MACTEC

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May 15, 2024

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

Subject: **2023/2024 Periodic Review Report**
Alltift Landfill Site - NYSDEC Site No. 915054
MACTEC Engineering and Geology, P.C

Dear Ms. Monnin:

On behalf of Honeywell International Inc. (Honeywell), 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, 2023 through April 21, 2024. The completed Site Management PRR Notice - Institutional and Engineering Controls Certification Form which includes a summary of deed restrictions is provided herein as **Attachment A**. 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 5, 2024.

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 2023/2024 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. All sample results were within the permit limits (refer to **Attachment B.6**).

- The BSA completed an annual BPDES Compliance Inspection on October 31, 2023, and determined the facility to be in compliance with all requirements of the permit. A copy of the BPDES Compliance Inspection Report is included in **Attachment B.6**.
- 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 11, 2023 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 concentrations for samples collected in 2023 were generally consistent with concentrations reported for previous sampling events. In comparison with 2022, the Sump 1 concentrations for samples collected in 2023 were generally lower with the exception of perfluorooctanoic acid (PFOA) which exhibited an increase since 2022. The Sump 2 VOC concentrations reported for 2023 were similar to 2022 concentrations and generally consistent with historical concentrations. The PFOA concentration was the lowest detection and the perfluorooctanesulfonic acid (PFOS) concentration the highest detection to date at Sump 2 during

the 2023 sampling event. The Sump 3 sample concentrations of VOCs, PFOA, and PFOS in 2023 were similar to results of samples collected since 2020. The Sump 4 sample concentrations of VOCs, SVOCs, metals, PFOA, and PFAS in 2023 are similar to historical results for Sump 4. The Sump 4 concentrations of chlorobenzene and PFOS increased in 2023 relative to 2022. Concentrations of benzene, chlorobenzene, 1,4-Dioxane, iron, PFOA, and PFOS reported in 2023 are above NYSDEC groundwater standards in one or more of the groundwater collection trench sumps. The MW-2 sample concentrations of metals have generally declined over time, while concentrations of VOCs and SVOCs have generally been non-detect. The MW-2 sample result for PFOS was reported at a concentration above the NYSDEC groundwater standard in 2023.

- Landfill gas monitoring was conducted using a GEM 5000 SN# G508525 on March 27, 2024, 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 June 28, 2023, inspection, electrical service to the site was found to be down upon arrival. The outage was reported to National Grid who responded within approximately one hour and reset the tripped fuses on the electrical distribution side. However, the site still did not have power and damage to the site electrical equipment was suspected. Jacobs initially reported the issue to the NYSDEC via email to Taylor Monnin on June 29, 2023, and reported again via a second email later in the day on June 29, 2023, that repairs had been completed and system operations restored. During the June 2023 inspection, conditions of previously identified fencing breaches and liner exposure were observed to have not worsened. Phragmites growth encroaching on the cap perimeter and access road were identified and mowing to control was subsequently completed in 2023.

- During the December 14, 2023, inspection, waste dumping was observed on the portion of the access road outside the site as well as inside the NE site gate. In addition, woody growth (small trees) were observed along the northern fence line and cap perimeter; these should be removed due to proximity to the edge of the cap and fencing.
- During the March 27, 2024 inspection, a small breach in the site fencing was observed along the eastern property boundary, small animal burrows were observed in the vegetated cover, areas of erosion repaired in October 2023 were identified as requiring further soil placement and seeding due to erosion over the winter and early spring, and the lift station flow meter was found to be inoperable due to debris caught in the impeller of the flow meter. The March 27, 2024, quarterly inspection report includes photographs documenting the removal of the woody growth (small trees) noted during the December 2023 inspection.

• 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.
  - Repairs to breaches in the site fencing.
  - The electrical transformer in the onsite building was replaced on June 29, 2023, as result of the previously noted damage during power loss.
  - 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. The cover system repairs were addressed on October 24, 2023, by placement and subsequent seeding of 80 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 October 17, 2023 (refer to **Attachment B.10**).

- Mowing of the landfill cover was completed on September 28, 2023.
- The Sump #1 pump pitless adapter had been observed to be improperly seated during the inspection conducted in September 2022. The pitless adapter was removed and reset but could not be completely reset due to wear of the brass component and needed to be replaced. Both the Sump #1 and Sump #2 pitless adapters were replaced on August 9, 2023.
- Woody growth (small trees) observed along the northern fence line and cap perimeter during the December 2023 inspection was removed on March 27 and 28, 2024.

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 are 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. The BSA permit 21-12-BU098 issued on November 10, 2021, with an effective date of December 1, 2021, expires on November 30, 2024. A permit renewal application was submitted to the BSA on March 4, 2024, prior to the renewal application due date of May 30, 2024.
- Groundwater Monitoring – Annual groundwater monitoring will be completed in 2024 with groundwater monitoring results reported in the next annual PRR submittal.
- 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.
- Installation of telemetry equipment to provide remote monitoring and data recording capabilities, including flow meter readings, is planned for implementation in 2024.
- Repairs to the exposed section of landfill liner, areas of the vegetated cover impacted by animal burrows, and damaged fencing will be completed with a target schedule of second quarter of 2024.

