pass
443	17.0 - 23.0% of mass 442	15808	17.9	(18.9) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E4M5138-IC5138	4M110362.D	08/06/22	13:04	01:21	Initial cal 5
E4M5138-IC5138	4M110363.D	08/06/22	13:34	01:51	Initial cal 0.05
E4M5138-IC5138	4M110364.D	08/06/22	13:56	02:13	Initial cal 2.5
E4M5138-IC5138	4M110365.D	08/06/22	14:18	02:35	Initial cal 0.1
E4M5138-IC5138	4M110366.D	08/06/22	14:40	02:57	Initial cal 1
E4M5138-IC5138	4M110367.D	08/06/22	15:01	03:18	Initial cal 0.2
E4M5138-ICC5138	4M110368.D	08/06/22	15:25	03:42	Initial cal 0.5
E4M5138-IC5138	4M110369.D	08/06/22	15:47	04:04	Initial cal 0.02
E4M5138-IC5138	4M110370.D	08/06/22	16:10	04:27	Initial cal 0.01
E4M5138-ICV5138	4M110371.D	08/06/22	16:44	05:01	Initial cal verification 1
E4M5138-ICV5138	4M110372.D	08/06/22	17:08	05:25	Initial cal verification 5
E4M5138-ICV5138	4M110373.D	08/06/22	17:53	06:10	Initial cal verification 1

Instrument Performance Check (DFTPP)

Job Number: JD52684
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: E4M5194-DFTPP
Lab File ID: 4M111458.D
Instrument ID: GCMS4M
Injection Date: 09/30/22
Injection Time: 22:58

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	31550	31.3		Pass
68	Less than 2.0% of mass 69	442	0.44	(1.08) [a]	Pass
69	Mass 69 relative abundance	40795	40.5		Pass
70	Less than 2.0% of mass 69	277	0.27	(0.68) [a]	Pass
127	40.0 - 60.0% of mass 198	57195	56.7		Pass
197	Less than 1.0% of mass 198	513	0.51		Pass
198	Base peak, 100% relative abundance	100795	100.0		Pass
199	5.0 - 9.0% of mass 198	6688	6.64		Pass
275	10.0 - 30.0% of mass 198	23726	23.5		Pass
365	1.0 - 100.0% of mass 198	4187	4.15		Pass
441	Present, but less than mass 443	12624	12.5	(87.2) [b]	Pass
442	40.0 - 100.0% of mass 198	78704	78.1		Pass
443	17.0 - 23.0% of mass 442	14477	14.4	(18.4) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E4M5194-CC5138	4M111459.D	09/30/22	23:11	00:13	Continuing cal 1
OP42155A-MB1	4M111461.D	10/01/22	00:29	01:31	Method Blank
OP42162A-MB1	4M111462.D	10/01/22	00:50	01:52	Method Blank
ZZZZZZ	4M111463.D	10/01/22	01:12	02:14	(unrelated sample)
OP42155A-BS12	4M111464.D	10/01/22	01:34	02:36	Blank Spike
OP42162A-BS12	4M111465.D	10/01/22	01:55	02:57	Blank Spike
OP42162A-BSD12	4M111466.D	10/01/22	02:17	03:19	Blank Spike Duplicate
OP42162A-MSA	4M111467.D	10/01/22	02:39	03:41	Matrix Spike
OP42162A-MSDA	4M111468.D	10/01/22	03:00	04:02	Matrix Spike Duplicate
JD52684-4	4M111469.D	10/01/22	03:22	04:24	SUMP-4-092322
JD52684-5	4M111470.D	10/01/22	03:44	04:46	SUMP-4-FD-092322
JD52684-6	4M111471.D	10/01/22	04:05	05:07	SUMP-COMP-092322
JD52684-7	4M111472.D	10/01/22	04:27	05:29	MW-2-092322
ZZZZZZ	4M111473.D	10/01/22	04:48	05:50	(unrelated sample)
ZZZZZZ	4M111474.D	10/01/22	05:10	06:12	(unrelated sample)
ZZZZZZ	4M111475.D	10/01/22	05:32	06:34	(unrelated sample)
ZZZZZZ	4M111476.D	10/01/22	05:54	06:56	(unrelated sample)
ZZZZZZ	4M111477.D	10/01/22	06:15	07:17	(unrelated sample)
ZZZZZZ	4M111478.D	10/01/22	06:37	07:39	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JD52684
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample:	E4M5194-DFTPP	**Injection Date:**	09/30/22
Lab File ID:	4M111458.D	**Injection Time:**	22:58
Instrument ID:	GCMS4M		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
OP42155A-MSA	4M111479.D	10/01/22	06:59	08:01	Matrix Spike
OP42155A-MSDA	4M111480.D	10/01/22	07:20	08:22	Matrix Spike Duplicate
JD52719-1	4M111481.D	10/01/22	07:42	08:44	(used for QC only; not part of job JD52684)

Instrument Performance Check (DFTPP)

Job Number: JD52684
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: E6P3728-DFTPP
Lab File ID: 6P506464.D
Instrument ID: GCMS6P
Injection Date: 09/30/22
Injection Time: 22:01

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	56637	50.3		Pass
68	Less than 2.0% of mass 69	1003	0.89	(1.59) [a]	Pass
69	Mass 69 relative abundance	63166	56.0		Pass
70	Less than 2.0% of mass 69	458	0.41	(0.73) [a]	Pass
127	40.0 - 60.0% of mass 198	63666	56.5		Pass
197	Less than 1.0% of mass 198	700	0.62		Pass
198	Base peak, 100% relative abundance	112709	100.0		Pass
199	5.0 - 9.0% of mass 198	7963	7.07		Pass
275	10.0 - 30.0% of mass 198	33021	29.3		Pass
365	1.0 - 100.0% of mass 198	6000	5.32		Pass
441	Present, but less than mass 443	15327	13.6	(82.3) [b]	Pass
442	40.0 - 100.0% of mass 198	95374	84.6		Pass
443	17.0 - 23.0% of mass 442	18620	16.5	(19.5) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E6P3728-IC3728	6P506465.D	09/30/22	22:24	00:23	Initial cal 100
E6P3728-IC3728	6P506466.D	09/30/22	22:47	00:46	Initial cal 1
E6P3728-IC3728	6P506467.D	09/30/22	23:11	01:10	Initial cal 80
E6P3728-IC3728	6P506468.D	09/30/22	23:34	01:33	Initial cal 2
E6P3728-ICC3728	6P506469.D	09/30/22	23:58	01:57	Initial cal 50
E6P3728-IC3728	6P506470.D	10/01/22	00:21	02:20	Initial cal 5
E6P3728-IC3728	6P506471.D	10/01/22	00:45	02:44	Initial cal 25
E6P3728-IC3728	6P506472.D	10/01/22	01:08	03:07	Initial cal 10
E6P3728-ICV3728	6P506473.D	10/01/22	01:32	03:31	Initial cal verification 50
E6P3728-ICV3728	6P506474.D	10/01/22	01:55	03:54	Initial cal verification 50
E6P3728-ICV3728	6P506475.D	10/01/22	02:19	04:18	Initial cal verification 50
E6P3728-ICV3728	6P506476.D	10/01/22	02:42	04:41	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD52684
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: E6P3729-DFTPP
Lab File ID: 6P506479.D
Instrument ID: GCMS6P
Injection Date: 10/01/22
Injection Time: 03:31

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	54207	48.4		Pass
68	Less than 2.0% of mass 69	1015	0.91	(1.71) [a]	Pass
69	Mass 69 relative abundance	59352	53.0		Pass
70	Less than 2.0% of mass 69	323	0.29	(0.54) [a]	Pass
127	40.0 - 60.0% of mass 198	59186	52.9		Pass
197	Less than 1.0% of mass 198	994	0.89		Pass
198	Base peak, 100% relative abundance	111936	100.0		Pass
199	5.0 - 9.0% of mass 198	7432	6.64		Pass
275	10.0 - 30.0% of mass 198	32536	29.1		Pass
365	1.0 - 100.0% of mass 198	6233	5.57		Pass
441	Present, but less than mass 443	16704	14.9	(85.6) [b]	Pass
442	40.0 - 100.0% of mass 198	108125	96.6		Pass
443	17.0 - 23.0% of mass 442	19523	17.4	(18.1) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E6P3729-IC3729	6P506480.D	10/01/22	03:43	00:12	Initial cal 100
E6P3729-IC3729	6P506481.D	10/01/22	04:06	00:35	Initial cal 80
E6P3729-ICC3729	6P506482.D	10/01/22	04:30	00:59	Initial cal 50
E6P3729-IC3729	6P506483.D	10/01/22	04:53	01:22	Initial cal 25
E6P3729-IC3729	6P506484.D	10/01/22	05:17	01:46	Initial cal 10
E6P3729-IC3729	6P506485.D	10/01/22	05:40	02:09	Initial cal 5
E6P3729-IC3729	6P506486.D	10/01/22	06:04	02:33	Initial cal 2
E6P3729-IC3729	6P506487.D	10/01/22	06:27	02:56	Initial cal 1
E6P3729-ICV3729	6P506488.D	10/01/22	06:51	03:20	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD52684
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: E6P3730-DFTPP
Lab File ID: 6P506490.D
Instrument ID: GCMS6P
Injection Date: 10/01/22
Injection Time: 11:15

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	50480	47.8		Pass
68	Less than 2.0% of mass 69	850	0.81	(1.51) [a]	Pass
69	Mass 69 relative abundance	56451	53.5		Pass
70	Less than 2.0% of mass 69	246	0.23	(0.44) [a]	Pass
127	40.0 - 60.0% of mass 198	56580	53.6		Pass
197	Less than 1.0% of mass 198	187	0.18		Pass
198	Base peak, 100% relative abundance	105571	100.0		Pass
199	5.0 - 9.0% of mass 198	6821	6.46		Pass
275	10.0 - 30.0% of mass 198	31524	29.9		Pass
365	1.0 - 100.0% of mass 198	5922	5.61		Pass
441	Present, but less than mass 443	15940	15.1	(81.7) [b]	Pass
442	40.0 - 100.0% of mass 198	103912	98.4		Pass
443	17.0 - 23.0% of mass 442	19511	18.5	(18.8) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E6P3730-CC3728	6P506491.D	10/01/22	11:28	00:13	Continuing cal 50
E6P3730-CC3729	6P506492.D	10/01/22	11:51	00:36	Continuing cal 50
OP42162-MB1	6P506493.D	10/01/22	12:17	01:02	Method Blank
OP42162B-MB1	6P506493.D	10/01/22	12:17	01:02	Method Blank
OP42162-BS1	6P506494.D	10/01/22	12:40	01:25	Blank Spike
OP42162B-BS1	6P506494.D	10/01/22	12:40	01:25	Blank Spike
OP42162-BSD	6P506495.D	10/01/22	13:07	01:52	Blank Spike Duplicate
OP42162B-BSD	6P506495.D	10/01/22	13:07	01:52	Blank Spike Duplicate
ZZZZZZ	6P506496.D	10/01/22	13:30	02:15	(unrelated sample)
JD52684-4	6P506497.D	10/01/22	13:54	02:39	SUMP-4-092322
JD52684-5	6P506498.D	10/01/22	14:17	03:02	SUMP-4-FD-092322
JD52684-6	6P506499.D	10/01/22	14:41	03:26	SUMP-COMP-092322
JD52684-7	6P506500.D	10/01/22	15:04	03:49	MW-2-092322
ZZZZZZ	6P506501.D	10/01/22	15:28	04:13	(unrelated sample)
ZZZZZZ	6P506502.D	10/01/22	15:51	04:36	(unrelated sample)
ZZZZZZ	6P506503.D	10/01/22	16:15	05:00	(unrelated sample)
ZZZZZZ	6P506504.D	10/01/22	16:39	05:24	(unrelated sample)
ZZZZZZ	6P506505.D	10/01/22	17:02	05:47	(unrelated sample)
ZZZZZZ	6P506506.D	10/01/22	17:26	06:11	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JD52684
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample:	E6P3730-DFTPP	**Injection Date:**	10/01/22
Lab File ID:	6P506490.D	**Injection Time:**	11:15
Instrument ID:	GCMS6P		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	6P506507.D	10/01/22	17:50	06:35	(unrelated sample)
OP42162-MS	6P506508.D	10/01/22	18:13	06:58	Matrix Spike
OP42162-MSD	6P506509.D	10/01/22	18:37	07:22	Matrix Spike Duplicate
ZZZZZZ	6P506510.D	10/01/22	19:00	07:45	(unrelated sample)
ZZZZZZ	6P506511.D	10/01/22	19:24	08:09	(unrelated sample)
ZZZZZZ	6P506512.D	10/01/22	19:47	08:32	(unrelated sample)
ZZZZZZ	6P506513.D	10/01/22	20:11	08:56	(unrelated sample)
ZZZZZZ	6P506514.D	10/01/22	20:34	09:19	(unrelated sample)

Surrogate Recovery Summary

Job Number: JD52684
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Method: SW846 8270E **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
JD52684-4	6P506497.D	77	82	38
JD52684-5	6P506498.D	76	74	21
JD52684-6	6P506499.D	78	74	39
JD52684-7	6P506500.D	70	70	85
OP42162-BS1	6P506494.D	81	82	87
OP42162-BSD	6P506495.D	88	91	95
OP42162-MB1	6P506493.D	75	80	96
OP42162-MS	6P506508.D	71	76	40
OP42162-MSD	6P506509.D	79	80	48

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	28-118%
S2 = 2-Fluorobiphenyl	34-116%
S3 = Terphenyl-d14	10-127%

Surrogate Recovery Summary

Job Number: JD52684
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Method: SW846 8270E BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
JD52684-4	4M111469.D	77	65	33
JD52684-5	4M111470.D	76	63	19
JD52684-6	4M111471.D	76	65	32
JD52684-7	4M111472.D	70	59	68
OP42162A-BS12	4M111465.D	69	57	71
OP42162A-BSD12	4M111466.D	65	53	73
OP42162A-MB1	4M111462.D	74	63	78
OP42162A-MSA	4M111467.D	68	62	40
OP42162A-MSDA	4M111468.D	71	60	31

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	23-127%
S2 = 2-Fluorobiphenyl	23-114%
S3 = Terphenyl-d14	10-121%

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD52684
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35442
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date:				10/02/22		10/02/22		10/07/22	
Metal	RL	IDL	MDL	MB raw	final	MB raw	final	MB raw	final
Aluminum	200	16	150						
Antimony	6.0	1.7	4.7	-0.10	<6.0	-0.60	<6.0		
Arsenic	3.0	2.1	2.8					0.20	<3.0
Barium	200	.4	13						
Beryllium	1.0	.1	.5						
Bismuth	20	2.3	8.6						
Boron	100	1.9	10						
Cadmium	3.0	.3	1	-0.10	<3.0	0.0	<3.0		
Calcium	5000	5.6	99						
Cerium	100								
Chromium	10	.3	2	0.10	<10	0.0	<10		
Cobalt	50	.4	2.6						
Copper	10	.8	5.9						
Iron	100	5.3	32	6.4	<100	9.2	<100		
Lead	3.0	1.1	1.8	0.50	<3.0	0.70	<3.0		
Lithium	50	2.3	7.3						
Magnesium	5000	32	140						
Manganese	15	.1	1.4	0.0	<15	0.10	<15		
Molybdenum	20	.4	3.6						
Nickel	10	.3	1.7						
Phosphorus	50	1.2	18						
Potassium	10000	55	200						
Selenium	10	3.2	4.9						
Silicon	200	1.6	32						
Silver	10	1	6.1						
Sodium	10000	11	570						
Strontium	10	.1	2.7						
Sulfur	50	3	45						
Thallium	10	1.8	1.8						
Tin	10	.8	3.7						
Titanium	10	.4	2.5						
Tungsten	50	2.6	40						
Vanadium	50	.6	1.8						

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD52684
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35442
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date:				10/02/22		10/02/22		10/07/22	
Metal	RL	IDL	MDL	MB raw	final	MB raw	final	MB raw	final
Zinc	20	.1	6.9						
Zirconium	10	.3	4.1						

Associated samples MP35442: JD52684-4, JD52684-5, JD52684-6, JD52684-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD52684
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35442
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 10/07/22

Metal	JD52684-4 Original	MS	Spikelot MPSPK2	% Rec	QC Limits
Aluminum					
Antimony	0.0	2180	2000	109.0	75-125
Arsenic	10.9	1990	2000	99.0	75-125
Barium	anr				
Beryllium					
Bismuth					
Boron					
Cadmium	0.0	2200	2000	110.0	75-125
Cerium					
Chromium	2.4	1970	2000	98.4	75-125
Cobalt					
Copper					
Iron	29900	61400	25000	100.0	75-125
Lead	1.3	2090	2000	104.5	75-125
Lithium					
Magnesium					
Manganese	179	2180	2000	99.9	75-125
Molybdenum					
Nickel					
Phosphorus					
Potassium					
Selenium	anr				
Silicon					
Silver	anr				
Strontium					
Sulfur					
Thallium					
Tin					
Titanium					
Tungsten					
Vanadium					
Zinc					
Zirconium					

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD52684
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35442 Methods: SW846 6010D
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 10/07/22

Metal	JD52684-4 Original MS	Spikelot MPSPK2	% Rec	QC Limits

Associated samples MP35442: JD52684-4, JD52684-5, JD52684-6, JD52684-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD52684
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35442
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 10/07/22

Metal	JD52684-4 Original	MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	0.0	2140	2000	107.0	1.9	20
Arsenic	10.9	1980	2000	98.5	0.5	20
Barium	anr					
Beryllium						
Bismuth						
Boron						
Cadmium	0.0	2160	2000	108.0	1.8	20
Cerium						
Chromium	2.4	1950	2000	97.4	1.0	20
Cobalt						
Copper						
Iron	29900	60700	25000	97.2	1.1	20
Lead	1.3	2070	2000	103.5	1.0	20
Lithium						
Magnesium						
Manganese	179	2160	2000	98.9	0.9	20
Molybdenum						
Nickel						
Phosphorus						
Potassium						
Selenium	anr					
Silicon						
Silver	anr					
Strontium						
Sulfur						
Thallium						
Tin						
Titanium						
Tungsten						
Vanadium						
Zinc						
Zirconium						

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD52684
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35442 Methods: SW846 6010D
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 10/07/22

Metal	JD52684-4 Original MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit

Associated samples MP35442: JD52684-4, JD52684-5, JD52684-6, JD52684-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD52684
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35442
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date:		10/02/22				10/02/22		
Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum								
Antimony	2160	2000	108.0	80-120	2120	2000	106.0	80-120
Arsenic								
Barium	anr							
Beryllium								
Bismuth								
Boron								
Cadmium	2180	2000	109.0	80-120	2130	2000	106.5	80-120
Calcium								
Cerium								
Chromium	2070	2000	103.5	80-120	2020	2000	101.0	80-120
Cobalt								
Copper								
Iron	27200	25000	108.8	80-120	26400	25000	105.6	80-120
Lead	2140	2000	107.0	80-120	2090	2000	104.5	80-120
Lithium								
Magnesium								
Manganese	2110	2000	105.5	80-120	2060	2000	103.0	80-120
Molybdenum								
Nickel								
Phosphorus								
Potassium								
Selenium	anr							
Silicon								
Silver	anr							
Sodium								
Strontium								
Sulfur								
Thallium								
Tin								
Titanium								
Tungsten								
Vanadium								

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD52684
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35442
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 10/02/22 10/02/22

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Zinc								
Zirconium								

Associated samples MP35442: JD52684-4, JD52684-5, JD52684-6, JD52684-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD52684
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35442
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 10/07/22

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	1960	2000	98.0	80-120
Barium				
Beryllium				
Bismuth				
Boron				
Cadmium				
Calcium				
Cerium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium				
Strontium				
Sulfur				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium				

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD52684
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35442
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 10/07/22

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Zinc				
Zirconium				

Associated samples MP35442: JD52684-4, JD52684-5, JD52684-6, JD52684-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD52684
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35442
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 10/02/22

Metal	JD52684-4 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	0.00	0.00	NC	0-10
Arsenic	10.9	18.4	68.8 (a)	0-10
Barium	anr			
Beryllium				
Bismuth				
Boron				
Cadmium	0.00	0.00	NC	0-10
Calcium				
Cerium				
Chromium	2.40	3.50	45.8 (a)	0-10
Cobalt				
Copper				
Iron	29900	37700	3.5	0-10
Lead	1.30	0.00	NC	0-10
Lithium				
Magnesium				
Manganese	179	189	3.2	0-10
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Strontium				
Sulfur				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium				

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD52684
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35442 Methods: SW846 6010D
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 10/02/22

Metal	JD52684-4 Original SDL 1:5	%DIF	QC Limits
Zinc			
Zirconium			

Associated samples MP35442: JD52684-4, JD52684-5, JD52684-6, JD52684-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD52684
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35466 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 10/03/22

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.024	.095	0.087	<0.20

Associated samples MP35466: JD52684-4, JD52684-5, JD52684-6, JD52684-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD52684
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35466
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 10/03/22

Metal	JD52684-4 Original	MS	Spikelot HGPW3	% Rec	QC Limits
Mercury	0.13	2.1	2	98.5	75-125

Associated samples MP35466: JD52684-4, JD52684-5, JD52684-6, JD52684-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD52684
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35466 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 10/03/22

Metal	JD52684-4 Original	MSD	Spikelot HGPW3	% Rec	MSD RPD	QC Limit
Mercury	0.13	2.1	2	98.5	0.0	20

Associated samples MP35466: JD52684-4, JD52684-5, JD52684-6, JD52684-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD52684
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP35466 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 10/03/22

Metal	BSP Result	Spikelot HGPW3	% Rec	QC Limits
Mercury	2.1	2	105.0	80-120

Associated samples MP35466: JD52684-4, JD52684-5, JD52684-6, JD52684-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

Misc. Forms

Custody Documents and Other Forms

(SGS Orlando, FL)

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

Page 1 of 1

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

FED-EX Tracking #: SGS North America Inc. - Dayton
Bottle Order Control #: 2235 Route 130, Dayton, NJ 08810
SGS Quote #: TEL. 732-329-0200 FAX: 732-329-3499/3480
SGS Job #: JD52684

Client / Reporting Information

Company Name:
Street Address:
City State Zip:
Project Contact: Jadon.Schiller@sgs.com E-mail:
Phone #:
Sampler(s) Name(s): BH Phone:

Project Information

Project Name: HLAME: 30130-Alllift Landfill, 579 Tifft Street, Buffalo, NY
Street:
City State:
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)

Company Name:
Street Address:
City State Zip:
Attention:

Requested Analysis

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	LCID537(NY21, LCMS+14DAY)	LAB USE ONLY
1A	SUMP-1-092322		9/23/22	12:58:00 PM	BH	AQ										X	
2A	SUMP-2-092322		9/23/22	2:13:00 PM	BH	AQ										X	
3A	SUMP-3-092322		9/23/22	3:18:00 PM	BH	AQ										X	
4A	SUMP-4-092322		9/23/22	4:42:00 PM	BH	AQ										X	
4AD	SUMP-4-092322		9/23/22	4:42:00 PM	BH	AQ										X	
4AS	SUMP-4-092322		9/23/22	4:42:00 PM	BH	AQ										X	
5A	SUMP-4-FD-092322		9/23/22	4:42:00 PM	BH	AQ										X	
6A	SUMP-COMP-092322		9/23/22	7:00:00 PM	BH	AQ										X	
7A	MW-2-092322		9/23/22	10:47:00 AM	BH	AQ										X	
9	TRIP BLANK-2-092322		9/23/22	7:00:00 PM	BH	AQ										X	

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB-Equipment Blank
RB - Rinse Blank
TB - Trip Blank

Turnaround Time (Business days)

Approved By (SGS PM): / Date:

- [ ] Standard 10 Business Days
- [ ] 5 Business Days RUSH
- [ ] 3 Business Days RUSH
- [ ] 2 Business Days RUSH
- [ ] 1 Business Day EMERGENCY
- [X] Other 1/14/1900

Emergency & Rush T/A data available via Lablink. Approval needed for RUSH/Emergency TAT

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [X] Other COMMBN

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1 Eddie C	09/30/22 12:26	1	2		2
Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
3		3	4		4
Relinquished by:	Date / Time:	Received By:	Custody Seal #	Intact / Not Intact	Preserved where applicable / Absent
5		5			On Ice / Therm. ID / Cooler Temp. °C

INITIAL ASSESSMENT SM

LABEL VERIFICATION SM 2.0° 18#1

Sample Management Receipt Date Sample Management Receipt Date Sample Management Receipt Date

jd52684.xls
Rev. Date: 4/10/18

JD52684: Chain of Custody
Page 1 of 2
SGS Orlando, FL

SGS Sample Receipt Summary

Job Number: JD52684 **Client:** SGS NJ **Project:** HLAME

Date / Time Received: 10/1/2022 10:30:00 AM **Delivery Method:** FEDEX **Airbill #'s:** 5894 7367 3246

Therm ID: IR 1; **Therm CF:** 0.6; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (2.0);

Cooler Temps (Corrected) °C: Cooler 1: (2.6);

Cooler Information	Y	or	N
1. Custody Seals Present	☑		☐
2. Custody Seals Intact	☑		☐
3. Temp criteria achieved	☑		☐
4. Cooler temp verification	IR Gun		
5. Cooler media	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	☐		☐	☑
2. Trip Blank listed on COC	☐		☐	☑

	W	or	S	N/A
3. Type Of TB Received	☐		☐	☑

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles	☑		☐	
2. Samples preserved properly	☑		☐	
3. Sufficient volume/containers recvd for analysis:	☑		☐	
4. Condition of sample	Intact			
5. Sample recvd within HT	☑		☐	
6. Dates/Times/IDs on COC match Sample Label	☑		☐	
7. VOCs have headspace	☐		☐	☑
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☑
11. % Solids Jar received?	☐		☐	☑
12. Residual Chlorine Present?	☐		☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments

SM001
Rev. Date 05/24/17

Technician: SAMUELM Date: 10/1/2022 10:30:00 A Reviewer: _____ Date: _____

9.1

9

JD52684: Chain of Custody
Page 2 of 2

MS Semi-volatiles

QC Data Summaries

(SGS Orlando, FL)

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Isotope Dilution Standard Recovery Summaries

Method Blank Summary

Job Number: JD52684
Account: ALNJ SGS Dayton, NJ
Project: HWINJOMM: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93368-MB	2Q100740.D	1	10/21/22	WH	10/06/22	OP93368	S2Q1406

The QC reported here applies to the following samples: **Method:** EPA 537M BY ID

JD52684-9, JD52684-1A, JD52684-2A, JD52684-3A, JD52684-4A, JD52684-5A, JD52684-6A, JD52684-7A

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0040	0.0020	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0020	0.0010	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	0.0010	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.0010	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.0010	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.0010	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.0010	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.0010	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.0010	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.0010	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.0010	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0010	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.0010	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.0010	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0010	ug/l	
754-91-6	PFOSA	ND	0.0040	0.0020	ug/l	
2355-31-9	MeFOSAA	ND	0.0040	0.0020	ug/l	
2991-50-6	EtFOSAA	ND	0.0040	0.0020	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	74%	35-135%
	13C5-PFPeA	76%	50-150%
	13C5-PFHxA	75%	50-150%
	13C4-PFHpA	74%	50-150%
	13C8-PFOA	76%	50-150%
	13C9-PFNA	73%	50-150%
	13C6-PFDA	69%	50-150%
	13C7-PFUnDA	63%	40-140%
	13C2-PFDoDA	43%	40-140%
	13C2-PFTeDA	34%	30-130%
	13C3-PFBS	71%	50-150%

Method Blank Summary

Job Number: JD52684
Account: ALNJ SGS Dayton, NJ
Project: HWINJOMM: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93368-MB	2Q100740.D	1	10/21/22	WH	10/06/22	OP93368	S2Q1406

The QC reported here applies to the following samples: **Method:** EPA 537M BY ID

JD52684-9, JD52684-1A, JD52684-2A, JD52684-3A, JD52684-4A, JD52684-5A, JD52684-6A, JD52684-7A

CAS No.	ID Standard Recoveries		Limits
	13C3-PFHxS	72%	50-150%
	13C8-PFOS	58%	50-150%
	13C8-FOSA	56%	30-130%
	d3-MeFOSAA	67%	40-140%
	d5-EtFOSAA	56%	40-140%
	13C2-6:2FTS	77%	50-150%
	13C2-8:2FTS	65%	50-150%

Instrument Blank

Job Number: JD52684
Account: ALNJ SGS Dayton, NJ
Project: HWINJOMM: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S2Q1406-IBLK	2Q100707.D	1	10/21/22	WH	n/a	n/a	S2Q1406

The QC reported here applies to the following samples: **Method:** EPA 537M QSM5.3 B-15

JD52684-1A, JD52684-2A, JD52684-3A, JD52684-4A, JD52684-5A, JD52684-6A

CAS No.	Compound	Result	RL	MDL	Units	Q
335-67-1	Perfluorooctanoic acid	ND	0.0040	0.0010	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0040	0.0010	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0040	0.0010	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0040	0.0010	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0040	0.0010	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0040	0.0010	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0040	0.0010	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0040	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0040	0.0010	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0040	0.0010	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0040	0.0010	ug/l	
754-91-6	PFOSA	ND	0.0040	0.0010	ug/l	
2355-31-9	MeFOSAA	ND	0.0080	0.0020	ug/l	
2991-50-6	EtFOSAA	ND	0.0080	0.0020	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	87%	50-150%
	13C5-PFPeA	88%	50-150%
	13C5-PFHxA	87%	50-150%
	13C4-PFHpA	86%	50-150%
	13C8-PFOA	90%	50-150%
	13C9-PFNA	84%	50-150%
	13C6-PFDA	84%	50-150%
	13C7-PFUnDA	92%	50-150%
	13C2-PFDoDA	83%	50-150%
	13C2-PFTeDA	81%	50-150%
	13C3-PFBS	84%	50-150%
	13C3-PFHxS	84%	50-150%
	13C8-PFOS	78%	50-150%
	13C8-FOSA	88%	50-150%
	d3-MeFOSA	94%	50-150%
	d3-MeFOSAA	93%	50-150%

Instrument Blank

Job Number: JD52684
Account: ALNJ SGS Dayton, NJ
Project: HWINJOMM: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S2Q1406-IBLK	2Q100707.D	1	10/21/22	WH	n/a	n/a	S2Q1406

The QC reported here applies to the following samples: **Method:** EPA 537M QSM5.3 B-15

JD52684-1A, JD52684-2A, JD52684-3A, JD52684-4A, JD52684-5A, JD52684-6A

CAS No.	ID Standard Recoveries		Limits
	d5-EtFOSAA	92%	50-150%
	13C2-4:2FTS	80%	50-150%
	13C2-6:2FTS	88%	50-150%
	13C2-8:2FTS	81%	50-150%
	13C3-HFPO-DA	94%	50-150%

Instrument Blank

Job Number: JD52684
Account: ALNJ SGS Dayton, NJ
Project: HWINJOMM: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S2Q1409-IBLK	2Q100978.D	1	10/25/22	WH	n/a	n/a	S2Q1409

The QC reported here applies to the following samples: **Method:** EPA 537M QSM5.3 B-15

JD52684-1A, JD52684-2A, JD52684-3A, JD52684-4A, JD52684-5A, JD52684-6A

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.016	0.0040	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0080	0.0020	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0080	0.0020	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0080	0.0020	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0080	0.0020	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0080	0.0020	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0080	0.0020	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0080	0.0020	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0080	0.0020	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0080	0.0020	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0080	0.0020	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0080	0.0020	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0080	0.0020	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0080	0.0020	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0080	0.0020	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0080	0.0020	ug/l	
754-91-6	PFOSA	ND	0.0080	0.0020	ug/l	
2355-31-9	MeFOSAA	ND	0.016	0.0040	ug/l	
2991-50-6	EtFOSAA	ND	0.016	0.0040	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.016	0.0040	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.016	0.0040	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	80%	50-150%
	13C5-PFPeA	80%	50-150%
	13C5-PFHxA	79%	50-150%
	13C4-PFHpA	84%	50-150%
	13C8-PFOA	85%	50-150%
	13C9-PFNA	80%	50-150%
	13C6-PFDA	77%	50-150%
	13C7-PFUnDA	85%	50-150%
	13C2-PFDoDA	79%	50-150%
	13C2-PFTeDA	74%	50-150%
	13C3-PFBS	81%	50-150%

Instrument Blank

Job Number: JD52684
Account: ALNJ SGS Dayton, NJ
Project: HWINJOMM: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S2Q1409-IBLK	2Q100978.D	1	10/25/22	WH	n/a	n/a	S2Q1409

The QC reported here applies to the following samples: **Method:** EPA 537M QSM5.3 B-15

JD52684-1A, JD52684-2A, JD52684-3A, JD52684-4A, JD52684-5A, JD52684-6A

CAS No.	ID Standard Recoveries		Limits
	13C3-PFHxS	83%	50-150%
	13C8-PFOS	76%	50-150%
	13C8-FOSA	84%	50-150%
	d3-MeFOSA	84%	50-150%
	d3-MeFOSAA	79%	50-150%
	d5-EtFOSAA	77%	50-150%
	13C2-4:2FTS	76%	50-150%
	13C2-6:2FTS	82%	50-150%
	13C2-8:2FTS	74%	50-150%
	13C3-HFPO-DA	81%	50-150%

Instrument Blank

Job Number: JD52684
Account: ALNJ SGS Dayton, NJ
Project: HWINJOMM: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S2Q1410-IBLK	2Q101010.D	1	10/26/22	WH	n/a	n/a	S2Q1410

The QC reported here applies to the following samples: **Method:** EPA 537M QSM5.3 B-15

JD52684-9, JD52684-2A, JD52684-7A

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0080	0.0020	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	0.0010	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0040	0.0010	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0040	0.0010	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0040	0.0010	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0040	0.0010	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0040	0.0010	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0040	0.0010	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0040	0.0010	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0040	0.0010	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0040	0.0010	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0040	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0040	0.0010	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0040	0.0010	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0040	0.0010	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0040	0.0010	ug/l	
754-91-6	PFOSA	ND	0.0040	0.0010	ug/l	
2355-31-9	MeFOSAA	ND	0.0080	0.0020	ug/l	
2991-50-6	EtFOSAA	ND	0.0080	0.0020	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	72%	50-150%
	13C5-PFPeA	72%	50-150%
	13C5-PFHxA	72%	50-150%
	13C4-PFHpA	74%	50-150%
	13C8-PFOA	77%	50-150%
	13C9-PFNA	73%	50-150%
	13C6-PFDA	71%	50-150%
	13C7-PFUnDA	79%	50-150%
	13C2-PFDoDA	72%	50-150%
	13C2-PFTeDA	67%	50-150%
	13C3-PFBS	73%	50-150%

Instrument Blank

Job Number: JD52684
Account: ALNJ SGS Dayton, NJ
Project: HWINJOMM: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S2Q1410-IBLK	2Q101010.D	1	10/26/22	WH	n/a	n/a	S2Q1410

The QC reported here applies to the following samples: **Method:** EPA 537M QSM5.3 B-15

JD52684-9, JD52684-2A, JD52684-7A

CAS No.	ID Standard Recoveries		Limits
	13C3-PFHxS	76%	50-150%
	13C8-PFOS	73%	50-150%
	13C8-FOSA	74%	50-150%
	d3-MeFOSA	73%	50-150%
	d3-MeFOSAA	73%	50-150%
	d5-EtFOSAA	68%	50-150%
	13C2-4:2FTS	65%	50-150%
	13C2-6:2FTS	72%	50-150%
	13C2-8:2FTS	66%	50-150%
	13C3-HFPO-DA	69%	50-150%

Blank Spike Summary

Job Number: JD52684
Account: ALNJ SGS Dayton, NJ
Project: HWINJOMM: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93368-BS	2Q100739.D	1	10/21/22	WH	10/06/22	OP93368	S2Q1406

The QC reported here applies to the following samples: **Method:** EPA 537M BY ID

JD52684-9, JD52684-1A, JD52684-2A, JD52684-3A, JD52684-4A, JD52684-5A, JD52684-6A, JD52684-7A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-22-4	Perfluorobutanoic acid	0.08	0.0847	106	70-130
2706-90-3	Perfluoropentanoic acid	0.08	0.0847	106	70-130
307-24-4	Perfluorohexanoic acid	0.08	0.0847	106	70-130
375-85-9	Perfluoroheptanoic acid	0.08	0.0853	107	70-130
335-67-1	Perfluorooctanoic acid	0.08	0.0861	108	70-130
375-95-1	Perfluorononanoic acid	0.08	0.0861	108	70-130
335-76-2	Perfluorodecanoic acid	0.08	0.0833	104	70-130
2058-94-8	Perfluoroundecanoic acid	0.08	0.0819	102	70-130
307-55-1	Perfluorododecanoic acid	0.08	0.0851	106	70-130
72629-94-8	Perfluorotridecanoic acid	0.08	0.0696	87	60-140
376-06-7	Perfluorotetradecanoic acid	0.08	0.0916	115	70-130
375-73-5	Perfluorobutanesulfonic acid	0.08	0.0853	107	70-130
355-46-4	Perfluorohexanesulfonic acid	0.08	0.0861	108	70-130
375-92-8	Perfluoroheptanesulfonic acid	0.08	0.0890	111	70-130
1763-23-1	Perfluorooctanesulfonic acid	0.08	0.0872	109	70-130
335-77-3	Perfluorodecanesulfonic acid	0.08	0.0745	93	60-130
754-91-6	PFOSA	0.08	0.0871	109	70-130
2355-31-9	MeFOSAA	0.08	0.0869	109	70-130
2991-50-6	EtFOSAA	0.08	0.0860	108	70-130
27619-97-2	6:2 Fluorotelomer sulfonate	0.08	0.0853	107	70-130
39108-34-4	8:2 Fluorotelomer sulfonate	0.08	0.0880	110	70-130

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	85%	35-135%
	13C5-PFPeA	86%	50-150%
	13C5-PFHxA	86%	50-150%
	13C4-PFHpA	84%	50-150%
	13C8-PFOA	86%	50-150%
	13C9-PFNA	83%	50-150%
	13C6-PFDA	82%	50-150%
	13C7-PFUnDA	87%	40-140%
	13C2-PFDoDA	73%	40-140%
	13C2-PFTeDA	48%	30-130%
	13C3-PFBS	82%	50-150%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD52684
Account: ALNJ SGS Dayton, NJ
Project: HWINJOMM: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93368-BS	2Q100739.D	1	10/21/22	WH	10/06/22	OP93368	S2Q1406

The QC reported here applies to the following samples: **Method:** EPA 537M BY ID

JD52684-9, JD52684-1A, JD52684-2A, JD52684-3A, JD52684-4A, JD52684-5A, JD52684-6A, JD52684-7A

CAS No.	ID Standard Recoveries	BSP	Limits
	13C3-PFHxS	82%	50-150%
	13C8-PFOS	77%	50-150%
	13C8-FOSA	61%	30-130%
	d3-MeFOSAA	80%	40-140%
	d5-EtFOSAA	74%	40-140%
	13C2-6:2FTS	90%	50-150%
	13C2-8:2FTS	82%	50-150%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD52684
Account: ALNJ SGS Dayton, NJ
Project: HWINJOMM: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93368-MS	2Q100999.D	5	10/25/22	WH	10/06/22	OP93368	S2Q1409
OP93368-MSD	2Q101000.D	5	10/25/22	WH	10/06/22	OP93368	S2Q1409
JD52684-4A	2Q100747.D	1	10/21/22	WH	10/06/22	OP93368	S2Q1406
JD52684-4A	2Q100998.D	5	10/25/22	WH	10/06/22	OP93368	S2Q1409

The QC reported here applies to the following samples: **Method:** EPA 537M BY ID

JD52684-9, JD52684-1A, JD52684-2A, JD52684-3A, JD52684-4A, JD52684-5A, JD52684-6A, JD52684-7A

CAS No.	Compound	JD52684-4A ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
375-22-4	Perfluorobutanoic acid	0.0990	a	0.0851	0.181	96	0.0784	0.159	77	13	70-130/30
2706-90-3	Perfluoropentanoic acid	ND	a	0.0851	0.132	155*	0.0784	0.133	170*	1	70-130/30
307-24-4	Perfluorohexanoic acid	0.0156	a	0.0851	0.0992	98	0.0784	0.0912	96	8	70-130/30
375-85-9	Perfluoroheptanoic acid	0.0171	a	0.0851	0.0983	95	0.0784	0.0938	98	5	70-130/30
335-67-1	Perfluorooctanoic acid	0.0523		0.0851	0.133	95	0.0784	0.131	100	2	70-130/30
375-95-1	Perfluorononanoic acid	ND		0.0851	0.0874	103	0.0784	0.0820	105	6	70-130/30
335-76-2	Perfluorodecanoic acid	ND		0.0851	0.0822	97	0.0784	0.0781	100	5	70-130/30
2058-94-8	Perfluoroundecanoic acid	ND		0.0851	0.0843	99	0.0784	0.0789	101	7	70-130/30
307-55-1	Perfluorododecanoic acid	ND		0.0851	0.0861	101	0.0784	0.0830	106	4	70-130/30
72629-94-8	Perfluorotridecanoic acid	ND		0.0851	0.0676	79	0.0784	0.0729	93	8	60-140/30
376-06-7	Perfluorotetradecanoic acid	ND		0.0851	0.0874	103	0.0784	0.0825	105	6	70-130/30
375-73-5	Perfluorobutanesulfonic acid	ND	a	0.0851	0.144	169*	0.0784	0.145	185*	1	70-130/30
355-46-4	Perfluorohexanesulfonic acid	ND		0.0851	0.102	120	0.0784	0.0926	118	10	70-130/30
375-92-8	Perfluoroheptanesulfonic acid	ND	a	0.0851	0.0830	98	0.0784	0.0797	102	4	70-130/30
1763-23-1	Perfluorooctanesulfonic acid	0.0212	a	0.0851	0.112	107	0.0784	0.111	114	1	70-130/30
335-77-3	Perfluorodecanesulfonic acid	ND		0.0851	0.0748	88	0.0784	0.0714	91	5	60-130/30
754-91-6	PFOSA	ND	a	0.0851	0.0850	100	0.0784	0.0868	111	2	b 70-130/30
2355-31-9	MeFOSAA	ND		0.0851	0.0884	104	0.0784	0.0842	107	5	70-130/30
2991-50-6	EtFOSAA	ND		0.0851	0.0894	105	0.0784	0.0923	118	3	70-130/30
27619-97-2	6:2 Fluorotelomer sulfonate	ND		0.0851	0.0854	100	0.0784	0.0818	104	4	70-130/30
39108-34-4	8:2 Fluorotelomer sulfonate	ND		0.0851	0.0860	101	0.0784	0.0817	104	5	70-130/30

CAS No.	ID Standard Recoveries	MS	MSD	JD52684-4A	JD52684-4A	Limits
	13C4-PFBA	72%	61%	36%	58%	35-135%
	13C5-PFPeA	72%	64%	36%* c	58%	50-150%
	13C5-PFHxA	74%	64%	39%* c	58%	50-150%
	13C4-PFHpA	79%	70%	46%* c	63%	50-150%
	13C8-PFOA	90%	78%	53%	72%	50-150%
	13C9-PFNA	80%	70%	50%	64%	50-150%
	13C6-PFDA	83%	73%	50%	64%	50-150%
	13C7-PFUnDA	83%	70%	49%	67%	40-140%
	13C2-PFDoDA	61%	55%	40%	62%	40-140%
	13C2-PFTeDA	36%	46%	34%	53%	30-130%
	13C3-PFBS	77%	68%	41%* c	60%	50-150%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD52684
Account: ALNJ SGS Dayton, NJ
Project: HWINJOMM: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93368-MS	2Q100999.D	5	10/25/22	WH	10/06/22	OP93368	S2Q1409
OP93368-MSD	2Q101000.D	5	10/25/22	WH	10/06/22	OP93368	S2Q1409
JD52684-4A	2Q100747.D	1	10/21/22	WH	10/06/22	OP93368	S2Q1406
JD52684-4A	2Q100998.D	5	10/25/22	WH	10/06/22	OP93368	S2Q1409

The QC reported here applies to the following samples: **Method:** EPA 537M BY ID

JD52684-9, JD52684-1A, JD52684-2A, JD52684-3A, JD52684-4A, JD52684-5A, JD52684-6A, JD52684-7A

CAS No.	ID Standard Recoveries	MS	MSD	JD52684-4A	JD52684-4A	Limits
	13C3-PFHxS	85%	76%	50%	63%	50-150%
	13C8-PFOS	73%	59%	42%* [c]	59%	50-150%
	13C8-FOSA	17%* [c]	18%* [c]	5%* [c]	12%* [c]	30-130%
	d3-MeFOSAA	79%	70%	59%	63%	40-140%
	d5-EtFOSAA	73%	61%	51%	63%	40-140%
	13C2-6:2FTS	97%	85%	58%	72%	50-150%
	13C2-8:2FTS	79%	71%	51%	59%	50-150%

(a) Result is from Run #2.
(b) Associated ID Standard outside control limits.
(c) Outside control limits.