- The next PRR submittal should be completed and submitted to NYSDEC by the end of May 2025.

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 2025.

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.

Assistant Vice President, Environmental Engineering

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, 2023 to April 21, 2024

	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
X	☐

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
X	☐

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

5/3/2024
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 at MACTEC Engineering and Geology, P.C, Portland, ME,
print name print business address

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



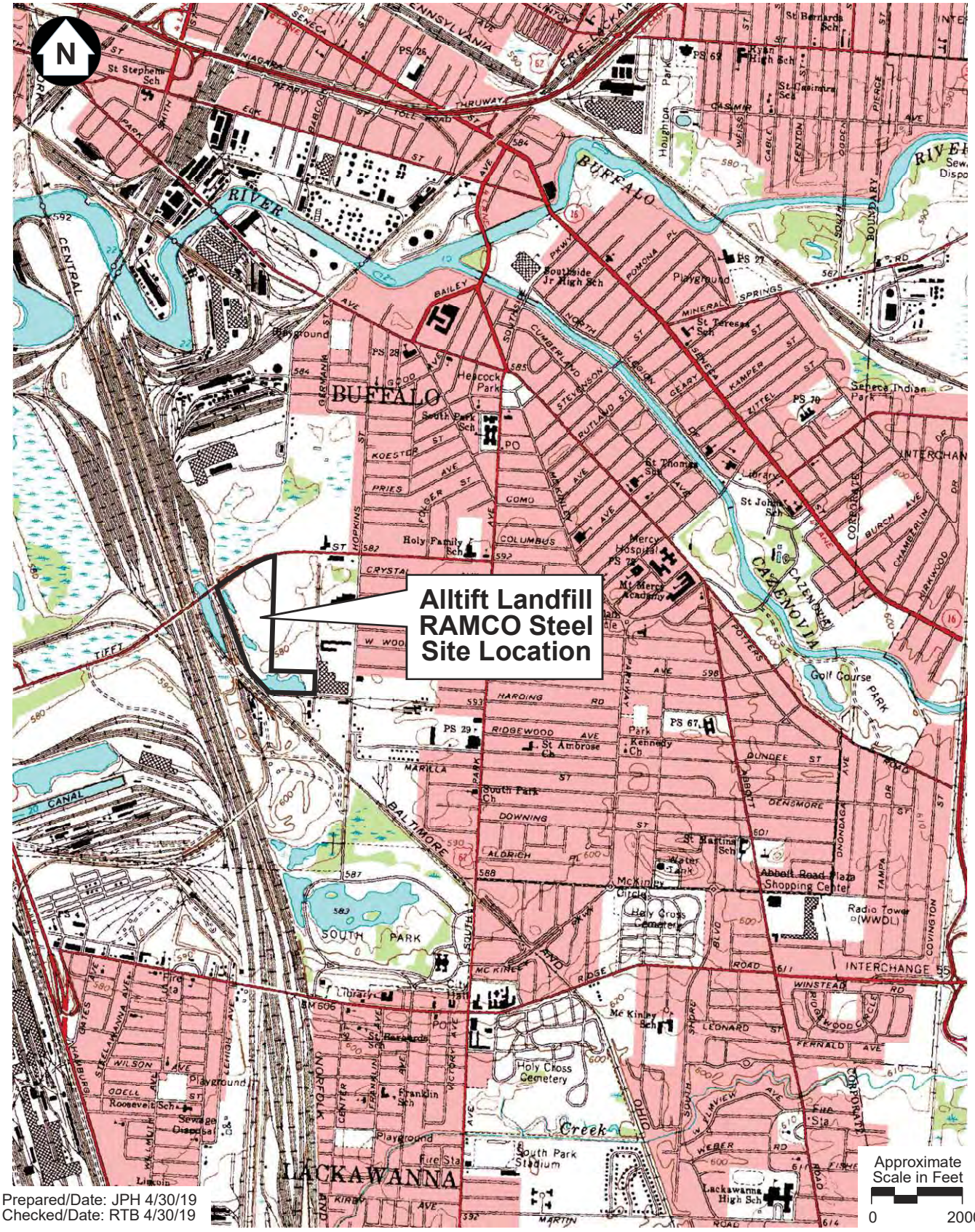
Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification	Stamp (Required for PE)	Date
		4/23/24

ATTACHMENT B

SUPPORTING TABLES, FIGURES, AND APPENDICES

ATTACHMENT B.1

SITE FIGURES



Honeywell

MACTEC

Site Location Map
Alltift Landfill/Ramco Steel Site
Project No. 3616236277
Figure 1

PORT2011018a.ai



Honeywell

MACTEC

Current Conditions
Site Plan

Project 3616236277

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: 80's, partly sunny/haze

Completed by: BH Date: 06-28-2023

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: Fence repairs being scheduled, PO opened. Waiting for response from sub-contractor

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

Comments: Additional mowing to control Phragmites growth may be 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?

Comments: Waiting on additional soil analyses to conduct cap repairs in areas with exposed liner

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**
☐	☒	☐	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: Vapor monitoring conducted April 2023

			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 wells in good condition, locked.