* = Outside of Control Limits.

Isotope Dilution Standard Recovery Summary

Job Number: JD52684
Account: ALNJ SGS Dayton, NJ
Project: HWINJOMM: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Method: EPA 537M BY ID **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6	S7	S8
JD52684-9	2Q101027.D	80	80	80	81	79	74	66	56
JD52684-9	2Q101028.D	82	82	82	85	86	82	78	76
JD52684-1A	2Q100995.D	35	52	52	54	64	57	61	65
JD52684-1A	2Q100742.D	22* [a]	23* [a]	25* [a]	29* [a]	32* [a]	38* [a]	46* [a]	49 [b]
JD52684-2A	2Q101029.D	37	87	85	89	99	87	85	66
JD52684-2A	2Q100996.D	29* [a]	64	66	72	83	77	79	72
JD52684-2A	2Q100745.D	13* [a]	22* [a]	25* [a]	29* [a]	36* [a]	43* [a]	54	59
JD52684-3A	2Q100997.D	43	62	65	71	81	74	71	66
JD52684-3A	2Q100746.D	21* [a]	29* [a]	32* [a]	40* [a]	51	52	55	51
JD52684-4A	2Q100998.D	58	58	58	63	72	64	64	67
JD52684-4A	2Q100747.D	36	36* [a]	39* [a]	46* [a]	53	50	50	49
JD52684-5A	2Q101001.D	61	60	62	66	74	66	65	65
JD52684-5A	2Q100750.D	34* [a]	33* [a]	36* [a]	41* [a]	47* [a]	43* [a]	44* [a]	41
JD52684-6A	2Q101002.D	46	66	67	71	83	73	75	71
JD52684-6A	2Q100751.D	23* [a]	29* [a]	32* [a]	38* [a]	44* [a]	49* [a]	52	51
JD52684-7A	2Q101030.D	63	63	61	66	71	62	64	66
OP93368-BS	2Q100739.D	85	86	86	84	86	83	82	87
OP93368-MB	2Q100740.D	74	76	75	74	76	73	69	63
OP93368-MS	2Q100999.D	72	72	74	79	90	80	83	83
OP93368-MSD	2Q101000.D	61	64	64	70	78	70	73	70

Isotope Dilution Standards	Recovery Limits
S1 = 13C4-PFBA	35-135%
S2 = 13C5-PFPeA	50-150%
S3 = 13C5-PFHxA	50-150%
S4 = 13C4-PFHpA	50-150%
S5 = 13C8-PFOA	50-150%
S6 = 13C9-PFNA	50-150%
S7 = 13C6-PFDA	50-150%
S8 = 13C7-PFUnDA	40-140%

(a) Outside control limits.
(b) Associated ID Standard outside control limits.

Isotope Dilution Standard Recovery Summary

Job Number: JD52684
Account: ALNJ SGS Dayton, NJ
Project: HWINJOMM: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Method: EPA 537M BY ID **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S9	S10	S11	S12	S13	S14	S15	S16
JD52684-9	2Q101027.D	39* [a]	18* [a]	78	74	67	26* [a]	57	51
JD52684-9	2Q101028.D	61	41	83	80	77	33	70	64
JD52684-1A	2Q100995.D	48	15* [a]	57	64	52	9* [a]	66	61
JD52684-1A	2Q100742.D	38* [a]	29* [a]	31* [a]	40* [a]	35* [a]	2* [a]	39* [a]	30* [a]
JD52684-2A	2Q101029.D	28* [a]	7* [a]	90	98	76	6* [a]	88	71
JD52684-2A	2Q100996.D	37* [a]	8* [a]	74	84	65	5* [a]	84	75
JD52684-2A	2Q100745.D	54	48	34* [a]	44* [a]	41* [a]	2* [a]	20* [a]	26* [a]
JD52684-3A	2Q100997.D	51	40	67	83	67	24* [a]	68	61
JD52684-3A	2Q100746.D	43	40	38* [a]	52	47* [a]	11* [a]	64	55
JD52684-4A	2Q100998.D	62	53	60	63	59	12* [a]	63	63
JD52684-4A	2Q100747.D	40	34	41* [a]	50	42* [a]	5* [a]	59	51
JD52684-5A	2Q101001.D	54	45	62	69	60	16* [a]	66	59
JD52684-5A	2Q100750.D	36* [a]	36	38* [a]	45* [a]	34* [a]	7* [a]	52	43
JD52684-6A	2Q101002.D	62	52	73	81	63	20* [a]	74	68
JD52684-6A	2Q100751.D	45	44	0* [a]	49* [a]	41* [a]	6* [a]	57	40
JD52684-7A	2Q101030.D	59	54	61	64	56	31	67	65
OP93368-BS	2Q100739.D	73	48	82	82	77	61	80	74
OP93368-MB	2Q100740.D	43	34	71	72	58	56	67	56
OP93368-MS	2Q100999.D	61	36	77	85	73	17* [a]	79	73
OP93368-MSD	2Q101000.D	55	46	68	76	59	18* [a]	70	61

Isotope Dilution Standards	Recovery Limits
S9 = 13C2-PFDoDA	40-140%
S10 = 13C2-PFTeDA	30-130%
S11 = 13C3-PFBS	50-150%
S12 = 13C3-PFHxS	50-150%
S13 = 13C8-PFOS	50-150%
S14 = 13C8-FOSA	30-130%
S15 = d3-MeFOSAA	40-140%
S16 = d5-EtFOSAA	40-140%

(a) Outside control limits.

Isotope Dilution Standard Recovery Summary

Job Number: JD52684
Account: ALNJ SGS Dayton, NJ
Project: HWINJOMM: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Method: EPA 537M BY ID **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S17	S18
JD52684-9	2Q101027.D	81	58
JD52684-9	2Q101028.D	84	69
JD52684-1A	2Q100995.D	68	58
JD52684-1A	2Q100742.D	39* [a]	48* [a]
JD52684-2A	2Q101029.D	103	78
JD52684-2A	2Q100996.D	88	75
JD52684-2A	2Q100745.D	46* [a]	56
JD52684-3A	2Q100997.D	88	67
JD52684-3A	2Q100746.D	56	57
JD52684-4A	2Q100998.D	72	59
JD52684-4A	2Q100747.D	58	51
JD52684-5A	2Q101001.D	76	59
JD52684-5A	2Q100750.D	51	45* [a]
JD52684-6A	2Q101002.D	89	69
JD52684-6A	2Q100751.D	48* [a]	55
JD52684-7A	2Q101030.D	73	59
OP93368-BS	2Q100739.D	90	82
OP93368-MB	2Q100740.D	77	65
OP93368-MS	2Q100999.D	97	79
OP93368-MSD	2Q101000.D	85	71

Isotope Dilution Standards	Recovery Limits
S17 = 13C2-6:2FTS	50-150%
S18 = 13C2-8:2FTS	50-150%

(a) Outside control limits.

Jacobs

Well Sampling Form

Page 1 of 1

Project Name ~~Annual/PFAS~~ AllTight O+M
Location 571 Tifft St, Buffalo
Sampling Event Annual/PFAS
Job #

Date 09-23-2022
Field Team B. Hurley
Field Conditions ~~SUNNY~~, Sunny

Well / Sample # MW-2
Initial DTW: 11.71
Purge Method (circle):
Submersible Peristaltic Ded. Pump Other: _____
Sample Method: ↓

Start Time 0955 End Time 1100
Measure Point (circle): TOC PVC Steel Other: _____

Sample ID MW-2-092322 Sample Time: 1047
~~Dup. Sample ID~~ ~~Dup. Time:~~
~~QC Sample ID~~ ~~QC Time:~~
Depth to Bottom (from meas. pt., ft.): 16.95 Min. Purge Vol. (gal. or L): N/A Purge Rate (gpm or mL/pm) ~~150~~ ~~250~~ 200 mL/min

WQ Parameter Measurement Technique (circle): Flow-thru cell In-situ Open container

Time	Volume Purged gal (1)	pH SU (+/- 0.1)	Conductivity mS/cm (+/- 3%)	Turbidity NTU (+/- 10% if > 10 NTU)	DO mg/L (+/- 10%)	Temperature °C (+/- 3%)	Eh / ORP mv (+/- 10 mV)	DTW ft.
1010	~~0~~	START PUMP						11.71
1020	2.0	~~7.57~~ 7.56	1.119	16.59	1.48	14.8	-95.4	11.98
1025	3.0	7.45	~~1.071~~ 1.071	5.86	1.26	14.7	-46.0	12.14
1030	4.0	7.39	1.000	6.28	1.51	15.2	32.1	12.31
1035	5.0	7.39	0.988	6.49	1.57	15.7	58.6	12.53
1040	6.0	7.38	0.970	6.20	1.69	16.2	65.8	12.74
1045	7.0	7.37	0.956	5.48	~~1.84~~ 1.84	16.2	74.1	12.96
~~1050~~	~~8.0~~	Sample taken @ 1047						

Sample Collection Information

Parameter	Bottle Type	Volume	Quantity	Preservative	Field Filtered(Y/N)	Sample Taken(Y/N)	Notes
8260	VOA	40mL	3	HCl	N	Y	
537M	HDPE	250mL	2	None	N	Y	
8270	Amber	1L	2	None	N	Y	
8270 SIM	Amber	1L	2	None	N	Y	
METALS	Poly	500mL	1	HNO_3	N	Y	

Notes

Purge water clear, initially very turbid. No discernable odor. Poor recharge at this well.

Jacobs

Well Sampling Form

Project Name: Ahlf Landfill
Location: 579 Taft St. Buffalo NY.
Sampling Event: Annual/PFAS
Job #:

Date: 09-23-22
Field Team: D. Hunley
Field Conditions: 55°F, mostly sunny

Well / Sample #: Sump-1-092322
Initial DTW: 3.61
Purge Method (circle): Submersible (Peristaltic) Ded. Pump Other:
Sample Method: ↓

Start Time: 1210 End Time: 1300
Measure Point (circle): TOC PVC (Steel) Other:

Sample ID: Sump-1-092322 Sample Time: 1258
~~Dup. Sample ID~~ ~~Dup. Time:~~
~~QC Sample ID~~ ~~QC Time:~~
Depth to Bottom (from meas. pt., ft.): 16-95 ~~Min. Purge Vol. (gal. or L):~~ Purge Rate (gpm or (mL/m)): 300

WQ Parameter Measurement Technique (circle): (Flow-thru cell) In-situ Open container

Time	Volume Purged gal / L	pH SU (+/- 0.1)	Conductivity mS/cm (+/- 3%)	Turbidity NTU (+/- 10% if > 10 NTU)	DO mg/L (+/- 10%)	Temperature °C (+/- 3%)	Eh / ORP mv (+/- 10 mV)	DTW ft.
1215	Ø	START PUMP						3.61
1225	3	6.98	4.155	7.46	0.75	18.4	-78.1	3.78
1230	4.5	6.96	4.152	7.17	0.58	18.3	-84.4	4.22
1235	6.0	6.96	4.154	6.56	0.56	18.4	-86.2	4.94
1240	7.5	6.95	4.149	6.89	0.55	18.3	-88.0	5.01
1250	9.0	6.96	4.155	7.67	0.53	18.3	-87.3	5.16
1255	10.5	6.96	4.131	8.13	0.53	18.4	-87.9	5.23
1258	— SAMPLE TAKEN							

Sample Collection Information

Parameter	Bottle Type	Volume	Quantity	Preservative	Field Filtered(Y/N)	Sample Taken(Y/N)	Notes
8260	VOA	40mL	3	HCl	N	Y	
537M	HDPE	250mL	2	None	N	Y	

Notes: ~~DW~~
~~Water clear~~. No odor. Water has orange tint.

Jacobs

Well Sampling Form

Project Name: AMH Landfill
Location: 5771 Tifft St, Buffalo NY
Sampling Event: Annual PFAS
Job #:

Date: 09-23-22
Field Team: B. Hensley
Field Conditions: 80's, clear

Well / Sample #: Sump-2
Initial DTW: 10.60

Start Time: 1340
End Time: 1420

Purge Method (circle):
Submersible | Peristaltic | Ded. Pump | Other:

Measure Point (circle): TOC | PVC | Steel | Other:

Sample Method:

Sample ID: Sump-2-092322
Sample Time: 1413

~~Dup. Sample ID~~
Dup. Time:

~~QC Sample ID~~
QC Time:

Depth to Bottom (from meas. pt., ft.): 22.80
~~Min. Purge Vol. (gal. or L):~~
Purge Rate (gpm or mLpm): 300

WQ Parameter Measurement Technique (circle): Flow-thru cell | In-situ | Open container

Time	Volume Purged gal / L	pH SU (+/- 0.1)	Conductivity mS/cm (+/- 3%)	Turbidity NTU (+/- 10% if > 10 NTU)	DO mg/L (+/- 10%)	Temperature °C (+/- 3%)	Eh / ORP mv (+/- 10 mV)	DTW ft.
1340	0	START PUMP						10.60
1345	1.5	7.08	4.479	4.10	0.75	15.0	-103.7	11.30
1350	3.0	7.06	4.467	4.93	0.63	15.0	-103.8	11.65
1355	4.5	7.02	4.370	4.54	0.58	15.1	-99.0	9.82
1400	6.0	7.02	4.307	4.96	0.56	15.0	-99.7	9.61
1405	7.5	7.00	4.266	4.69	0.55	15.1	-98.2	9.19
1410	9.0	6.94	4.252	4.31	0.53	15.2	-94.3	9.08
1413		SAMPLE TAKEN						

Sample Collection Information

Parameter	Bottle Type	Volume	Quantity	Preservative	Field Filtered(Y/N)	Sample Taken(Y/N)	Notes
8260	VOA	40mL	3	HCl	N	Y	
537M	HDPE	250mL	2	None	N	Y	

Notes
Water clear, no odor.

Jacobs

Well Sampling Form

Project Name Alltift Landfill
Location Tifft Street, Buffalo NY
Sampling Event Annual PFAS
Job #

Date 4-23-22
Field Team B. Hendry
Field Conditions 55°F, sunny

Well / Sample # Sump-3
Initial DTW: 7.99
Purge Method (circle):
Submersible (Peristaltic) Ded. Pump Other:
Sample Method: Peristaltic Pump

Start Time 1430 **End Time** 1530
Measure Point (circle): TOC
PVC (Steel) Other:

Sample ID Sump-3-092322
Sample Time: 1518
~~**Dup. Sample ID**~~
Dup. Time:
~~**QC Sample ID**~~
QC Time:
Depth to Bottom (from meas. pt., ft.): 17.30
~~**Min. Purge Vol. (gal. or L):**~~
Purge Rate (gpm or (mLpm)): 300

WQ Parameter Measurement Technique (circle): (Flow-thru cell) In-situ Open container

Time	Volume Purged gal / L	pH SU (+/- 0.1)	Conductivity mS/cm (+/- 3%)	Turbidity NTU (+/- 10% if > 10 NTU)	DO mg/L (+/- 10%)	Temperature °C (+/- 3%)	Eh / ORP mv (+/- 10 mV)	DTW ft.
1435 ~~1430~~	.0	START PUMP						7.99
1440	1.5	6.59	4.114	8.30	0.58	15.3	-53.3	8.04
1445	3.0	6.62	4.007	7.32	0.54	15.2	-52.9	8.08
1450	4.5	6.60	3.948	5.38	0.51	15.3	-53.4	8.11
1455	6.0	6.61	3.883	6.01	0.50	15.4	-54.0	8.12
1500	7.5	6.61	3.849	6.46	0.51	15.4	-54.9	8.11
1505	9.0	6.61	3.827	6.78	0.50	15.3	-55.8	8.12
1510	10.5	6.62	3.808	6.39	0.50	15.3	-56.3	8.12
1515	12.0	6.62	3.796	6.02	0.49	15.3	-57.2	8.12
1518 - SAMPLE TAKEN								

Sample Collection Information

Parameter	Bottle Type	Volume	Quantity	Preservative	Field Filtered(Y/N)	Sample Taken(Y/N)	Notes
VOC	VOA	40mL	3	HCl	N	Y	
~~SVOC~~	~~Amber~~	~~1L~~	~~2~~	~~None~~	~~N~~		
~~1,4 Dioxane~~	~~Amber~~	~~1L~~	~~2~~	~~None~~	~~N~~		
~~Metals~~	~~Poly~~	~~500mL~~	~~1~~	~~HNO3~~	~~N~~		
PFAS	HDPE	250mL	2	None	N	Y	

Notes
Water clear, no odor.

Jacobs

Well Sampling Form

Project Name: Alltift Landfill
Location: Tifft Street, Buffalo NY
Sampling Event: Annual PFAS
Job #:

Date: 09-23-2022
Field Team: B. Hendry
Field Conditions: 50°F, sunny

Well / Sample #: Sump - 4
Initial DTW: 7.29
Purge Method (circle):
Submersible | (Peristaltic) | Ded. Pump | Other: _____
Sample Method: Peristaltic Pump

Start Time: 1555 End Time: 1815
Measure Point (circle): TOC
PVC | (Steel) | Other: _____

Sample ID: Sump-4-092322
Dup. Sample ID: Sump-4-PD-092322
QC Sample ID: Sump-4-MS/MSD-092322
Depth to Bottom (from meas. pt., ft.): 17.80

Sample Time: 1642
Dup. Time: "
QC Time: "
~~Min. Purge Vol. (gal. or L):~~
Purge Rate (gpm or (mL/pm)): 300

WQ Parameter Measurement Technique (circle): (Flow-thru cell) | In-situ | Open container

Time	Volume Purged gal / L	pH SU (+/- 0.1)	Conductivity mS/cm (+/- 3%)	Turbidity NTU (+/- 10% if > 10 NTU)	DO mg/L (+/- 10%)	Temperature °C (+/- 3%)	Eh / ORP mv (+/- 10 mV)	DTW ft.
1555	0 — START PUMP							7.29
1605	3.0	6.74	2.749	3.60	0.71	17.0	-78.4	7.36
1610	4.5	6.73	2.750	3.09	0.63	17.0	-80.5	7.43
1615	6.0	6.71	2.745	3.68	0.60	16.9	-80.8	7.51
1620	7.5	6.72	2.743	3.32	0.57	16.8	-80.9	[illegible] 7.56
1625	9.0	6.72	~~2.746~~ 2.746	2.83	[illegible]	16.9	-81.0	7.57
1630	10.5	6.72	2.746	3.01	0.62	17.2	-81.2	7.59
1635	12.0	6.72	2.747	3.38	0.65	16.9	-81.5	7.58
1640	13.5	6.71	2.748	3.70	0.68	17.0	-81.6	7.59
1642				SAMPLES TAKEN				

Sample Collection Information

Parameter	Bottle Type	Volume	Quantity	Preservative	Field Filtered(Y/N)	Sample Taken(Y/N)	Notes
VOC	VOA	40mL	3	HCl	N	Y	
SVOC	Amber	1L	2	None	N	Y	
1,4-Dioxane	Amber	1L	2	None	N	Y	
Metals	Poly	500mL	1	HNO3	N	Y	
PFAS	HDPE	250mL	2	None	N	Y	

Notes
4 sets total sampled here: Normal sample set, FD set, MS set, MSD set.
Water clear, no odor.

Jacobs

Well Sampling Form

Page 1 of 1

Project Name: Ashford Landfill
Location: 571 Ridge St. Buffalo NY
Sampling Event: Annual/PFAS
Job #:

Date: 09-23-22
Field Team: B. Hindry
Field Conditions: 50's, clear

Well / Sample #: Sump - Comp
Initial DTW:
Purge Method (circle):
Submersible | Peristaltic | Ded. Pump | Other:
Sample Method: ↓

Start Time: 1300 End Time: ~~1900~~ 1900
~~Measure Point (circle):~~
~~PVC Steel Other:~~

Sample ID: Sump-Comp-092322
~~Dup. Sample ID:~~
~~QC Sample ID:~~
~~Depth to Bottom (from meas. pt. ft.):~~

Sample Time: 1900
Dup. Time:
~~QC Time:~~
~~Min. Purge Vol. (gal. or L):~~
~~Purge Rate (gpm or mL/min):~~

~~WQ Parameter Measurement Technique (circle):~~ ~~Flow-thru cell~~ ~~In-situ~~ Open container

Time	Volume Purged gal / L	pH SU (+/- 0.1)	Conductivity mS/cm (+/- 3%)	Turbidity NTU (+/- 10% if > 10 NTU)	DO mg/L (+/- 10%)	Temperature °C (+/- 3%)	Eh / ORP mv (+/- 10 mV)	DTW ft.
1300		Add 1gal. to composite carboy from Sump-1						
~~1400~~								
1400	Add 1gal.	to ~~1400~~	Composite carboy from Sump-2					
1515	Add 1gal	to composite carboy from sump-3						
~~1530~~ 1530	Add 1 gal	to composite carboy	from sump-4.					
1900 - Samples taken								

Sample Collection Information

Parameter	Bottle Type	Volume	Quantity	Preservative	Field Filtered(Y/N)	Sample Taken(Y/N)	Notes
537m	HDPE	250 mL	2	None	N	Y	
8270	Amber	1L	2	None	N	Y	
8270SIM	Amber	1L	2	None	N	Y	
METALS	Poly	500mL	1	HNO3	N	Y	

Notes

Carboy kept on ice in large cooler throughout day.

09-25-2022 B. Hurley

Allfirst Landfill Annual / PFAS Sampling

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Field Clothing and PPE:

- ☒ No clothing or boots containing Gore-Tex™
- ☒ All safety boots made from polyurethane and PVC
- ☒ No materials containing Tyvek®
- ☒ Field crew has not used fabric softener on clothing
- ☒ Field crew has not used cosmetics, moisturizers, hand cream, or other related products this morning
- ☒ Field crew has not applied unauthorized sunscreen or insect repellant

Field Equipment:

- ☒ No Teflon® containing materials on-site
- ☒ All sample materials made from stainless steel, HDPE, acetate, silicon, or polypropylene
- ☒ No waterproof field books on-site → Field Forms used are normal printer paper.
- ☒ No plastic clipboards, binders, or spiral hard cover notebooks on-site
- ☒ No adhesives (Post-It Notes) on-site
- ☒ Coolers filled with regular ice only. No chemical (blue) ice packs in possession

Sample Containers:

- ☒ All sample containers made of HDPE or polypropylene. Samples are not stored in containers made of LDPE
- ☒ Caps are lined or unlined and made of HDPE or polypropylene

Wet Weather (as applicable): N/A

- ~~☐ Wet weather gear made of polyurethane and PVC only~~

Equipment Decontamination:

- ☒ "PFC-free" water on-site for decontamination of sample equipment. No other water sources to be used.
- ☒ Alconox and Liquinox to be used as decontamination materials

Food Considerations:

- ☒ No food or drink on-site with exception of bottled water and/or hydration drinks (i.e., Gatorade and Powerade) that is available for consumption only in the staging area

BH

YSI CALIBRATION RECORD

PROJECT NAME:	Alltia Annual/PFAS Sampling	TASK NO:	am Labor	DATE:	09-23-22
PROJECT NUMBER:	NNOMMICB	FIELD CREW:	Ben Hendry		
PROJECT LOCATION:	T.A. St, Buffalo NY	SAMPLER NAME:	Ben Hendry		
WEATHER CONDITIONS (AM):	Clear, 50's	SAMPLER SIGNATURE:			
WEATHER CONDITIONS (PM):	Clear, & 50's	CHECKED BY:		DATE:	

AM CALIBRATION

	Units	Standard Value	Meter Value	*Acceptance Criteria (AM)
pH (4)	SU	4.0	4.01	+/- 0.1 pH Units
pH (7)	SU	7.0	7.00	+/- 0.1 pH Units
pH (10)	SU	10.0	10.00	+/- 0.1 pH Units
Redox	+/- mV	240	241	+/- 10 mV
Sp. Conductivity	µS/cm	1413	1416	+/- 3% of standard
DO (saturated)	%	100	100	+/- 2% of standard
~~DO (saturated)~~	~~mg/L~~	~~sat. value~~		+/- 0.2 mg/L
~~DO (<0.1)~~	~~mg/L~~	~~0.1~~	N/A	~~+/- 0.5 mg/L~~ - 2pt. cal not recommended by manufacturer.
Temperature	°C		15.8	
Turbidity	NTU	~~100~~	Ø	+/- 5% of standard
Turbidity	NTU	~~100~~ 124.0	123.8	+/- 5% of standard
~~Turbidity~~	~~NTU~~	~~800~~		~~+/- 5% of standard~~

PM CALIBRATION CHECK

Standard Value	Meter Value	*Acceptance Criteria (PM)
7.0	7.02	+/- 0.3 pH Units
240	242	+/- 10 mV
1413	1412	+/- 5% of standard
SAT [Qm dm(100)]	100 %	
~~DO (<0.1)~~	~~Not Done~~	~~+/- 0.5 mg/L of sat. value~~ ≤ 0.5 mg/l
	17.2	°C
~~100~~ 124.0	123.6	+/- 5% of standard

Standard:	Lot #:	Make:	Expiration:
pH-4	16F366	PINE	06-23
pH-7	26C931	PINE	03-24
pH-10	26C1016	PINE	03-24
ORP-240mV	16J963	PINE	07-31-22
0 NTU	22250153	GFS	08-31-23
124.0 NTU	22C22050179	YSI	03-23
1.413 mS/cm	16F731	PINE	07-23

Verified zero reading in hot water, (100°C) which has Ø%/Ømg/L oxygen solubility.

INSTRUMENT CALIBRATION REPORT

Pine Environmental Services LLC
405 Cambridge Ave
Syracuse, NY 13208
Toll-free: (877) 903-PINE (7463)

Pine Environmental Services, Inc.

Instrument ID 50078
Description YSI Pro DSS Sonde
Calibrated 9/21/2022 3:00:38PM

Manufacturer YSI
Model Number Pro DSS
Serial Number/ Lot Number 21C103767
Location New York
Department

State Certified
Status Pass
Temp °C 20
Humidity % 50

Calibration Specifications

Group # 1
Group Name PH
Stated Accy Pct of Reading
Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
7.00 / 7.00	PH	7.00	PH	7.00	7.00	0.00%	Pass
4.00 / 4.00	PH	4.00	PH	4.00	4.00	0.00%	Pass
10.00 / 10.00	PH	10.00	PH	10.00	10.00	0.00%	Pass

Group # 2
Group Name Turbidity
Stated Accy Pct of Reading
Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
0.00 / 0.00	NTU	0.00	NTU	0.00	0.00	0.00%	Pass
124.00 / 124.00	NTU	124.00	NTU	124.00	124.00	0.00%	Pass

Group # 3
Group Name Conductivity
Stated Accy Pct of Reading
Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.000

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
1.413 / 1.413	ms/cm	1.413	ms/cm	1.413	1.413	0.00%	Pass

Group # 4
Group Name Redox (ORP)
Stated Accy Pct of Reading
Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
240.00 / 240.00	mv	240.00	mv	240.00	240.00	0.00%	Pass

Group # 5
Group Name Dissolved Oxygen Span
Stated Accy Pct of Reading
Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail

INSTRUMENT CALIBRATION REPORT

Pine Environmental Services LLC
405 Cambridge Ave
Syracuse, NY 13208
Toll-free: (877) 903-PINE (7463)

Pine Environmental Services, Inc.

Instrument ID 50078
Description YSI Pro DSS Sonde
Calibrated 9/21/2022 3:00:38PM

Group # 5
Group Name Dissolved Oxygen Span
Stated Accy Pct of Reading

Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
100.00 / 100.00	%	100.00	%	100.00	100.00	0.00%	Pass

Test Instruments Used During the Calibration (As Of Cal Entry Date)

Test Standard ID	Description	Manufacturer	Model Number	Serial Number / Lot Number	Last Cal Date/ Opened Date	Next Cal Date / Expiration Date
NYS COND 1.413 - 2GH566	NYS COND 1.413	AquaPhoenix Scientific	31986	2GH566		8/31/2023
NYS ORP 240 - 2GC778	NYS ORP 240	AquaPhoenix Scientific	32001	2GC778		12/31/2022
NYS PH 10 - 1GF458	NYS PH 10	AquaPhoenix Scientific	32034	16F458		6/30/2023
NYS PH 4 - 1GF366	NYS PH 4	AquaPhoenix Scientific	32017	1GF366		6/30/2023
NYS PH 7 - 0GJ538	NYS PH 7	AquaPhoenix Scientific	32025	0GJ538		12/29/2022
NYS TURB 0 NTU - 21410018	0 NTU TURBIDITY STANDARD	AMCOCLEAR	32101			11/30/2022
NYS TURB 124 NTU - 22C22050179	124 NTU TURBIDITY STANDARD	YSI	31963	22C22050179		3/31/2023

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Joe Filippi

All instruments are calibrated by Pine Environmental Services LLC according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

Notify Pine Environmental Services LLC of any defect within 24 hours of receipt of equipment
Please call 800-301-9663 for Technical Assistance

INSTRUMENT QC/ PACKING LIST

Description	YSI ProDSS sonde and display
Sonde ID#	50078
Display ID#	
Date Calibrated	9-21-22

PINE
www.pine-environmental.com

Standard Items	**Prepared**	**QC check**	**Received by customer**	**Returned to Pine**
YSI ProDSS sonde w/ 4 m cable and case	✓	✓		
YSI ProDSS Display	✓	✓		
Manual	✓	✓		
Battery Charger • USB to Micro USB • AC adapter	✓	✓		
Calibration/ Storage cup • sponge • O-ring • Retaining ring • Bottom cap	✓	✓		
Flow cell • Top • Bottom • Center window • (2) O-rings	✓	✓		
Probe Guard	✓	✓		
2 of each barb size (1/4, 3/8, 1/2)	✓	✓		
Comm. cable: Micro USB to Female USB	✓	✓		
YSI KorDSS Software	✓	✓		
Calibration kit, pH (4,7,10), conductivity, 124 NTU turbidity, and ORP.	✓	✓		
ProCal Calibration Sheet	✓	✓		
Supporting Items				
Probe guard weight (required w/ cables > 10m.)				

Prepared by: JF

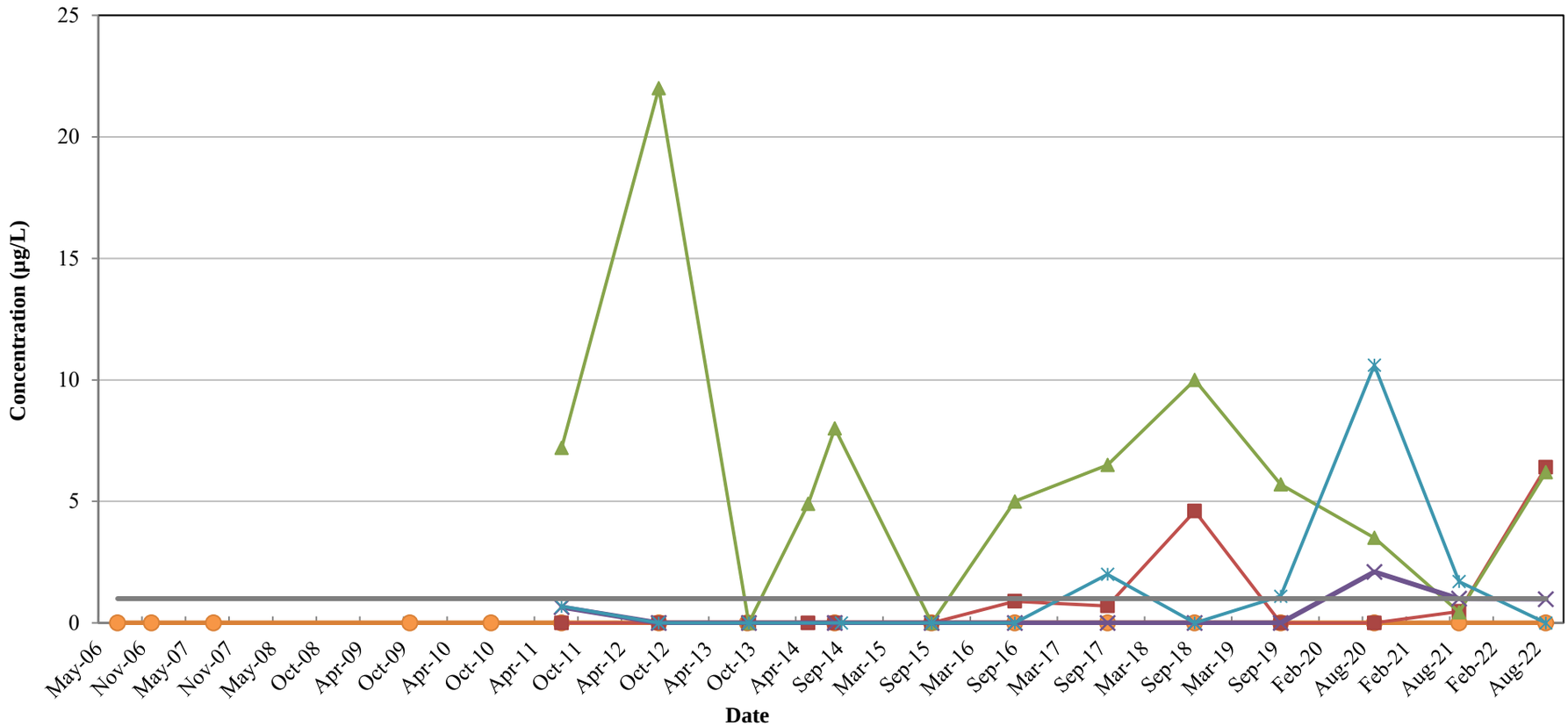
QC checked by:

Date: 9-21-22

This packing list is to ensure that every item needed to operate the unit was sent and received. Upon receiving a shipment, please fill out the "Received by customer" column. Call Pine within 24 hours of receiving the equipment if any pieces are missing, damaged, or malfunctioning. Thank you for choosing Pine Environmental Services LLC

ATTACHMENT B.8

GROUNDWATER TREND GRAPHS



Notes:

µg/L = micrograms per liter

MW-02 Sump 1 Sump 2

Sump 3 Sump 4 NYSDEC Standard

TITLE:

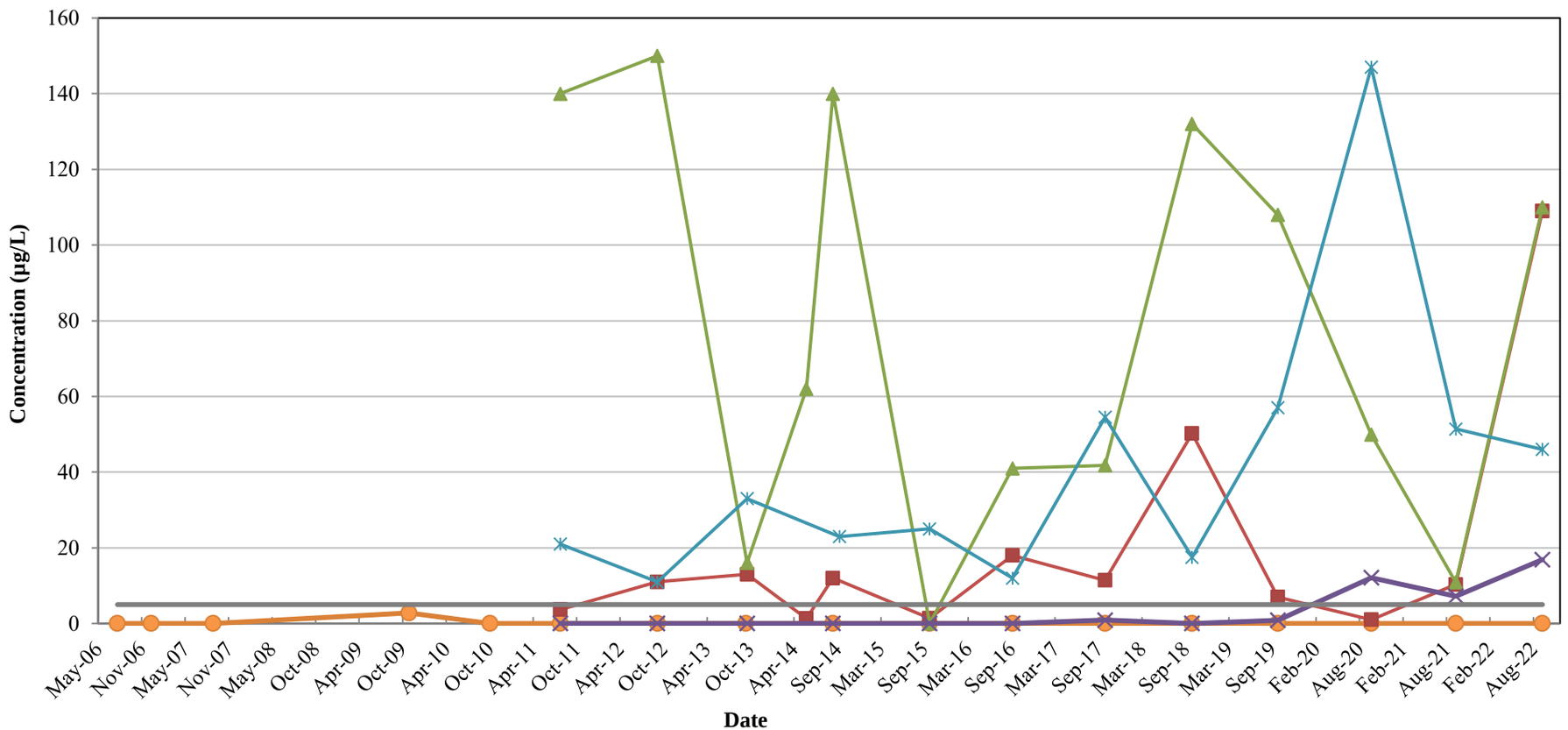
Benzene Concentration Trends

LOCATION:

Honeywell Altift Landfill
Buffalo NY, Site No. 915054

MACTEC

PREPARED	RTB	FIGURE
CHECKED BY	BJR	
PROJECT#	3616216168	1
DATE	4-25-23	



Notes:

µg/L = micrograms per liter

MW-02 Sump 1 Sump 2

Sump 3 Sump 4 NYSDEC Standard

TITLE:

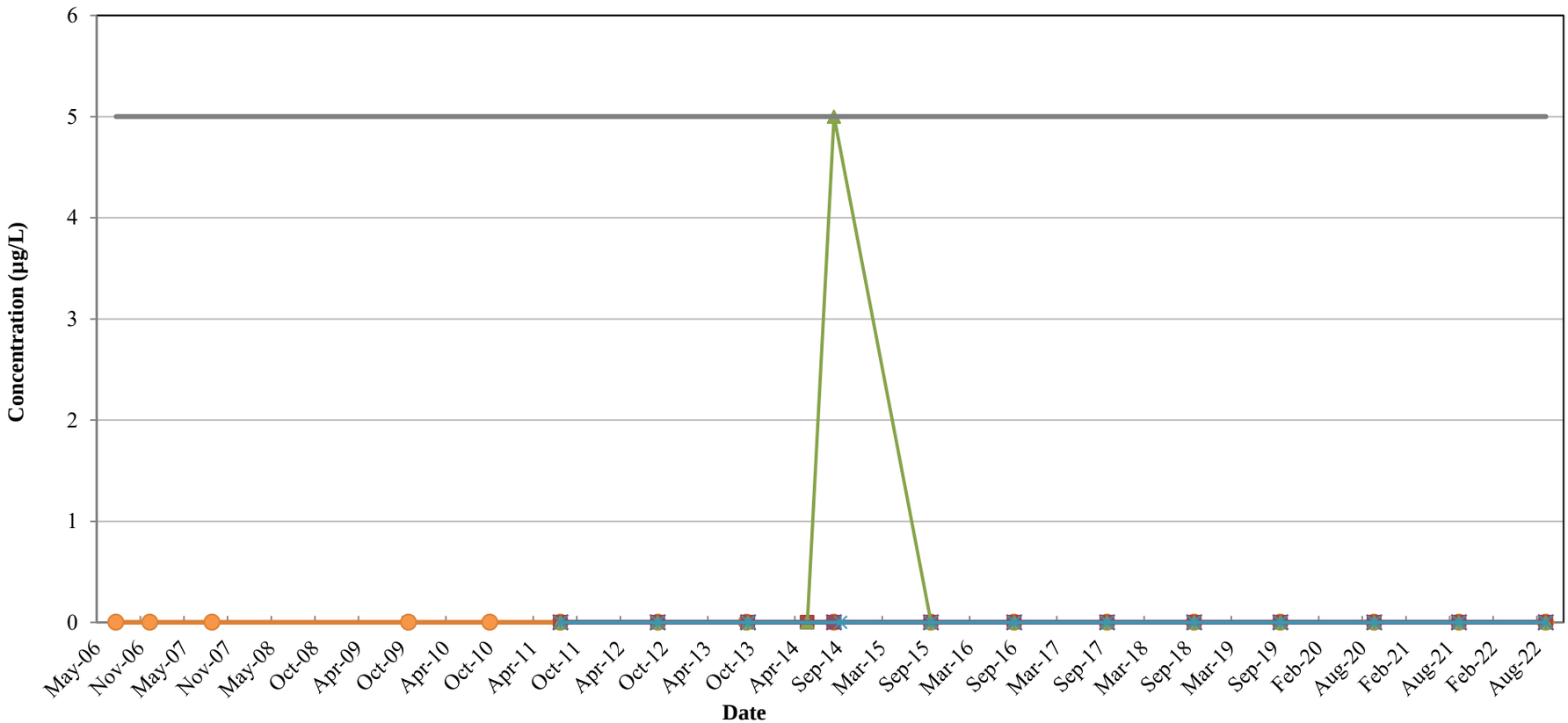
Chlorobenzene Concentration Trends

LOCATION:

Honeywell Altift Landfill
Buffalo NY, Site No. 915054

MACTEC

PREPARED	RTB	FIGURE
CHECKED BY	BJR	
PROJECT#	3616216168	2
DATE	4-25-23	



Notes:

µg/L = micrograms per liter

MW-02 Sump 1 Sump 2

Sump 3 Sump 4 NYSDEC Standard

TITLE:

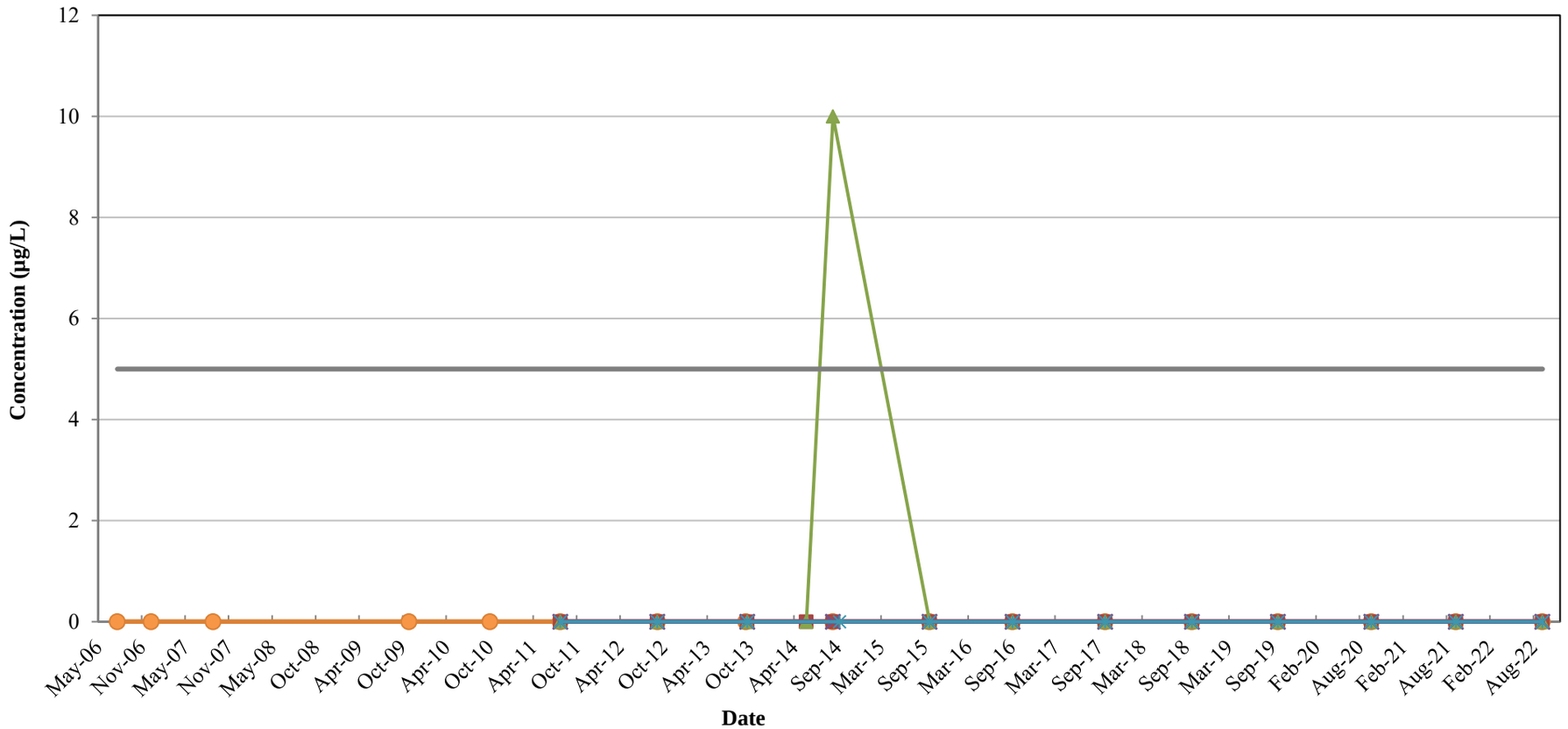
Ethylbenzene Concentration Trends

LOCATION:

Honeywell Altift Landfill
Buffalo NY, Site No. 915054

MACTEC

PREPARED	RTB	FIGURE
CHECKED BY	BJR	
PROJECT#	3616216168	3
DATE	4-25-23	



Notes:

µg/L = micrograms per liter

MW-02 Sump 1 Sump 2

Sump 3 Sump 4 NYSDEC Standard

TITLE:

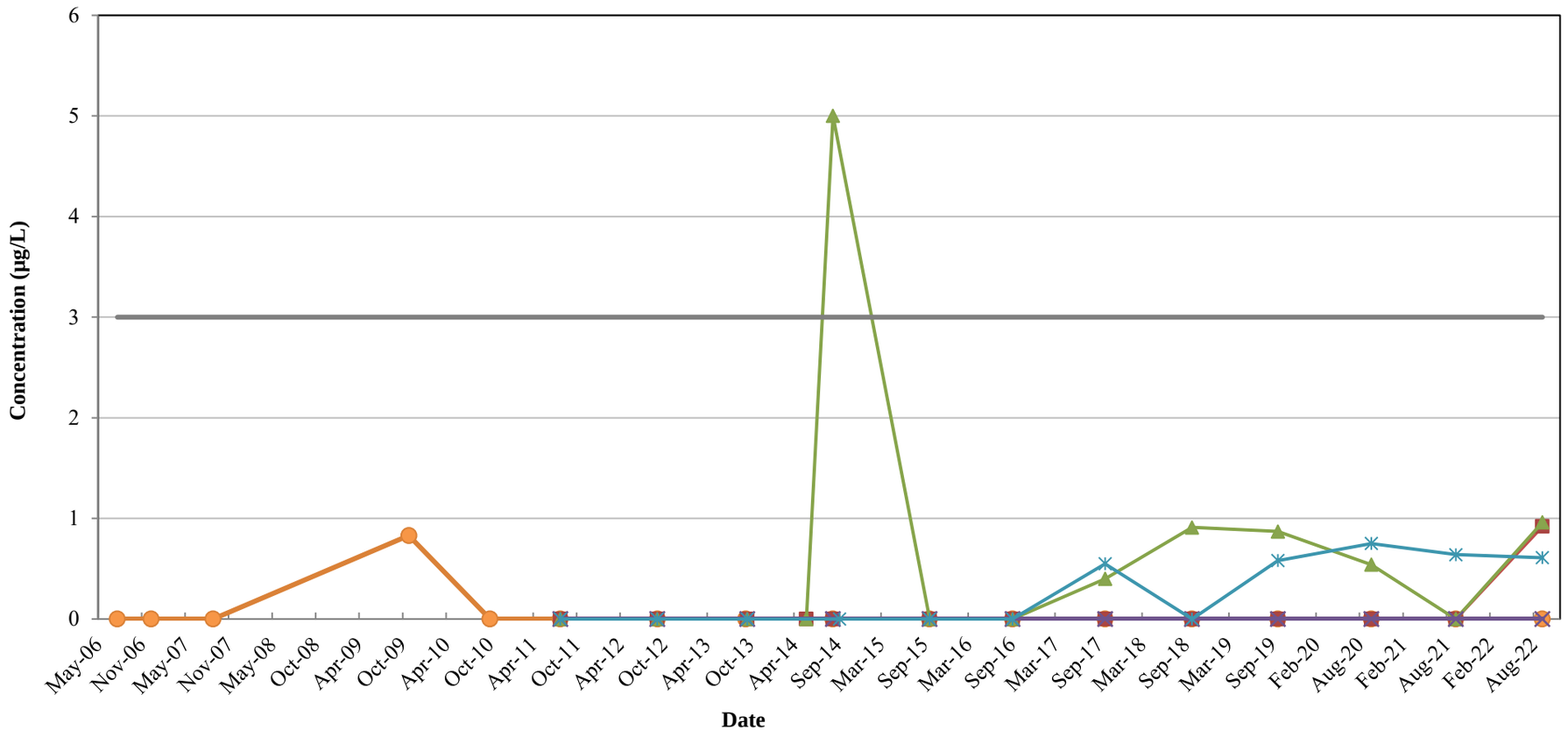
Total Xylenes Concentration Trends

LOCATION:

Honeywell Altift Landfill
Buffalo NY, Site No. 915054

MACTEC

PREPARED	RTB	FIGURE
CHECKED BY	BJR	
PROJECT#	3616216168	4
DATE	4-25-23	



Notes:

µg/L = micrograms per liter

MW-02 Sump 1 Sump 2

Sump 3 Sump 4 NYSDEC Standard

TITLE:

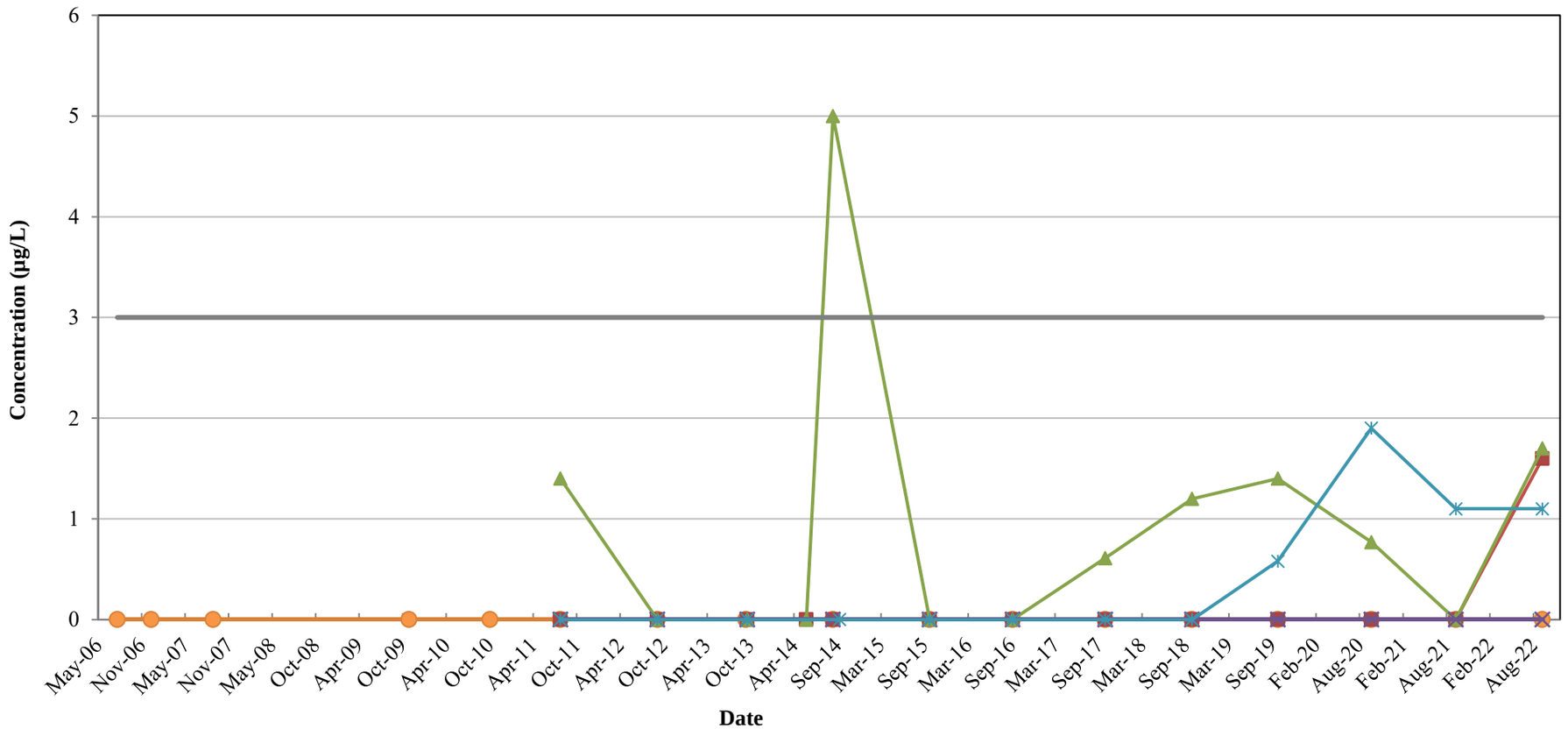
1,2-dichlorobenzene Concentration Trends

LOCATION:

Honeywell Altift Landfill
Buffalo NY, Site No. 915054

MACTEC

PREPARED	RTB	FIGURE
CHECKED BY	BJR	
PROJECT#	3616216168	5
DATE	4-25-23	



Notes:

µg/L = micrograms per liter

MW-02 Sump 1 Sump 2

Sump 3 Sump 4 NYSDEC Standard

TITLE:

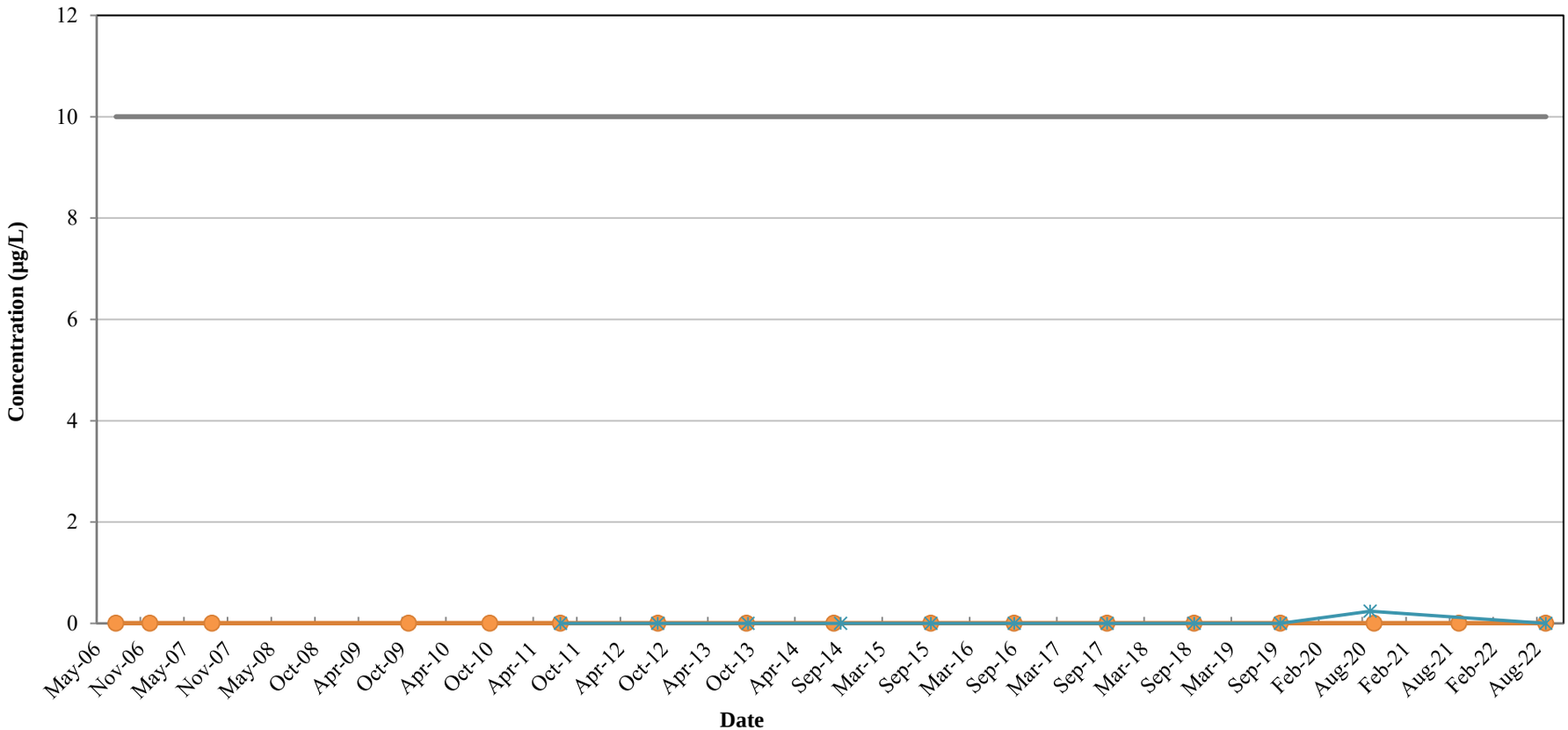
1,4-dichlorobenzene Concentration Trends

LOCATION:

Honeywell Altift Landfill
Buffalo NY, Site No. 915054

MACTEC

PREPARED	RTB	FIGURE
CHECKED BY	BJR	
PROJECT#	3616216168	6
DATE	4-25-23	



Notes:

µg/L = micrograms per liter

MW-02 Sump 1 Sump 2

Sump 3 Sump 4 NYSDEC Standard

TITLE:

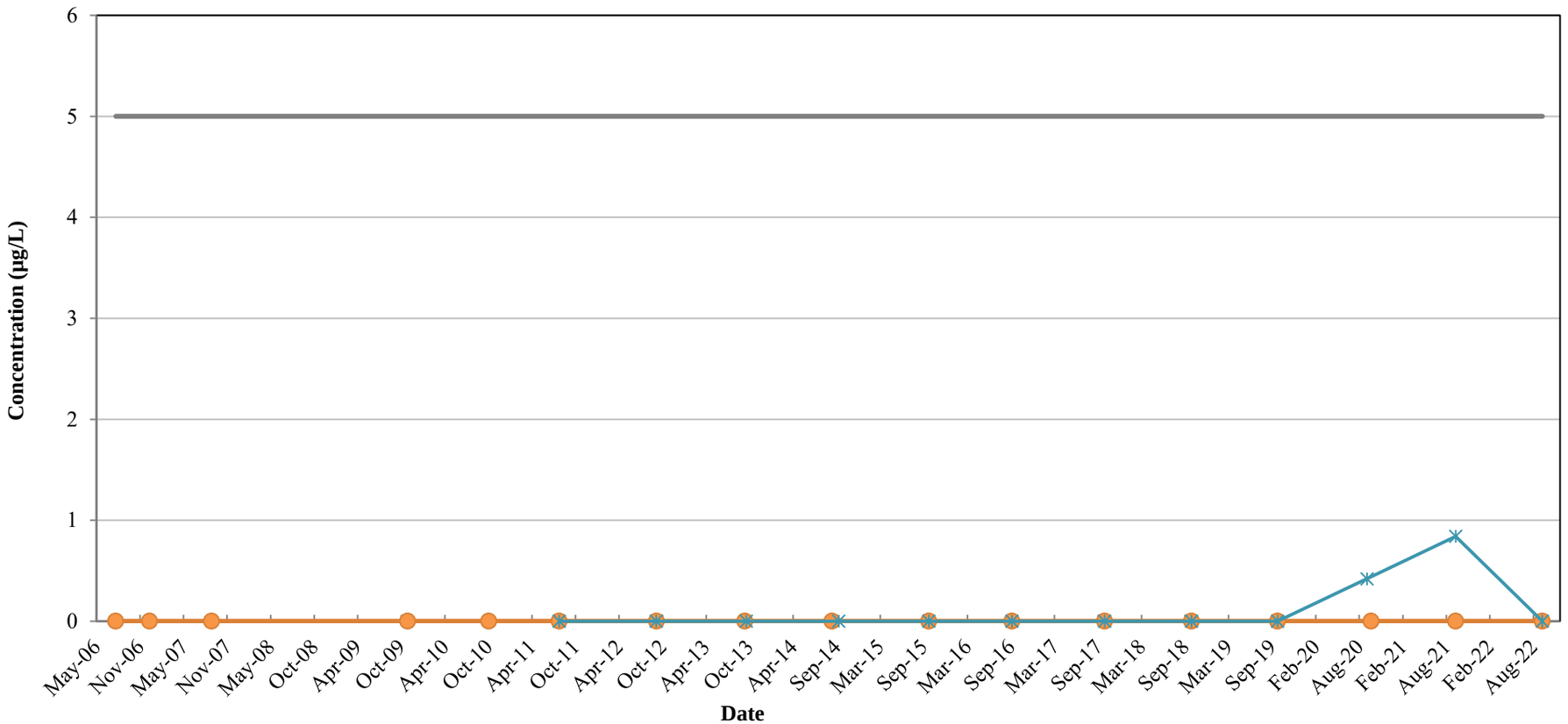
Naphthalene Concentration Trends

LOCATION:

Honeywell Altift Landfill
Buffalo NY, Site No. 915054

MACTEC

PREPARED	RTB	FIGURE
CHECKED BY	BJR	
PROJECT#	3616216168	7
DATE	4-25-23	



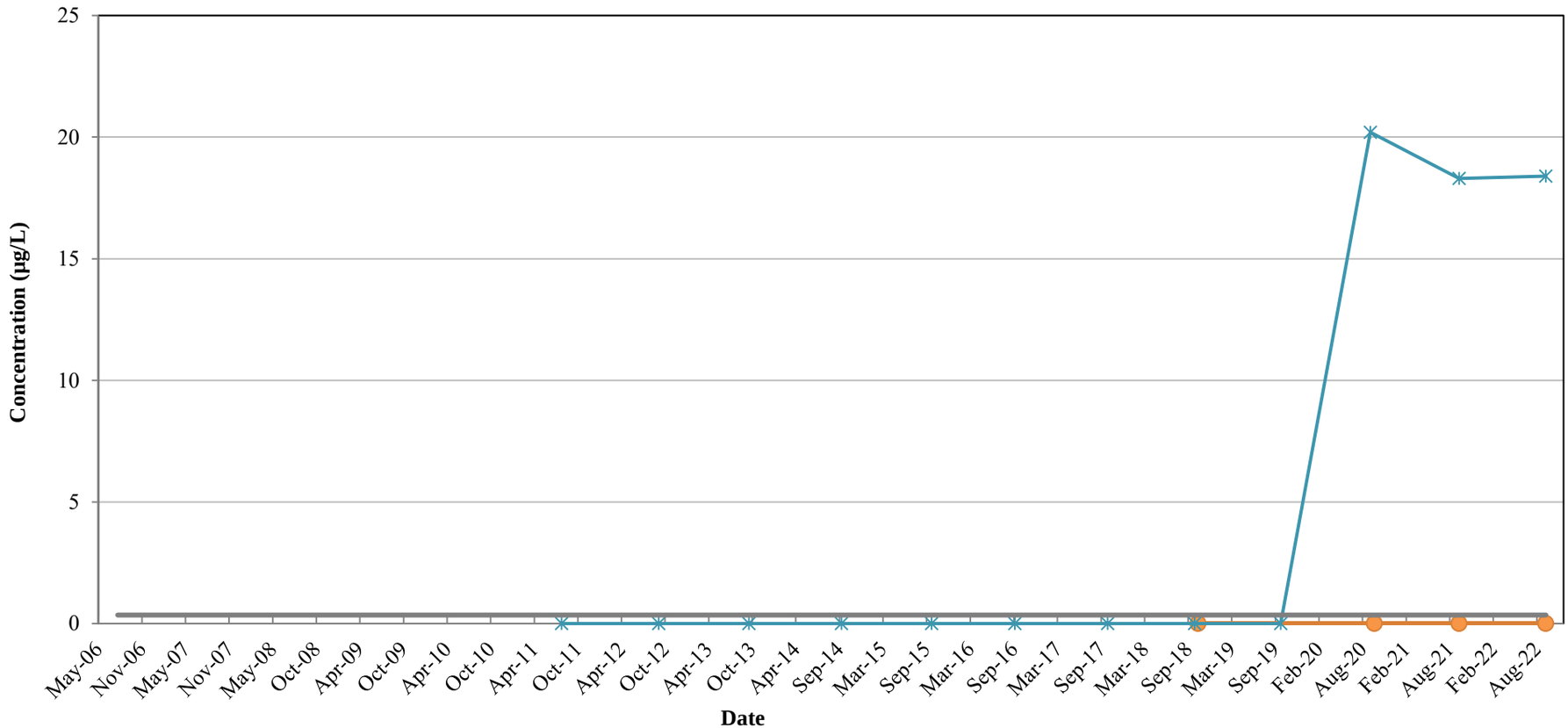
Notes:

µg/L = micrograms per liter

MW-02 Sump 1 Sump 2

Sump 3 Sump 4 NYSDEC Standard

TITLE: **4-Chloroaniline Concentration Trends**			
LOCATION: **Honeywell Altift Landfill Buffalo NY, Site No. 915054**			
MACTEC	PREPARED	RTB	FIGURE
	CHECKED BY	BJR	
	PROJECT#	3616216168	8
	DATE	4-25-23	



Notes:

µg/L = micrograms per liter

MW-02 Sump 1 Sump 2

Sump 3 Sump 4 NYSDEC Standard

TITLE:

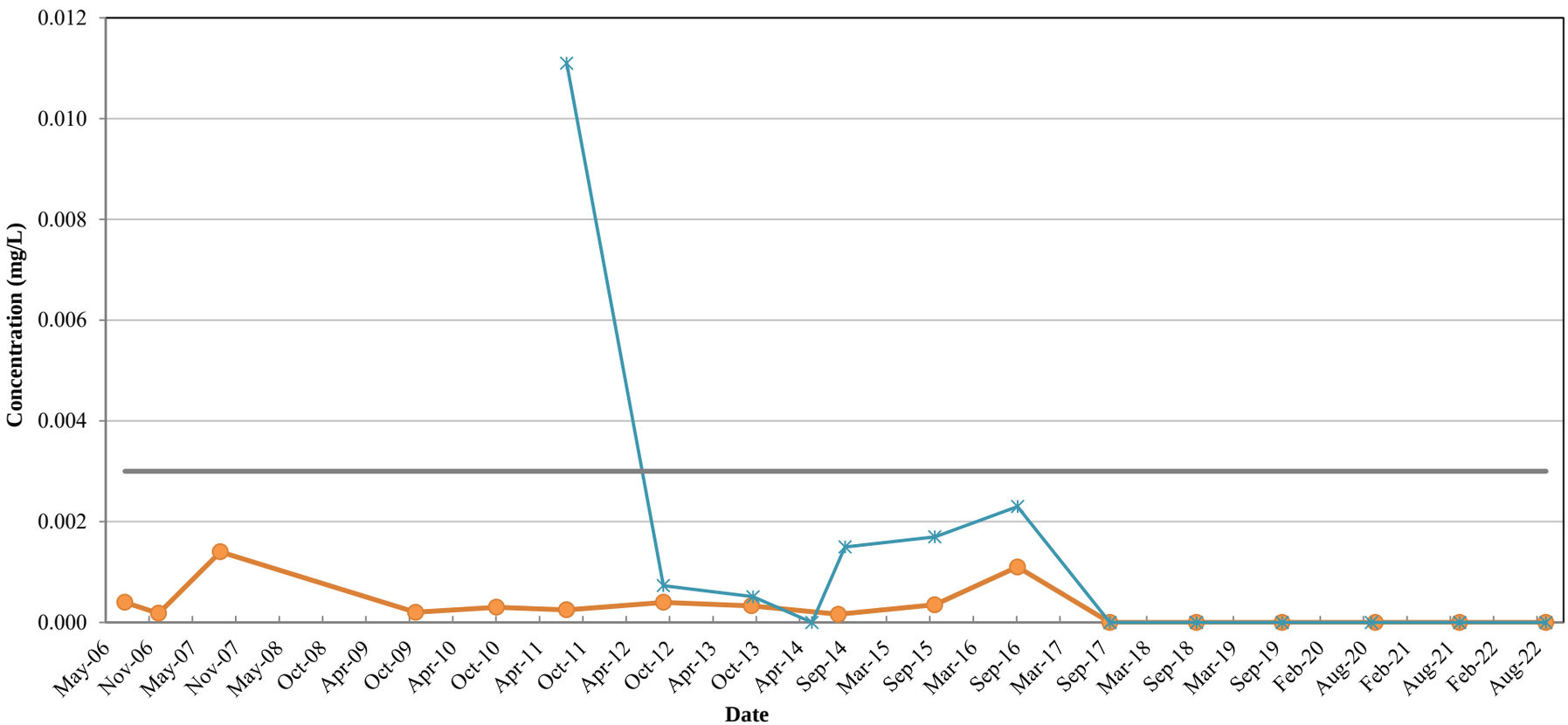
1,4-dioxane Concentration Trends

LOCATION:

Honeywell Altift Landfill
Buffalo NY, Site No. 915054

MACTEC

PREPARED	RTB	FIGURE
CHECKED BY	BJR	
PROJECT#	3616216168	9
DATE	4-25-23	



Notes:

mg/L = miligrams per liter

MW-02 Sump 1 Sump 2 Sump 3 Sump 4 NYSDEC Standard

TITLE:

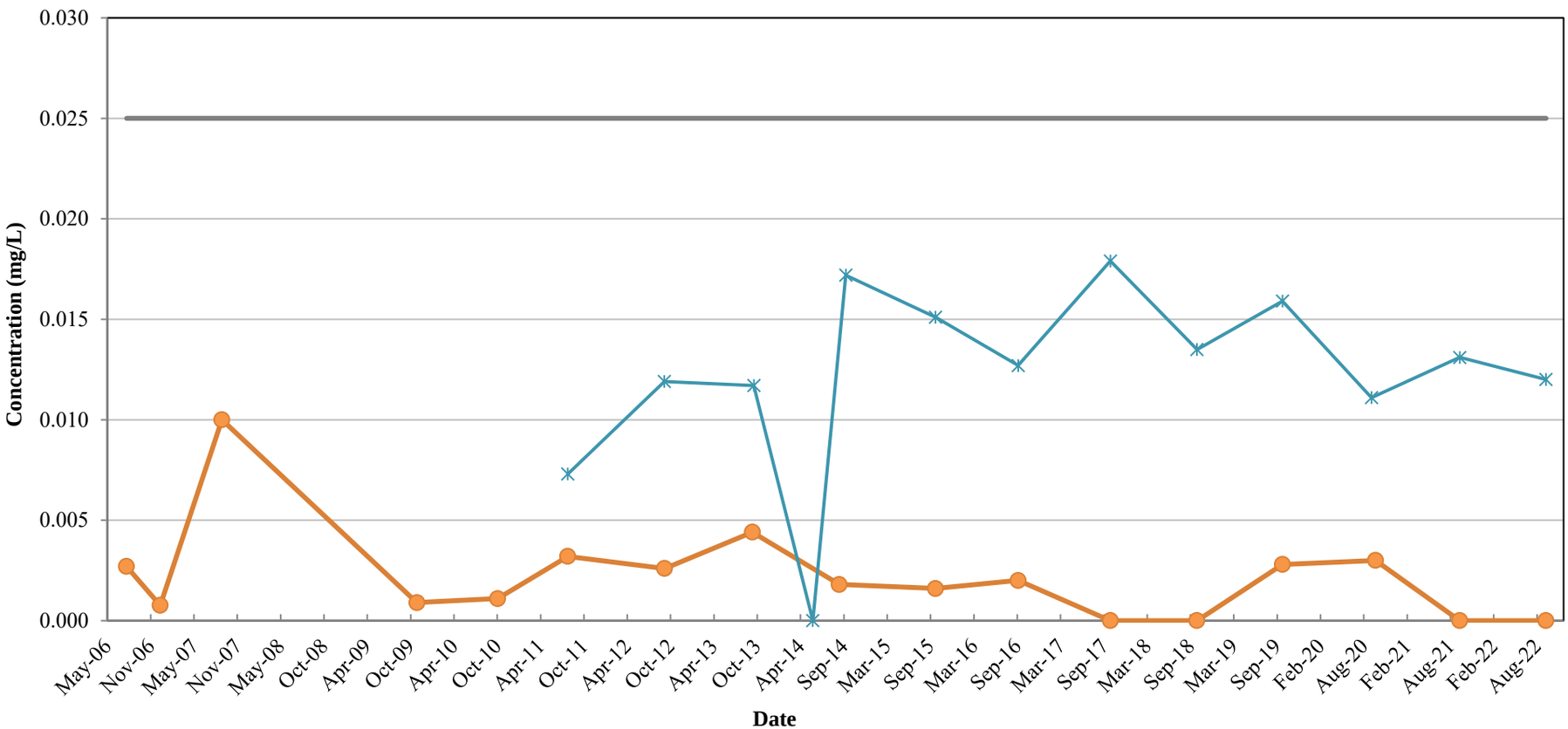
Antimony Concentration Trends

LOCATION:

Honeywell Altift Landfill
Buffalo NY, Site No. 915054

MACTEC

PREPARED	RTB	FIGURE
CHECKED BY	BJR	
PROJECT#	3616216168	10
DATE	4-25-23	



Notes:

mg/L = miligrams per liter

MW-02 Sump 1 Sump 2

Sump 3 Sump 4 NYSDEC Standard

TITLE:

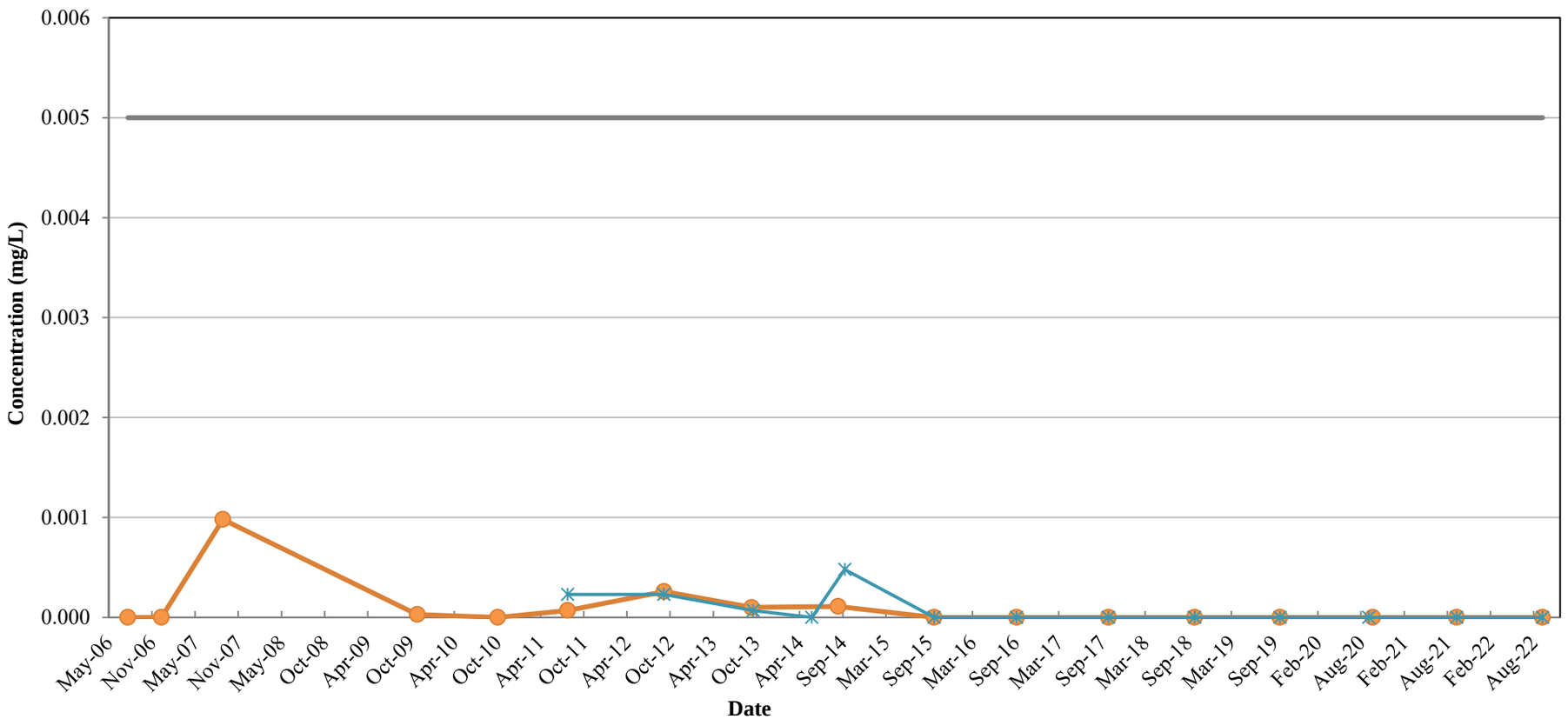
Arsenic Concentration Trends

LOCATION:

Honeywell Altift Landfill
Buffalo NY, Site No. 915054

MACTEC

PREPARED	RTB	FIGURE
CHECKED BY	BJR	
PROJECT#	3616216168	11
DATE	4-25-23	



Notes:

mg/L = miligrams per liter

MW-02 Sump 1 Sump 2

Sump 3 Sump 4 NYSDEC Standard

TITLE:

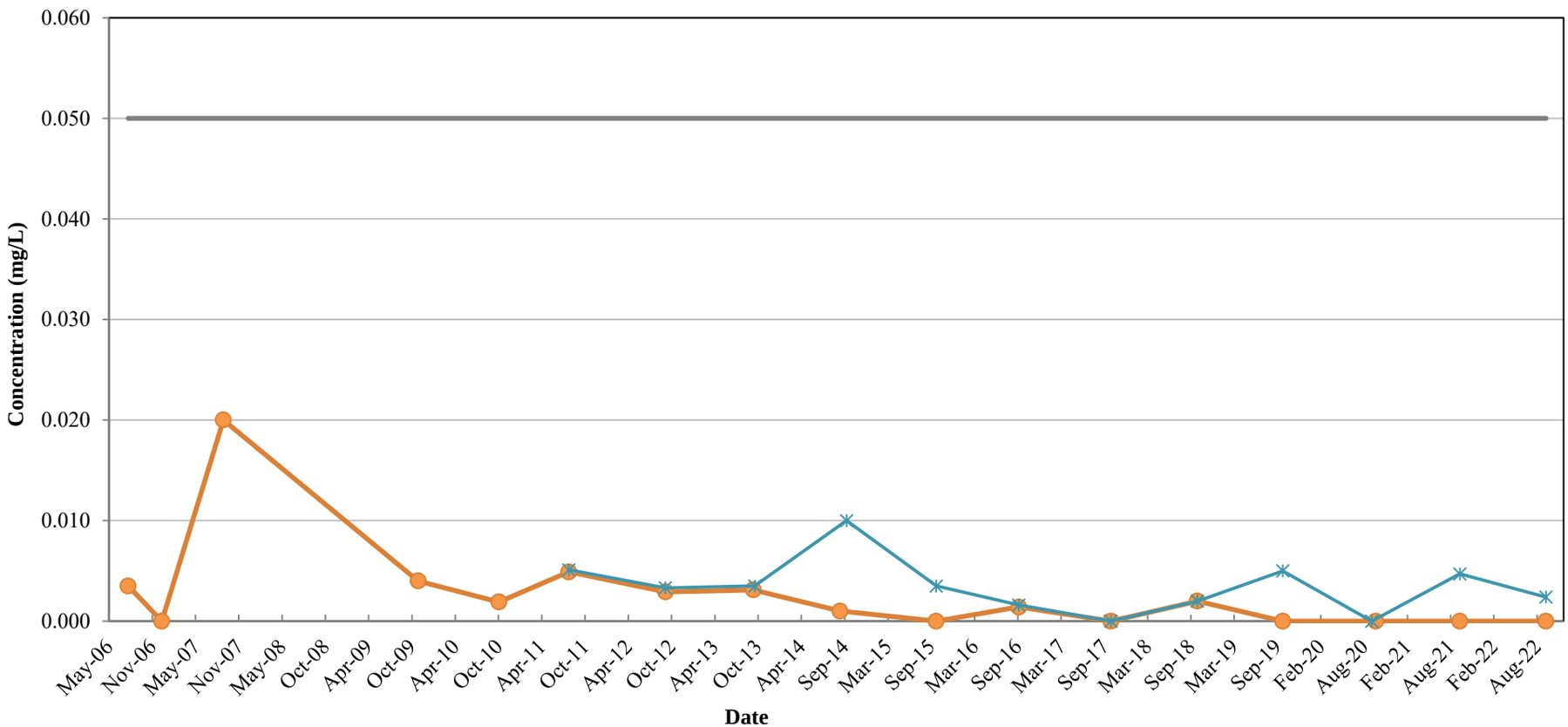
Cadmium Concentration Trends

LOCATION:

Honeywell Altift Landfill
Buffalo NY, Site No. 915054

MACTEC

PREPARED	RTB	FIGURE
CHECKED BY	BJR	
PROJECT#	3616216168	12
DATE	4-25-23	



Notes:

mg/L = miligrams per liter

MW-02 Sump 1 Sump 2

Sump 3 Sump 4 NYSDEC Standard

TITLE:

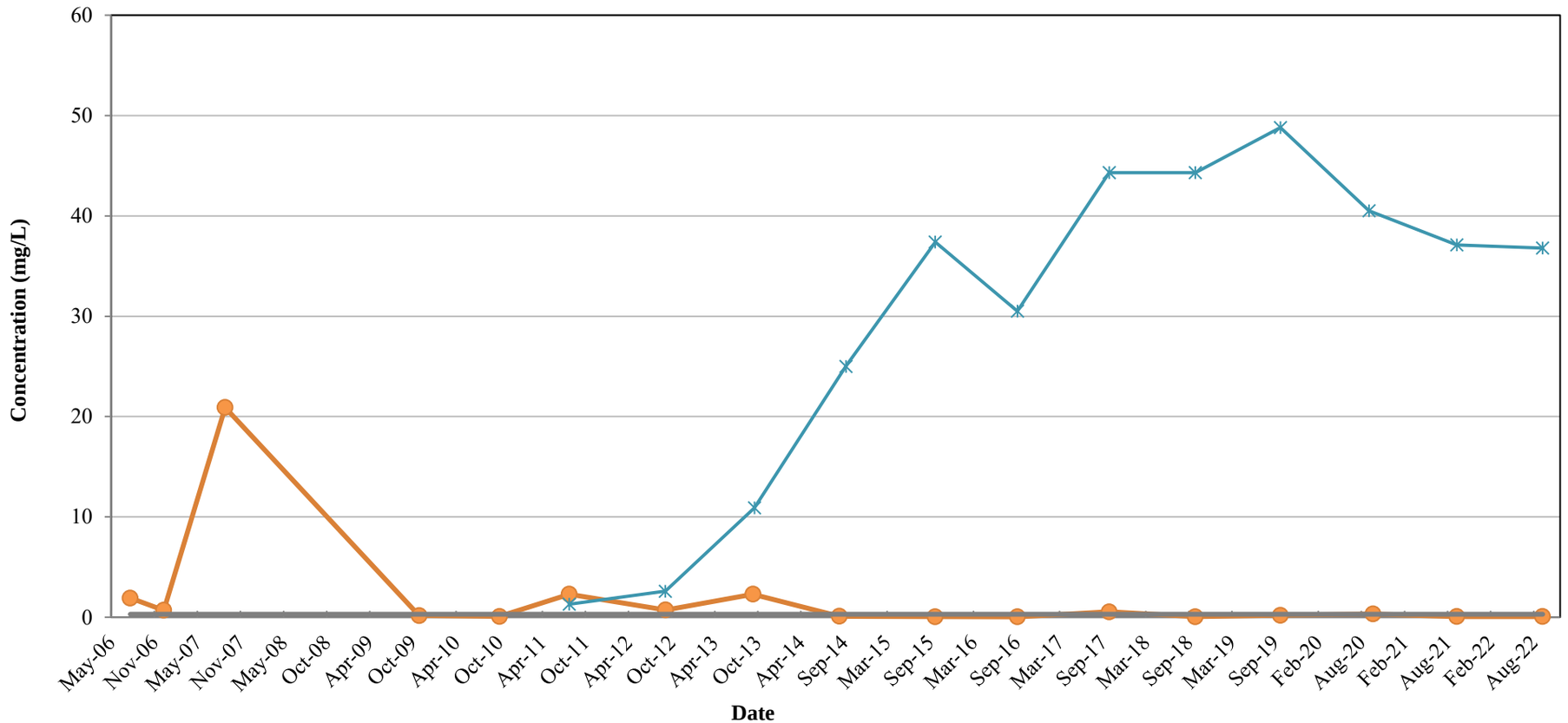
Chromium Concentration Trends

LOCATION:

Honeywell Altift Landfill
Buffalo NY, Site No. 915054

MACTEC

PREPARED	RTB	FIGURE
CHECKED BY	BJR	
PROJECT#	3616216168	13
DATE	4-25-23	



Notes:

mg/L = miligrams per liter

MW-02 Sump 1 Sump 2

Sump 3 Sump 4 NYSDEC Standard

TITLE:

Iron Concentration Trends

LOCATION:

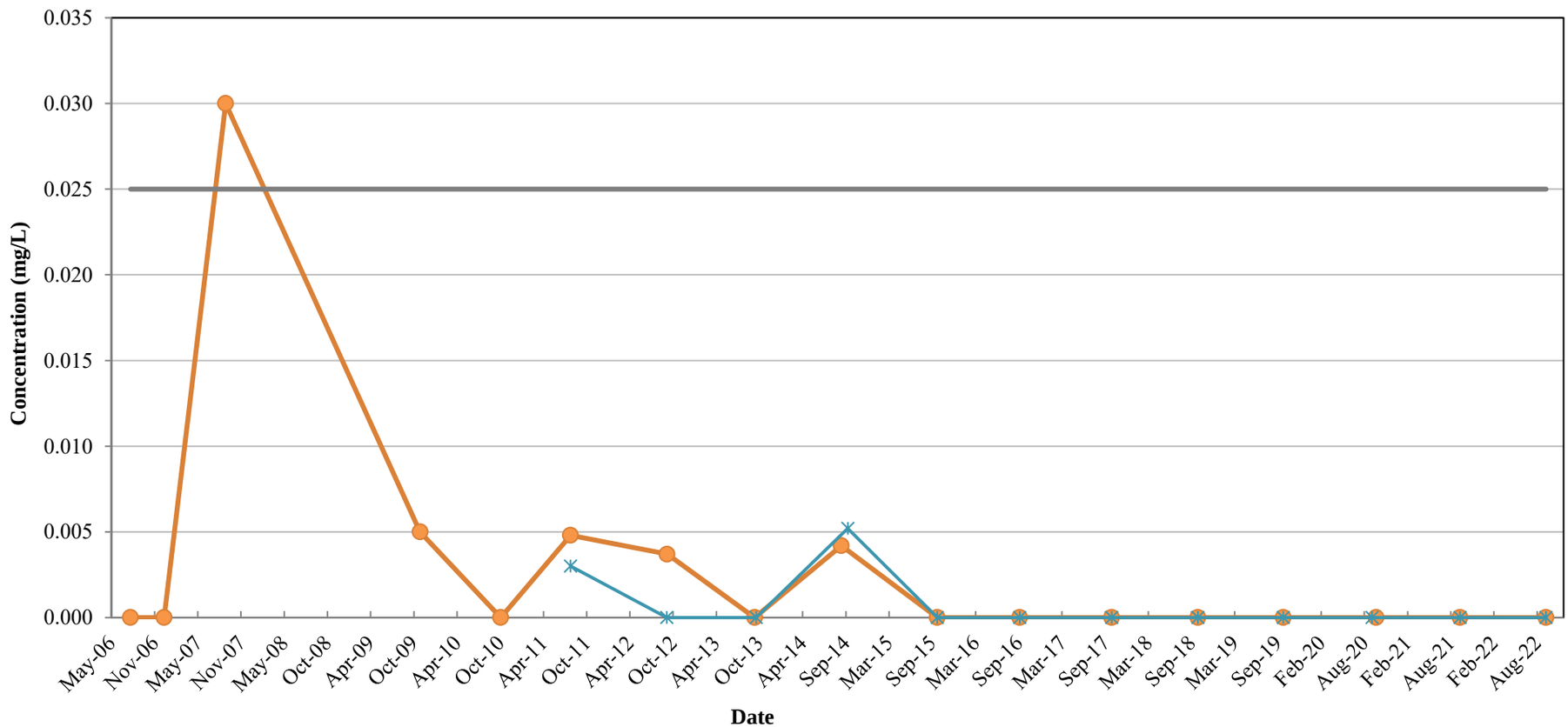
Honeywell Altift Landfill
Buffalo NY, Site No. 915054

MACTEC

PREPARED	RTB
CHECKED BY	BJR
PROJECT#	3616216168
DATE	4-25-23

FIGURE

14



Notes:

mg/L = miligrams per liter

MW-02 Sump 1 Sump 2 Sump 3 Sump 4 NYSDEC Standard

TITLE:

Lead Concentration Trends

LOCATION:

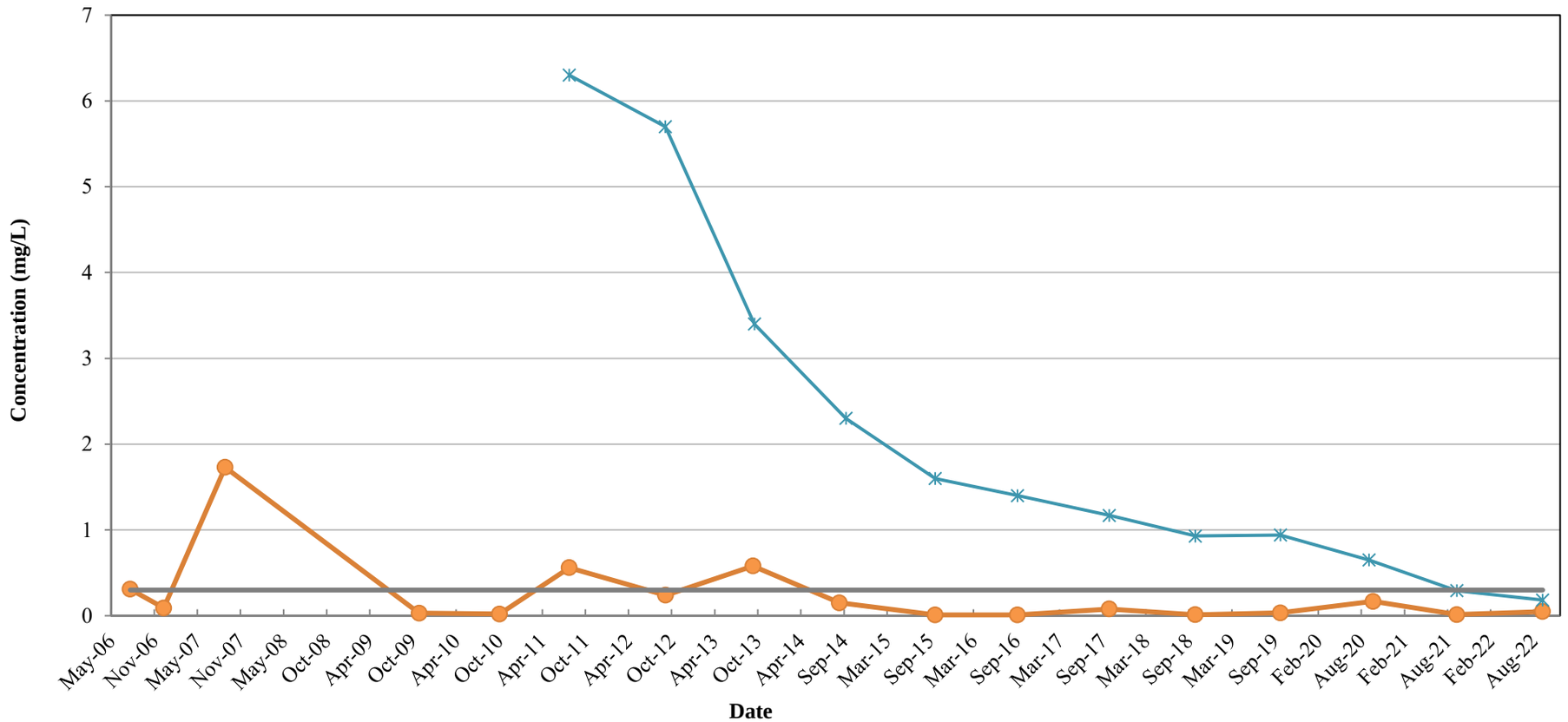
Honeywell Altift Landfill
Buffalo NY, Site No. 915054

MACTEC

PREPARED	RTB
CHECKED BY	BJR
PROJECT#	3616216168
DATE	4-25-23

FIGURE

15



Notes:

mg/L = miligrams per liter

MW-02 Sump 1 Sump 2
Sump 3 Sump 4 NYSDEC Standard

TITLE:

Manganese Concentration Trends

LOCATION:

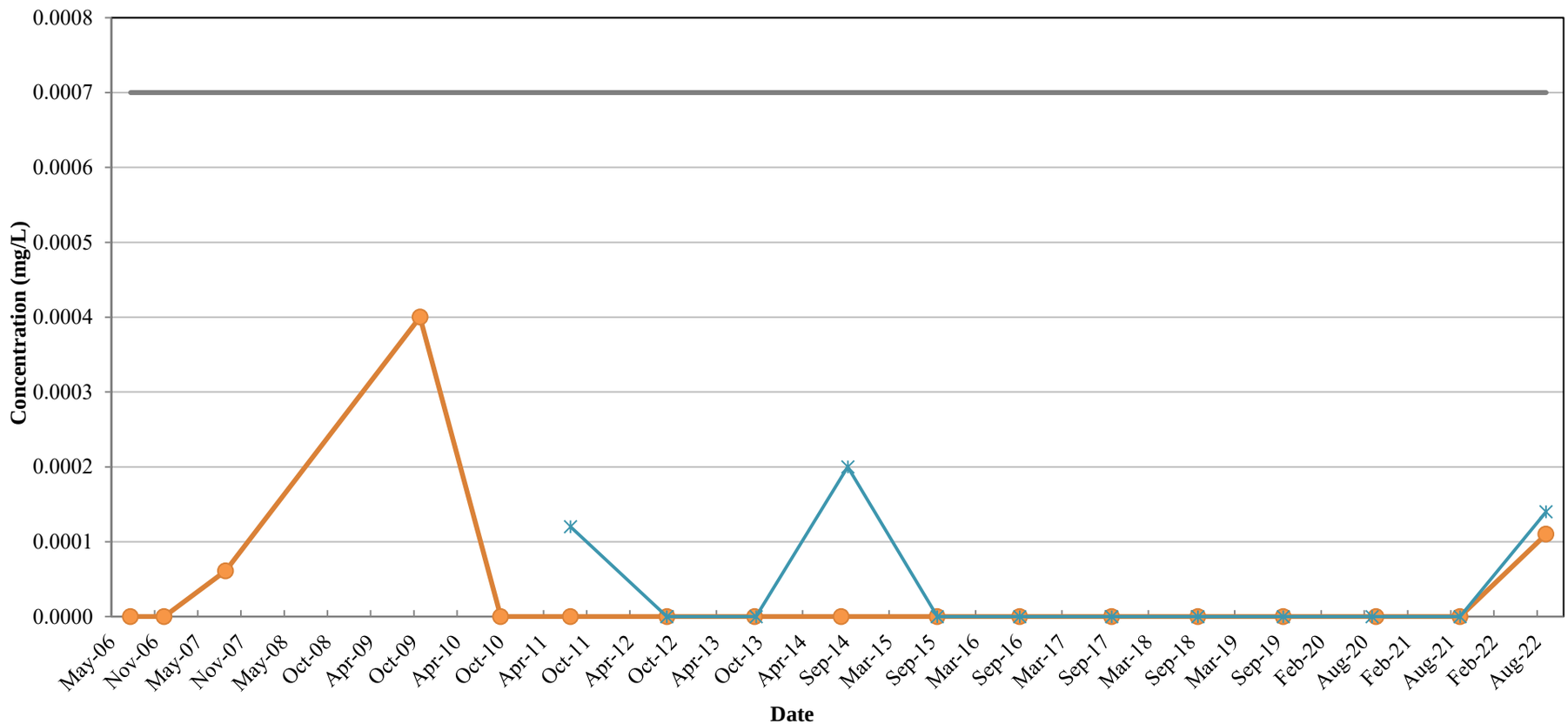
Honeywell Altift Landfill
Buffalo NY, Site No. 915054

MACTEC

PREPARED	RTB
CHECKED BY	BJR
PROJECT#	3616216168
DATE	4-25-23

FIGURE

16



Notes:

mg/L = miligrams per liter

MW-02 Sump 1 Sump 2

Sump 3 Sump 4 NYSDEC Standard

TITLE:

Mercury Concentration Trends

LOCATION:

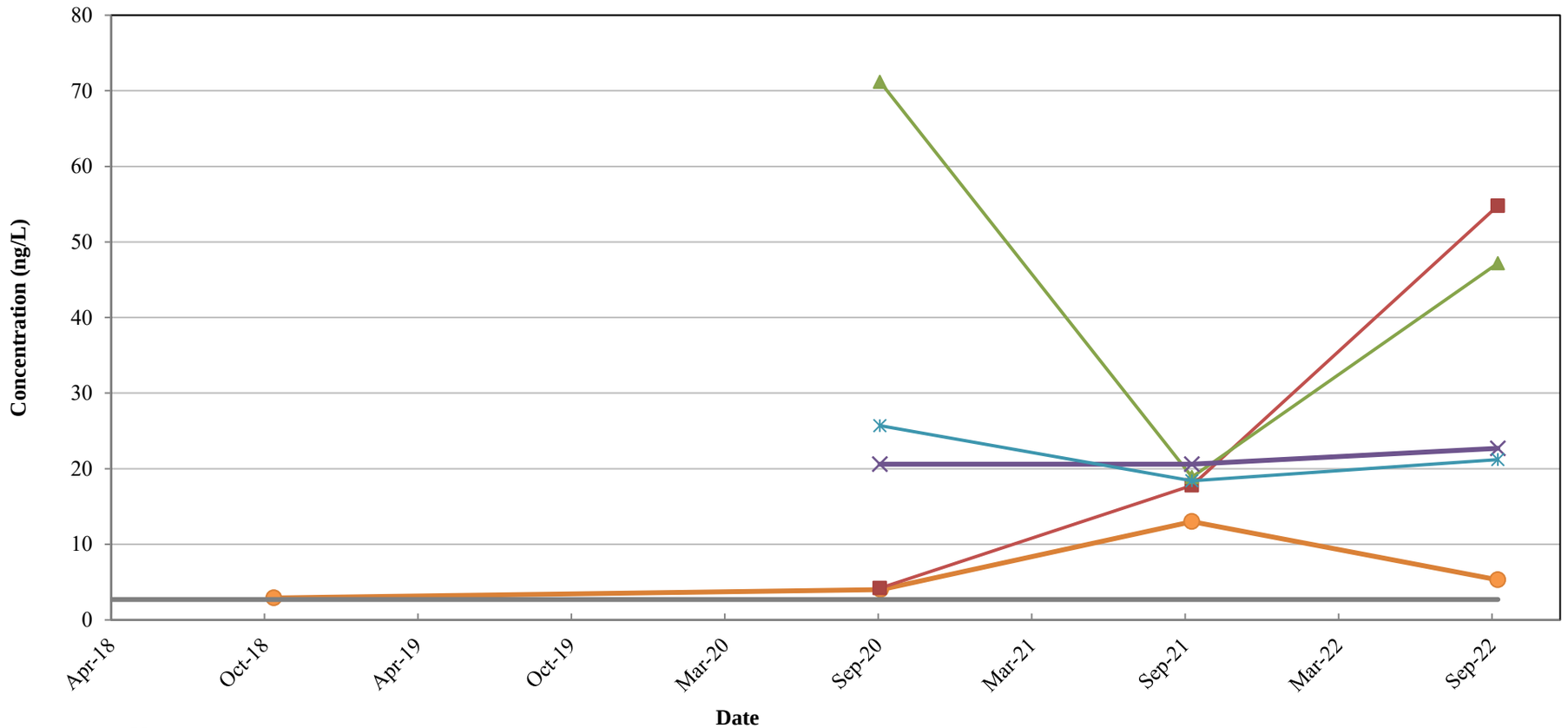
Honeywell Altift Landfill
Buffalo NY, Site No. 915054

MACTEC

PREPARED	RTB
CHECKED BY	BJR
PROJECT#	3616216168
DATE	4-25-23

FIGURE

17



Notes:

ng/L = nanograms per liter

MW-02 Sump 1 Sump 2

Sump 3 Sump 4 NYSDEC Standard

TITLE:

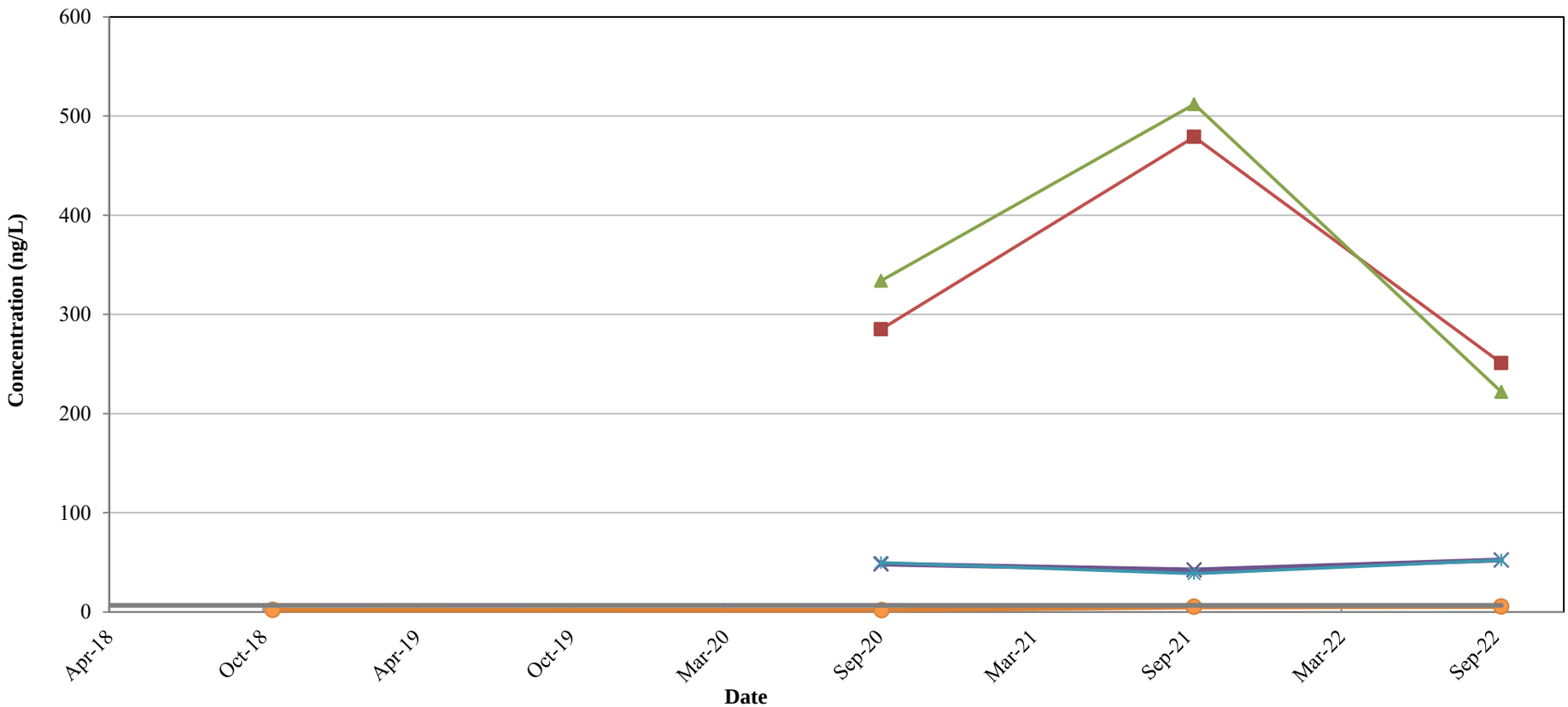
Perfluorooctane sulfonic acid (PFOS) Concentration Trends

LOCATION:

Honeywell Altift Landfill
Buffalo NY, Site No. 915054

MACTEC

PREPARED	RTB	FIGURE
CHECKED BY	BJR	
PROJECT#	3616216168	18
DATE	4-25-23	



Notes:

ng/L = nanograms per liter

MW-02 Sump 1 Sump 2

Sump 3 Sump 4 NYSDEC Standard

TITLE:

Perfluorooctanoic acid (PFOA) Concentration Trends

LOCATION:

Honeywell Altift Landfill
Buffalo NY, Site No. 915054

MACTEC

PREPARED	RTB
CHECKED BY	BJR
PROJECT#	3616216168
DATE	4-25-23

FIGURE

19

ATTACHMENT B.9

LANDFILL GAS MONITORING RESULTS

TABLE 2
Landfill Gas Monitoring Data - 2013 through 2023
2022/2023 Annual OM&M Report
Alltift Landfill/Ramco Steel Site

Location:	First Quarter - 1/10/2013					Second Quarter - 5/21/2013					Third Quarter - 9/11/2013					Fourth Quarter - 10/24/2013					2014 - 3/18/2014					2015 - 3/12/2015				
	CH_4	CO_2	O_2	Balance O_2	LEL CH_4	CH_4	CO_2	O_2	Balance O_2	LEL CH_4	CH_4	CO_2	O_2	Balance O_2	LEL CH_4	CH_4	CO_2	O_2	Balance O_2	LEL CH_4	CH_4	CO_2	O_2	Balance O_2	LEL CH_4	CH_4	CO_2	O_2	Balance O_2	LEL CH_4
GV-1	0.1%	0%	21.4%	78.5%	3%	0%	0%	20.3%	79.9%	0%	0%	0%	20.9%	79.4%	1%	0%	0%	21.1%	78.6%	1%	0.1%	0.1%	19.1%	80.5%	1%	0%	0.1%	21.7%	78.2%	1%
GV-2	0.1%	0%	21.3%	78.6%	3%	0%	0%	20.2%	79.8%	1%	0%	0%	20.4%	79.4%	2%	0%	0.1%	20.8%	78.9%	2%	0.1%	0.1%	18.9%	80.7%	2%	0%	0.1%	21.6%	78.3%	1%
GV-3	0.1%	0%	21.2%	78.4%	4%	0%	0%	20.2%	79.8%	0%	0%	0%	16.7%	83.3%	0%	0%	0.9%	20.1%	79.2%	0%	0.1%	0.1%	19.2%	80.4%	2%	0.1%	0.1%	21.9%	78%	1%
Ground #1	0.2%	0%	21.5%	78.5%	4%	0.1%	0%	20.4%	79.5%	2%	0.1%	0%	20.4%	79.2%	2%	0%	0.1%	20.9%	78.9%	0%	0.3%	0.2%	18.5%	80.9%	4%	0%	0.1%	20.8%	79.1%	1%
Ground #2	0.2%	0%	21.3%	78.5%	4%	0.1%	0%	20.3%	79.6%	1%	0%	0%	20.6%	79.4%	0%	0%	0.1%	20.9%	79%	0%	0.2%	0.2%	18.7%	80.7%	4%	0%	0.1%	21.8%	78.1%	1%
Ground #3	0.2%	0%	21.3%	78.6%	3%	0%	0%	20.3%	79.7%	1%	0%	0%	20.4%	79.4%	0%	0%	0.1%	20.8%	79%	0%	0.2%	0.2%	18.6%	81.0%	4%	0%	0.1%	21.7%	78.2%	1%
Ground #4	0.2%	0%	21.3%	78.6%	3%	0%	0%	20.3%	79.7%	2%	0%	0%	20.7%	79.2%	0%	0%	0%	21.0%	78.9%	0%	0%	0.1%	19.6%	80.1%	3%	0%	0.1%	21.8%	78.1%	1%
Sump #1	0.2%	0%	21.4%	78.4%	4%	0.0%	0%	20.4%	79.6%	1%	0%	0%	21.2%	78.8%	0%	0%	0.1%	20.9%	78.9%	0%	0%	0%	20.4%	79.6%	0%	0.1%	0.1%	20.9%	78.9%	1%
Sump #2	0.2%	0%	21.3%	78.6%	4%	0.2%	0.1%	20.2%	79.5%	4%	0.7%	17%	0.6%	80.6%	15%	0%	0.1%	20.8%	78.8%	0%	0.2%	0.4%	18.7%	80.6%	2%	0%	0.1%	21.4%	78.5%	1%
Sump #3	0.2%	0%	21.2%	78.6%	3%	0.1%	0%	20.3%	79.6%	2%	0%	0%	20.4%	79.4%	0%	0%	0.1%	20.9%	79%	0%	0.1%	0.2%	18.9%	80.8%	3%	0%	0.1%	21.8%	78.1%	1%
Sump #4	0.1%	0%	21.1%	78.3%	3%	0%	0%	20.3%	79.7%	1%	0.1%	0.1%	19.9%	80.0%	0%	0%	0.1%	20.8%	79.1%	0%	0.2%	0.2%	18.7%	80.9%	4%	0%	0.1%	21.8%	78.1%	1%

Notes:
Ground 1 - Monitoring location in the Northwest corner of Landfill
Ground 2 - Monitoring location on the West side of Landfill
Ground 3 - Monitoring location in the Southeast corner of Landfill
Ground 4 - Monitoring location in the Northeast corner of Landfill
LEL - Lower Explosive Limit
CH4 - Methane
CO2 - Carbon Dioxide
O2 - Oxygen
Landfill Gas Monitoring Frequency revised, as approved, to Annual starting in 2014.

Created By:HTS/AB/ 4/24/2023
Checked By:RTB 4/24/2023

TABLE 2
Landfill Gas Monitoring Data - 2013 through 2023
2022/2023 Annual OM&M Report
Alltift Landfill/Ramco Steel Site

Location:	2016 - 4/7/2016					2017 - 7/18/2017					2018 - 4/25/2018					2019 - 5/7/2019					2020 - 4/1/2020				
	CH_4	CO_2	O_2	Balance 0_2	LEL CH_4	CH_4	CO_2	O_2	Balance 0_2	LEL CH_4	CH_4	CO_2	O_2	Balance 0_2	LEL CH_4	CH_4	CO_2	O_2	Balance 0_2	LEL CH_4	CH_4	CO_2	O_2	Balance 0_2	LEL CH_4
GV-1	0%	0.1%	21.0%	78.9%	1%	0%	0%	20.2%	79.8%	0%	0%	1.6%	14.4%	83.8%	0%	0.2%	0%	21.2%	78.6%	2%	0%	0%	21.4%	78.6%	1%
GV-2	0%	0.1%	21.1%	78.8%	1%	0%	0%	20.2%	79.8%	0%	0%	0%	21.0%	79.8%	0%	0.1%	0%	21.2%	78.5%	2%	0%	0%	21.4%	78.6%	1%
GV-3	0%	0.1%	21.1%	78.8%	1%	0%	0%	20.3%	79.7%	0%	16.7%	5.5%	5.4%	72.4%	0%	0.1%	0%	21.1%	78.6%	2%	0%	0%	21.4%	78.6%	1%
Ground #1	0%	0.1%	21.0%	78.9%	1%	0%	0%	20.9%	79.1%	0%	0%	0%	20.9%	79.1%	0%	0.0%	0.1%	21.0%	78.9%	2%	0%	0%	21.3%	78.7%	1%
Ground #2	0%	0.1%	21.1%	78.8%	1%	0%	0%	20.7%	79.3%	0%	0%	0%	20.9%	79.1%	0%	0.1%	0%	20.9%	78.9%	2%	0%	0%	21.3%	78.6%	1%
Ground #3	0%	0.1%	21.1%	78.8%	1%	0%	0%	20.6%	79.4%	0%	0%	0%	20.9%	79.1%	0%	0.1%	0%	20.9%	78.8%	2%	0%	0%	21.4%	78.6%	1%
Ground #4	0%	0.1%	21.1%	78.8%	1%	0%	0%	20.4%	79.6%	0%	0%	0%	20.8%	79.2%	0%	0.1%	0%	20.9%	78.8%	2%	0%	0%	21.5%	78.5%	1%
Sump #1	0.1%	0.1%	21.0%	78.9%	1%	0%	0%	20.8%	79.2%	0%	0%	0%	20.9%	79.1%	0%	0.1%	0.4%	20.8%	78.6%	7%	0.3%	0%	22.1%	78.5%	6%
Sump #2	0%	0.1%	21.0%	78.9%	1%	0%	0%	20.6%	79.4%	0%	0%	0%	20.9%	79.1%	0%	0.1%	0.1%	20.9%	78.9%	2%	0%	0%	21.4%	78.6%	1%
Sump #3	0%	0.1%	21.1%	78.8%	1%	0%	0%	20.5%	79.5%	0%	0%	0%	20.9%	79.1%	0%	0.1%	0%	21.0%	78.8%	2%	0%	0%	21.4%	78.6%	1%
Sump #4	0%	0.1%	21.1%	78.8%	1%	0%	0%	20.3%	79.7%	0%	0%	0%	20.8%	79.2%	0%	0.1%	0%	21.0%	78.8%	3%	0%	0%	21.4%	78.6%	1%

Notes: **Notes:**
Ground 1 - Mc Ground 1 - Monitoring location in the Northwest corner of Landfill
Ground 2 - Mc Ground 2 - Monitoring location on the West side of Landfill
Ground 3 - Mc Ground 3 - Monitoring location in the Southeast corner of Landfill
Ground 4 - Mc Ground 4 - Monitoring location in the Northeast corner of Landfill
LEL - Lower Ex LEL - Lower Explosive Limit
CH4 - Methan CH4 - Methane
CO2 - Carbon I CO2 - Carbon Dioxide
O2 - Oxygen O2 - Oxygen
Landfill Gas M Landfill Gas Monitoring Frequency revised, as approved, to Annual starting in 2014.

Created By:HTS/AB/ 4/24/2023
Checked By:RTB 4/24/2023

TABLE 2
Landfill Gas Monitoring Data - 2013 through 2023
2022/2023 Annual OM&M Report
Alltift Landfill/Ramco Steel Site

Location:	2021 - 4/8/2021					2022 - 5/2/2022					2023 - 3/8/2023				
	CH_4	CO_2	O_2	Balance 0_2	LEL CH_4	CH_4	CO_2	O_2	Balance 0_2	LEL CH_4*	CH_4	CO_2	O_2	Balance 0_2	LEL CH_4*
GV-1	0%	0%	21.4%	78.6%	1.0%	0.7%	3.3%	13.4%	82.6%	0.1%	0%	0%	20.9%	79.1%	0%
GV-2	0%	0%	21.4%	78.6%	1.0%	0.5%	2.7%	16.2%	81.4%	0.1%	0%	0%	20.8%	79.2%	0%
GV-3	0%	0%	21.4%	78.6%	1.0%	0%	1.0%	18.9%	80.1%	0%	0%	0%	20.8%	79.1%	0%
Ground #1	0%	0%	21.3%	78.7%	2.0%	0%	0.1%	21.1%	78.8%	0%	0%	0%	20.9%	79.1%	0%
Ground #2	0%	0%	21.3%	78.6%	0%	0%	0.1%	21.2%	78.6%	0%	0%	0%	20.9%	79.3%	0%
Ground #3	0%	0%	20.8%	79%	0.1%	0%	0.0%	21.0%	79%	0%	0%	0%	20.9%	79.1%	0%
Ground #4	0%	0.1%	22.0%	78%	1.0%	0%	0.0%	21.1%	78.9%	0%	0%	0%	20.9%	79.1%	0%
Sump #1	0%	0.1%	19.7%	80.2%	0%	0%	0.0%	20.2%	79.7%	0%	0%	0%	20.8%	79.2%	0%
Sump #2	0%	0.1%	19.0%	80.1%	0%	0%	0.2%	20.2%	79.6%	0%	0%	0%	20.7%	79.1%	0%
Sump #3	0%	0.1%	19.6%	80.1%	0%	0%	0.0%	20.4%	79.5%	0%	0%	0%	20.9%	79.1%	0%
Sump #4	0%	0.1%	19.8%	80.2%	0%	0%	0.0%	20.5%	79.5%	0%	0%	0.0%	21%	79.3%	0%

Notes: **Notes:**
Ground 1 - Mc Ground 1 - Monitoring location in the Northwest corner of Landfill
Ground 2 - Mc Ground 2 - Monitoring location on the West side of Landfill
Ground 3 - Mc Ground 3 - Monitoring location in the Southeast corner of Landfill
Ground 4 - Mc Ground 4 - Monitoring location in the Northeast corner of Landfill
LEL - Lower Ex LEL - Lower Explosive Limit
CH4 - Methan CH4 - Methane
CO2 - Carbon I CO2 - Carbon Dioxide
O2 - Oxygen O2 - Oxygen
Landfill Gas M Landfill Gas Monitoring frequency revised, as approved, to annual starting in 2014.
*2022 and 2023 LEL CH_4 values presented are calculated, as the instrument used did not provide this parameter value.

Created By:HTS/AB/ 4/24/2023
Checked By:RTB 4/24/2023

ATTACHMENT B.10

SOIL IMPORT DOCUMENTATION

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Commercial or Industrial Use

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 0-50

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? no

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? no

Is this virgin material from a permitted mine or quarry? no

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Representative composite soil samples were containerized in one non-preserved 8oz wide-mouth amber jar, two 10mL DI-preserved 40mL VOAs, and one 10mL methanol-preserved 40mL VOA. The samples were analyzed for VOCs, SVOCs, TAL Metals + Cn, Pesticides, PCBs, and PFAS.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.4(e)5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

See attached analytical results and evaluation table.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Ben Hendry (Jacobs) / Relationship: Customer

Location where fill was obtained:

Woodlands Earth and Stone in Tonawanda, New York

Identification of any state or local approvals as a fill source:

n/a

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Commercial business providing landscaping products including topsoil, mulch, and decorative stone for residential and commercial consumer landscaping, contracting, and/or plumbing projects.

Provide a list of supporting documentation included with this request:

Evaluation table; Analytical Report

The information provided on this form is accurate and complete.