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: Power to facility out upon arrival, replaced faulty transformer damaged by bad power supply from utility provider

Photo Log

Description	Image
Stone Road looking West from wet well	

Description	Image
Wet well area, note phragmites growth	

Description	Image
Cap perimeter looking North from near wet well	

Description	Image
Stone Road looking North from SW Corner of site	

Description	Image
Stone Road looking East to wet well	

Description	Image
Stone Road looking North to shed	

Description	Image
Stone Road and Shed looking South from gate	

Description	Image
Cap perimeter looking East from NW gate	

Description	Image
Cap perimeter looking West from NE gate area	

Description	Image
Cap perimeter looking West from inside NE gate	

Description	Image
Fence perimeter looking East from North side of site. These poles are where the electrical meter box is located.	

Description	Image
North side of fence, looking East from NE gate towards Skyway Auto	

Description	Image
NE corner of site, looking NE from cap perimeter	

Description	Image
Area of downed fence between landfill and Skyway Auto	

Description	Image
Area of damaged fence looking South from NW corner of site	

Description	Image
North side of site from exterior, looking West	

Description	Image
North side of fence from site exterior, looking East	

Description	Image
Pole where electrical meter box is located, at NE corner of site inside fence	

Description	Image
Site electrical disconnect and meter	

NG bucket truck performing repairs to incoming electrical line connections	

Description	Image
Damaged transformer removed from shed	

Description	Image
New transformer installed in shed	

Site Inspection Form

Jacobs

Site Name: Alltift Landfill | Project Number: HNOM3122/30130 | Weather: 70's, sunny

Completed by: Benjamin Hendry | Date: 09-15-2023 / Q3 Inspection

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: Fence section near Skyway Auto requires repair due to tipping, work scheduled for October 2023

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

Comments: Mowing in progress

		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: Cap to be repaired in October 2023 pending soil import approval from DEC

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
☐	☒	☐	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: Annual methane monitoring completed in April 2023

			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:

Photo Log

Description	Image
East Side of cap looking North	
East side of cap facing North	

Description	Image
East side of cap facing South	
NE Side of cap facing South	

Description	Image
NE area of site near Tifft St.	
NE area of cap	

Description	Image
NE site perimeter	
NE corner of cap	

Description	Image
North side of cap facing WSW	
North side of cap facing East	

Description	Image
North side of cap facing East	
NW site gate	

Description	Image
System shed	
East side of cap facing North	

Description	Image
SW corner of cap	
South side of cap facing East	

Site Inspection Form

Jacobs

Site Name: Alltift | Project Number: R30130 | Weather: 30°F, Clear
Completed by: Benjamin Hendry | Date: 12/14/2023

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: Fence in good condition, repaired area at NE corner holding up well. Waste dumping observed on road outside site, some waste inside NE site gate.

		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 September. Small trees along the north fence and cap perimeter should be removed in spring due to proximity to edge of the cap and the fence.

		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: Soil cover applied in 2022 & 2023 holding up well. Fresh soil should be seeded when possible.

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: High water level in ponds, may be affecting well pad at Southeast site area. The weir was not readily visible for inspection due to phragmites growth. A follow-up inspection will be conducted check condition of weir when seasonally clear.

			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. Annual gas monitoring conducted spring 2023.

			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 sampling/monitoring activities up to date.

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. Wet well transfer pump and flow meter cleaned.

Photo Log

Description	Image
1. Facing W from wet well	
2. Facing N from wet well	

Description	Image
3. Facing N on E perimeter	
4. Facing N from E perimeter PZ-12 in background	

Description	Image
5. Facing N from E perimeter PZ-12 Structure is cement well protector	
6. Facing N from E perimeter	

Description	Image
7. NE cap perimeter	
8. NE site perimeter Repaired fence area PZ-13 in background	

Description	Image
9. NE site area PZ-13 Structure is cement well protector	
10. NE site area	

Description	Image
11. NE cap perimeter	
12. NE site gate area	

Description	Image
13. N site perimeter facing W from gate	
14. N fence perimeter facing E	

Description	Image
15. N fence/ cap perimeter facing W	
16. Top of cap	

Description	Image
17. N side of cap	
18. N side of cap facing E	

Description	Image
19. N side of cap facing E GV-3 in foreground	
20. N cap perimeter	

Description	Image
21. N cap perimeter facing W	
22. N site perimeter	

Description	Image
23. N cap area facing E	
24. N site perimeter facing W PZ-15 at center	

Description	Image
25. N site perimeter facing W	
26. N site perimeter facing W	

Description	Image
27. N site perimeter facing E PZ-15 in background	
28. Dumped trash on road across from site (off property)	

Description	Image
29. Dumped trash on access road to site (off property)	
30. System shed area facing S	

Description	Image
31. NW site gate; trash off-site	
32. W side of site facing N to gate PZ-1, PZ-4 in frame	

Description	Image
33. Sump 1 well stickup	
34. N side of site facing S	

Description	Image
35. Drainage feature on West side of site	
36. W side of site facing S PZ-2, PZ-5	

Description	Image
37. W side of site facing N	
38. W side of site facing N	

Description	Image
39. W side of site facing S	
40. SW site area facing S PZ-3, PZ-6	

Description	Image
41. W side of site facing N to shed	
42. SW site area facing S to PZ-7, PZ-8 in background	

Description	Image
43. SW site area High water level adjacent to site perimeter	
44. S site area facing W GWR-2 in background	

Description	Image
45. High water level at SW site area PZ-8	
46. SW site area Well pad is tipping slightly toward water PZ-8	

Description	Image
47. SW site area facing S Sump-4 in background	
48. SW site area facing W	

Description	Image
49. S site area facing E PZ-9, wet well in background	
50. Wet well	

Site Inspection Form

Jacobs

Site Name: **Alltift** Project Number: **30130** Weather: 47*F, cloudy, wind 10-15 mph ESE

Completed by: Benjamin Hendry Date: 03-27-2024

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: 2023 fence repairs holding up well. Beer cans, golf balls found inside fence at SE corner between lift station and PZ-11. Some waste inside NE corner gate. Small breach in fence near PZ-11.

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

Comments: Road in good condition, vegetation growth minimal. Animal burrows under road between Sump-1, PZ-2

		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: Animal burrows observed at several locations on cap, one area on access road. Some areas of topsoil cover eroded, need additional soil spread at spots with exposed liner along West side of cap. Area on East side of cap where drainage path has eroded soil cover, liner not exposed. Area of cracking on East side of cap.

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: Drainage culvert clear, water levels high but draining with no obstruction.

			E. Methane Gas Control
☒	☐		1. Does one exist? (If no, skip section)
☒	☐	☐	2. Is system active or passive? **Passive**
☐	☒	☐	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: Gas monitoring conducted, no methane hits at any location. All fans functional. Fan shrouds should be replaced/added this calendar year.

			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 wells on site in good condition, locked, with plugs in place. Wells near SW corner are slightly tipping toward ponds.

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: Lift station pump inoperable on arrival. Pulled, cleaned on 03-28-2024, debris found in pump impeller. System now operable with no issues.

Photo Log

Description	Image
1. Facing West down access road toward PZ-9 from lift station area.	

Description	Image
2. Lift station area	
3. S side of cap	

Description	Image
4. Facing lift station from N	
5. Facing N from between lift station and PZ-11, beer cans and golf balls on ground in this area	

Description	Image
6. Facing N at PZ-11	
7. Facing S at PZ-11. Small breach in fence observed here	

Description	Image
8. Facing S at PZ-12	
9. Facing N at PZ-12	

Description	Image
10. Animal burrow between PZ-12 and PZ-13	
11. Drainage culvert at NE corner of site, facing repaired fence area	

Description	Image
12. NE area of cap perimeter, facing S	
13. Area of cracking at NE corner of cap, facing SW	

Description	Image
14. Area of cracking at NE corner of cap, facing E	
15. NE corner of cap, facing repaired fence sections	

Description	Image
16. NE site area, waste visible	
17. NE corner of site, facing NW	

Description	Image
18. NE corner of site, facing S to PZ-13	
19. NE corner of site	

Description	Image
20. NE site gate area	
21. N site perimeter facing W	

Description	Image
22. N site perimeter facing NE, tree felling in progress	
23. N site perimeter facing SW, tree felling in progress	

Description	Image
24. N site perimeter facing NNE, tree felling in progress	
25. N perimeter of site facing SW	

Description	Image
26. NW site gate facing road. Waste on road outside of site	
27. NW site gate facing road. Waste on road outside of site	

Description	Image
28. NW corner of site facing edge of fence, N end of pond	
29. W side of site facing S from NW gate area	

Description	Image
30. W side of site facing S between Sump-1 and PZ-2. Animal burrows under road in this area	
31. W side of site facing N from between Sump-1, PZ-2 area	

Description	Image
32. Animal burrows at road edge between Sump-1, PZ-2	

Description	Image
33. Facing NW from near PZ-3	
34. PZ-6, tipping slightly toward pond	

Description	Image
35. Facing SE toward Sump-3, GWR-2	
36. Facing NW toward GWR-2 from near Sump-3	

Description	Image
37. Facing SE toward PZ-7, PZ-8 from near Sump-3	
38. Exposed liner near road between Sump-3, PZ-7	

Description	Image
39. Exposed liner near road between Sump-3, PZ-7	
40. Exposed liner near road between Sump-3, PZ-7	

Description	Image
41. Facing SE toward PZ-7, PZ-8	
42. Facing WNW toward Sump-3, GWR-2	

Description	Image
43. Facing W toward lift station from near PZ-9	
46. Phragmites growth to S. of site	

Description	Image
47. Top of cap facing SE from near NW corner	
48. Top of cap facing NE from near NE corner	

Description	Image
49. Top of cap facing W from GV-1	
50. Top of cap facing SE from near GV-1	

Description	Image
51. Facing NE at GV-3	
52. Facing SE from near GV-3	

Description	Image
53. Facing NE at GV-2	
54. Top of cap facing N from GV-2	

Description	Image
55. Animal burrow on top of cap near Sump-2	
56. Animal burrow on top of cap near Sump-2, facing pond to SW	