Signature

06/27/22

Date

Michael J. Fay

Print Name

Jacobs

Firm

SGS Dayton, NJ		6/24/2022 8:22
Job Number:	**JD46224**	
Account:	**Honeywell International Inc. OMM work**	
Project:	**HLAME: 30130-Alltift Landfill, 579 Tifft Street,**	
Project Number:	**PO#A000804776**	
	Legend:	Hit

Client Sample ID:		**ALLTIFT-060722-SOIL**	**ALLTIFT-060722-SOIL**	**DER-10 Appendix 5 Commercial/ Industrial Criteria**	**PFAS Guidance Values - Commercial Use**	**CP-51 Supplemental Soil Cleanup Objectives - Commercial Use**	**CP-51 Supplemental Soil Cleanup Objectives - Industrial Use**
Lab Sample ID:		**JD46224-1**	**JD46224-1A**				
Date Sampled:		**6/7/2022**	**6/7/2022**				
Matrix:		**Soil**	**Soil**				
MS Volatiles (SW846 8260D)							
Acetone	ug/kg	ND (4.3)	-	50		NC	NC
Benzene	ug/kg	ND (0.47)	-	60		NC	NC
Bromochloromethane	ug/kg	ND (0.58)	-	NC		NC	NC
Bromodichloromethane	ug/kg	ND (0.45)	-	NC		NC	NC
Bromoform	ug/kg	ND (1.4)	-	NC		NC	NC
Bromomethane	ug/kg	ND (0.80)	-	NC		NC	NC
2-Butanone (MEK)	ug/kg	ND (2.5)	-	120		NC	NC
Carbon disulfide	ug/kg	ND (0.56)	-	NC		NC	NC
Carbon tetrachloride	ug/kg	ND (0.64)	-	760		NC	NC
Chlorobenzene	ug/kg	ND (0.48)	-	1100		NC	NC
Chloroethane	ug/kg	ND (0.62)	-	NC		NC	NC
Chloroform	ug/kg	ND (0.54)	-	370		NC	NC
Chloromethane	ug/kg	ND (2.0)	-	NC		NC	NC
Cyclohexane	ug/kg	ND (0.68)	-	NC		NC	NC
1,2-Dibromo-3-chloropropane	ug/kg	ND (0.72)	-	NC		NC	NC
Dibromochloromethane	ug/kg	ND (0.58)	-	NC		NC	NC
1,2-Dibromoethane	ug/kg	ND (0.44)	-	NC		NC	NC
1,2-Dichlorobenzene	ug/kg	ND (0.57)	-	1100		NC	NC
1,3-Dichlorobenzene	ug/kg	ND (0.52)	-	2400		NC	NC
1,4-Dichlorobenzene	ug/kg	ND (0.51)	-	1800		NC	NC
Dichlorodifluoromethane	ug/kg	ND (0.76)	-	NC		NC	NC
1,1-Dichloroethane	ug/kg	ND (0.52)	-	270		NC	NC
1,2-Dichloroethane	ug/kg	ND (0.49)	-	20		NC	NC
1,1-Dichloroethene	ug/kg	ND (0.68)	-	330		NC	NC
cis-1,2-Dichloroethene	ug/kg	ND (0.88)	-	250		NC	NC
trans-1,2-Dichloroethene	ug/kg	ND (0.64)	-	190		NC	NC
1,2-Dichloropropane	ug/kg	ND (0.49)	-	NC		NC	NC
cis-1,3-Dichloropropene	ug/kg	ND (0.49)	-	NC		NC	NC
trans-1,3-Dichloropropene	ug/kg	ND (0.48)	-	NC		NC	NC
Ethylbenzene	ug/kg	ND (0.47)	-	1000		NC	NC
Freon 113	ug/kg	ND (2.8)	-	NC		NC	NC
2-Hexanone	ug/kg	ND (2.2)	-	NC		NC	NC
Isopropylbenzene	ug/kg	ND (1.5)	-	NC		NC	NC
Methyl Acetate	ug/kg	ND (1.4)	-	NC		NC	NC
Methylcyclohexane	ug/kg	ND (0.91)	-	NC		NC	NC
Methyl Tert Butyl Ether	ug/kg	ND (0.49)	-	930		NC	NC
4-Methyl-2-pentanone(MIBK)	ug/kg	ND (2.4)	-	NC		NC	NC
Methylene chloride	ug/kg	ND (2.7)	-	50		NC	NC
Styrene	ug/kg	ND (0.42)	-	NC		NC	NC
1,1,2,2-Tetrachloroethane	ug/kg	ND (0.62)	-	NC		NC	NC
Tetrachloroethene	ug/kg	ND (0.60)	-	1300		NC	NC
Toluene	ug/kg	ND (0.55)	-	700		NC	NC
1,2,3-Trichlorobenzene	ug/kg	ND (2.6)	-	NC		NC	NC
1,2,4-Trichlorobenzene	ug/kg	ND (2.6)	-	NC		NC	NC
1,1,1-Trichloroethane	ug/kg	ND (0.50)	-	680		NC	NC
1,1,2-Trichloroethane	ug/kg	ND (0.58)	-	NC		NC	NC
Trichloroethene	ug/kg	ND (0.79)	-	470		NC	NC
Trichlorofluoromethane	ug/kg	ND (0.71)	-	NC		NC	NC
Vinyl chloride	ug/kg	ND (0.50)	-	20		NC	NC
m,p-Xylene	ug/kg	ND (0.93)	-	1600		NC	NC
o-Xylene	ug/kg	ND (0.48)	-	1600		NC	NC
Xylene (total)	ug/kg	ND (0.48)	-	1600		NC	NC
MS Semi-volatiles (EPA 537M BY ID)							
Perfluorobutanoic acid	ug/kg	-	ND (0.44)		NC	NC	NC
Perfluoropentanoic acid	ug/kg	-	ND (0.29)		NC	NC	NC
Perfluorohexanoic acid	ug/kg	-	ND (0.29)		NC	NC	NC
Perfluoroheptanoic acid	ug/kg	-	ND (0.29)		NC	NC	NC
Perfluorooctanoic acid	ug/kg	-	0.47 J		500	NC	NC
Perfluorononanoic acid	ug/kg	-	ND (0.29)		NC	NC	NC
Perfluorodecanoic acid	ug/kg	-	ND (0.29)		NC	NC	NC
Perfluoroundecanoic acid	ug/kg	-	ND (0.29)		NC	NC	NC
Perfluorododecanoic acid	ug/kg	-	ND (0.29)		NC	NC	NC
Perfluorotridecanoic acid	ug/kg	-	ND (0.31)		NC	NC	NC
Perfluorotetradecanoic acid	ug/kg	-	ND (0.29)		NC	NC	NC
Perfluorobutanesulfonic acid	ug/kg	-	ND (0.29)		NC	NC	NC
Perfluorohexanesulfonic acid	ug/kg	-	ND (0.29)		NC	NC	NC
Perfluoroheptanesulfonic acid	ug/kg	-	ND (0.29)		NC	NC	NC
Perfluorooctanesulfonic acid	ug/kg	-	0.29 J		440	NC	NC

SGS Dayton, NJ		6/24/2022 8:22
Job Number:	JD46224	
Account:	Honeywell International Inc. OMM work	
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street,	
Project Number:	PO#A000804776	
	Legend:	Hit

Client Sample ID:		ALLTIFT-060722-SOIL	ALLTIFT-060722-SOIL	DER-10 Appendix 5 Commercial/ Industrial Criteria	PFAS Guidance Values - Commercial Use	CP-51 Supplemental Soil Cleanup Objectives - Commercial Use	CP-51 Supplemental Soil Cleanup Objectives - Industrial Use
Lab Sample ID:		JD46224-1	JD46224-1A				
Date Sampled:		6/7/2022	6/7/2022				
Matrix:		Soil	Soil				
Perfluorodecanesulfonic acid	ug/kg	-	ND (0.29)		NC	NC	NC
PFOSA	ug/kg	-	ND (0.29)		NC	NC	NC
MeFOSAA	ug/kg	-	ND (0.58)		NC	NC	NC
EtFOSAA	ug/kg	-	ND (0.58)		NC	NC	NC
6:2 Fluorotelomer sulfonate	ug/kg	-	ND (0.29)		NC	NC	NC
8:2 Fluorotelomer sulfonate	ug/kg	-	ND (0.29)		NC	NC	NC
MS Semi-volatiles (SW846 8270E)							
2-Chlorophenol	ug/kg	ND (19)	-	NC		NC	NC
4-Chloro-3-methyl phenol	ug/kg	ND (24)	-	NC		NC	NC
2,4-Dichlorophenol	ug/kg	ND (33)	-	NC		NC	NC
2,4-Dimethylphenol	ug/kg	ND (68)	-	NC		NC	NC
2,4-Dinitrophenol	ug/kg	ND (140)	-	NC		NC	NC
4,6-Dinitro-o-cresol	ug/kg	ND (41)	-	NC		NC	NC
2-Methylphenol	ug/kg	ND (25)	-	330		NC	NC
3&4-Methylphenol	ug/kg	ND (32)	-	330		NC	NC
2-Nitrophenol	ug/kg	ND (25)	-	NC		NC	NC
4-Nitrophenol	ug/kg	ND (100)	-	NC		NC	NC
Pentachlorophenol	ug/kg	ND (36)	-	800		NC	NC
Phenol	ug/kg	ND (20)	-	330		NC	NC
2,3,4,6-Tetrachlorophenol	ug/kg	ND (25)	-	NC		NC	NC
2,4,5-Trichlorophenol	ug/kg	ND (29)	-	NC		NC	NC
2,4,6-Trichlorophenol	ug/kg	ND (23)	-	NC		NC	NC
Acenaphthene	ug/kg	ND (13)	-	98000		NC	NC
Acenaphthylene	ug/kg	ND (19)	-	107000		NC	NC
Acetophenone	ug/kg	ND (8.3)	-	NC		NC	NC
Anthracene	ug/kg	ND (24)	-	500000		NC	NC
Atrazine	ug/kg	ND (16)	-	NC		NC	NC
Benzo(a)anthracene	ug/kg	28.8 J	-	1000		NC	NC
Benzo(a)pyrene	ug/kg	30.8 J	-	1000		NC	NC
Benzo(b)fluoranthene	ug/kg	43.2	-	1700		NC	NC
Benzo(g,h,i)perylene	ug/kg	23.7 J	-	500000		NC	NC
Benzo(k)fluoranthene	ug/kg	ND (18)	-	1700		NC	NC
4-Bromophenyl phenyl ether	ug/kg	ND (15)	-	NC		NC	NC
Butyl benzyl phthalate	ug/kg	ND (9.4)	-	NC		NC	NC
1,1'-Biphenyl	ug/kg	ND (5.3)	-	NC		NC	NC
Benzaldehyde	ug/kg	ND (9.5)	-	NC		NC	NC
2-Chloronaphthalene	ug/kg	ND (9.1)	-	NC		NC	NC
4-Chloroaniline	ug/kg	ND (14)	-	NC		NC	NC
Carbazole	ug/kg	ND (5.6)	-	NC		NC	NC
Caprolactam	ug/kg	ND (15)	-	NC		NC	NC
Chrysene	ug/kg	32.6 J	-	1000		NC	NC
bis(2-Chloroethoxy)methane	ug/kg	ND (8.2)	-	NC		NC	NC
bis(2-Chloroethyl)ether	ug/kg	ND (17)	-	NC		NC	NC
2,2'-Oxybis(1-chloropropane)	ug/kg	ND (14)	-	NC		NC	NC
4-Chlorophenyl phenyl ether	ug/kg	ND (12)	-	NC		NC	NC
2,4-Dinitrotoluene	ug/kg	ND (12)	-	NC		NC	NC
2,6-Dinitrotoluene	ug/kg	ND (19)	-	NC		NC	NC
3,3'-Dichlorobenzidine	ug/kg	ND (32)	-	NC		NC	NC
1,4-Dioxane	ug/kg	ND (25)	-	100		NC	NC
Dibenzo(a,h)anthracene	ug/kg	28.0 J	-	560		NC	NC
Dibenzofuran	ug/kg	ND (16)	-	210000		NC	NC
Di-n-butyl phthalate	ug/kg	ND (6.3)	-	NC		NC	NC
Di-n-octyl phthalate	ug/kg	ND (9.6)	-	NC		NC	NC
Diethyl phthalate	ug/kg	ND (8.2)	-	NC		NC	NC
Dimethyl phthalate	ug/kg	ND (6.8)	-	NC		NC	NC
bis(2-Ethylhexyl)phthalate	ug/kg	ND (9.0)	-	NC		NC	NC
Fluoranthene	ug/kg	49.9	-	500000		NC	NC
Fluorene	ug/kg	ND (18)	-	386000		NC	NC
Hexachlorobenzene	ug/kg	ND (9.7)	-	NC		NC	NC
Hexachlorobutadiene	ug/kg	ND (15)	-	NC		NC	NC
Hexachlorocyclopentadiene	ug/kg	ND (15)	-	NC		NC	NC
Hexachloroethane	ug/kg	ND (19)	-	NC		NC	NC
Indeno(1,2,3-cd)pyrene	ug/kg	53.1	-	5600		NC	NC
Isophorone	ug/kg	ND (8.2)	-	NC		NC	NC
2-Methylnaphthalene	ug/kg	ND (8.7)	-	NC		NC	NC
2-Nitroaniline	ug/kg	ND (9.1)	-	NC		NC	NC
3-Nitroaniline	ug/kg	ND (9.6)	-	NC		NC	NC
4-Nitroaniline	ug/kg	ND (9.9)	-	NC		NC	NC
Naphthalene	ug/kg	ND (11)	-	12000		NC	NC
Nitrobenzene	ug/kg	ND (15)	-	NC		69000	140000

SGS Dayton, NJ		6/24/2022 8:22
Job Number:	**JD46224**	
Account:	**Honeywell International Inc. OMM work**	
Project:	**HLAME: 30130-Alltift Landfill, 579 Tifft Street,**	
Project Number:	**PO#A000804776**	
	Legend:	Hit

Client Sample ID:		**ALLTIFT-060722-SOIL**	**ALLTIFT-060722-SOIL**	**DER-10 Appendix 5 Commercial/ Industrial Criteria**	**PFAS Guidance Values - Commercial Use**	**CP-51 Supplemental Soil Cleanup Objectives - Commercial Use**	**CP-51 Supplemental Soil Cleanup Objectives - Industrial Use**
Lab Sample ID:		**JD46224-1**	**JD46224-1A**				
Date Sampled:		**6/7/2022**	**6/7/2022**				
Matrix:		**Soil**	**Soil**				
N-Nitroso-di-n-propylamine	ug/kg	ND (11)	-	NC		NC	NC
N-Nitrosodiphenylamine	ug/kg	ND (14)	-	NC		NC	NC
Phenanthrene	ug/kg	26.5 J	-	500000		NC	NC
Pyrene	ug/kg	52.5	-	500000		NC	NC
1,2,4,5-Tetrachlorobenzene	ug/kg	ND (9.7)	-	NC		NC	NC
GC/LC Semi-volatiles (SW846 8081B)							
Aldrin	ug/kg	ND (0.58)	-	190		NC	NC
alpha-BHC	ug/kg	ND (0.57)	-	20		NC	NC
beta-BHC	ug/kg	ND (0.64)	-	90		NC	NC
delta-BHC	ug/kg	ND (0.67)	-	250		NC	NC
gamma-BHC (Lindane)	ug/kg	ND (0.52)	-	100		NC	NC
alpha-Chlordane	ug/kg	1.5	-	2900		NC	NC
gamma-Chlordane	ug/kg	0.75	-	NC		NC	NC
Dieldrin	ug/kg	ND (0.48)	-	100		NC	NC
4,4'-DDD	ug/kg	ND (0.65)	-	14000		NC	NC
4,4'-DDE	ug/kg	1.9	-	17000		NC	NC
4,4'-DDT	ug/kg	9.6 B	-	47000		NC	NC
Endrin	ug/kg	ND (0.55)	-	60		NC	NC
Endosulfan sulfate	ug/kg	ND (0.55)	-	200000		NC	NC
Endrin aldehyde	ug/kg	ND (0.40)	-	NC		NC	NC
Endosulfan-I	ug/kg	ND (0.40)	-	102000		NC	NC
Endosulfan-II	ug/kg	ND (0.44)	-	102000		NC	NC
Heptachlor	ug/kg	ND (0.61)	-	380		NC	NC
Heptachlor epoxide	ug/kg	ND (0.49)	-	NC		NC	NC
Methoxychlor	ug/kg	ND (0.56)	-	NC		NC	NC
Endrin ketone	ug/kg	ND (0.51)	-	NC		NC	NC
Toxaphene	ug/kg	ND (16)	-	NC		NC	NC
GC/LC Semi-volatiles (SW846 8082A)							
Aroclor 1016	ug/kg	ND (17)	-	1000		NC	NC
Aroclor 1221	ug/kg	ND (23)	-	1000		NC	NC
Aroclor 1232	ug/kg	ND (24)	-	1000		NC	NC
Aroclor 1242	ug/kg	ND (15)	-	1000		NC	NC
Aroclor 1248	ug/kg	ND (33)	-	1000		NC	NC
Aroclor 1254	ug/kg	ND (20)	-	1000		NC	NC
Aroclor 1260	ug/kg	ND (16)	-	1000		NC	NC
Aroclor 1268	ug/kg	ND (16)	-	1000		NC	NC
Aroclor 1262	ug/kg	ND (24)	-	1000		NC	NC
Metals Analysis							
Aluminum	mg/kg	12300	-	NC		NC	NC
Antimony	mg/kg	ND (0.50)	-	NC		NC	NC
Arsenic	mg/kg	4.1	-	16		NC	NC
Barium	mg/kg	64.7	-	400		NC	NC
Beryllium	mg/kg	0.63	-	47		NC	NC
Cadmium	mg/kg	0.28 J	-	7.5		NC	NC
Calcium	mg/kg	21200	-	NC		NC	NC
Chromium	mg/kg	14.3	-	19		NC	NC
Cobalt	mg/kg	6.0 J	-	NC		NC	NC
Copper	mg/kg	11.9	-	270		NC	NC
Iron	mg/kg	15900	-	NC		NC	NC
Lead	mg/kg	16.3	-	450		NC	NC
Magnesium	mg/kg	6350	-	NC		NC	NC
Manganese	mg/kg	346	-	2000		NC	NC
Mercury	mg/kg	0.056	-	0.73		NC	NC
Nickel	mg/kg	14.7	-	130		NC	NC
Potassium	mg/kg	1130 J	-	NC		NC	NC
Selenium	mg/kg	1.3 J	-	4		NC	NC
Silver	mg/kg	0.53 J	-	8.3		NC	NC
Sodium	mg/kg	98.2 J	-	NC		NC	NC
Thallium	mg/kg	ND (0.70)	-	NC		NC	NC
Vanadium	mg/kg	21	-	NC		NC	NC
Zinc	mg/kg	57.3	-	2480		NC	NC
General Chemistry							
Cyanide	mg/kg	ND (0.15)	-	27		NC	NC
Solids, Percent	%	85.7	-	NC		NC	NC

SGS Dayton, NJ		6/24/2022 8:22
Job Number:	JD46224	
Account:	Honeywell International Inc. OMM work	
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street,	
Project Number:	PO#A000804776	
	Legend:	Hit

Client Sample ID:		ALLTIFT-060722-SOIL	ALLTIFT-060722-SOIL	DER-10 Appendix 5 Commercial/ Industrial Criteria	PFAS Guidance Values - Commercial Use	CP-51 Supplemental Soil Cleanup Objectives - Commercial Use	CP-51 Supplemental Soil Cleanup Objectives - Industrial Use
Lab Sample ID:		JD46224-1	JD46224-1A				
Date Sampled:		6/7/2022	6/7/2022				
Matrix:		Soil	Soil				

Notes:

B - Detected in associated method blank

J - Estimated value

mg/kg - milligrams per kilogram

NC - No criteria

ND - Not detected

ug/kg - micrograms per kilogram

% - percent

Prepared by: RTB 6/29/2022

Checked by: BJR 7/5/2022

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Honeywell International Inc. OMM work

HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

PO#A000804776

SGS Job Number: JD46224

Sampling Date: 06/07/22

Report to:

Wood Environment & Infrastructure Soln.
511 Congress Street
Portland, ME 04112
HTS-RES-LAB@Honeywell.com; Ryan.Belcher@amecfw.com

ATTN: Ryan Belcher

Total number of pages in report: **112**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Kristin Degraw 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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SGS North America Inc.

Sample Summary

Honeywell International Inc. OMM work

Job No: JD46224

HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Project No: PO#A000804776

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD46224-1	06/07/22	15:40	BH	06/08/22	SO	Soil	ALLTIFT-060722-SOIL
JD46224-1A	06/07/22	15:40	BH	06/08/22	SO	Soil	ALLTIFT-060722-SOIL

This report contains results reported as ND = Not detected. The following applies:

Organics ND = Not detected above the MDL
Metals ND = Not detected above the MDL
General Chemistry ND = Not detected above the MDL

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Honeywell International Inc. OMM work	**Job No:**	JD46224
Site:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY	**Report Date**	6/23/2022 12:12:51 P

On 06/08/2022, 2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 1.7 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD46224 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method SW846 8260D

Matrix: SO **Batch ID:** VI9932

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD45898-2MS, JD45898-4DUP, JD45898-2MS were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Chloromethane, Vinyl chloride are outside control limits. Outside control limits due to matrix interference.
- JD46224-1 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND.
- JD46224-1 for Dichlorodifluoromethane: Associated CCV outside of control limits high, sample was ND.
- JD46224-1 for 2-Butanone (MEK): Associated CCV outside of control limits high, sample was ND.
- JD46224-1 for Vinyl chloride: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD46224-1 for Chloromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

MS Semi-volatiles By Method EPA 537M BY ID

Matrix: SO **Batch ID:** F:OP91673

- The data for EPA 537M BY ID meets quality control requirements.
- JD46224-1A: Analysis performed at SGS Orlando, FL.

MS Semi-volatiles By Method SW846 8270E

Matrix: SO **Batch ID:** OP40216

- All samples were extracted within the recommended method holding time.
- Sample(s) JD46222-1MSD, JD46222-1MS, JD46222-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for 2-Nitroaniline, 3,3'-Dichlorobenzidine, 3-Nitroaniline, 4-Chloroaniline, 4-Nitroaniline, N-Nitroso-di-n-propylamine, N-Nitrosodiphenylamine are outside control limits. Probable cause due to matrix interference.
- RPD(s) for MSD for 2-Nitroaniline, 3,3'-Dichlorobenzidine, 3-Nitroaniline, 4-Chloroaniline, 4-Nitroaniline, N-Nitroso-di-n-propylamine, N-Nitrosodiphenylamine are outside control limits for sample OP40216-MSD. Probable cause due to sample homogeneity.
- OP40216-MS: Aniline spike standard was not added.
- OP40216-MS for 2-Nitroaniline: The spike standard was not added.
- JD46224-1 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD46224-1 for 2-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD46224-1 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD46224-1 for Hexachlorobutadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD46224-1 for bis(2-Ethylhexyl)phthalate: Associated CCV outside of control limits high, sample was ND.
- JD46224-1 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD46224-1 for 2,3,4,6-Tetrachlorophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD46224-1 for Di-n-octyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD46224-1 for Hexachlorobenzene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD46224-1 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD46224-1 for Pentachlorophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD46224-1 for Butyl benzyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD46224-1 for 4-Nitrophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

GC/LC Semi-volatiles By Method SW846 8081B

Matrix: SO **Batch ID:** OP40260

- All samples were extracted within the recommended method holding time.
- Sample(s) JD46495-4MS, JD46495-4MSD, OP40260-MSMSD were used as the QC samples indicated.
- Sample(s) JD46224-1 have compound(s) reported with a “B” qualifier, indicating analyte is found in the associated method blank.
- Blank Spike Recovery(s) for 4,4'-DDT are outside control limits.
- OP40260-MB1: Detection due to lab contamination.
- JD46224-1 for 4,4'-DDT: This compound outside control limits biased high in the associated BS.
- JD46224-1 for alpha-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- OP40260-BS1 for 4,4'-DDT: Outside of in house control limits due to lab contamination.
- JD46224-1 for 4,4'-DDE: Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only.

GC/LC Semi-volatiles By Method SW846 8082A

Matrix: SO **Batch ID:** OP40261

- All samples were extracted within the recommended method holding time.
- Sample(s) JD46429-1MS, JD46429-1MSD, OP40261-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- OP40261-BS1 for Aroclor 1016: Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only.
- OP40261-BS1 for Aroclor 1260: Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only.

Metals Analysis By Method SW846 6010D

Matrix: SO **Batch ID:** MP33381

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD46224-1MS, JD46224-1MSD, JD46224-1PS, JD46224-1SDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Antimony, Magnesium, Manganese, Potassium are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike Duplicate Recovery(s) for Antimony, Magnesium, Manganese, Potassium are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Recovery(s) for Aluminum, Calcium, Iron are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for Serial Dilution for Antimony, Arsenic, Cadmium, Silver, Calcium, Magnesium, Manganese, Vanadium, Zinc are outside control limits for sample MP33381-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP33381-SD1 for Calcium: Serial dilution indicates possible matrix interference.
- MP33381-SD1 for Vanadium: Serial dilution indicates possible matrix interference.
- MP33381-SD1 for Manganese: Serial dilution indicates possible matrix interference.
- MP33381-SD1 for Zinc: Serial dilution indicates possible matrix interference.
- MP33381-SD1 for Magnesium: Serial dilution indicates possible matrix interference.

Metals Analysis By Method SW846 7471B

Matrix: SO **Batch ID:** MP33486

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD46082-1MS, JD46082-1MSD were used as the QC samples for metals.

General Chemistry By Method SM2540 G 18TH ED MOD

Matrix: SO **Batch ID:** GN30100

- Sample(s) JD46224-1DUP were used as the QC samples for Solids, Percent.

General Chemistry By Method SW846 9012B/LACHAT

Matrix: SO **Batch ID:** GP40576

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD46141-4MS, JD46141-4DUP were used as the QC samples for Cyanide.
- RPD(s) for Duplicate for Cyanide are outside control limits for sample GP40576-D1. RPD acceptable due to low duplicate and sample concentrations.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: SGS Dayton, NJ **Job No:** JD46224

Site: HWINJOMM: HLAME: 30130-Alltift Landfill, 579 Tifft Street, **Report Date:** 6/22/2022 6:12:27 PM

On 06/13/2022, 1 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc - Orlando. at a maximum corrected temperature of 13 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. - Orlando Job Number of JD46224 was assigned to the project.

Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section. Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Semi-volatiles By Method EPA 537M BY ID

Matrix: SO **Batch ID:** OP91673

Sample(s) FA96386-2MS, FA96386-2MSD were used as the QC samples indicated.

SGS North America Inc. - Orlando certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted. Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria. SGS North America Inc.- Orlando is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety.

Narrative prepared by:

_____

Kim Benham, Client Services *(Signature on File)*

Summary of Hits

Job Number: JD46224
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 06/07/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD46224-1	**ALLTIFT-060722-SOIL**					
Benzo(a)anthracene		28.8 J	38	11	ug/kg	SW846 8270E
Benzo(a)pyrene		30.8 J	38	17	ug/kg	SW846 8270E
Benzo(b)fluoranthene		43.2	38	17	ug/kg	SW846 8270E
Benzo(g,h,i)perylene		23.7 J	38	19	ug/kg	SW846 8270E
Chrysene		32.6 J	38	12	ug/kg	SW846 8270E
Dibenzo(a,h)anthracene		28.0 J	38	17	ug/kg	SW846 8270E
Fluoranthene		49.9	38	17	ug/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene		53.1	38	18	ug/kg	SW846 8270E
Phenanthrene		26.5 J	38	13	ug/kg	SW846 8270E
Pyrene		52.5	38	12	ug/kg	SW846 8270E
alpha-Chlordane [a]		1.5	0.70	0.57	ug/kg	SW846 8081B
gamma-Chlordane		0.75	0.70	0.32	ug/kg	SW846 8081B
4,4'-DDE [b]		1.9	0.70	0.62	ug/kg	SW846 8081B
4,4'-DDT [c]		9.6 B	0.70	0.62	ug/kg	SW846 8081B
Aluminum		12300	61	9.8	mg/kg	SW846 6010D
Arsenic		4.1	2.4	0.34	mg/kg	SW846 6010D
Barium		64.7	24	2.3	mg/kg	SW846 6010D
Beryllium		0.63	0.24	0.097	mg/kg	SW846 6010D
Cadmium		0.28 J	0.61	0.085	mg/kg	SW846 6010D
Calcium		21200	610	25	mg/kg	SW846 6010D
Chromium		14.3	1.2	0.45	mg/kg	SW846 6010D
Cobalt		6.0 J	6.1	0.34	mg/kg	SW846 6010D
Copper		11.9	3.0	1.0	mg/kg	SW846 6010D
Iron		15900	61	23	mg/kg	SW846 6010D
Lead		16.3	2.4	0.50	mg/kg	SW846 6010D
Magnesium		6350	610	17	mg/kg	SW846 6010D
Manganese		346	1.8	0.50	mg/kg	SW846 6010D
Mercury		0.056	0.033	0.014	mg/kg	SW846 7471B
Nickel		14.7	4.9	0.43	mg/kg	SW846 6010D
Potassium		1130 J	1200	39	mg/kg	SW846 6010D
Selenium		1.3 J	2.4	0.79	mg/kg	SW846 6010D
Silver		0.53 J	0.61	0.21	mg/kg	SW846 6010D
Sodium		98.2 J	1200	95	mg/kg	SW846 6010D
Vanadium		21.0	6.1	0.23	mg/kg	SW846 6010D
Zinc		57.3	6.1	2.8	mg/kg	SW846 6010D
JD46224-1A	**ALLTIFT-060722-SOIL**					
Perfluorooctanoic acid [d]		0.47 J	0.58	0.29	ug/kg	EPA 537M BY ID
Perfluorooctanesulfonic acid [d]		0.29 J	0.58	0.23	ug/kg	EPA 537M BY ID

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it

Summary of Hits

Job Number: JD46224
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 06/07/22

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

being used for confirmation only.
(c) This compound outside control limits biased high in the associated BS.
(d) Analysis performed at SGS Orlando, FL.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	ALLTIFT-060722-SOIL		
Lab Sample ID:	JD46224-1	**Date Sampled:**	06/07/22
Matrix:	SO - Soil	**Date Received:**	06/08/22
Method:	SW846 8260D	**Percent Solids:**	85.7
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I244685.D	1	06/09/22 15:56	PS	n/a	n/a	VI9932
Run #2							

	Initial Weight
Run #1	5.6 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	4.3	ug/kg	
71-43-2	Benzene	ND	0.52	0.47	ug/kg	
74-97-5	Bromochloromethane	ND	5.2	0.58	ug/kg	
75-27-4	Bromodichloromethane	ND	2.1	0.45	ug/kg	
75-25-2	Bromoform	ND	5.2	1.4	ug/kg	
74-83-9	Bromomethane	ND	5.2	0.80	ug/kg	
78-93-3	2-Butanone (MEK) [a]	ND	10	2.5	ug/kg	
75-15-0	Carbon disulfide	ND	2.1	0.56	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.1	0.64	ug/kg	
108-90-7	Chlorobenzene	ND	2.1	0.48	ug/kg	
75-00-3	Chloroethane	ND	5.2	0.62	ug/kg	
67-66-3	Chloroform	ND	2.1	0.54	ug/kg	
74-87-3	Chloromethane [b]	ND	5.2	2.0	ug/kg	
110-82-7	Cyclohexane	ND	2.1	0.68	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.1	0.72	ug/kg	
124-48-1	Dibromochloromethane	ND	2.1	0.58	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.44	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.57	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.52	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/kg	
75-71-8	Dichlorodifluoromethane [a]	ND	5.2	0.76	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	0.52	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.49	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	0.68	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.88	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.64	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.1	0.49	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.1	0.49	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.1	0.48	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.47	ug/kg	
76-13-1	Freon 113	ND	5.2	2.8	ug/kg	
591-78-6	2-Hexanone	ND	5.2	2.2	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ALLTIFT-060722-SOIL		
Lab Sample ID:	JD46224-1	**Date Sampled:**	06/07/22
Matrix:	SO - Soil	**Date Received:**	06/08/22
Method:	SW846 8260D	**Percent Solids:**	85.7
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.1	1.5	ug/kg	
79-20-9	Methyl Acetate	ND	5.2	1.4	ug/kg	
108-87-2	Methylcyclohexane	ND	2.1	0.91	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.49	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.2	2.4	ug/kg	
75-09-2	Methylene chloride	ND	5.2	2.7	ug/kg	
100-42-5	Styrene	ND	2.1	0.42	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.1	0.62	ug/kg	
127-18-4	Tetrachloroethene	ND	2.1	0.60	ug/kg	
108-88-3	Toluene	ND	1.0	0.55	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.2	2.6	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.2	2.6	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.1	0.50	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.1	0.58	ug/kg	
79-01-6	Trichloroethene	ND	1.0	0.79	ug/kg	
75-69-4	Trichlorofluoromethane [a]	ND	5.2	0.71	ug/kg	
75-01-4	Vinyl chloride [b]	ND	2.1	0.50	ug/kg	
	m,p-Xylene	ND	1.0	0.93	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.48	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.48	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		80-124%
17060-07-0	1,2-Dichloroethane-D4	111%		75-133%
2037-26-5	Toluene-D8	98%		79-125%
460-00-4	4-Bromofluorobenzene	99%		58-148%

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ALLTIFT-060722-SOIL
Lab Sample ID: JD46224-1 **Date Sampled:** 06/07/22
Matrix: SO - Soil **Date Received:** 06/08/22
Method: SW846 8270E SW846 3546 **Percent Solids:** 85.7
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P108274.D	1	06/15/22 05:38	CS	06/14/22 08:50	OP40216	E2P4896
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	77	19	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	24	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	33	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	68	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	190	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol [a]	ND	190	41	ug/kg	
95-48-7	2-Methylphenol	ND	77	25	ug/kg	
	3&4-Methylphenol	ND	77	32	ug/kg	
88-75-5	2-Nitrophenol [a]	ND	190	25	ug/kg	
100-02-7	4-Nitrophenol [b]	ND	380	100	ug/kg	
87-86-5	Pentachlorophenol [b]	ND	150	36	ug/kg	
108-95-2	Phenol	ND	77	20	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol [b]	ND	190	25	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	29	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	23	ug/kg	
83-32-9	Acenaphthene	ND	38	13	ug/kg	
208-96-8	Acenaphthylene	ND	38	19	ug/kg	
98-86-2	Acetophenone	ND	190	8.3	ug/kg	
120-12-7	Anthracene	ND	38	24	ug/kg	
1912-24-9	Atrazine	ND	77	16	ug/kg	
56-55-3	Benzo(a)anthracene	28.8	38	11	ug/kg	J
50-32-8	Benzo(a)pyrene	30.8	38	17	ug/kg	J
205-99-2	Benzo(b)fluoranthene	43.2	38	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	23.7	38	19	ug/kg	J
207-08-9	Benzo(k)fluoranthene	ND	38	18	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	77	15	ug/kg	
85-68-7	Butyl benzyl phthalate [a]	ND	77	9.4	ug/kg	
92-52-4	1,1'-Biphenyl	ND	77	5.3	ug/kg	
100-52-7	Benzaldehyde	ND	190	9.5	ug/kg	
91-58-7	2-Chloronaphthalene	ND	77	9.1	ug/kg	
106-47-8	4-Chloroaniline	ND	190	14	ug/kg	
86-74-8	Carbazole	ND	77	5.6	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ALLTIFT-060722-SOIL
Lab Sample ID: JD46224-1 **Date Sampled:** 06/07/22
Matrix: SO - Soil **Date Received:** 06/08/22
Method: SW846 8270E SW846 3546 **Percent Solids:** 85.7
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	77	15	ug/kg	
218-01-9	Chrysene	32.6	38	12	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	77	8.2	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	77	17	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	77	14	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	77	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	38	12	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	38	19	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	77	32	ug/kg	
123-91-1	1,4-Dioxane	ND	38	25	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	28.0	38	17	ug/kg	J
132-64-9	Dibenzofuran	ND	77	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	77	6.3	ug/kg	
117-84-0	Di-n-octyl phthalate [a]	ND	77	9.6	ug/kg	
84-66-2	Diethyl phthalate	ND	77	8.2	ug/kg	
131-11-3	Dimethyl phthalate	ND	77	6.8	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate [a]	ND	77	9.0	ug/kg	
206-44-0	Fluoranthene	49.9	38	17	ug/kg	
86-73-7	Fluorene	ND	38	18	ug/kg	
118-74-1	Hexachlorobenzene [b]	ND	77	9.7	ug/kg	
87-68-3	Hexachlorobutadiene [b]	ND	38	15	ug/kg	
77-47-4	Hexachlorocyclopentadiene [b]	ND	380	15	ug/kg	
67-72-1	Hexachloroethane	ND	190	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	53.1	38	18	ug/kg	
78-59-1	Isophorone	ND	77	8.2	ug/kg	
91-57-6	2-Methylnaphthalene	ND	38	8.7	ug/kg	
88-74-4	2-Nitroaniline [a]	ND	190	9.1	ug/kg	
99-09-2	3-Nitroaniline	ND	190	9.6	ug/kg	
100-01-6	4-Nitroaniline	ND	190	9.9	ug/kg	
91-20-3	Naphthalene	ND	38	11	ug/kg	
98-95-3	Nitrobenzene	ND	77	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	77	11	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	14	ug/kg	
85-01-8	Phenanthrene	26.5	38	13	ug/kg	J
129-00-0	Pyrene	52.5	38	12	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	9.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	31%		10-99%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ALLTIFT-060722-SOIL		
Lab Sample ID:	JD46224-1	**Date Sampled:**	06/07/22
Matrix:	SO - Soil	**Date Received:**	06/08/22
Method:	SW846 8270E SW846 3546	**Percent Solids:**	85.7
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	30%		10-96%
118-79-6	2,4,6-Tribromophenol	32%		10-123%
4165-60-0	Nitrobenzene-d5	44%		10-109%
321-60-8	2-Fluorobiphenyl	37%		11-109%
1718-51-0	Terphenyl-d14	40%		10-120%

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ALLTIFT-060722-SOIL		
Lab Sample ID:	JD46224-1	**Date Sampled:**	06/07/22
Matrix:	SO - Soil	**Date Received:**	06/08/22
Method:	SW846 8081B SW846 3546	**Percent Solids:**	85.7
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G43027.D	1	06/17/22 00:06	CP	06/16/22 13:24	OP40260	G8G1849
Run #2							

	Initial Weight	Final Volume
Run #1	16.6 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.70	0.58	ug/kg	
319-84-6	alpha-BHC	ND	0.70	0.57	ug/kg	
319-85-7	beta-BHC	ND	0.70	0.64	ug/kg	
319-86-8	delta-BHC	ND	0.70	0.67	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.70	0.52	ug/kg	
5103-71-9	alpha-Chlordane [a]	1.5	0.70	0.57	ug/kg	
5103-74-2	gamma-Chlordane	0.75	0.70	0.32	ug/kg	
60-57-1	Dieldrin	ND	0.70	0.48	ug/kg	
72-54-8	4,4'-DDD	ND	0.70	0.65	ug/kg	
72-55-9	4,4'-DDE [b]	1.9	0.70	0.62	ug/kg	
50-29-3	4,4'-DDT [c]	9.6	0.70	0.62	ug/kg	B
72-20-8	Endrin	ND	0.70	0.55	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.70	0.55	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.70	0.40	ug/kg	
959-98-8	Endosulfan-I	ND	0.70	0.40	ug/kg	
33213-65-9	Endosulfan-II	ND	0.70	0.44	ug/kg	
76-44-8	Heptachlor	ND	0.70	0.61	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.70	0.49	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.56	ug/kg	
53494-70-5	Endrin ketone	ND	0.70	0.51	ug/kg	
8001-35-2	Toxaphene	ND	18	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	62%		14-145%
877-09-8	Tetrachloro-m-xylene	82%		14-145%
2051-24-3	Decachlorobiphenyl	74%		10-197%
2051-24-3	Decachlorobiphenyl	86%		10-197%

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ALLTIFT-060722-SOIL		
Lab Sample ID:	JD46224-1	**Date Sampled:**	06/07/22
Matrix:	SO - Soil	**Date Received:**	06/08/22
Method:	SW846 8081B SW846 3546	**Percent Solids:**	85.7
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q

(c) This compound outside control limits biased high in the associated BS.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ALLTIFT-060722-SOIL		
Lab Sample ID:	JD46224-1	**Date Sampled:**	06/07/22
Matrix:	SO - Soil	**Date Received:**	06/08/22
Method:	SW846 8082A SW846 3546	**Percent Solids:**	85.7
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G9726738.D	1	06/22/22 22:40	CP	06/16/22 13:24	OP40261	G4G3830
Run #2							