ATTACHMENT B.3

WATER LEVEL MEASUREMENTS

Alltift Landfill
Buffalo, New York

Piezometer Readings (DTW, ft)	28-Jun-23	15-Sep-23	14-Dec-23	27-Mar-24
PZ-1	3.53	6.11	5.71	4.52
PZ-2	3.23	7.12	7.23	6.74
PZ-3	3.42	9.02	9.20	9.61
PZ-4	4.37	5.97	5.60	4.84
PZ-5	3.72	6.17	6.20	5.65
PZ-6	3.40	8.22	8.35	8.23
PZ-7	3.60	7.37	7.46	7.35
PZ-8	3.30	6.10	6.27	6.80
PZ-9	6.04	7.13	6.58	6.41
PZ-10	8.79	8.44	7.74	7.72
PZ-11	7.18	8.16	6.78	6.91
PZ-12	6.83	8.87	7.61	7.83
PZ-13	6.09	5.93	5.10	5.30
PZ-14	Abandoned	Abandoned	Abandoned	Abandoned
PZ-15	6.90	7.32	7.06	6.61
PZ-16	Abandoned	Abandoned	Abandoned	Abandoned
Groundwater Collection Trench Sumps (DTW, ft)				
GWCT-1	3.45	7.12	7.18	5.80
GWCT-2	3.58	10.55	10.39	10.81
GWCT-3	3.66	8.14	8.27	8.40
GWCT-4	3.65	6.79	7.12	6.69
Relief Trench Sumps (DTW, ft)				
GWR-1	6.24	6.58	6.11	4.56
GWR-2	6.20	6.26	6.14	5.52
Lift Station (DTW, ft)				
Lift	6.82	7.05	7.16	6.52
Offsite Background Wells (DTW, ft)				
MW-1	Removed	Removed	Removed	Removed
MW-2	NM	NM	NM	NM
Overflow Weir (DTW, ft)	NM	NM	0.65	NM

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

Prepared by: John Formoza
Checked by: Ryan Belcher 4/2/2024

MW-2 not measured during quarterly events. A static depth to water of 6.74 feet was recorded on September 11, 2023 prior to the annual sampling. Overflow weir was generally not accessible during the reporting period.

ATTACHMENT B.4

QUARTERLY GROUNDWATER ELEVATIONS

QUARTERLY GROUNDWATER ELEVATIONS

2023/2024 ANNUAL REPORT

ALLTIFT LANDFILL SITE

BUFFALO, NEW YORK

			6/28/2023		9/15/2023		12/14/2023		3/27/2024	
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	3.53	581.48	6.11	578.90	5.71	579.30	4.52	580.49
PZ-2	16.9	584.96	3.23	581.73	7.12	577.84	7.23	577.73	6.74	578.22
PZ-3	16.9	585.05	3.42	581.63	9.02	576.03	9.2	575.85	9.61	575.44
PZ-4	16.6	585.79	4.37	581.42	5.97	579.82	5.6	580.19	4.84	580.95
PZ-5	16.9	584.52	3.72	580.80	6.17	578.35	6.2	578.32	5.65	578.87
PZ-6	17.8	584.74	3.4	581.34	8.22	576.52	8.35	576.39	8.23	576.51
PZ-7	20.0	584.99	3.6	581.39	7.37	577.62	7.46	577.53	7.35	577.64
PZ-8	20.7	584.48	3.3	581.18	6.1	578.38	6.27	578.21	6.8	577.68
PZ-9	15.1	586.86	6.04	580.82	7.13	579.73	6.58	580.28	6.41	580.45
PZ-10	11.5	589.41	8.79	580.62	8.44	580.97	7.74	581.67	7.72	581.69
PZ-11	19.5	594.72	7.18	587.54	8.16	586.56	6.78	587.94	6.91	587.81
PZ-12	21.8	592.78	6.83	585.95	8.87	583.91	7.61	585.17	7.83	584.95
PZ-13	22.5	589.04	6.09	582.95	5.93	583.11	5.1	583.94	5.3	583.74
PZ-15	17.0	588.79	6.90	581.89	7.32	581.47	7.06	581.73	6.61	582.18
BACKGROUND WELLS										
MW-2*	17.0	586.67	NM	NC	6.74	579.93	NM	NC	NM	NC
GROUNDWATER COLLECTION TRENCH SUMPS										
S1	17.2	585.19	3.45	581.74	7.12	578.07	7.18	578.01	5.8	579.39
S2	24.8	585.45	3.58	581.87	10.55	574.90	10.39	575.06	10.81	574.64
S3	17.3	585.25	3.66	581.59	8.14	577.11	8.27	576.98	8.4	576.85
S4	17.8	585.00	3.65	581.35	6.79	578.21	7.12	577.88	6.69	578.31

Notes

NC - Not calculable

NM - Not measured

*MW-2 not measured during quarterly events. A static depth to water of 6.74 feet was recorded on September 11, 2023 prior to the annual sampling.