	Initial Weight	Final Volume
Run #1	15.6 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	37	17	ug/kg	
11104-28-2	Aroclor 1221	ND	37	23	ug/kg	
11141-16-5	Aroclor 1232	ND	37	24	ug/kg	
53469-21-9	Aroclor 1242	ND	37	15	ug/kg	
12672-29-6	Aroclor 1248	ND	37	33	ug/kg	
11097-69-1	Aroclor 1254	ND	37	20	ug/kg	
11096-82-5	Aroclor 1260	ND	37	16	ug/kg	
11100-14-4	Aroclor 1268	ND	37	16	ug/kg	
37324-23-5	Aroclor 1262	ND	37	24	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	91%		10-163%
877-09-8	Tetrachloro-m-xylene	104%		10-163%
2051-24-3	Decachlorobiphenyl	106%		10-215%
2051-24-3	Decachlorobiphenyl	124%		10-215%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ALLTIFT-060722-SOIL
Lab Sample ID: JD46224-1
Matrix: SO - Soil
Date Sampled: 06/07/22
Date Received: 06/08/22
Percent Solids: 85.7
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	12300	61	9.8	mg/kg	1	06/10/22	06/10/22	ND	SW846 6010D [1]	SW846 3050B [3]
Antimony	ND	2.4	0.50	mg/kg	1	06/10/22	06/10/22	ND	SW846 6010D [1]	SW846 3050B [3]
Arsenic	4.1	2.4	0.34	mg/kg	1	06/10/22	06/10/22	ND	SW846 6010D [1]	SW846 3050B [3]
Barium	64.7	24	2.3	mg/kg	1	06/10/22	06/10/22	ND	SW846 6010D [1]	SW846 3050B [3]
Beryllium	0.63	0.24	0.097	mg/kg	1	06/10/22	06/10/22	ND	SW846 6010D [1]	SW846 3050B [3]
Cadmium	0.28 J	0.61	0.085	mg/kg	1	06/10/22	06/10/22	ND	SW846 6010D [1]	SW846 3050B [3]
Calcium	21200	610	25	mg/kg	1	06/10/22	06/10/22	ND	SW846 6010D [1]	SW846 3050B [3]
Chromium	14.3	1.2	0.45	mg/kg	1	06/10/22	06/10/22	ND	SW846 6010D [1]	SW846 3050B [3]
Cobalt	6.0 J	6.1	0.34	mg/kg	1	06/10/22	06/10/22	ND	SW846 6010D [1]	SW846 3050B [3]
Copper	11.9	3.0	1.0	mg/kg	1	06/10/22	06/10/22	ND	SW846 6010D [1]	SW846 3050B [3]
Iron	15900	61	23	mg/kg	1	06/10/22	06/10/22	ND	SW846 6010D [1]	SW846 3050B [3]
Lead	16.3	2.4	0.50	mg/kg	1	06/10/22	06/10/22	ND	SW846 6010D [1]	SW846 3050B [3]
Magnesium	6350	610	17	mg/kg	1	06/10/22	06/10/22	ND	SW846 6010D [1]	SW846 3050B [3]
Manganese	346	1.8	0.50	mg/kg	1	06/10/22	06/10/22	ND	SW846 6010D [1]	SW846 3050B [3]
Mercury	0.056	0.033	0.014	mg/kg	1	06/15/22	06/15/22	LM	SW846 7471B [2]	SW846 7471B [4]
Nickel	14.7	4.9	0.43	mg/kg	1	06/10/22	06/10/22	ND	SW846 6010D [1]	SW846 3050B [3]
Potassium	1130 J	1200	39	mg/kg	1	06/10/22	06/10/22	ND	SW846 6010D [1]	SW846 3050B [3]
Selenium	1.3 J	2.4	0.79	mg/kg	1	06/10/22	06/10/22	ND	SW846 6010D [1]	SW846 3050B [3]
Silver	0.53 J	0.61	0.21	mg/kg	1	06/10/22	06/10/22	ND	SW846 6010D [1]	SW846 3050B [3]
Sodium	98.2 J	1200	95	mg/kg	1	06/10/22	06/10/22	ND	SW846 6010D [1]	SW846 3050B [3]
Thallium	ND	1.2	0.70	mg/kg	1	06/10/22	06/10/22	ND	SW846 6010D [1]	SW846 3050B [3]
Vanadium	21.0	6.1	0.23	mg/kg	1	06/10/22	06/10/22	ND	SW846 6010D [1]	SW846 3050B [3]
Zinc	57.3	6.1	2.8	mg/kg	1	06/10/22	06/10/22	ND	SW846 6010D [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA52552
(2) Instrument QC Batch: MA52566
(3) Prep QC Batch: MP33381
(4) Prep QC Batch: MP33486

RL = Reporting Limit
MDL = Method Detection Limit
ND = Not detected
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: ALLTIFT-060722-SOIL
Lab Sample ID: JD46224-1
Matrix: SO - Soil
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Date Sampled: 06/07/22
Date Received: 06/08/22
Percent Solids: 85.7

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	ND	0.29	0.15	mg/kg	1	06/10/22 11:44	MM	SW846 9012B/LACHAT
Solids, Percent	85.7			%	1	06/09/22 09:00	BG	SM2540 G 18TH ED MOD

RL = Reporting Limit
MDL = Method Detection Limit
ND = Not detected
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	ALLTIFT-060722-SOIL		
Lab Sample ID:	JD46224-1A	**Date Sampled:**	06/07/22
Matrix:	SO - Soil	**Date Received:**	06/08/22
Method:	EPA 537M BY ID IN HOUSE	**Percent Solids:**	85.7
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2Q93448.D	1	06/19/22 18:16	AFL	06/16/22 06:00	F:OP91673	F:S2Q1308
Run #2							

	Initial Weight	Final Volume
Run #1	2.02 g	1.0 ml
Run #2		

PFAS List

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	ND	1.2	0.44	ug/kg	
2706-90-3	Perfluoropentanoic acid	ND	0.58	0.29	ug/kg	
307-24-4	Perfluorohexanoic acid	ND	0.58	0.29	ug/kg	
375-85-9	Perfluoroheptanoic acid	ND	0.58	0.29	ug/kg	
335-67-1	Perfluorooctanoic acid	0.47	0.58	0.29	ug/kg	J
375-95-1	Perfluorononanoic acid	ND	0.58	0.29	ug/kg	
335-76-2	Perfluorodecanoic acid	ND	0.58	0.29	ug/kg	
2058-94-8	Perfluoroundecanoic acid	ND	0.58	0.29	ug/kg	
307-55-1	Perfluorododecanoic acid	ND	0.58	0.29	ug/kg	
72629-94-8	Perfluorotridecanoic acid	ND	0.58	0.31	ug/kg	
376-06-7	Perfluorotetradecanoic acid	ND	0.58	0.29	ug/kg	
PERFLUOROALKYLSULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	ND	0.58	0.29	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	0.58	0.29	ug/kg	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.58	0.29	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	0.29	0.58	0.23	ug/kg	J
335-77-3	Perfluorodecanesulfonic acid	ND	0.58	0.29	ug/kg	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA	ND	0.58	0.29	ug/kg	
PERFLUOROOCTANESULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	1.2	0.58	ug/kg	
2991-50-6	EtFOSAA	ND	1.2	0.58	ug/kg	
FLUOROTELOMER SULFONATES						
27619-97-2	6:2 Fluorotelomer sulfonate	ND	1.2	0.29	ug/kg	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	1.2	0.29	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ALLTIFT-060722-SOIL		
Lab Sample ID:	JD46224-1A	**Date Sampled:**	06/07/22
Matrix:	SO - Soil	**Date Received:**	06/08/22
Method:	EPA 537M BY ID IN HOUSE	**Percent Solids:**	85.7
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

PFAS List

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	83%		40-140%
	13C5-PFPeA	83%		50-150%
	13C5-PFHxA	84%		50-150%
	13C4-PFHpA	83%		50-150%
	13C8-PFOA	84%		50-150%
	13C9-PFNA	85%		50-150%
	13C6-PFDA	80%		50-150%
	13C7-PFUnDA	81%		40-140%
	13C2-PFDoDA	85%		40-140%
	13C2-PFTeDA	86%		30-130%
	13C3-PFBS	85%		50-150%
	13C3-PFHxS	85%		50-150%
	13C8-PFOS	86%		50-150%
	13C8-FOSA	82%		30-130%
	d3-MeFOSAA	93%		40-140%
	d5-EtFOSAA	95%		40-140%
	13C2-6:2FTS	80%		50-150%
	13C2-8:2FTS	82%		50-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FEDEX TRK:# 5272 0642 0842 SO, SLL

SGS Laboratories
2235 Route 130
Dayton, NJ 08810
(p) 732-239-0200

Chain Of Custody/Analysis Request
Project Name: Buffalo Alltift Landfill - Soil Sample
Lab Project Name: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

AESI Ref: 38609.59845
COC #: 20220607-Alltift
Lab Use Only
Lab_SDG
Lab ID

Client Contact: (name, co., address)
Sasa Jazic
Honeywell International
301 Plainfield Road, Suite 330
Syracuse, New York 13212
Sasa.Jazic@Honeywell.com
Hardcopy Report To: Do Not Send Hardcopy Unless Requested
Invoice To:

Privileged & Confidential
EDD To: Ryan Belcher (ryan.belcher @ woodplc.com)
Sampler: Benjamin Hendry
Sampling Company: Jacobs
P O #: A000804776
Analysis Turnaround Time:
Standard: N
Rush Charges Authorized for: Y
Turn Around Time Required: NEXT DAY RUSH

Facility Name: Alltift Landfill
Location of Site: Buffalo, New York
Site Code: 30130

Preservative: 0 8 9 0

Job No: JD46224
1 Cooler

	Sample Identification				Sample Date	Sample Time	Matrix Code	Medium Code	Sample Type	# of Cont.	Composite (Y or N)	Filter Type (Y = Filtered, Not Filtered)	SVOC 20												Lab Sample Numbers
	Sys_Loc_Code	Start Depth (ft)	End Depth (ft)	Sys_Sample_Code							Units														
1	N/A	---	---	Alltift-060722-Soil	06-06-2022	1540	GW	WATER	REG	4	N	N	1	1	2										D27 1472 4044
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									
13																									
14																									
15																									

Special Instructions:	Sample Location	pH Range	pH	Max Temp (°C)	Temp (°C)	Flow	Cond. (mS/cm)	Other

Notes: For COC questions, contact --
Benjamin Hendry
benjamin.hendry @ jacobs.com
315-806-4029

Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Custody Seals Intact
By Hdy	Jacobs	06-07-22/1630	FEDEX		6-8-22 10:00	Cooler Temp 20°C IR	
Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Custody Seals Intact
FEDEX		6/8/22 10:00				Cooler Temp.	

Preservatives: 0 – None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other [Methanol]; 9 = Other [DI Water]

Initial Assessment GC2A

Label Verification _____

JD46224: Chain of Custody
Page 1 of 5

SGS Sample Receipt Summary

Job Number: JD46224 **Client:** WOOD ENVIRONMENT & INFRASTRUCT **Project:** HLAME: 30130-ALLTIFT LANDFILL, 579 TI

Date / Time Received: 6/8/2022 10:00:00 AM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (2.0);

Cooler Temps (Corrected) °C: Cooler 1: (1.7);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

Job Change Order: JD46224

Requested Date:	6/8/2022	**Received Date:**	6/8/2022
Account Name:	Honeywell International Inc. OMM	**Due Date:**	6/8/2022
Project Description:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buf	**Deliverable:**	COMMBN
C/O Initiated By:	MICHELLD **PM:** KD	**TAT (Days):**	1

==========

Sample #: JD46224-All

Dept:

TAT: 1

Change:
Revise collection date from 6/6/22 to 6/7/22

==========

Above Changes Per: Ben Hendry **Date/Time:** 6/8/2022

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

JD46224: Chain of Custody
Page 3 of 5

Job Change Order: JD46224

Requested Date:	6/16/2022	**Received Date:**	6/8/2022
Account Name:	Honeywell International Inc. OMM	**Due Date:**	6/16/2022
Project Description:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buf	**Deliverable:**	COMMBN
C/O Initiated By:	MICHELLD **PM:** KD	**TAT (Days):**	0

==========

Sample #: JD46224-1

Dept:

TAT: 0

ALLTIFT-060722-SOIL

Change:
Please also run for LCID537NY21, documentation for email sent on 6/8
Mike Fay

==========

Above Changes Per:

Date/Time: 6/16/2022

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

JD46224: Chain of Custody
Page 4 of 5

SGS Laboratories
2235 Route 130
Dayton, NJ 08810
(p) 732-239-0200

Chain Of Custody/Analysis Request
Project Name: Buffalo Alltift Landfill - Soil Sample
Lab Project Name: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

AESI Ref: 38609.59845
COC # : 20220607-Alltift
Lab Use Only
Lab_SDG JD46224 REVISED
Lab ID

Privileged & Confidential
QDD To: Ryan Belcher (ryan.belcher@woodplc.com)
Facility Name: Alltift Landfill
Location of Site: Buffalo, New York **Site Code:** 30130

Client Contact: (name, co., address)
Sasa Jazic
Honeywell International
301 Plainfield Road, Suite 330
Syracuse, New York 13212
Sasa.Jazic@Honeywell.com
Hardcopy Report To: Do Not Send Hardcopy Unless Requested
Invoice To:

Sampler: Benjamin Hendry
Sampling Company: Jacobs
P O # A001132428
Analysis Turnaround Time:
Standard - N
Rush Charges Authorized for - Y
Turn Around Time Required - NEXT DAY RUSH

Job No.

1 Cooler

Sample Identification				Sample Date	Sample Time	Matrix Code	Medium Code	Sample Type	# of Cont.	Composite (Yes/No)	Filter Type (Yes=Filtered, No=Unfiltered)	Preservative: 0 8 9 0	XTCL20 + PFAS												Lab Sample Numbers
Sys_Loc_Code	Start Depth (ft)	End Depth (ft)	Sys_Sample_Code							Units															
1 N/A	---	---	Alltift-060722-Soil	06-07-2022	1540	SOLID	Soil	REG	4	N	N	1	1	2											
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									
13																									
14																									
15																									

Special Instructions:	Sample Location	pH Range	pH	Max Temp (°C)	Temp (°C)	Flow	Cond. (mS/cm)	Other	Notes: For COC questions, contact --
									Benjamin Hendry benjamin.hendry@jacobs.com 315-806-4029

Relinquished by	Company	Jacobs	Received by	Company		Condition		Custody Seals Intact
	Date/Time			Date/Time		Cooler Temp.		
Relinquished by	Company		Received by	Company		Condition		Custody Seals Intact
	Date/Time			Date/Time		Cooler Temp.		

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other [Methanol]; 9 = Other [DI Water]

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI9932-MB	I244684.D	1	06/09/22	PS	n/a	n/a	VI9932

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD46224-1

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	4.1	ug/kg	
71-43-2	Benzene	ND	0.50	0.46	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.56	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.43	ug/kg	
75-25-2	Bromoform	ND	5.0	1.4	ug/kg	
74-83-9	Bromomethane	ND	5.0	0.76	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/kg	
75-15-0	Carbon disulfide	ND	2.0	0.54	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	0.62	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.46	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.59	ug/kg	
67-66-3	Chloroform	ND	2.0	0.52	ug/kg	
74-87-3	Chloromethane	ND	5.0	2.0	ug/kg	
110-82-7	Cyclohexane	ND	2.0	0.66	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.56	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.42	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.55	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.49	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.73	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.47	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	0.66	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.61	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.47	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.48	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.46	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.45	ug/kg	
76-13-1	Freon 113	ND	5.0	2.7	ug/kg	
591-78-6	2-Hexanone	ND	5.0	2.1	ug/kg	
98-82-8	Isopropylbenzene	ND	2.0	1.4	ug/kg	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/kg	
108-87-2	Methylcyclohexane	ND	2.0	0.88	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.47	ug/kg	

Method Blank Summary

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI9932-MB	I244684.D	1	06/09/22	PS	n/a	n/a	VI9932

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD46224-1

CAS No.	Compound	Result	RL	MDL	Units	Q
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	2.3	ug/kg	
75-09-2	Methylene chloride	ND	5.0	2.6	ug/kg	
100-42-5	Styrene	ND	2.0	0.40	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.60	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.58	ug/kg	
108-88-3	Toluene	ND	1.0	0.53	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	2.5	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	2.5	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.48	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.55	ug/kg	
79-01-6	Trichloroethene	ND	1.0	0.76	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	0.68	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	0.48	ug/kg	
	m,p-Xylene	ND	1.0	0.90	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.46	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.46	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	103%	80-124%
17060-07-0	1,2-Dichloroethane-D4	100%	75-133%
2037-26-5	Toluene-D8	98%	79-125%
460-00-4	4-Bromofluorobenzene	98%	58-148%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Blank Spike Summary

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI9932-BS	I244682.D	1	06/09/22	PS	n/a	n/a	VI9932

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD46224-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	200	179	90	52-156
71-43-2	Benzene	50	51.6	103	82-119
74-97-5	Bromochloromethane	50	48.3	97	82-123
75-27-4	Bromodichloromethane	50	51.2	102	83-121
75-25-2	Bromoform	50	59.2	118	74-138
74-83-9	Bromomethane	50	50.4	101	56-150
78-93-3	2-Butanone (MEK)	200	250	125	72-138
75-15-0	Carbon disulfide	50	52.2	104	67-131
56-23-5	Carbon tetrachloride	50	50.7	101	72-130
108-90-7	Chlorobenzene	50	48.8	98	83-114
75-00-3	Chloroethane	50	61.2	122	67-141
67-66-3	Chloroform	50	50.8	102	76-115
74-87-3	Chloromethane	50	29.4	59	57-141
110-82-7	Cyclohexane	50	56.7	113	69-130
96-12-8	1,2-Dibromo-3-chloropropane	50	55.5	111	72-131
124-48-1	Dibromochloromethane	50	51.0	102	80-128
106-93-4	1,2-Dibromoethane	50	52.2	104	58-145
95-50-1	1,2-Dichlorobenzene	50	50.3	101	83-117
541-73-1	1,3-Dichlorobenzene	50	47.6	95	82-114
106-46-7	1,4-Dichlorobenzene	50	45.8	92	79-114
75-71-8	Dichlorodifluoromethane	50	67.1	134	49-146
75-34-3	1,1-Dichloroethane	50	51.1	102	76-126
107-06-2	1,2-Dichloroethane	50	44.0	88	76-118
75-35-4	1,1-Dichloroethene	50	49.7	99	72-125
156-59-2	cis-1,2-Dichloroethene	50	53.8	108	80-118
156-60-5	trans-1,2-Dichloroethene	50	50.0	100	76-122
78-87-5	1,2-Dichloropropane	50	54.5	109	82-123
10061-01-5	cis-1,3-Dichloropropene	50	55.6	111	83-123
10061-02-6	trans-1,3-Dichloropropene	50	52.2	104	83-123
100-41-4	Ethylbenzene	50	50.0	100	83-115
76-13-1	Freon 113	50	48.1	96	65-132
591-78-6	2-Hexanone	200	225	113	73-138
98-82-8	Isopropylbenzene	50	52.9	106	81-122
79-20-9	Methyl Acetate	50	59.4	119	63-142
108-87-2	Methylcyclohexane	50	54.0	108	73-126
1634-04-4	Methyl Tert Butyl Ether	50	54.8	110	75-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI9932-BS	I244682.D	1	06/09/22	PS	n/a	n/a	VI9932

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD46224-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	200	225	113	71-138
75-09-2	Methylene chloride	50	50.1	100	73-122
100-42-5	Styrene	50	50.7	101	84-122
79-34-5	1,1,2,2-Tetrachloroethane	50	53.0	106	75-127
127-18-4	Tetrachloroethene	50	44.8	90	73-125
108-88-3	Toluene	50	49.4	99	82-118
87-61-6	1,2,3-Trichlorobenzene	50	53.2	106	68-132
120-82-1	1,2,4-Trichlorobenzene	50	53.0	106	72-133
71-55-6	1,1,1-Trichloroethane	50	51.5	103	77-124
79-00-5	1,1,2-Trichloroethane	50	53.9	108	83-122
79-01-6	Trichloroethene	50	50.4	101	80-122
75-69-4	Trichlorofluoromethane	50	62.4	125	69-132
75-01-4	Vinyl chloride	50	30.4	61	60-144
	m,p-Xylene	100	101	101	82-119
95-47-6	o-Xylene	50	51.7	103	84-120
1330-20-7	Xylene (total)	150	153	102	83-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	80-124%
17060-07-0	1,2-Dichloroethane-D4	95%	75-133%
2037-26-5	Toluene-D8	97%	79-125%
460-00-4	4-Bromofluorobenzene	102%	58-148%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD45898-2MS	I244694.D	1	06/09/22	PS	n/a	n/a	VI9932
JD45898-2	I244687.D	1	06/09/22	PS	n/a	n/a	VI9932

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD46224-1

CAS No.	Compound	JD45898-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Limits
67-64-1	Acetone	ND		240	178	74	10-170
71-43-2	Benzene	ND		60.1	53.2	89	61-132
74-97-5	Bromochloromethane	ND		60.1	51.2	85	68-126
75-27-4	Bromodichloromethane	ND		60.1	54.8	91	65-129
75-25-2	Bromoform	ND		60.1	60.2	100	52-136
74-83-9	Bromomethane	ND		60.1	43.5	72	23-158
78-93-3	2-Butanone (MEK)	ND		240	230	96	45-142
75-15-0	Carbon disulfide	ND		60.1	48.1	80	50-140
56-23-5	Carbon tetrachloride	ND		60.1	53.7	89	54-139
108-90-7	Chlorobenzene	ND		60.1	48.2	80	57-127
75-00-3	Chloroethane	ND		60.1	50.7	84	30-157
67-66-3	Chloroform	ND		60.1	53.7	89	59-127
74-87-3	Chloromethane	ND		60.1	23.0	38* [a]	49-145
110-82-7	Cyclohexane	ND		60.1	51.0	85	39-147
96-12-8	1,2-Dibromo-3-chloropropane	ND		60.1	50.2	84	35-140
124-48-1	Dibromochloromethane	ND		60.1	52.5	87	63-129
106-93-4	1,2-Dibromoethane	ND		60.1	51.8	86	45-141
95-50-1	1,2-Dichlorobenzene	ND		60.1	43.9	73	38-136
541-73-1	1,3-Dichlorobenzene	ND		60.1	42.0	70	37-135
106-46-7	1,4-Dichlorobenzene	ND		60.1	39.9	66	36-134
75-71-8	Dichlorodifluoromethane	ND		60.1	54.9	91	33-152
75-34-3	1,1-Dichloroethane	ND		60.1	53.3	89	68-131
107-06-2	1,2-Dichloroethane	ND		60.1	49.4	82	64-119
75-35-4	1,1-Dichloroethene	ND		60.1	49.8	83	60-133
156-59-2	cis-1,2-Dichloroethene	ND		60.1	54.6	91	58-133
156-60-5	trans-1,2-Dichloroethene	ND		60.1	49.9	83	62-130
78-87-5	1,2-Dichloropropane	ND		60.1	55.5	92	70-127
10061-01-5	cis-1,3-Dichloropropene	ND		60.1	56.0	93	64-126
10061-02-6	trans-1,3-Dichloropropene	ND		60.1	51.1	85	61-127
100-41-4	Ethylbenzene	ND		60.1	48.2	80	51-133
76-13-1	Freon 113	ND		60.1	48.4	81	46-138
591-78-6	2-Hexanone	ND		240	205	85	45-144
98-82-8	Isopropylbenzene	ND		60.1	49.6	83	44-142
79-20-9	Methyl Acetate	ND		60.1	96.7	161	14-192
108-87-2	Methylcyclohexane	ND		60.1	40.6	68	27-149
1634-04-4	Methyl Tert Butyl Ether	ND		60.1	56.8	95	62-125

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD45898-2MS	I244694.D	1	06/09/22	PS	n/a	n/a	VI9932
JD45898-2	I244687.D	1	06/09/22	PS	n/a	n/a	VI9932

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD46224-1

CAS No.	Compound	JD45898-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		240	215	89	50-138
75-09-2	Methylene chloride	ND		60.1	51.1	85	63-127
100-42-5	Styrene	ND		60.1	49.6	83	48-143
79-34-5	1,1,2,2-Tetrachloroethane	ND		60.1	49.5	82	44-135
127-18-4	Tetrachloroethene	ND		60.1	43.0	72	38-146
108-88-3	Toluene	ND		60.1	49.8	83	56-135
87-61-6	1,2,3-Trichlorobenzene	ND		60.1	31.8	53	10-153
120-82-1	1,2,4-Trichlorobenzene	ND		60.1	33.2	55	10-158
71-55-6	1,1,1-Trichloroethane	ND		60.1	54.7	91	61-134
79-00-5	1,1,2-Trichloroethane	ND		60.1	54.5	91	62-133
79-01-6	Trichloroethene	ND		60.1	51.8	86	52-144
75-69-4	Trichlorofluoromethane	ND		60.1	53.6	89	50-141
75-01-4	Vinyl chloride	ND		60.1	25.5	42* [a]	48-151
	m,p-Xylene	ND		120	99.1	82	51-135
95-47-6	o-Xylene	ND		60.1	51.9	86	52-137
1330-20-7	Xylene (total)	ND		180	151	84	50-138

CAS No.	Surrogate Recoveries	MS	JD45898-2	Limits
1868-53-7	Dibromofluoromethane	100%	107%	80-124%
17060-07-0	1,2-Dichloroethane-D4	95%	110%	75-133%
2037-26-5	Toluene-D8	96%	97%	79-125%
460-00-4	4-Bromofluorobenzene	98%	96%	58-148%

(a) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD45898-4DUP	I244696.D	1	06/09/22	PS	n/a	n/a	VI9932
JD45898-4	I244688.D	1	06/09/22	PS	n/a	n/a	VI9932

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD46224-1

CAS No.	Compound	JD45898-4 ug/kg	Q	DUP ug/kg	Q	RPD	Limits
67-64-1	Acetone	ND		ND		nc	109
71-43-2	Benzene	ND		ND		nc	44
74-97-5	Bromochloromethane	ND		ND		nc	30
75-27-4	Bromodichloromethane	ND		ND		nc	22
75-25-2	Bromoform	ND		ND		nc	30
74-83-9	Bromomethane	ND		ND		nc	10
78-93-3	2-Butanone (MEK)	ND		ND		nc	15
75-15-0	Carbon disulfide	ND		ND		nc	43
56-23-5	Carbon tetrachloride	ND		ND		nc	38
108-90-7	Chlorobenzene	ND		ND		nc	11
75-00-3	Chloroethane	ND		ND		nc	10
67-66-3	Chloroform	ND		ND		nc	14
74-87-3	Chloromethane	ND		ND		nc	30
110-82-7	Cyclohexane	ND		ND		nc	44
96-12-8	1,2-Dibromo-3-chloropropane	ND		ND		nc	30
124-48-1	Dibromochloromethane	ND		ND		nc	10
106-93-4	1,2-Dibromoethane	ND		ND		nc	30
95-50-1	1,2-Dichlorobenzene	ND		ND		nc	10
541-73-1	1,3-Dichlorobenzene	ND		ND		nc	30
106-46-7	1,4-Dichlorobenzene	ND		ND		nc	10
75-71-8	Dichlorodifluoromethane	ND		ND		nc	30
75-34-3	1,1-Dichloroethane	ND		ND		nc	25
107-06-2	1,2-Dichloroethane	ND		ND		nc	10
75-35-4	1,1-Dichloroethene	ND		ND		nc	10
156-59-2	cis-1,2-Dichloroethene	ND		ND		nc	36
156-60-5	trans-1,2-Dichloroethene	ND		ND		nc	14
78-87-5	1,2-Dichloropropane	ND		ND		nc	30
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	30
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	30
100-41-4	Ethylbenzene	ND		ND		nc	35
76-13-1	Freon 113	ND		ND		nc	10
591-78-6	2-Hexanone	ND		ND		nc	10
98-82-8	Isopropylbenzene	ND		ND		nc	28
79-20-9	Methyl Acetate	ND		ND		nc	37
108-87-2	Methylcyclohexane	ND		ND		nc	43
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	21

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD45898-4DUP	I244696.D	1	06/09/22	PS	n/a	n/a	VI9932
JD45898-4	I244688.D	1	06/09/22	PS	n/a	n/a	VI9932

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD46224-1

CAS No.	Compound	JD45898-4 ug/kg	Q	DUP ug/kg	Q	RPD	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		ND		nc	10
75-09-2	Methylene chloride	ND		ND		nc	10
100-42-5	Styrene	ND		ND		nc	10
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	10
127-18-4	Tetrachloroethene	ND		ND		nc	43
108-88-3	Toluene	ND		ND		nc	37
87-61-6	1,2,3-Trichlorobenzene	ND		ND		nc	30
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	10
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	21
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	10
79-01-6	Trichloroethene	ND		ND		nc	44
75-69-4	Trichlorofluoromethane	ND		ND		nc	30
75-01-4	Vinyl chloride	ND		ND		nc	22
	m,p-Xylene	ND		ND		nc	44
95-47-6	o-Xylene	ND		ND		nc	45
1330-20-7	Xylene (total)	ND		ND		nc	60

CAS No.	Surrogate Recoveries	DUP	JD45898-4	Limits
1868-53-7	Dibromofluoromethane	101%	106%	80-124%
17060-07-0	1,2-Dichloroethane-D4	108%	106%	75-133%
2037-26-5	Toluene-D8	97%	98%	79-125%
460-00-4	4-Bromofluorobenzene	97%	100%	58-148%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: VI9874-BFB
Lab File ID: I243141.D
Instrument ID: GCMSI
Injection Date: 04/10/22
Injection Time: 15:11

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	26339	28.2		Pass
75	30.0 - 60.0% of mass 95	51019	54.5		Pass
95	Base peak, 100% relative abundance	93533	100.0		Pass
96	5.0 - 9.0% of mass 95	6686	7.15		Pass
173	Less than 2.0% of mass 174	795	0.85	(0.96) [a]	Pass
174	50.0 - 120.0% of mass 95	82405	88.1		Pass
175	5.0 - 9.0% of mass 174	6009	6.42	(7.29) [a]	Pass
176	95.0 - 101.0% of mass 174	79645	85.2	(96.7) [a]	Pass
177	5.0 - 9.0% of mass 176	5531	5.91	(6.94) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VI9874-IC9874	I243142.D	04/10/22	15:40	00:29	Initial cal 0.2
VI9874-IC9874	I243143.D	04/10/22	16:00	00:49	Initial cal 0.5
VI9874-IC9874	I243144.D	04/10/22	16:21	01:10	Initial cal 1
VI9874-IC9874	I243145.D	04/10/22	16:41	01:30	Initial cal 2
VI9874-IC9874	I243146.D	04/10/22	17:01	01:50	Initial cal 4
VI9874-IC9874	I243147.D	04/10/22	17:22	02:11	Initial cal 8
VI9874-IC9874	I243148.D	04/10/22	17:42	02:31	Initial cal 20
VI9874-ICC9874	I243149.D	04/10/22	18:02	02:51	Initial cal 50
VI9874-IC9874	I243150.D	04/10/22	18:23	03:12	Initial cal 100
VI9874-IC9874	I243151.D	04/10/22	18:43	03:32	Initial cal 200
VI9874-ICV9874	I243154.D	04/10/22	19:44	04:33	Initial cal verification 50
VI9874-ICV9874	I243155.D	04/10/22	20:04	04:53	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: VI9932-BFB
Lab File ID: I244680.D
Instrument ID: GCMSI
Injection Date: 06/09/22
Injection Time: 13:30

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	19044	21.4		Pass
75	30.0 - 60.0% of mass 95	45323	50.8		Pass
95	Base peak, 100% relative abundance	89176	100.0		Pass
96	5.0 - 9.0% of mass 95	6430	7.21		Pass
173	Less than 2.0% of mass 174	725	0.81	(0.85) [a]	Pass
174	50.0 - 120.0% of mass 95	85093	95.4		Pass
175	5.0 - 9.0% of mass 174	6375	7.15	(7.49) [a]	Pass
176	95.0 - 101.0% of mass 174	81536	91.4	(95.8) [a]	Pass
177	5.0 - 9.0% of mass 176	5499	6.17	(6.74) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VI9932-CC9874	I244680.D	06/09/22	13:30	00:00	Continuing cal 50
VI9932-BS	I244682.D	06/09/22	14:31	01:01	Blank Spike
VI9932-MB	I244684.D	06/09/22	15:31	02:01	Method Blank
JD46224-1	I244685.D	06/09/22	15:56	02:26	ALLTIFT-060722-SOIL
ZZZZZZ	I244686.D	06/09/22	16:21	02:51	(unrelated sample)
JD45898-2	I244687.D	06/09/22	16:46	03:16	(used for QC only; not part of job JD46224)
JD45898-4	I244688.D	06/09/22	17:11	03:41	(used for QC only; not part of job JD46224)
ZZZZZZ	I244689.D	06/09/22	17:36	04:06	(unrelated sample)
ZZZZZZ	I244690.D	06/09/22	18:01	04:31	(unrelated sample)
ZZZZZZ	I244691.D	06/09/22	18:26	04:56	(unrelated sample)
ZZZZZZ	I244692.D	06/09/22	18:51	05:21	(unrelated sample)
ZZZZZZ	I244693.D	06/09/22	19:16	05:46	(unrelated sample)
JD45898-2MS	I244694.D	06/09/22	19:41	06:11	Matrix Spike
JD45898-4DUP	I244696.D	06/09/22	20:31	07:01	Duplicate
ZZZZZZ	I244697.D	06/09/22	20:56	07:26	(unrelated sample)
ZZZZZZ	I244698.D	06/09/22	21:21	07:51	(unrelated sample)
ZZZZZZ	I244699.D	06/09/22	21:46	08:16	(unrelated sample)
ZZZZZZ	I244700.D	06/09/22	22:11	08:41	(unrelated sample)
ZZZZZZ	I244701.D	06/09/22	22:36	09:06	(unrelated sample)
ZZZZZZ	I244702.D	06/09/22	23:01	09:31	(unrelated sample)
ZZZZZZ	I244703.D	06/09/22	23:26	09:56	(unrelated sample)
ZZZZZZ	I244704.D	06/09/22	23:51	10:21	(unrelated sample)
ZZZZZZ	I244705.D	06/10/22	00:16	10:46	(unrelated sample)
ZZZZZZ	I244706.D	06/10/22	00:41	11:11	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample:	VI9932-BFB	**Injection Date:**	06/09/22
Lab File ID:	I244680.D	**Injection Time:**	13:30
Instrument ID:	GCMSI		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	I244707.D	06/10/22	01:06	11:36	(unrelated sample)

Surrogate Recovery Summary

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Method: SW846 8260D **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JD46224-1	I244685.D	105	111	98	99
JD45898-2MS	I244694.D	100	95	96	98
JD45898-4DUP	I244696.D	101	108	97	97
VI9932-BS	I244682.D	102	95	97	102
VI9932-MB	I244684.D	103	100	98	98

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	80-124%
S2 = 1,2-Dichloroethane-D4	75-133%
S3 = Toluene-D8	79-125%
S4 = 4-Bromofluorobenzene	58-148%

MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Isotope Dilution Standard/Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40216-MB1	2P108269.D	1	06/15/22	CS	06/14/22	OP40216	E2P4896

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD46224-1

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	67	16	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	20	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	28	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	59	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	170	130	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	170	36	ug/kg	
95-48-7	2-Methylphenol	ND	67	21	ug/kg	
	3&4-Methylphenol	ND	67	27	ug/kg	
88-75-5	2-Nitrophenol	ND	170	22	ug/kg	
100-02-7	4-Nitrophenol	ND	330	89	ug/kg	
87-86-5	Pentachlorophenol	ND	130	31	ug/kg	
108-95-2	Phenol	ND	67	17	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	22	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	25	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
83-32-9	Acenaphthene	ND	33	11	ug/kg	
208-96-8	Acenaphthylene	ND	33	17	ug/kg	
98-86-2	Acetophenone	ND	170	7.2	ug/kg	
120-12-7	Anthracene	ND	33	20	ug/kg	
1912-24-9	Atrazine	ND	67	14	ug/kg	
56-55-3	Benzo(a)anthracene	ND	33	9.4	ug/kg	
50-32-8	Benzo(a)pyrene	ND	33	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	33	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	33	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	33	16	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	67	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	67	8.1	ug/kg	
92-52-4	1,1'-Biphenyl	6.3	67	4.6	ug/kg	J
100-52-7	Benzaldehyde	ND	170	8.3	ug/kg	
91-58-7	2-Chloronaphthalene	ND	67	7.9	ug/kg	
106-47-8	4-Chloroaniline	ND	170	12	ug/kg	
86-74-8	Carbazole	ND	67	4.8	ug/kg	
105-60-2	Caprolactam	ND	67	13	ug/kg	
218-01-9	Chrysene	ND	33	10	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	67	7.1	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	67	14	ug/kg	

Method Blank Summary

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40216-MB1	2P108269.D	1	06/15/22	CS	06/14/22	OP40216	E2P4896

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD46224-1

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	67	12	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	67	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	33	10	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	33	17	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	67	28	ug/kg	
123-91-1	1,4-Dioxane	ND	33	22	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	15	ug/kg	
132-64-9	Dibenzofuran	ND	67	14	ug/kg	
84-74-2	Di-n-butyl phthalate	8.6	67	5.4	ug/kg	J
117-84-0	Di-n-octyl phthalate	59.0	67	8.3	ug/kg	J
84-66-2	Diethyl phthalate	ND	67	7.1	ug/kg	
131-11-3	Dimethyl phthalate	ND	67	5.9	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	8.2	67	7.8	ug/kg	J
206-44-0	Fluoranthene	ND	33	15	ug/kg	
86-73-7	Fluorene	ND	33	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	67	8.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	33	13	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	330	13	ug/kg	
67-72-1	Hexachloroethane	ND	170	16	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33	16	ug/kg	
78-59-1	Isophorone	ND	67	7.1	ug/kg	
91-57-6	2-Methylnaphthalene	ND	33	7.5	ug/kg	
88-74-4	2-Nitroaniline	ND	170	7.9	ug/kg	
99-09-2	3-Nitroaniline	ND	170	8.3	ug/kg	
100-01-6	4-Nitroaniline	ND	170	8.6	ug/kg	
91-20-3	Naphthalene	ND	33	9.4	ug/kg	
98-95-3	Nitrobenzene	ND	67	13	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	67	9.6	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	12	ug/kg	
85-01-8	Phenanthrene	ND	33	11	ug/kg	
129-00-0	Pyrene	ND	33	11	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	8.5	ug/kg	

Method Blank Summary

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40216-MB1	2P108269.D	1	06/15/22	CS	06/14/22	OP40216	E2P4896

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD46224-1

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	57%	10-99%
4165-62-2	Phenol-d5	58%	10-96%
118-79-6	2,4,6-Tribromophenol	53%	10-123%
4165-60-0	Nitrobenzene-d5	77%	10-109%
321-60-8	2-Fluorobiphenyl	63%	11-109%
1718-51-0	Terphenyl-d14	70%	10-120%

Method Blank Summary

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40216-MB1	P150063.D	1	06/15/22	CS	06/14/22	OP40216	EP6939

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD46224-1

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	67	16	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	20	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	28	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	59	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	170	130	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	170	36	ug/kg	
95-48-7	2-Methylphenol	ND	67	21	ug/kg	
	3&4-Methylphenol	ND	67	27	ug/kg	
88-75-5	2-Nitrophenol	ND	170	22	ug/kg	
100-02-7	4-Nitrophenol	ND	330	89	ug/kg	
87-86-5	Pentachlorophenol	ND	130	31	ug/kg	
108-95-2	Phenol	ND	67	17	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	22	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	25	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
83-32-9	Acenaphthene	ND	33	11	ug/kg	
208-96-8	Acenaphthylene	ND	33	17	ug/kg	
98-86-2	Acetophenone	ND	170	7.2	ug/kg	
120-12-7	Anthracene	ND	33	20	ug/kg	
1912-24-9	Atrazine	ND	67	14	ug/kg	
56-55-3	Benzo(a)anthracene	ND	33	9.4	ug/kg	
50-32-8	Benzo(a)pyrene	ND	33	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	33	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	33	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	33	16	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	67	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	67	8.1	ug/kg	
92-52-4	1,1'-Biphenyl	ND	67	4.6	ug/kg	
100-52-7	Benzaldehyde	ND	170	8.3	ug/kg	
91-58-7	2-Chloronaphthalene	ND	67	7.9	ug/kg	
106-47-8	4-Chloroaniline	ND	170	12	ug/kg	
86-74-8	Carbazole	ND	67	4.8	ug/kg	
105-60-2	Caprolactam	ND	67	13	ug/kg	
218-01-9	Chrysene	ND	33	10	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	67	7.1	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	67	14	ug/kg	

Method Blank Summary

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40216-MB1	P150063.D	1	06/15/22	CS	06/14/22	OP40216	EP6939

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD46224-1

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	67	12	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	67	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	33	10	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	33	17	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	67	28	ug/kg	
123-91-1	1,4-Dioxane	ND	33	22	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	15	ug/kg	
132-64-9	Dibenzofuran	ND	67	14	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	67	5.4	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	67	8.3	ug/kg	
84-66-2	Diethyl phthalate	ND	67	7.1	ug/kg	
131-11-3	Dimethyl phthalate	ND	67	5.9	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	67	7.8	ug/kg	
206-44-0	Fluoranthene	ND	33	15	ug/kg	
86-73-7	Fluorene	ND	33	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	67	8.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	33	13	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	330	13	ug/kg	
67-72-1	Hexachloroethane	ND	170	16	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33	16	ug/kg	
78-59-1	Isophorone	ND	67	7.1	ug/kg	
91-57-6	2-Methylnaphthalene	ND	33	7.5	ug/kg	
88-74-4	2-Nitroaniline	ND	170	7.9	ug/kg	
99-09-2	3-Nitroaniline	ND	170	8.3	ug/kg	
100-01-6	4-Nitroaniline	ND	170	8.6	ug/kg	
91-20-3	Naphthalene	ND	33	9.4	ug/kg	
98-95-3	Nitrobenzene	ND	67	13	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	67	9.6	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	12	ug/kg	
85-01-8	Phenanthrene	ND	33	11	ug/kg	
129-00-0	Pyrene	ND	33	11	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	8.5	ug/kg	