Created By:HTS/BL 04/08/2024

Checked By:RTB 05/06/2024

ATTACHMENT B.5

QUARTERLY GROUNDWATER CONTOUR MAPS

Stone Road

Tifft Street

Stone Road

PZ-15
581.89

583

PZ-13
582.95

585

PZ-12
585.95

587

PZ-11
587.54

587

585

581

PZ-1
581.48

PZ-4
581.42

Sump-1

PZ-2
581.73

PZ-5
580.80

Sump-2

PZ-3
581.63

PZ-6
581.34

Sump-3

581

PZ-7
581.39

PZ-8
581.18

PZ-9
580.82

583

Sump-4

PZ-10
580.62

581

Legend

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

Prepared/Date: MR 04/08/24
Checked/Date: RTB 04/08/24

Honeywell Alltift Landfill Site
Buffalo, New York

MACTEC

Interpreted Groundwater Contours
June 28, 2023
Project 3616236277 Figure 1

C:\PROJECT_DELIVERABLES\GIS_SITES\HW_ALLTIFT\MAPFILES\2024\ANNUAL\ALLTIFT_FIGURE01_GROUNDWATER_JUNE_2023_HTSREV2.APRX GANESH R 4/29/2024 10:46 AM

Stone Road

Tifft Street

Stone Road

PZ-13
583.11

582

PZ-15
581.47

580

PZ-1
578.90

PZ-4
579.82

Sump-1

PZ-12
583.91

584

586

PZ-2
577.84

PZ-5
578.35

PZ-11
586.56

Sump-2

Groundwater Collection Trench

PZ-3
576.03

578

PZ-6
576.52

578

586

586

Sump-3

PZ-7
577.62

PZ-9
579.73

PZ-8
578.38

Sump-4

PZ-10
580.97

580

582

Legend

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

N

0 60 120
Feet

Prepared/Date: MR 04/08/2024
Checked/Date: RTB 04/08/2024

Honeywell Alltift Landfill Site
Buffalo, New York

MACTEC

Interpreted Groundwater Contours
September 15, 2023
Project 3616236277 Figure 2

C:\PROJECT_DELIVERABLES\GIS_SITES\HW_ALLTIFT\MAPFILES\2024\ANNUAL\ALLTIFT_FIGURE02_GROUNDWATER_SEPTEMBER_2023_HTSREV1.APRX ARUN 4/25/2024 2:06 PM

Stone Road

Tifft Street

Stone Road

584

PZ-13
583.94

582

PZ-15
581.73

580

PZ-1
579.30

PZ-4
580.19

Sump-1

PZ-12
585.17

586

PZ-2
577.73

PZ-5
578.32

PZ-11
587.94

Sump-2

576

PZ-3
575.85

578

PZ-6
576.39

578

586

Sump-3

PZ-7
577.53

PZ-9
580.28

584

PZ-8
578.21

Sump-4

PZ-10
581.67

582

580

Legend

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

Prepared/Date: MR 04/08/2024
Checked/Date: RTB 04/08/2024

Honeywell Alltift Landfill Site
Buffalo, New York

MACTEC

Interpreted Groundwater Contours
December 14, 2023
Project 3616236277 Figure 3

C:\PROJECT_DELIVERABLES\GIS_SITES\HW_ALLTIFT\MAPFILES\2024\ANNUAL\ALLTIFT_FIGURE03_GROUNDWATER_DECEMBER_2023_HTSREV1.APRX ARUN 4/26/2024 3:08 PM

Stone Road
Tifft Street
Stone Road
584
PZ-13
583.74
582
PZ-15
582.18
580
PZ-4
580.95
PZ-1
580.49
Sump-1
PZ-2
578.22
PZ-5
578.87
Sump-2
PZ-3
575.44
576
PZ-6
576.51
578
Sump-3
PZ-7
577.64
PZ-8
577.68
PZ-9
580.45
Sump-4
PZ-12
584.95
586
PZ-11
587.81
586
584
PZ-10
581.69
582
580

Legend

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

Prepared/Date: MR 04/08/2024
Checked/Date: RTB 04/08/2024

Honeywell Alltift Landfill Site
Buffalo, New York

MACTEC

Interpreted Groundwater Contours
March 27, 2024
Project 3616236277 Figure 4

C:\PROJECT_DELIVERABLES\GIS_SITES\HW_ALLTIFT\MAPFILES\2024\ANNUAL\ALLTIFT_FIGURE04_GROUNDWATER_MARCH_2024_HTSREV2.APRX ARUN 4/29/2024 11:05 AM

ATTACHMENT B.6

DISCHARGE MONITORING REPORTS

Jacobs
1563 Willis Avenue
Syracuse, New York 13204
O +1 315 468 1663
F +1 315 468 1664
www.jacobs.com

June 6, 2023

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
2023 First Semi-Annual Report
BPDES Permit # 21-12-BU098

Dear Ms. Adams:

Enclosed please find the 2023 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 2,846,137 gallons. The flow was measured from a totalizing meter within the lift station at the Alltift Site from September 07, 2022 through April 20, 2023 for a total of 225 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 5, 2023. 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 on April 20, 2023. 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. The laboratory analytical report is provided as Attachment 2. If you have any questions or require additional information, please contact me at (315) 532-5608.

Sincerely,

Jacobs

John W. Formoza
Regional Manager

QC Review By: Michael Fay (Jacobs)

cc.: Mr. Sasa Jazic (Honeywell)
Mr. Ryan Belcher (WSP)
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 2023
Discharge Monitoring Report

BSA Permit No. 21-12-BU098	
Sample Date:	April 20 and May 5, 2023
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	7.20			SU	7.20	SU	5.0 - 12.0	SU	Yes
Copper	ND		0.01	mg/L	ND	lbs/day	7.68	lbs/day	Yes
Mercury	ND		0.0002	mg/L	ND	mg/l	0.0008	mg/l	Yes
Zinc	0.0121	J	0.020	mg/L	0.0013	lbs/day	12	lbs/day	Yes
Total Suspended Solids	47.0		4.0	mg/L	47	mg/L	250	mg/L	Yes
Total Phosphorus	0.27		0.50	mg/L	0.3	mg/L	15.35	mg/L	Yes
USEPA Test Method 624	ND - 97.49			µg/L	Monitor Only				
USEPA Test Method 625	ND - 27.75			µg/L					
Total Flow (average)	8.78			gpm	12,649	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)	906363	9/7/2022
Final Reading (pump station)	3752500	4/20/2023
Total Days in Period		225
Total Flow for Period	**2,846,137**	**gallons**
Average Flow for Period	**8.78**	**gpm**

Note: New flow meter installed on 4/20/2023

Prepared by, Date: Anil, 5/30/2023
Checked by, Date: Michael Fay, 6/5/2023

Attachment 1 - Flow Meter Readings

Buffalo Alltift Lift Station	
Date	**Totalizer Reading (gallons)**
9/7/2022	906363
11/10/2022	1028900
11/16/2022	1088000
12/15/2022	1397000
1/3/2023	1676000
2/15/2023	2495000
3/8/2023	2871100
4/20/2023	3752500



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 6/6/2023

John W. Formoza
Jacobs

Date

Jacobs

Well Sampling Form

Page 1

Project Name: Ailtift Landfill
Location: 579 Tifft St, Buffalo NY
Sampling Event: 2023 Semi-Annual #1
Job #:

Date: 04-20-2023
Field Team: Bit
Field Conditions: 60s, clear

Well / Sample #: Wet well
Initial DTW: N/A
Purge Method: N/A

Start Time: 0900 End Time: 1630

~~Measure Point:~~

Sample Method: Bailer

Sample ID: See attached COC

Sample Time: See below, COC

~~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: Flow-thru cell

TDS (g/L)

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 - Sample grab 1, add 1gal. to composite container.		6.90 pH	1.814 mS/cm	1.153 g/L		10.3°C		
1130 - Sample grab 2, add 1gal. to composite container.		6.95 pH	1.835 mS/cm	1.173 g/L		11.1°C		
~~1130~~								
1330 - Sample grab 3, add 1gal to composite container		6.88 pH	1.814 mS/cm	1.161 g/L		11.3°C		
1550 - Sample grab 4, add 1 gal to composite container.		6.89 pH	1.810 mS/cm	1.158 g/L		11.0°C		
1545 - Mix composite container & sample wet well composite. ~~Sample~~								

Sample Collection Information

Parameter	Bottle Type	Volume	Quantity	Preservative	Field Filtered(Y/N)	Sample Taken(Y/N)	Notes
VOCs	VOA	40mL	11×3	HCl	N	Y	} Grabs
SVOCs	~~Amber~~	1L	2×3	None	N	Y	
Met, Hg	Poly	.5L	2	HNO_3	N	Y	} Comp
TPH	~~Poly~~	.5L	1	H_2SO_4	N	Y	
TSS	Poly	1L	2	None	N	Y	
pH/Temp	Poly	250mL	1	None	N	Y	

Notes: Wet well FM reading: 37525298

Jacobs

Well Sampling Form

Page 1 of 1

Project Name: Athol Landfill
Location: 579 Tifft St. Buffalo NY
Sampling Event: Semi-Annual VOC Re-Sample
Job #:

Date: 05-04-2023
Field Team: B. Hendry
Field Conditions:

Well / Sample #: Wet well comp. grabs
~~Initial DTW:~~ ~~BH~~
~~Purge Method:~~ ~~BH~~

Start Time: 0830
End Time: 1515

~~Measure Point:~~ ~~BH~~

Sample Method: Bailer

Sample ID: ~~Athol-050423-Gr~~ Grab "X"-050423-BSA Discharge (BH)
~~Dup. Sample ID:~~ ~~BH~~
~~QC Sample ID:~~ ~~BH~~
~~Depth to Bottom (from meas. pt. ft.):~~ ~~BH~~

Sample Time: 0900, 1100, 1300, 1500
~~Dup Time:~~ ~~BH~~
~~QC Time:~~ ~~BH~~

~~Min. Purge Vol. (gal. or L):~~ ~~BH~~

~~Purge Rate (lpm or mLpm):~~ ~~BH~~

~~WQ Parameter Measurement Technique:~~ ~~BH~~ Flow-thru cell

TDS (S/L)

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
0830	On site. Cal. pH meter, prepare sample bottles, get FM reading.							
0900	Grab 1-050423-BSA Discharge sampled:							
		6.82	1.512	0.968		10.4		
1100	Grab 2-050423-BSA Discharge sampled:							
		6.80	1.655	1.059		10.0		
1300	Grab 3-050423-BSA Discharge sampled:							
		6.85	1.944	1.278		10.1		
1500	Grab 4-050423-BSA Discharge sampled:							
		6.80	2.52	1.614		10.1		
05-05-23 - 1500	Ship samples via Fedex. Tracking #: 559473727585.							