Method Blank Summary

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40216-MB1	P150063.D	1	06/15/22	CS	06/14/22	OP40216	EP6939

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD46224-1

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	59%	10-99%
4165-62-2	Phenol-d5	57%	10-96%
118-79-6	2,4,6-Tribromophenol	67%	10-123%
4165-60-0	Nitrobenzene-d5	63%	10-109%
321-60-8	2-Fluorobiphenyl	62%	11-109%
1718-51-0	Terphenyl-d14	67%	10-120%

Blank Spike Summary

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40216-BS1	2P108270.D	1	06/15/22	CS	06/14/22	OP40216	E2P4896

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD46224-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-57-8	2-Chlorophenol	1670	935	56	10-135
59-50-7	4-Chloro-3-methyl phenol	1670	1060	64	10-141
120-83-2	2,4-Dichlorophenol	1670	1000	60	10-139
105-67-9	2,4-Dimethylphenol	1670	990	59	10-141
51-28-5	2,4-Dinitrophenol	3330	2650	80	10-138
534-52-1	4,6-Dinitro-o-cresol	1670	1570	94	10-156
95-48-7	2-Methylphenol	1670	994	60	10-139
	3&4-Methylphenol	3330	2050	62	10-174
88-75-5	2-Nitrophenol	1670	1480	89	10-142
100-02-7	4-Nitrophenol	1670	758	45	10-144
87-86-5	Pentachlorophenol	3330	1450	44	10-165
108-95-2	Phenol	1670	965	58	23-115
58-90-2	2,3,4,6-Tetrachlorophenol	1670	983	59	10-146
95-95-4	2,4,5-Trichlorophenol	1670	1050	63	13-136
88-06-2	2,4,6-Trichlorophenol	1670	1050	63	10-142
83-32-9	Acenaphthene	1670	1050	63	10-141
208-96-8	Acenaphthylene	1670	776	47	10-133
98-86-2	Acetophenone	1670	979	59	23-115
120-12-7	Anthracene	1670	1080	65	10-144
1912-24-9	Atrazine	1670	1340	80	17-149
56-55-3	Benzo(a)anthracene	1670	1230	74	11-139
50-32-8	Benzo(a)pyrene	1670	1330	80	13-141
205-99-2	Benzo(b)fluoranthene	1670	1370	82	14-140
191-24-2	Benzo(g,h,i)perylene	1670	1060	64	13-138
207-08-9	Benzo(k)fluoranthene	1670	1170	70	12-140
101-55-3	4-Bromophenyl phenyl ether	1670	1050	63	10-146
85-68-7	Butyl benzyl phthalate	1670	1540	92	10-150
92-52-4	1,1'-Biphenyl	1670	1080	65	10-141
100-52-7	Benzaldehyde	1670	1020	61	10-146
91-58-7	2-Chloronaphthalene	1670	1030	62	10-142
106-47-8	4-Chloroaniline	1670	517	31	10-108
86-74-8	Carbazole	1670	1120	67	10-145
105-60-2	Caprolactam	1670	1930	116	10-187
218-01-9	Chrysene	1670	1130	68	11-139
111-91-1	bis(2-Chloroethoxy)methane	1670	979	59	10-144
111-44-4	bis(2-Chloroethyl)ether	1670	909	55	10-145

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40216-BS1	2P108270.D	1	06/15/22	CS	06/14/22	OP40216	E2P4896

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD46224-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-60-1	2,2'-Oxybis(1-chloropropane)	1670	855	51	10-145
7005-72-3	4-Chlorophenyl phenyl ether	1670	983	59	10-145
121-14-2	2,4-Dinitrotoluene	1670	1350	81	10-148
606-20-2	2,6-Dinitrotoluene	1670	1360	82	12-145
91-94-1	3,3'-Dichlorobenzidine	1670	860	52	10-100
123-91-1	1,4-Dioxane	1670	525	32	10-97
53-70-3	Dibenzo(a,h)anthracene	1670	1050	63	14-142
132-64-9	Dibenzofuran	1670	1040	62	10-140
84-74-2	Di-n-butyl phthalate	1670	1250	75	11-147
117-84-0	Di-n-octyl phthalate	1670	1620	97	15-145
84-66-2	Diethyl phthalate	1670	1050	63	10-145
131-11-3	Dimethyl phthalate	1670	1050	63	10-144
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1500	90	26-132
206-44-0	Fluoranthene	1670	1180	71	10-147
86-73-7	Fluorene	1670	1060	64	12-139
118-74-1	Hexachlorobenzene	1670	973	58	10-144
87-68-3	Hexachlorobutadiene	1670	822	49	10-142
77-47-4	Hexachlorocyclopentadiene	3330	973	29	10-120
67-72-1	Hexachloroethane	1670	783	47	10-141
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1110	67	13-144
78-59-1	Isophorone	1670	985	59	10-139
91-57-6	2-Methylnaphthalene	1670	968	58	10-140
88-74-4	2-Nitroaniline	1670	1650	99	10-148
99-09-2	3-Nitroaniline	1670	920	55	10-127
100-01-6	4-Nitroaniline	1670	1160	70	10-143
91-20-3	Naphthalene	1670	963	58	10-141
98-95-3	Nitrobenzene	1670	1210	73	10-139
621-64-7	N-Nitroso-di-n-propylamine	1670	1010	61	10-143
86-30-6	N-Nitrosodiphenylamine	1670	1120	67	10-145
85-01-8	Phenanthrene	1670	1050	63	10-142
129-00-0	Pyrene	1670	1190	71	13-141
95-94-3	1,2,4,5-Tetrachlorobenzene	1670	943	57	10-143

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40216-BS1	2P108270.D	1	06/15/22	CS	06/14/22	OP40216	E2P4896

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD46224-1

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	59%	10-99%
4165-62-2	Phenol-d5	56%	10-96%
118-79-6	2,4,6-Tribromophenol	58%	10-123%
4165-60-0	Nitrobenzene-d5	72%	10-109%
321-60-8	2-Fluorobiphenyl	60%	11-109%
1718-51-0	Terphenyl-d14	70%	10-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40216-BS1	P150064.D	1	06/15/22	CS	06/14/22	OP40216	EP6939

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD46224-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-57-8	2-Chlorophenol	1670	927	56	10-135
59-50-7	4-Chloro-3-methyl phenol	1670	1020	61	10-141
120-83-2	2,4-Dichlorophenol	1670	1070	64	10-139
105-67-9	2,4-Dimethylphenol	1670	959	58	10-141
51-28-5	2,4-Dinitrophenol	3330	1810	54	10-138
534-52-1	4,6-Dinitro-o-cresol	1670	1250	75	10-156
95-48-7	2-Methylphenol	1670	1010	61	10-139
	3&4-Methylphenol	3330	1840	55	10-174
88-75-5	2-Nitrophenol	1670	970	58	10-142
100-02-7	4-Nitrophenol	1670	1050	63	10-144
87-86-5	Pentachlorophenol	3330	2050	62	10-165
108-95-2	Phenol	1670	908	54	23-115
58-90-2	2,3,4,6-Tetrachlorophenol	1670	1070	64	10-146
95-95-4	2,4,5-Trichlorophenol	1670	1060	64	13-136
88-06-2	2,4,6-Trichlorophenol	1670	1040	62	10-142
83-32-9	Acenaphthene	1670	1020	61	10-141
208-96-8	Acenaphthylene	1670	774	46	10-133
98-86-2	Acetophenone	1670	944	57	23-115
120-12-7	Anthracene	1670	1040	62	10-144
1912-24-9	Atrazine	1670	1340	80	17-149
56-55-3	Benzo(a)anthracene	1670	1130	68	11-139
50-32-8	Benzo(a)pyrene	1670	1110	67	13-141
205-99-2	Benzo(b)fluoranthene	1670	1140	68	14-140
191-24-2	Benzo(g,h,i)perylene	1670	1180	71	13-138
207-08-9	Benzo(k)fluoranthene	1670	1100	66	12-140
101-55-3	4-Bromophenyl phenyl ether	1670	1100	66	10-146
85-68-7	Butyl benzyl phthalate	1670	1180	71	10-150
92-52-4	1,1'-Biphenyl	1670	995	60	10-141
100-52-7	Benzaldehyde	1670	1020	61	10-146
91-58-7	2-Chloronaphthalene	1670	988	59	10-142
106-47-8	4-Chloroaniline	1670	546	33	10-108
86-74-8	Carbazole	1670	1030	62	10-145
105-60-2	Caprolactam	1670	1430	86	10-187
218-01-9	Chrysene	1670	1120	67	11-139
111-91-1	bis(2-Chloroethoxy)methane	1670	981	59	10-144
111-44-4	bis(2-Chloroethyl)ether	1670	887	53	10-145

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40216-BS1	P150064.D	1	06/15/22	CS	06/14/22	OP40216	EP6939

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD46224-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-60-1	2,2'-Oxybis(1-chloropropane)	1670	956	57	10-145
7005-72-3	4-Chlorophenyl phenyl ether	1670	1090	65	10-145
121-14-2	2,4-Dinitrotoluene	1670	1110	67	10-148
606-20-2	2,6-Dinitrotoluene	1670	1190	71	12-145
91-94-1	3,3'-Dichlorobenzidine	1670	740	44	10-100
123-91-1	1,4-Dioxane	1670	566	34	10-97
53-70-3	Dibenzo(a,h)anthracene	1670	1160	70	14-142
132-64-9	Dibenzofuran	1670	1030	62	10-140
84-74-2	Di-n-butyl phthalate	1670	1160	70	11-147
117-84-0	Di-n-octyl phthalate	1670	1300	78	15-145
84-66-2	Diethyl phthalate	1670	1080	65	10-145
131-11-3	Dimethyl phthalate	1670	1030	62	10-144
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1240	74	26-132
206-44-0	Fluoranthene	1670	1180	71	10-147
86-73-7	Fluorene	1670	1080	65	12-139
118-74-1	Hexachlorobenzene	1670	1090	65	10-144
87-68-3	Hexachlorobutadiene	1670	962	58	10-142
77-47-4	Hexachlorocyclopentadiene	3330	1030	31	10-120
67-72-1	Hexachloroethane	1670	900	54	10-141
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1230	74	13-144
78-59-1	Isophorone	1670	956	57	10-139
91-57-6	2-Methylnaphthalene	1670	1020	61	10-140
88-74-4	2-Nitroaniline	1670	1060	64	10-148
99-09-2	3-Nitroaniline	1670	708	42	10-127
100-01-6	4-Nitroaniline	1670	953	57	10-143
91-20-3	Naphthalene	1670	999	60	10-141
98-95-3	Nitrobenzene	1670	1020	61	10-139
621-64-7	N-Nitroso-di-n-propylamine	1670	975	59	10-143
86-30-6	N-Nitrosodiphenylamine	1670	1130	68	10-145
85-01-8	Phenanthrene	1670	1040	62	10-142
129-00-0	Pyrene	1670	1180	71	13-141
95-94-3	1,2,4,5-Tetrachlorobenzene	1670	1050	63	10-143

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40216-BS1	P150064.D	1	06/15/22	CS	06/14/22	OP40216	EP6939

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD46224-1

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	56%	10-99%
4165-62-2	Phenol-d5	52%	10-96%
118-79-6	2,4,6-Tribromophenol	73%	10-123%
4165-60-0	Nitrobenzene-d5	59%	10-109%
321-60-8	2-Fluorobiphenyl	60%	11-109%
1718-51-0	Terphenyl-d14	70%	10-120%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40216-MS [a]	P150078.D	1	06/15/22	CS	06/14/22	OP40216	EP6939
OP40216-MSD	P150079.D	1	06/15/22	CS	06/14/22	OP40216	EP6939
JD46222-1	P150080.D	1	06/15/22	CS	06/14/22	OP40216	EP6939

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD46224-1

CAS No.	Compound	JD46222-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		1880	933	50	1820	936	51	0	10-137/86
59-50-7	4-Chloro-3-methyl phenol	ND		1880	1000	53	1820	1170	64	16	10-146/84
120-83-2	2,4-Dichlorophenol	ND		1880	1020	54	1820	1010	55	1	10-145/86
105-67-9	2,4-Dimethylphenol	ND		1880	899	48	1820	954	52	6	10-148/87
51-28-5	2,4-Dinitrophenol	ND		3770	1120	30	3640	1170	32	4	10-118/90
534-52-1	4,6-Dinitro-o-cresol	ND		1880	980	52	1820	1050	58	7	10-131/97
95-48-7	2-Methylphenol	ND		1880	929	49	1820	998	55	7	10-143/86
	3&4-Methylphenol	ND		3770	1810	48	3640	1890	52	4	10-162/87
88-75-5	2-Nitrophenol	ND		1880	1020	54	1820	994	55	3	10-147/93
100-02-7	4-Nitrophenol	ND		1880	959	51	1820	1010	55	5	10-152/85
87-86-5	Pentachlorophenol	ND		3770	1950	52	3640	1800	50	8	10-146/89
108-95-2	Phenol	ND		1880	726	39	1820	1060	58	37	10-118/84
58-90-2	2,3,4,6-Tetrachlorophenol	ND		1880	1030	55	1820	1050	58	2	10-139/87
95-95-4	2,4,5-Trichlorophenol	ND		1880	1010	54	1820	1120	61	10	10-140/86
88-06-2	2,4,6-Trichlorophenol	ND		1880	1010	54	1820	1010	55	0	10-141/86
83-32-9	Acenaphthene	ND		1880	994	53	1820	1060	58	6	10-156/87
208-96-8	Acenaphthylene	ND		1880	774	41	1820	793	44	2	10-143/84
98-86-2	Acetophenone	ND		1880	919	49	1820	981	54	7	10-130/90
120-12-7	Anthracene	ND		1880	1070	57	1820	1080	59	1	10-166/88
1912-24-9	Atrazine	ND		1880	1380	73	1820	1390	76	1	10-148/86
56-55-3	Benzo(a)anthracene	ND		1880	1100	58	1820	1130	62	3	10-163/88
50-32-8	Benzo(a)pyrene	ND		1880	1100	58	1820	1140	63	4	10-163/89
205-99-2	Benzo(b)fluoranthene	ND		1880	1160	62	1820	1100	60	5	10-156/91
191-24-2	Benzo(g,h,i)perylene	ND		1880	1180	63	1820	1400	77	17	10-158/89
207-08-9	Benzo(k)fluoranthene	ND		1880	1090	58	1820	1070	59	2	10-157/86
101-55-3	4-Bromophenyl phenyl ether	ND		1880	1150	61	1820	1140	63	1	10-143/87
85-68-7	Butyl benzyl phthalate	ND		1880	1260	67	1820	1440	79	13	10-161/89
92-52-4	1,1'-Biphenyl	ND		1880	988	52	1820	1030	57	4	10-143/86
100-52-7	Benzaldehyde	ND		1880	889	47	1820	1010	55	13	10-148/88
91-58-7	2-Chloronaphthalene	ND		1880	956	51	1820	993	54	4	10-145/86
106-47-8	4-Chloroaniline	ND		1880	ND	0* [b]	1820	839	46	200* [c]	10-109/87
86-74-8	Carbazole	ND		1880	1030	55	1820	1050	58	2	10-158/87
105-60-2	Caprolactam	ND		1880	1220	65	1820	1390	76	13	10-150/82
218-01-9	Chrysene	ND		1880	1070	57	1820	1130	62	5	10-164/87
111-91-1	bis(2-Chloroethoxy)methane	ND		1880	1000	53	1820	996	55	0	10-152/86
111-44-4	bis(2-Chloroethyl)ether	ND		1880	768	41	1820	955	52	22	10-147/86

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40216-MS [a]	P150078.D	1	06/15/22	CS	06/14/22	OP40216	EP6939
OP40216-MSD	P150079.D	1	06/15/22	CS	06/14/22	OP40216	EP6939
JD46222-1	P150080.D	1	06/15/22	CS	06/14/22	OP40216	EP6939

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD46224-1

CAS No.	Compound	JD46222-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
108-60-1	2,2'-Oxybis(1-chloropropane)	ND		1880	940	50	1820	999	55	6	10-134/88
7005-72-3	4-Chlorophenyl phenyl ether	ND		1880	1030	55	1820	1040	57	1	10-142/87
121-14-2	2,4-Dinitrotoluene	ND		1880	1120	59	1820	1140	63	2	10-147/86
606-20-2	2,6-Dinitrotoluene	ND		1880	1130	60	1820	1180	65	4	10-147/88
91-94-1	3,3'-Dichlorobenzidine	ND		1880	ND	0* [b]	1820	1180	64	200* [c]	10-106/93
123-91-1	1,4-Dioxane	ND		1880	529	28	1820	553	30	4	10-102/85
53-70-3	Dibenzo(a,h)anthracene	ND		1880	1140	61	1820	1350	74	17	10-149/89
132-64-9	Dibenzofuran	ND		1880	1050	56	1820	1060	58	1	10-155/86
84-74-2	Di-n-butyl phthalate	ND		1880	1130	60	1820	1160	64	3	10-158/86
117-84-0	Di-n-octyl phthalate	ND		1880	1350	72	1820	1320	72	2	10-154/84
84-66-2	Diethyl phthalate	ND		1880	1100	58	1820	1090	60	1	10-148/84
131-11-3	Dimethyl phthalate	ND		1880	1060	56	1820	1060	58	0	10-144/85
117-81-7	bis(2-Ethylhexyl)phthalate	ND		1880	1290	68	1820	1330	73	3	10-153/84
206-44-0	Fluoranthene	ND		1880	1100	58	1820	1130	62	3	10-165/93
86-73-7	Fluorene	ND		1880	1030	55	1820	1090	60	6	10-158/87
118-74-1	Hexachlorobenzene	ND		1880	1060	56	1820	1120	61	6	10-139/85
87-68-3	Hexachlorobutadiene	ND		1880	969	51	1820	1040	57	7	10-139/88
77-47-4	Hexachlorocyclopentadiene	ND		3770	995	26	3640	1030	28	3	10-116/30
67-72-1	Hexachloroethane	ND		1880	897	48	1820	1040	57	15	10-141/93
193-39-5	Indeno(1,2,3-cd)pyrene	ND		1880	1200	64	1820	1420	78	17	10-160/91
78-59-1	Isophorone	ND		1880	1000	53	1820	1010	55	1	10-150/86
91-57-6	2-Methylnaphthalene	ND		1880	1030	55	1820	1180	65	14	10-145/86
88-74-4	2-Nitroaniline	ND		1880	ND	0* [b]	1820	1340	74	200* [c]	10-152/77
99-09-2	3-Nitroaniline	ND		1880	ND	0* [b]	1820	1090	60	200* [c]	10-136/83
100-01-6	4-Nitroaniline	ND		1880	ND	0* [b]	1820	1150	63	200* [c]	10-140/81
91-20-3	Naphthalene	ND		1880	964	51	1820	1010	55	5	10-146/87
98-95-3	Nitrobenzene	ND		1880	947	50	1820	1040	57	9	10-146/88
621-64-7	N-Nitroso-di-n-propylamine	ND		1880	ND	0* [b]	1820	1210	66	200* [c]	10-147/77
86-30-6	N-Nitrosodiphenylamine	ND		1880	ND	0* [b]	1820	1470	81	200* [c]	10-159/78
85-01-8	Phenanthrene	ND		1880	1050	56	1820	1080	59	3	10-158/95
129-00-0	Pyrene	ND		1880	1180	63	1820	1160	64	2	10-176/90
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		1880	990	53	1820	1030	57	4	10-137/87

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40216-MS [a]	P150078.D	1	06/15/22	CS	06/14/22	OP40216	EP6939
OP40216-MSD	P150079.D	1	06/15/22	CS	06/14/22	OP40216	EP6939
JD46222-1	P150080.D	1	06/15/22	CS	06/14/22	OP40216	EP6939

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD46224-1

CAS No.	Surrogate Recoveries	MS	MSD	JD46222-1	Limits
367-12-4	2-Fluorophenol	47%	65%		10-99%
4165-62-2	Phenol-d5	42%	62%		10-96%
118-79-6	2,4,6-Tribromophenol	67%	83%		10-123%
4165-60-0	Nitrobenzene-d5	57%	75%	50%	10-109%
321-60-8	2-Fluorobiphenyl	56%	70%	52%	11-109%
1718-51-0	Terphenyl-d14	64%	75%	54%	10-120%

(a) Aniline spike standard was not added.
(b) The spike standard was not added.
(c) Analytical precision exceeds in-house control limits.

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: E2P4852-DFTPP
Lab File ID: 2P107411.D
Instrument ID: GCMS2P
Injection Date: 05/12/22
Injection Time: 12:04

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	131868	30.2		Pass
68	Less than 2.0% of mass 69	1789	0.41	(0.99) [a]	Pass
69	Mass 69 relative abundance	181289	41.5		Pass
70	Less than 2.0% of mass 69	838	0.19	(0.46) [a]	Pass
127	40.0 - 60.0% of mass 198	223904	51.2		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	437163	100.0		Pass
199	5.0 - 9.0% of mass 198	28888	6.61		Pass
275	10.0 - 30.0% of mass 198	96517	22.1		Pass
365	1.0 - 100.0% of mass 198	10600	2.42		Pass
441	Present, but less than mass 443	30766	7.04	(79.8) [b]	Pass
442	40.0 - 100.0% of mass 198	203773	46.6		Pass
443	17.0 - 23.0% of mass 442	38576	8.82	(18.9) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E2P4852-IC4852	2P107412.D	05/12/22	12:31	00:27	Initial cal 100
E2P4852-ICC4852	2P107413.D	05/12/22	13:12	01:08	Initial cal 50
E2P4852-IC4852	2P107414.D	05/12/22	13:59	01:55	Initial cal 25
E2P4852-IC4852	2P107415.D	05/12/22	14:42	02:38	Initial cal 80
E2P4852-IC4852	2P107416.D	05/12/22	15:07	03:03	Initial cal 5
E2P4852-IC4852	2P107417.D	05/12/22	16:01	03:57	Initial cal 10
E2P4852-IC4852	2P107418.D	05/12/22	16:25	04:21	Initial cal 2
E2P4852-IC4852	2P107419.D	05/12/22	16:50	04:46	Initial cal 1
E2P4852-ICV4852	2P107420.D	05/12/22	17:15	05:11	Initial cal verification 50
E2P4852-ICV4852	2P107421.D	05/12/22	17:39	05:35	Initial cal verification 50
E2P4852-ICV4852	2P107422.D	05/12/22	18:04	06:00	Initial cal verification 50
E2P4852-ICV4852	2P107423.D	05/12/22	18:29	06:25	Initial cal verification 50
E2P4852-ICV4852	2P107424.D	05/12/22	18:54	06:50	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: E2P4854-DFTPP
Lab File ID: 2P107436.D
Instrument ID: GCMS2P
Injection Date: 05/12/22
Injection Time: 23:19

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	151180	32.3		Pass
68	Less than 2.0% of mass 69	2626	0.56	(1.29) [a]	Pass
69	Mass 69 relative abundance	204350	43.6		Pass
70	Less than 2.0% of mass 69	926	0.20	(0.45) [a]	Pass
127	40.0 - 60.0% of mass 198	240429	51.3		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	468544	100.0		Pass
199	5.0 - 9.0% of mass 198	31990	6.83		Pass
275	10.0 - 30.0% of mass 198	97968	20.9		Pass
365	1.0 - 100.0% of mass 198	10566	2.26		Pass
441	Present, but less than mass 443	29318	6.26	(75.7) [b]	Pass
442	40.0 - 100.0% of mass 198	201495	43.0		Pass
443	17.0 - 23.0% of mass 442	38734	8.27	(19.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E2P4854-IC4854	2P107437.D	05/12/22	23:29	00:10	Initial cal 100
E2P4854-IC4854	2P107438.D	05/12/22	23:53	00:34	Initial cal 80
E2P4854-ICC4854	2P107439.D	05/13/22	00:17	00:58	Initial cal 50
E2P4854-IC4854	2P107440.D	05/13/22	00:41	01:22	Initial cal 25
E2P4854-IC4854	2P107441.D	05/13/22	01:05	01:46	Initial cal 10
E2P4854-IC4854	2P107442.D	05/13/22	01:30	02:11	Initial cal 5
E2P4854-IC4854	2P107443.D	05/13/22	01:54	02:35	Initial cal 2
E2P4854-IC4854	2P107444.D	05/13/22	02:19	03:00	Initial cal 1
E2P4854-ICV4854	2P107445.D	05/13/22	02:43	03:24	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: E2P4896-DFTPP
Lab File ID: 2P108264.D
Instrument ID: GCMS2P
Injection Date: 06/15/22
Injection Time: 01:28

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	99264	42.2		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	131907	56.1		Pass
70	Less than 2.0% of mass 69	928	0.39	(0.70) [a]	Pass
127	40.0 - 60.0% of mass 198	122562	52.1		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	235145	100.0		Pass
199	5.0 - 9.0% of mass 198	15140	6.44		Pass
275	10.0 - 30.0% of mass 198	48568	20.7		Pass
365	1.0 - 100.0% of mass 198	5516	2.35		Pass
441	Present, but less than mass 443	21108	8.98	(88.9) [b]	Pass
442	40.0 - 100.0% of mass 198	127835	54.4		Pass
443	17.0 - 23.0% of mass 442	23749	10.1	(18.6) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E2P4896-CC4852	2P108265.D	06/15/22	01:42	00:14	Continuing cal 25
E2P4896-CC4854	2P108266.D	06/15/22	02:06	00:38	Continuing cal 25
OP40216-MB1	2P108269.D	06/15/22	03:22	01:54	Method Blank
OP40216-BS1	2P108270.D	06/15/22	03:46	02:18	Blank Spike
OP40132-MB1	2P108271.D	06/15/22	04:23	02:55	Method Blank
OP40132-BS1	2P108272.D	06/15/22	04:47	03:19	Blank Spike
ZZZZZZ	2P108273.D	06/15/22	05:14	03:46	(unrelated sample)
JD46224-1	2P108274.D	06/15/22	05:38	04:10	ALLTIFT-060722-SOIL
ZZZZZZ	2P108275.D	06/15/22	06:02	04:34	(unrelated sample)
ZZZZZZ	2P108276.D	06/15/22	06:27	04:59	(unrelated sample)
ZZZZZZ	2P108277.D	06/15/22	06:51	05:23	(unrelated sample)
OP40132-MS	2P108278.D	06/15/22	07:15	05:47	Matrix Spike
OP40132-MSD	2P108279.D	06/15/22	07:39	06:11	Matrix Spike Duplicate
JD45552-9A	2P108280.D	06/15/22	08:03	06:35	(used for QC only; not part of job JD46224)
ZZZZZZ	2P108281.D	06/15/22	08:27	06:59	(unrelated sample)
ZZZZZZ	2P108282.D	06/15/22	08:51	07:23	(unrelated sample)
ZZZZZZ	2P108283.D	06/15/22	09:15	07:47	(unrelated sample)
ZZZZZZ	2P108284.D	06/15/22	09:39	08:11	(unrelated sample)
ZZZZZZ	2P108285.D	06/15/22	10:03	08:35	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample:	E2P4896-DFTPP	**Injection Date:**	06/15/22
Lab File ID:	2P108264.D	**Injection Time:**	01:28
Instrument ID:	GCMS2P		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	2P108286.D	06/15/22	10:27	08:59	(unrelated sample)
ZZZZZZ	2P108287.D	06/15/22	10:51	09:23	(unrelated sample)
ZZZZZZ	2P108288.D	06/15/22	11:15	09:47	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: EP6882-DFTPP
Lab File ID: P148902.D
Instrument ID: GCMSP
Injection Date: 04/28/22
Injection Time: 10:35

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	62787	33.6		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	75865	40.6		Pass
70	Less than 2.0% of mass 69	397	0.21	(0.52) [a]	Pass
127	40.0 - 60.0% of mass 198	86722	46.4		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	186920	100.0		Pass
199	5.0 - 9.0% of mass 198	13252	7.09		Pass
275	10.0 - 30.0% of mass 198	52877	28.3		Pass
365	1.0 - 100.0% of mass 198	7179	3.84		Pass
441	Present, but less than mass 443	23048	12.3	(74.3) [b]	Pass
442	40.0 - 100.0% of mass 198	165666	88.6		Pass
443	17.0 - 23.0% of mass 442	31024	16.6	(18.7) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP6882-IC6882	P148903.D	04/28/22	10:51	00:16	Initial cal 100
EP6882-IC6882	P148904.D	04/28/22	11:19	00:44	Initial cal 1
EP6882-IC6882	P148905.D	04/28/22	11:46	01:11	Initial cal 80
EP6882-IC6882	P148906.D	04/28/22	12:10	01:35	Initial cal 2
EP6882-ICC6882	P148907.D	04/28/22	12:35	02:00	Initial cal 50
EP6882-IC6882	P148908.D	04/28/22	12:59	02:24	Initial cal 5
EP6882-IC6882	P148909.D	04/28/22	13:24	02:49	Initial cal 25
EP6882-IC6882	P148910.D	04/28/22	13:49	03:14	Initial cal 10
EP6882-ICV6882	P148911.D	04/28/22	14:13	03:38	Initial cal verification 50
EP6882-ICV6882	P148912.D	04/28/22	14:38	04:03	Initial cal verification 50
EP6882-ICV6882	P148913.D	04/28/22	15:02	04:27	Initial cal verification 50
EP6882-ICV6882	P148914.D	04/28/22	15:27	04:52	Initial cal verification 50
EP6882-ICV6882	P148915.D	04/28/22	15:52	05:17	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: EP6883-DFTPP
Lab File ID: P148916.D
Instrument ID: GCMSP
Injection Date: 04/28/22
Injection Time: 17:56

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	76203	30.5		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	95674	38.3		Pass
70	Less than 2.0% of mass 69	208	0.08	(0.22) [a]	Pass
127	40.0 - 60.0% of mass 198	114898	46.0		Pass
197	Less than 1.0% of mass 198	436	0.17		Pass
198	Base peak, 100% relative abundance	249853	100.0		Pass
199	5.0 - 9.0% of mass 198	16423	6.57		Pass
275	10.0 - 30.0% of mass 198	70901	28.4		Pass
365	1.0 - 100.0% of mass 198	10650	4.26		Pass
441	Present, but less than mass 443	33978	13.6	(73.4) [b]	Pass
442	40.0 - 100.0% of mass 198	245973	98.4		Pass
443	17.0 - 23.0% of mass 442	46290	18.5	(18.8) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP6883-IC6883	P148917.D	04/28/22	18:17	00:21	Initial cal 100
EP6883-IC6883	P148918.D	04/28/22	18:42	00:46	Initial cal 80
EP6883-ICC6883	P148919.D	04/28/22	19:06	01:10	Initial cal 50
EP6883-IC6883	P148920.D	04/28/22	19:31	01:35	Initial cal 25
EP6883-IC6883	P148921.D	04/28/22	19:56	02:00	Initial cal 10
EP6883-IC6883	P148922.D	04/28/22	20:20	02:24	Initial cal 5
EP6883-IC6883	P148923.D	04/28/22	20:45	02:49	Initial cal 2
EP6883-IC6883	P148924.D	04/28/22	21:09	03:13	Initial cal 1
EP6883-ICV6883	P148925.D	04/28/22	21:34	03:38	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: EP6939-DFTPP
Lab File ID: P150060.D
Instrument ID: GCMSP
Injection Date: 06/15/22
Injection Time: 01:24

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	49072	31.5		Pass
68	Less than 2.0% of mass 69	493	0.32	(0.76) [a]	Pass
69	Mass 69 relative abundance	64688	41.6		Pass
70	Less than 2.0% of mass 69	384	0.25	(0.59) [a]	Pass
127	40.0 - 60.0% of mass 198	69956	44.9		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	155658	100.0		Pass
199	5.0 - 9.0% of mass 198	9208	5.92		Pass
275	10.0 - 30.0% of mass 198	40733	26.2		Pass
365	1.0 - 100.0% of mass 198	6783	4.36		Pass
441	Present, but less than mass 443	19849	12.8	(83.0) [b]	Pass
442	40.0 - 100.0% of mass 198	130037	83.5		Pass
443	17.0 - 23.0% of mass 442	23902	15.4	(18.4) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP6939-CC6882	P150061.D	06/15/22	01:43	00:19	Continuing cal 50
EP6939-CC6883	P150062.D	06/15/22	02:08	00:44	Continuing cal 50
OP40216-MB1	P150063.D	06/15/22	04:24	03:00	Method Blank
OP40216-BS1	P150064.D	06/15/22	04:48	03:24	Blank Spike
ZZZZZZ	P150065.D	06/15/22	05:13	03:49	(unrelated sample)
ZZZZZZ	P150066.D	06/15/22	05:38	04:14	(unrelated sample)
ZZZZZZ	P150067.D	06/15/22	05:55	04:31	(unrelated sample)
ZZZZZZ	P150068.D	06/15/22	06:19	04:55	(unrelated sample)
ZZZZZZ	P150069.D	06/15/22	06:44	05:20	(unrelated sample)
ZZZZZZ	P150070.D	06/15/22	07:09	05:45	(unrelated sample)
ZZZZZZ	P150071.D	06/15/22	07:33	06:09	(unrelated sample)
ZZZZZZ	P150072.D	06/15/22	07:58	06:34	(unrelated sample)
ZZZZZZ	P150073.D	06/15/22	08:22	06:58	(unrelated sample)
ZZZZZZ	P150074.D	06/15/22	08:47	07:23	(unrelated sample)
ZZZZZZ	P150075.D	06/15/22	09:12	07:48	(unrelated sample)
ZZZZZZ	P150076.D	06/15/22	09:36	08:12	(unrelated sample)
OP40199A-BS1	P150081.D	06/15/22	10:01	08:37	Blank Spike
OP40199A-BSD	P150082.D	06/15/22	10:26	09:02	Blank Spike Duplicate
ZZZZZZ	P150077.D	06/15/22	10:50	09:26	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample:	EP6939-DFTPP	**Injection Date:**	06/15/22
Lab File ID:	P150060.D	**Injection Time:**	01:24
Instrument ID:	GCMSP		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
OP40216-MS	P150078.D	06/15/22	11:15	09:51	Matrix Spike
OP40209-BS1	P150084.D	06/15/22	11:40	10:16	Blank Spike
OP40209-BSD	P150085.D	06/15/22	12:04	10:40	Blank Spike Duplicate
OP40216-MSD	P150079.D	06/15/22	12:29	11:05	Matrix Spike Duplicate
JD46222-1	P150080.D	06/15/22	12:54	11:30	(used for QC only; not part of job JD46224)

Surrogate Recovery Summary

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Method: SW846 8270E **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JD46224-1	2P108274.D	31	30	32	44	37	40
OP40216-BS1	P150064.D	56	52	73	59	60	70
OP40216-BS1	2P108270.D	59	56	58	72	60	70
OP40216-MB1	P150063.D	59	57	67	63	62	67
OP40216-MB1	2P108269.D	57	58	53	77	63	70
OP40216-MS	P150078.D	47	42	67	57	56	64
OP40216-MSD	P150079.D	65	62	83	75	70	75

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	10-99%
S2 = Phenol-d5	10-96%
S3 = 2,4,6-Tribromophenol	10-123%
S4 = Nitrobenzene-d5	10-109%
S5 = 2-Fluorobiphenyl	11-109%
S6 = Terphenyl-d14	10-120%

GC/LC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40260-MB1 [a]	8G43025.D	1	06/16/22	CP	06/16/22	OP40260	G8G1849

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD46224-1

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.67	0.55	ug/kg	
319-84-6	alpha-BHC	ND	0.67	0.54	ug/kg	
319-85-7	beta-BHC	ND	0.67	0.60	ug/kg	
319-86-8	delta-BHC	ND	0.67	0.64	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.67	0.49	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.67	0.54	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.67	0.30	ug/kg	
60-57-1	Dieldrin	ND	0.67	0.46	ug/kg	
72-54-8	4,4'-DDD	ND	0.67	0.61	ug/kg	
72-55-9	4,4'-DDE	ND	0.67	0.58	ug/kg	
50-29-3	4,4'-DDT	13.5	0.67	0.59	ug/kg	
72-20-8	Endrin	ND	0.67	0.52	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.67	0.52	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.67	0.38	ug/kg	
959-98-8	Endosulfan-I	ND	0.67	0.38	ug/kg	
33213-65-9	Endosulfan-II	ND	0.67	0.42	ug/kg	
76-44-8	Heptachlor	ND	0.67	0.57	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.67	0.47	ug/kg	
72-43-5	Methoxychlor	ND	1.3	0.53	ug/kg	
53494-70-5	Endrin ketone	ND	0.67	0.48	ug/kg	
8001-35-2	Toxaphene	ND	17	16	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	43%	14-145%
877-09-8	Tetrachloro-m-xylene	49%	14-145%
2051-24-3	Decachlorobiphenyl	53%	10-197%
2051-24-3	Decachlorobiphenyl	55%	10-197%

(a) Detection due to lab contamination.

Method Blank Summary

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40261-MB1	4G9726736.D	1	06/22/22	CP	06/16/22	OP40261	G4G3830

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD46224-1

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	33	16	ug/kg	
11104-28-2	Aroclor 1221	ND	33	21	ug/kg	
11141-16-5	Aroclor 1232	ND	33	21	ug/kg	
53469-21-9	Aroclor 1242	ND	33	14	ug/kg	
12672-29-6	Aroclor 1248	ND	33	30	ug/kg	
11097-69-1	Aroclor 1254	ND	33	18	ug/kg	
11096-82-5	Aroclor 1260	ND	33	14	ug/kg	
11100-14-4	Aroclor 1268	ND	33	14	ug/kg	
37324-23-5	Aroclor 1262	ND	33	22	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	92%	10-163%
877-09-8	Tetrachloro-m-xylene	106%	10-163%
2051-24-3	Decachlorobiphenyl	111%	10-215%
2051-24-3	Decachlorobiphenyl	128%	10-215%

Blank Spike Summary

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40260-BS1	8G43140.D	1	06/22/22	CP	06/16/22	OP40260	G8G1854

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD46224-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
309-00-2	Aldrin	16.7	11.3	68	41-146
319-84-6	alpha-BHC	16.7	11.1	67	39-138
319-85-7	beta-BHC	16.7	10.7	64	44-134
319-86-8	delta-BHC	16.7	11.1	67	10-147
58-89-9	gamma-BHC (Lindane)	16.7	11.3	68	42-133
5103-71-9	alpha-Chlordane	16.7	11.1	67	43-140
5103-74-2	gamma-Chlordane	16.7	11.2	67	45-135
60-57-1	Dieldrin	16.7	11.2	67	40-151
72-54-8	4,4'-DDD	16.7	10.0	60	42-133
72-55-9	4,4'-DDE	16.7	11.3	68	43-139
50-29-3	4,4'-DDT	16.7	29.0	174* [a]	44-150
72-20-8	Endrin	16.7	10.9	65	43-145
1031-07-8	Endosulfan sulfate	16.7	11.1	67	27-131
7421-93-4	Endrin aldehyde	16.7	9.5	57	34-139
959-98-8	Endosulfan-I	16.7	9.9	59	41-137
33213-65-9	Endosulfan-II	16.7	11.1	67	35-143
76-44-8	Heptachlor	16.7	11.4	68	44-136
1024-57-3	Heptachlor epoxide	16.7	11.1	67	45-138
72-43-5	Methoxychlor	16.7	11.5	69	39-149
53494-70-5	Endrin ketone	16.7	13.0	78	41-153

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	61%	14-145%
877-09-8	Tetrachloro-m-xylene	66%	14-145%
2051-24-3	Decachlorobiphenyl	67%	10-197%
2051-24-3	Decachlorobiphenyl	76%	10-197%

(a) Outside of in house control limits due to lab contamination.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40261-BS1	4G9726737.D	1	06/22/22	CP	06/16/22	OP40261	G4G3830

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD46224-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	133	122	91 [a]	53-157
11104-28-2	Aroclor 1221		ND		50-150
11141-16-5	Aroclor 1232		ND		50-150
53469-21-9	Aroclor 1242		ND		50-150
12672-29-6	Aroclor 1248		ND		50-150
11097-69-1	Aroclor 1254		ND		50-150
11096-82-5	Aroclor 1260	133	132	99 [a]	53-159
11100-14-4	Aroclor 1268		ND		50-150
37324-23-5	Aroclor 1262		ND		50-150

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	78%	10-163%
877-09-8	Tetrachloro-m-xylene	90%	10-163%
2051-24-3	Decachlorobiphenyl	99%	10-215%
2051-24-3	Decachlorobiphenyl	110%	10-215%

(a) Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40260-MS	8G43141.D	1	06/22/22	CP	06/16/22	OP40260	G8G1854
OP40260-MSD	8G43142.D	1	06/22/22	CP	06/16/22	OP40260	G8G1854
JD46495-4	8G43029.D	1	06/17/22	CP	06/16/22	OP40260	G8G1849

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD46224-1

CAS No.	Compound	JD46495-4 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	ND		16.9	14.4	85	16.4	13.7	83	5	23-156/72
319-84-6	alpha-BHC	ND		16.9	13.8	81	16.4	13.1	80	5	15-162/63
319-85-7	beta-BHC	ND		16.9	15.8	93	16.4	16.5	100	4	17-148/79
319-86-8	delta-BHC	ND		16.9	14.1	83	16.4	14.2	86	1	10-159/81
58-89-9	gamma-BHC (Lindane)	ND		16.9	13.6	80	16.4	13.1	80	4	30-139/67
5103-71-9	alpha-Chlordane	ND		16.9	14.0	83	16.4	14.2	86	1	12-167/63
5103-74-2	gamma-Chlordane	ND		16.9	17.4	103	16.4	17.8	108	2	10-184/65
60-57-1	Dieldrin	ND		16.9	14.5	86	16.4	14.4	88	1	10-266/78
72-54-8	4,4'-DDD	ND		16.9	12.4	73	16.4	11.7	71	6	24-143/82
72-55-9	4,4'-DDE	ND		16.9	13.5	80	16.4	12.7	77	6	10-172/71
50-29-3	4,4'-DDT	16.1	B	16.9	25.8	57	16.4	31.8	96	21	10-191/84
72-20-8	Endrin	ND		16.9	14.6	86	16.4	13.4	82	9	10-200/74
1031-07-8	Endosulfan sulfate	ND		16.9	14.1	83	16.4	12.5	76	12	10-149/69
7421-93-4	Endrin aldehyde	ND		16.9	13.3	78	16.4	13.1	80	2	10-165/81
959-98-8	Endosulfan-I	ND		16.9	12.9	76	16.4	12.2	74	6	10-171/75
33213-65-9	Endosulfan-II	ND		16.9	13.8	81	16.4	13.4	82	3	10-153/76
76-44-8	Heptachlor	ND		16.9	14.1	83	16.4	13.6	83	4	15-162/77
1024-57-3	Heptachlor epoxide	ND		16.9	14.1	83	16.4	13.5	82	4	26-151/66
72-43-5	Methoxychlor	ND		16.9	16.2	96	16.4	16.6	101	2	10-172/85
53494-70-5	Endrin ketone	ND		16.9	15.3	90	16.4	15.1	92	1	10-182/72
8001-35-2	Toxaphene	ND			ND			ND		nc	50-150/30

CAS No.	Surrogate Recoveries	MS	MSD	JD46495-4	Limits
877-09-8	Tetrachloro-m-xylene	72%	68%	47%	14-145%
877-09-8	Tetrachloro-m-xylene	83%	79%	57%	14-145%
2051-24-3	Decachlorobiphenyl	82%	80%	54%	10-197%
2051-24-3	Decachlorobiphenyl	90%	92%	61%	10-197%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40261-MS	RK11969.D	1	06/22/22	CL	06/16/22	OP40261	GRK305
OP40261-MSD	RK11970.D	1	06/22/22	CL	06/16/22	OP40261	GRK305
JD46429-1	RK11712.D	1	06/18/22	CL	06/16/22	OP40261	GRK302

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD46224-1

CAS No.	Compound	JD46429-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		146	209	143	147	157	107	28	10-243/69
11104-28-2	Aroclor 1221	ND			ND			ND		nc	50-150/30
11141-16-5	Aroclor 1232	ND			ND			ND		nc	50-150/30
53469-21-9	Aroclor 1242	ND			ND			ND		nc	50-150/11
12672-29-6	Aroclor 1248	ND			ND			ND		nc	50-150/19
11097-69-1	Aroclor 1254	93.5			132			108		20	50-150/67
11096-82-5	Aroclor 1260	ND		146	187	128	147	120	82	44	10-200/64
11100-14-4	Aroclor 1268	ND			ND			ND		nc	50-150/30
37324-23-5	Aroclor 1262	ND			ND			ND		nc	50-150/5

CAS No.	Surrogate Recoveries	MS	MSD	JD46429-1	Limits
877-09-8	Tetrachloro-m-xylene	129%	94%	93%	10-163%
877-09-8	Tetrachloro-m-xylene	125%	93%	89%	10-163%
2051-24-3	Decachlorobiphenyl	106%	77%	84%	10-215%
2051-24-3	Decachlorobiphenyl	147%	105%	145%	10-215%

* = Outside of Control Limits.

Surrogate Recovery Summary

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Method: SW846 8081B **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JD46224-1	8G43027.D	62	82	74	86
OP40260-BS1	8G43140.D	61	66	67	76
OP40260-MB1	8G43025.D	43	49	53	55
OP40260-MS	8G43141.D	72	83	82	90
OP40260-MSD	8G43142.D	68	79	80	92

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	14-145%
S2 = Decachlorobiphenyl	10-197%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

Surrogate Recovery Summary

Job Number: JD46224
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Method: SW846 8082A **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JD46224-1	4G9726738.D	91	104	106	124
OP40261-BS1	4G9726737.D	78	90	99	110
OP40261-MB1	4G9726736.D	92	106	111	128
OP40261-MS	RK11969.D	129	125	106	147
OP40261-MSD	RK11970.D	94	93	77	105

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	10-163%
S2 = Decachlorobiphenyl	10-215%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD46224
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP33381
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 06/10/22

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	2.7	8.1	1.6	<50
Antimony	2.0	.22	.41	0.15	<2.0
Arsenic	2.0	.13	.28	-0.13	<2.0
Barium	20	.1	1.9	0.080	<20
Beryllium	0.20	.02	.08	0.0	<0.20
Bismuth	2.0	.21	.52		
Boron	10	.1	3.7		
Cadmium	0.50	.02	.07	-0.010	<0.50
Calcium	500	.77	21	12.6	<500
Chromium	1.0	.05	.37	0.10	<1.0
Cobalt	5.0	.04	.28	-0.010	<5.0
Copper	2.5	.68	.84	0.17	<2.5
Iron	50	1.5	19	2.9	<50
Lead	2.0	.16	.41	0.10	<2.0
Lithium	5.0	.37	.92		
Magnesium	500	5.4	14	2.4	<500
Manganese	1.5	.01	.41	0.040	<1.5
Molybdenum	2.0	.05	.32		
Nickel	4.0	.03	.35	0.050	<4.0
Phosphorus	20	.18	3.3		
Potassium	1000	7.7	32	0.37	<1000
Selenium	2.0	.2	.65	-0.060	<2.0
Silicon	20	.13	11		
Silver	0.50	.09	.17	-0.030	<0.50
Sodium	1000	2.3	78	6.3	<1000
Strontium	5.0	.04	.18		
Sulfur	10	.41	3.9		
Thallium	1.0	.16	.58	-0.030	<1.0
Tin	20	.09	3.8		
Titanium	1.0	.09	.34		
Tungsten	5.0	.2	1.8		
Vanadium	5.0	.08	.19	0.010	<5.0
Zinc	5.0	.02	2.3	0.71	<5.0

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD46224
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP33381
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 06/10/22

Metal	RL	IDL	MDL	MB raw	final
Zirconium	2.0	.05	.54		

Associated samples MP33381: JD46224-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD46224
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP33381
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 06/10/22

Metal	JD46224-1 Original	MS	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	12300	20700	3010	279.3(a)	75-125
Antimony	0.45	119	241	49.3N(b)	75-125
Arsenic	4.1	222	241	90.6	75-125
Barium	64.7	297	241	96.6	75-125
Beryllium	0.63	236	241	97.8	75-125
Bismuth					
Boron					
Cadmium	0.28	225	241	93.4	75-125
Calcium	21200	22400	3010	39.9 (a)	75-125
Chromium	14.3	244	241	95.5	75-125
Cobalt	6.0	235	241	95.2	75-125
Copper	11.9	240	241	94.8	75-125
Iron	15900	19700	3010	126.4(a)	75-125
Lead	16.3	249	241	96.7	75-125
Lithium					
Magnesium	6350	10300	3010	131.3N(b	75-125
Manganese	346	500	241	64.0N(b)	75-125
Molybdenum					
Nickel	14.7	248	241	97.0	75-125
Phosphorus					
Potassium	1130	5400	3010	142.0N(b	75-125
Selenium	1.3	219	241	90.5	75-125
Silicon					
Silver	0.53	28.8	30.1	94.0	75-125
Sodium	98.2	3050	3010	98.2	75-125
Strontium					
Sulfur					
Thallium	0.0	232	241	96.4	75-125
Tin					
Titanium					
Tungsten					
Vanadium	21.0	256	241	97.7	75-125
Zinc	57.3	289	241	96.3	75-125

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD46224
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP33381 Methods: SW846 6010D
Matrix Type: SOLID Units: mg/kg

Prep Date: 06/10/22

Metal	JD46224-1 Original MS	Spikelot MPSPK2	% Rec	QC Limits
Zirconium				

Associated samples MP33381: JD46224-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
(b) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD46224
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP33381
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 06/10/22

Metal	JD46224-1 Original	MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Aluminum	12300	20300	2980	268.8(a)	2.0	20
Antimony	0.45	114	238	47.7N(b)	4.3	20
Arsenic	4.1	220	238	90.7	0.9	20
Barium	64.7	294	238	96.3	1.0	20
Beryllium	0.63	233	238	97.6	1.3	20
Bismuth						
Boron						
Cadmium	0.28	223	238	93.5	0.9	20
Calcium	21200	24900	2980	124.3	10.6	20
Chromium	14.3	240	238	94.8	1.7	20
Cobalt	6.0	232	238	94.9	1.3	20
Copper	11.9	237	238	94.5	1.3	20
Iron	15900	19800	2980	131.0(a)	0.5	20
Lead	16.3	246	238	96.5	1.2	20
Lithium						
Magnesium	6350	10500	2980	139.4N(b	1.9	20
Manganese	346	481	238	56.7N(b)	3.9	20
Molybdenum						
Nickel	14.7	246	238	97.1	0.8	20
Phosphorus						
Potassium	1130	5210	2980	137.1N(b	3.6	20
Selenium	1.3	216	238	90.2	1.4	20
Silicon						
Silver	0.53	28.4	29.8	93.6	1.4	20
Sodium	98.2	3010	2980	97.8	1.3	20
Strontium						
Sulfur						
Thallium	0.0	229	238	96.2	1.3	20
Tin						
Titanium						
Tungsten						
Vanadium	21.0	252	238	97.0	1.6	20
Zinc	57.3	283	238	94.8	2.1	20

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD46224
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP33381 Methods: SW846 6010D
Matrix Type: SOLID Units: mg/kg

Prep Date: 06/10/22

Metal	JD46224-1 Original MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Zirconium					

Associated samples MP33381: JD46224-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
(b) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD46224
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP33381
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 06/10/22

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	2560	2500	102.4	80-120
Antimony	195	200	97.5	80-120
Arsenic	194	200	97.0	80-120
Barium	197	200	98.5	80-120
Beryllium	209	200	104.5	80-120
Bismuth				
Boron				
Cadmium	197	200	98.5	80-120
Calcium	2680	2500	107.2	80-120
Chromium	201	200	100.5	80-120
Cobalt	196	200	98.0	80-120
Copper	197	200	98.5	80-120
Iron	2700	2500	108.0	80-120
Lead	200	200	100.0	80-120
Lithium				
Magnesium	2710	2500	108.4	80-120
Manganese	204	200	102.0	80-120
Molybdenum				
Nickel	199	200	99.5	80-120
Phosphorus				
Potassium	2510	2500	100.4	80-120
Selenium	193	200	96.5	80-120
Silicon				
Silver	24.0	25	96.0	80-120
Sodium	2560	2500	102.4	80-120
Strontium				
Sulfur				
Thallium	205	200	102.5	80-120
Tin				
Titanium				
Tungsten				
Vanadium	199	200	99.5	80-120
Zinc	207	200	103.5	80-120

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD46224
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP33381
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 06/10/22

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Zirconium				

Associated samples MP33381: JD46224-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD46224
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP33381
Matrix Type: SOLID

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/10/22

Metal	JD46224-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	102000	108000	6.7	0-10
Antimony	3.70	0.00	100.0(a)	0-10
Arsenic	33.6	29.3	12.8 (a)	0-10
Barium	532	577	8.5	0-10
Beryllium	5.20	5.30	1.9	0-10
Bismuth				
Boron				
Cadmium	2.30	1.00	56.5 (a)	0-10
Calcium	175000	193000	10.3*(b)	0-10
Chromium	118	127	8.1	0-10
Cobalt	49.0	50.2	2.4	0-10
Copper	97.8	104	6.7	0-10
Iron	131000	143000	9.6	0-10
Lead	134	146	8.9	0-10
Lithium				
Magnesium	52200	57600	10.3*(b)	0-10
Manganese	2850	3190	11.8*(b)	0-10
Molybdenum				
Nickel	121	126	4.8	0-10
Phosphorus				
Potassium	9320	9630	3.4	0-10
Selenium	10.8	11.4	5.6	0-10
Silicon				
Silver	4.40	0.00	100.0(a)	0-10
Sodium	808	760	5.9	0-10
Strontium				
Sulfur				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Tungsten				
Vanadium	173	190	10.1*(b)	0-10
Zinc	471	535	13.5*(b)	0-10

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD46224
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP33381 Methods: SW846 6010D
Matrix Type: SOLID Units: ug/l

Prep Date: 06/10/22

	JD46224-1		QC
Metal	Original SDL 1:5	%DIF	Limits
Zirconium			

Associated samples MP33381: JD46224-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial dilution indicates possible matrix interference.

POST DIGESTATE SPIKE SUMMARY

Login Number: JD46224
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP33381
Matrix Type: SOLID

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/10/22

Metal	Sample ml	Final ml	JD46224-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony	19.25	20	3.7	3.56125	2027	0.2	200	2000	101.2	80-120
Arsenic										
Barium										
Beryllium										
Bismuth										
Boron										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead										
Lithium										
Magnesium										
Manganese										
Molybdenum										
Nickel										
Phosphorus										
Potassium	19.25	20	9316	8966.65	34980	0.1	5000	25000	104.1	80-120
Selenium										
Silicon										
Silver										
Sodium										
Strontium										
Sulfur										
Thallium										
Tin										
Titanium										
Tungsten										
Vanadium										
Zinc										

POST DIGESTATE SPIKE SUMMARY

Login Number: JD46224
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP33381
Matrix Type: SOLID

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/10/22

Metal	Sample ml	Final ml	JD46224-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Zirconium										

Associated samples MP33381: JD46224-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD46224
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP33486 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 06/15/22

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.033	.0057	.015	0.016	<0.033

Associated samples MP33486: JD46224-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD46224
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP33486 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 06/15/22

Metal	JD46082-1 Original	MS	Spikelot HGPWS1	% Rec	QC Limits
Mercury	0.035	0.39	0.348	102.1	80-120

Associated samples MP33486: JD46224-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD46224
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP33486 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 06/15/22

Metal	JD46082-1 Original	MSD	Spikelot HGPWS1	% Rec	MSD RPD	QC Limit
Mercury	0.035	0.39	0.344	103.2	0.0	20

Associated samples MP33486: JD46224-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD46224
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP33486
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 06/15/22

Metal	BSP Result	Spikelot HGPWS1	% Rec	QC Limits
Mercury	0.31	0.333	93.0	80-120

Associated samples MP33486: JD46224-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD46224
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Cyanide	GP40576/GN30161	0.24	0.0	mg/kg	2	2.09	104.5	90-110%

Associated Samples:
Batch GP40576: JD46224-1
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD46224
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Cyanide	GP40576/GN30161	JD46141-4	mg/kg	0.0	0.14	200.0(a)	0-49%
Solids, Percent	GN30100	JD46224-1	%	85.7	86.2	0.6	0-5%

Associated Samples:
Batch GN30100: JD46224-1
Batch GP40576: JD46224-1
(*) Outside of QC limits
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD46224
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Cyanide	GP40576/GN30161	JD46141-4	mg/kg	0.0	2.59	2.5	96.6	75-125%

Associated Samples:
Batch GP40576: JD46224-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

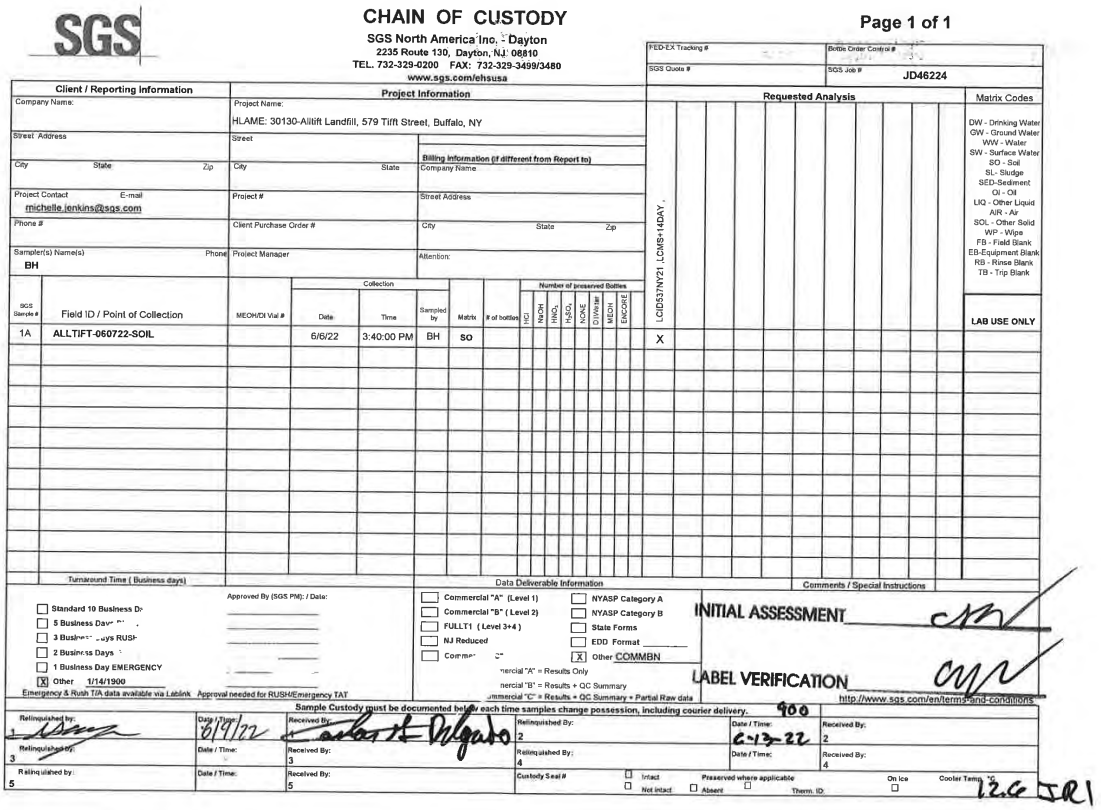
Misc. Forms

Custody Documents and Other Forms

(SGS Orlando, FL)

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

Page 1 of 1

FED-EX Tracking #:
Bottle Order Control #:
SGS Quote #:
SGS Job #: JD46224

Client / Reporting Information

Company Name:
Street Address:
City / State / Zip:
Project Contact / E-mail: michelle.jenkins@sgs.com
Phone #:
Sampler(s) Name(s) / Phone: BH

Project Information

Project Name: HLAME: 30130-Alilift Landfill, 579 Tifft Street, Buffalo, NY
Street:
City / State:
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)

Company Name:
Street Address:
City / State / Zip:
Attention:

Requested Analysis

LCID537NY21: LCMS+14DAY

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB-Equipment Blank
RB - Rinse Blank
TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI WATER	MEOH	ENCORE	LAB USE ONLY
1A	ALLTIFT-060722-SOIL		6/6/22	3:40:00 PM	BH	SO										X

Turnaround Time (Business days)

Approved By (SGS PM): / Date:

- [ ] Standard 10 Business D
- [ ] 5 Business Days
- [ ] 3 Business Days RUSH
- [ ] 2 Business Days
- [ ] 1 Business Day EMERGENCY
- [X] Other 1/14/1900

Emergency & Rush T/A data available via Lablink. Approval needed for RUSH/Emergency TAT

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [X] Other COMMBN

mercial "A" = Results Only
mercial "B" = Results + QC Summary
ommercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

INITIAL ASSESSMENT CM

LABEL VERIFICATION CM

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery. 900

	Relinquished By:	Date / Time:	Received By:
1		6/9/22	
2			
3			
4		6-13-22	2
5			4

Custody Seal # ☐ Intact ☐ Not Intact — Preserved where applicable ☐ Absent — ☐ On Ice — Cooler Temp. °C: 12.6 JR1 — Therm. ID:

jd46224.xls
Rev. Date: 4/10/18

11.1 11

JD46224: Chain of Custody
Page 1 of 2
SGS Orlando, FL

SGS Sample Receipt Summary

Job Number: JD46224 **Client:** DAYTON **Project:** HLAME: 30130-ALLTIFT LANDFILL, 579 TIFFT S

Date / Time Received: 6/13/2022 9:00:00 AM **Delivery Method:** FED EX **Airbill #'s:**

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (12.6);

Cooler Temps (Corrected) °C: Cooler 1: (13.0);

Cooler Information	Y	N
1. Custody Seals Present	☑	☐
2. Custody Seals Intact	☑	☐
3. Temp criteria achieved	☑	☐
4. Cooler temp verification	IR Gun	
5. Cooler media	Ice (Bag)	

Trip Blank Information	Y	N	N/A
1. Trip Blank present / cooler	☐	☐	☑
2. Trip Blank listed on COC	☐	☐	☑

	W	S	N/A
3. Type Of TB Received	☐	☐	☑

Sample Information	Y	N	N/A
1. Sample labels present on bottles	☑	☐	
2. Samples preserved properly	☑	☐	
3. Sufficient volume/containers recvd for analysis:	☑	☐	
4. Condition of sample	Intact		
5. Sample recvd within HT	☑	☐	
6. Dates/Times/IDs on COC match Sample Label	☑	☐	
7. VOCs have headspace	☐	☐	☑
8. Bottles received for unspecified tests	☐	☑	
9. Compositing instructions clear	☐	☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐	☐	☑
11. % Solids Jar received?	☐	☐	☑
12. Residual Chlorine Present?	☐	☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments

SM001
Rev. Date 05/24/17

Technician: CARLOSD Date: 6/13/2022 9:00:00 AM Reviewer: _____ Date: _____

11.1 11

JD46224: Chain of Custody
Page 2 of 2

MS Semi-volatiles

QC Data Summaries

(SGS Orlando, FL)

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Isotope Dilution Standard Recovery Summaries

Method Blank Summary

Job Number: JD46224
Account: ALNJ SGS Dayton, NJ
Project: HWINJOMM: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP91673-MB	2Q93447.D	1	06/19/22	JB	06/16/22	OP91673	S2Q1308

The QC reported here applies to the following samples: **Method:** EPA 537M BY ID

JD46224-1A

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	1.0	0.38	ug/kg	
2706-90-3	Perfluoropentanoic acid	ND	0.50	0.25	ug/kg	
307-24-4	Perfluorohexanoic acid	ND	0.50	0.25	ug/kg	
375-85-9	Perfluoroheptanoic acid	ND	0.50	0.25	ug/kg	
335-67-1	Perfluorooctanoic acid	ND	0.50	0.25	ug/kg	
375-95-1	Perfluorononanoic acid	ND	0.50	0.25	ug/kg	
335-76-2	Perfluorodecanoic acid	ND	0.50	0.25	ug/kg	
2058-94-8	Perfluoroundecanoic acid	ND	0.50	0.25	ug/kg	
307-55-1	Perfluorododecanoic acid	ND	0.50	0.25	ug/kg	
72629-94-8	Perfluorotridecanoic acid	ND	0.50	0.27	ug/kg	
376-06-7	Perfluorotetradecanoic acid	ND	0.50	0.25	ug/kg	
375-73-5	Perfluorobutanesulfonic acid	ND	0.50	0.25	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	0.50	0.25	ug/kg	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.50	0.25	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.50	0.20	ug/kg	
335-77-3	Perfluorodecanesulfonic acid	ND	0.50	0.25	ug/kg	
754-91-6	PFOSA	ND	0.50	0.25	ug/kg	
2355-31-9	MeFOSAA	ND	1.0	0.50	ug/kg	
2991-50-6	EtFOSAA	ND	1.0	0.50	ug/kg	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	1.0	0.25	ug/kg	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	1.0	0.25	ug/kg	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	79%	40-140%
	13C5-PFPeA	81%	50-150%
	13C5-PFHxA	85%	50-150%
	13C4-PFHpA	86%	50-150%
	13C8-PFOA	91%	50-150%
	13C9-PFNA	92%	50-150%
	13C6-PFDA	90%	50-150%
	13C7-PFUnDA	98%	40-140%
	13C2-PFDoDA	101%	40-140%
	13C2-PFTeDA	97%	30-130%
	13C3-PFBS	97%	50-150%

Method Blank Summary

Job Number: JD46224
Account: ALNJ SGS Dayton, NJ
Project: HWINJOMM: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP91673-MB	2Q93447.D	1	06/19/22	JB	06/16/22	OP91673	S2Q1308

The QC reported here applies to the following samples: **Method:** EPA 537M BY ID

JD46224-1A

CAS No.	ID Standard Recoveries		Limits
	13C3-PFHxS	93%	50-150%
	13C8-PFOS	96%	50-150%
	13C8-FOSA	76%	30-130%
	d3-MeFOSAA	111%	40-140%
	d5-EtFOSAA	112%	40-140%
	13C2-4:2FTS	94%	50-150%
	13C2-6:2FTS	93%	50-150%
	13C2-8:2FTS	93%	50-150%
	13C3-HFPO-DA	77%	50-150%

Instrument Blank

Job Number: JD46224
Account: ALNJ SGS Dayton, NJ
Project: HWINJOMM: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S2Q1308-IBLK	2Q93432.D	1	06/19/22	JB	n/a	n/a	S2Q1308

The QC reported here applies to the following samples: **Method:** EPA 537M QSM5.3 B-15

JD46224-1A

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	1.0	0.38	ug/kg	
2706-90-3	Perfluoropentanoic acid	ND	1.0	0.25	ug/kg	
307-24-4	Perfluorohexanoic acid	ND	1.0	0.25	ug/kg	
375-85-9	Perfluoroheptanoic acid	ND	1.0	0.25	ug/kg	
335-67-1	Perfluorooctanoic acid	ND	1.0	0.25	ug/kg	
375-95-1	Perfluorononanoic acid	ND	1.0	0.25	ug/kg	
335-76-2	Perfluorodecanoic acid	ND	1.0	0.25	ug/kg	
2058-94-8	Perfluoroundecanoic acid	ND	1.0	0.25	ug/kg	
307-55-1	Perfluorododecanoic acid	ND	1.0	0.25	ug/kg	
72629-94-8	Perfluorotridecanoic acid	ND	1.0	0.27	ug/kg	
376-06-7	Perfluorotetradecanoic acid	ND	1.0	0.25	ug/kg	
375-73-5	Perfluorobutanesulfonic acid	ND	1.0	0.25	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	1.0	0.25	ug/kg	
375-92-8	Perfluoroheptanesulfonic acid	ND	1.0	0.25	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	ND	1.0	0.25	ug/kg	
335-77-3	Perfluorodecanesulfonic acid	ND	1.0	0.25	ug/kg	
754-91-6	PFOSA	ND	1.0	0.25	ug/kg	
2355-31-9	MeFOSAA	ND	1.0	0.25	ug/kg	
2991-50-6	EtFOSAA	ND	1.0	0.25	ug/kg	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	1.0	0.25	ug/kg	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	1.0	0.25	ug/kg	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	105%	50-150%
	13C5-PFPeA	106%	50-150%
	13C5-PFHxA	106%	50-150%
	13C4-PFHpA	103%	50-150%
	13C8-PFOA	105%	50-150%
	13C9-PFNA	104%	50-150%
	13C6-PFDA	101%	50-150%
	13C7-PFUnDA	107%	50-150%
	13C2-PFDoDA	105%	50-150%
	13C2-PFTeDA	104%	50-150%
	13C3-PFBS	106%	50-150%

Instrument Blank

Job Number: JD46224
Account: ALNJ SGS Dayton, NJ
Project: HWINJOMM: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S2Q1308-IBLK	2Q93432.D	1	06/19/22	JB	n/a	n/a	S2Q1308

The QC reported here applies to the following samples: **Method:** EPA 537M QSM5.3 B-15

JD46224-1A

CAS No.	ID Standard Recoveries		Limits
	13C3-PFHxS	103%	50-150%
	13C8-PFOS	105%	50-150%
	13C8-FOSA	115%	50-150%
	d3-MeFOSA	116%	50-150%
	d3-MeFOSAA	115%	50-150%
	d5-EtFOSAA	123%	50-150%
	13C2-4:2FTS	100%	50-150%
	13C2-6:2FTS	99%	50-150%
	13C2-8:2FTS	100%	50-150%

Blank Spike Summary

Job Number: JD46224
Account: ALNJ SGS Dayton, NJ
Project: HWINJOMM: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP91673-BS	2Q93446.D	1	06/19/22	JB	06/16/22	OP91673	S2Q1308

The QC reported here applies to the following samples: **Method:** EPA 537M BY ID

JD46224-1A

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
375-22-4	Perfluorobutanoic acid	10	9.6	96	70-130
2706-90-3	Perfluoropentanoic acid	10	9.8	98	70-130
307-24-4	Perfluorohexanoic acid	10	9.8	98	70-130
375-85-9	Perfluoroheptanoic acid	10	9.7	97	70-130
335-67-1	Perfluorooctanoic acid	10	9.7	97	70-130
375-95-1	Perfluorononanoic acid	10	9.8	98	70-130
335-76-2	Perfluorodecanoic acid	10	10.1	101	70-130
2058-94-8	Perfluoroundecanoic acid	10	9.4	94	70-130
307-55-1	Perfluorododecanoic acid	10	9.3	93	70-130
72629-94-8	Perfluorotridecanoic acid	10	9.2	92	70-130
376-06-7	Perfluorotetradecanoic acid	10	9.9	99	70-130
375-73-5	Perfluorobutanesulfonic acid	10	9.6	96	70-130
355-46-4	Perfluorohexanesulfonic acid	10	10.1	101	70-130
375-92-8	Perfluoroheptanesulfonic acid	10	10	100	70-130
1763-23-1	Perfluorooctanesulfonic acid	10	10.1	101	70-130
335-77-3	Perfluorodecanesulfonic acid	10	9.2	92	65-135
754-91-6	PFOSA	10	9.5	95	70-130
2355-31-9	MeFOSAA	10	10	100	70-130
2991-50-6	EtFOSAA	10	9.8	98	70-130
27619-97-2	6:2 Fluorotelomer sulfonate	10	10.3	103	70-130
39108-34-4	8:2 Fluorotelomer sulfonate	10	10.6	106	70-130

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	90%	40-140%
	13C5-PFPeA	90%	50-150%
	13C5-PFHxA	91%	50-150%
	13C4-PFHpA	90%	50-150%
	13C8-PFOA	92%	50-150%
	13C9-PFNA	92%	50-150%
	13C6-PFDA	87%	50-150%
	13C7-PFUnDA	95%	40-140%
	13C2-PFDoDA	98%	40-140%
	13C2-PFTeDA	94%	30-130%
	13C3-PFBS	93%	50-150%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD46224
Account: ALNJ SGS Dayton, NJ
Project: HWINJOMM: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP91673-BS	2Q93446.D	1	06/19/22	JB	06/16/22	OP91673	S2Q1308

The QC reported here applies to the following samples: **Method:** EPA 537M BY ID

JD46224-1A

CAS No.	ID Standard Recoveries	BSP	Limits
	13C3-PFHxS	91%	50-150%
	13C8-PFOS	93%	50-150%
	13C8-FOSA	74%	30-130%
	d3-MeFOSAA	108%	40-140%
	d5-EtFOSAA	111%	40-140%
	13C2-4:2FTS	94%	50-150%
	13C2-6:2FTS	93%	50-150%
	13C2-8:2FTS	94%	50-150%
	13C3-HFPO-DA	88%	50-150%

12.2.1

12

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD46224
Account: ALNJ SGS Dayton, NJ
Project: HWINJOMM: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP91673-MS	2Q93451.D	1	06/19/22	JB	06/16/22	OP91673	S2Q1308
OP91673-MSD	2Q93452.D	1	06/19/22	JB	06/16/22	OP91673	S2Q1308
FA96386-2	2Q93450.D	1	06/19/22	JB	06/16/22	OP91673	S2Q1308

The QC reported here applies to the following samples: **Method:** EPA 537M BY ID

JD46224-1A

CAS No.	Compound	FA96386-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
375-22-4	Perfluorobutanoic acid	ND		11.6	11.0	95	11.7	10.9	93	1	70-130/30
2706-90-3	Perfluoropentanoic acid	ND		11.6	11.3	98	11.7	11.1	95	2	70-130/30
307-24-4	Perfluorohexanoic acid	ND		11.6	11.1	96	11.7	11.0	94	1	70-130/30
375-85-9	Perfluoroheptanoic acid	ND		11.6	11.2	97	11.7	11.1	95	1	70-130/30
335-67-1	Perfluorooctanoic acid	ND		11.6	10.9	94	11.7	10.9	93	0	70-130/30
375-95-1	Perfluorononanoic acid	ND		11.6	11.2	97	11.7	11.1	95	1	70-130/30
335-76-2	Perfluorodecanoic acid	ND		11.6	11.6	100	11.7	11.4	97	2	70-130/30
2058-94-8	Perfluoroundecanoic acid	ND		11.6	10.8	93	11.7	10.8	92	0	70-130/30
307-55-1	Perfluorododecanoic acid	ND		11.6	10.6	92	11.7	10.5	89	1	70-130/30
72629-94-8	Perfluorotridecanoic acid	ND		11.6	10.7	93	11.7	10.6	90	1	70-130/30
376-06-7	Perfluorotetradecanoic acid	ND		11.6	11.3	98	11.7	11.2	95	1	70-130/30
375-73-5	Perfluorobutanesulfonic acid	ND		11.6	10.8	93	11.7	10.7	91	1	70-130/30
355-46-4	Perfluorohexanesulfonic acid	ND		11.6	11.3	98	11.7	10.8	92	5	70-130/30
375-92-8	Perfluoroheptanesulfonic acid	ND		11.6	11.5	99	11.7	10.9	93	5	70-130/30
1763-23-1	Perfluorooctanesulfonic acid	ND		11.6	11.6	100	11.7	11.6	99	0	70-130/30
335-77-3	Perfluorodecanesulfonic acid	ND		11.6	10.6	92	11.7	10.7	91	1	65-135/30
754-91-6	PFOSA	ND		11.6	11.0	95	11.7	10.9	93	1	70-130/30
2355-31-9	MeFOSAA	ND		11.6	12.4	107	11.7	11.9	101	4	70-130/30
2991-50-6	EtFOSAA	ND		11.6	13.0	112	11.7	11.4	97	13	70-130/30
27619-97-2	6:2 Fluorotelomer sulfonate	ND		11.6	11.7	101	11.7	11.8	101	1	70-130/30
39108-34-4	8:2 Fluorotelomer sulfonate	ND		11.6	12.3	106	11.7	11.8	101	4	70-130/30

CAS No.	ID Standard Recoveries	MS	MSD	FA96386-2	Limits
	13C4-PFBA	88%	87%	86%	40-140%
	13C5-PFPeA	88%	87%	87%	50-150%
	13C5-PFHxA	89%	88%	87%	50-150%
	13C4-PFHpA	87%	86%	85%	50-150%
	13C8-PFOA	89%	87%	87%	50-150%
	13C9-PFNA	89%	87%	87%	50-150%
	13C6-PFDA	84%	82%	83%	50-150%
	13C7-PFUnDA	90%	89%	89%	40-140%
	13C2-PFDoDA	91%	90%	89%	40-140%
	13C2-PFTeDA	91%	90%	88%	30-130%
	13C3-PFBS	90%	90%	89%	50-150%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD46224
Account: ALNJ SGS Dayton, NJ
Project: HWINJOMM: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP91673-MS	2Q93451.D	1	06/19/22	JB	06/16/22	OP91673	S2Q1308
OP91673-MSD	2Q93452.D	1	06/19/22	JB	06/16/22	OP91673	S2Q1308
FA96386-2	2Q93450.D	1	06/19/22	JB	06/16/22	OP91673	S2Q1308

The QC reported here applies to the following samples: **Method:** EPA 537M BY ID

JD46224-1A

CAS No.	ID Standard Recoveries	MS	MSD	FA96386-2	Limits
	13C3-PFHxS	89%	90%	86%	50-150%
	13C8-PFOS	92%	89%	90%	50-150%
	13C8-FOSA	72%	88%	90%	30-130%
	d3-MeFOSAA	82%	79%		40-140%
	d5-EtFOSAA	84%	82%		40-140%
	13C2-4:2FTS	90%	89%		50-150%
	13C2-6:2FTS	89%	86%		50-150%
	13C2-8:2FTS	90%	90%		50-150%
	13C3-HFPO-DA	90%	88%		50-150%

* = Outside of Control Limits.

Isotope Dilution Standard Recovery Summary

Job Number: JD46224
Account: ALNJ SGS Dayton, NJ
Project: HWINJOMM: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Method: EPA 537M BY ID **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6	S7	S8
JD46224-1A	2Q93448.D	83	83	84	83	84	85	80	81
OP91673-BS	2Q93446.D	90	90	91	90	92	92	87	95
OP91673-MB	2Q93447.D	79	81	85	86	91	92	90	98
OP91673-MS	2Q93451.D	88	88	89	87	89	89	84	90
OP91673-MSD	2Q93452.D	87	87	88	86	87	87	82	89

Isotope Dilution Standards	Recovery Limits
S1 = 13C4-PFBA	40-140%
S2 = 13C5-PFPeA	50-150%
S3 = 13C5-PFHxA	50-150%
S4 = 13C4-PFHpA	50-150%
S5 = 13C8-PFOA	50-150%
S6 = 13C9-PFNA	50-150%
S7 = 13C6-PFDA	50-150%
S8 = 13C7-PFUnDA	40-140%

Isotope Dilution Standard Recovery Summary

Job Number: JD46224
Account: ALNJ SGS Dayton, NJ
Project: HWINJOMM: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Method: EPA 537M BY ID **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S9	S10	S11	S12	S13	S14	S15	S16
JD46224-1A	2Q93448.D	85	86	85	85	86	82	93	95
OP91673-BS	2Q93446.D	98	94	93	91	93	74	108	111
OP91673-MB	2Q93447.D	101	97	97	93	96	76	111	112
OP91673-MS	2Q93451.D	91	91	90	89	92	72	82	84
OP91673-MSD	2Q93452.D	90	90	90	90	89	88	79	82

Isotope Dilution Standards	Recovery Limits
S9 = 13C2-PFDoDA	40-140%
S10 = 13C2-PFTeDA	30-130%
S11 = 13C3-PFBS	50-150%
S12 = 13C3-PFHxS	50-150%
S13 = 13C8-PFOS	50-150%
S14 = 13C8-FOSA	30-130%
S15 = d3-MeFOSAA	40-140%
S16 = d5-EtFOSAA	40-140%

Isotope Dilution Standard Recovery Summary

Job Number: JD46224
Account: ALNJ SGS Dayton, NJ
Project: HWINJOMM: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Method: EPA 537M BY ID **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S17	S18
JD46224-1A	2Q93448.D	80	82
OP91673-BS	2Q93446.D	93	94
OP91673-MB	2Q93447.D	93	93
OP91673-MS	2Q93451.D	89	90
OP91673-MSD	2Q93452.D	86	90

Isotope Dilution Standards	Recovery Limits
S17 = 13C2-6:2FTS	50-150%
S18 = 13C2-8:2FTS	50-150%

From:	Monnin, Taylor J (DEC)
To:	Belcher, Ryan T.
Cc:	John Formoza; Jazic, Sasa
Subject:	RE: Transmittal - report.hw915054.2022-05-11.PRR
Date:	Wednesday, July 6, 2022 1:14:30 PM
Attachments:	image001.png image002.png image003.png image004.png

CAUTION: External email. Please do not click on links/attachments unless you know the content is genuine and safe.

Ryan,

The Department has reviewed the Import Request submittal for the cover system repair at Alltift Landfill (915054). Based on the information provided, the request is hereby approved.

Feel free to reach out with any questions.

Taylor J. Monnin
she/her/hers
Assistant Engineer (Environmental), Division of Environmental Remediation

New York State Department of Environmental Conservation
700 Delaware Avenue, Buffalo, NY 14209
P: (716) 851-7220 | F: (716) 851-7226 | taylor.monnin@dec.ny.gov
www.dec.ny.gov | | |

NEW YORK STATE | Department of Environmental Conservation

From: Belcher, Ryan T. <ryan.belcher@woodplc.com>
Sent: Tuesday, July 5, 2022 1:21 PM
To: Monnin, Taylor J (DEC) <Taylor.Monnin@dec.ny.gov>
Cc: John Formoza <John.Formoza@jacobs.com>; Jazic, Sasa <Sasa.Jazic@Honeywell.com>
Subject: RE: Transmittal - report.hw915054.2022-05-11.PRR

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

Taylor,

Please find attached revised Import Request submittal addressing the below requested revisions. Please confirm receipt.

Thank you,
Ryan