Sample Collection Information

	Parameter	Bottle Type	Volume	Quantity	Preservative	Field Filtered(Y/N)	Sample Taken(Y/N)	Notes
4x	VOCs 1624	VOA	40mL	3	HCl	N	Y	
4x	SVOCs 1625	Amber	1L	2	None	N	Y	

Notes:

FM @ ~0830 - 105015.5

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

31030 PO# A001132428

SGS Job Number: JD65186

Sampling Date: 05/04/23



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: 62

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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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: JD65186

HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Project No: 31030 PO# A001132428

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
This report contains results reported as ND = Not detected. The following applies: Organics ND = Not detected above the MDL							
JD65186-1	05/04/23	09:00	BH	05/06/23	AQ	Ground Water	GRAB 1-050423-BSA DISCHARGE
JD65186-2	05/04/23	11:00	BH	05/06/23	AQ	Ground Water	GRAB 2-050423-BSA DISCHARGE
JD65186-3	05/04/23	13:00	BH	05/06/23	AQ	Ground Water	GRAB 3-050423-BSA DISCHARGE
JD65186-4	05/04/23	15:00	BH	05/06/23	AQ	Ground Water	GRAB 4-050423-BSA DISCHARGE
JD65186-5	05/04/23	15:00	BH	05/06/23	AQ	Trip Blank Water	050423-TB
JD65186-6	05/04/23	00:00	BH	05/06/23	AQ	Ground Water	GRAB 1-THROUGH 4 LAB COMPOSITE-050423-BSA DISCHARGE

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Honeywell International Inc. OMM work **Job No:** JD65186

Site: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY **Report Date** 5/19/2023 8:46:01 AM

On 05/06/2023, 5 sample(s), 1 Trip Blank(s), and 0 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 4.5 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of JD65186 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 EPA 624.1

Matrix: AQ **Batch ID:** V2D9183

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD65124-1MS, JD65124-1MSD were used as the QC samples indicated.
- The matrix spike (MS) recovery(s) of Acrolein are outside control limits. Outside in house control limits.
- The matrix spike duplicate (MSD) recovery(s) of 2-Chloroethyl vinyl ether are outside control limits. Outside control limits due to acid preservation.
- The matrix spike (MS) recovery(s) of Chlorobenzene, Toluene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- JD65186-5: Results reported from the HCl preserved sample. The reported result for acrolein is for screening only and cannot be used for compliance purposes.
- JD65186-1: Results reported from the HCl preserved sample. The reported result for acrolein is for screening only and cannot be used for compliance purposes.
- JD65186-2: Results reported from the HCl preserved sample. The reported result for acrolein is for screening only and cannot be used for compliance purposes.
- JD65186-3: (pH=3.5)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.
- JD65186-4: Results reported from the HCl preserved sample. The reported result for acrolein is for screening only and cannot be used for compliance purposes.
- JD65186-1 for Acrolein: This compound in blank spike is outside in house QC limits bias high.
- JD65186-2 for Acrolein: This compound in blank spike is outside in house QC limits bias high.
- JD65186-3 for Acrolein: This compound in blank spike is outside in house QC limits bias high.
- JD65186-5 for Acrolein: This compound in blank spike is outside in house QC limits bias high.
- JD65186-4 for Acrolein: This compound in blank spike is outside in house QC limits bias high.
- V2D9183-BS for Acrolein: High percent recovery and no associated positive reported in the QC batch.

Matrix: AQ **Batch ID:** V2D9186

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD65261-2MS were used as the QC samples indicated.
- The matrix spike (MS) recovery(s) of 2-Chloroethyl vinyl ether are outside control limits. Outside control limits due to acid preservation.
- JD65186-6: Results reported from the HCl preserved sample. The reported result for acrolein is for screening only and cannot be used for compliance purposes.
- JD65186-6 for Acrolein: This compound in blank spike is outside in house QC limits bias high.
- V2D9186-BS for Acrolein: High percent recovery and no associated positive reported in the QC batch.

MS Volatiles By Method EPA 624.1

Matrix: AQ **Batch ID:** V2D9186

- V2D9186-BS for Bromoform: High percent recovery and no associated positive reported in the QC batch.
- V2D9186-BS for Acrylonitrile: High percent recovery and no associated positive reported in the QC batch.

MS Semi-volatiles By Method EPA 625.1

Matrix: AQ **Batch ID:** OP46413B

- All samples were extracted 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.
- JD65186-3: Confirmation run.
- JD65186-1: Confirmation run.
- JD65186-2: Confirmation run.
- JD65186-4: Confirmation run.
- JD65186-3 for Terphenyl-d14: Outside control limits. Unable to re-extract within holding time. Results confirmed by re-analysis.
- JD65186-1 for Terphenyl-d14: Outside control limits. Unable to re-extract within holding time. Results confirmed by re-analysis.
- JD65186-4 for Terphenyl-d14: Outside control limits. Unable to re-extract within holding time. Results confirmed by re-analysis.
- OP46413B-BSD for Benzidine: Analytical precision exceeds in-house control limits.
- JD65186-4 for Benzidine: This compound is outside the control limits biased low in the associated BS.
- JD65186-4 for Terphenyl-d14: Outside control limits due to possible matrix interference. Extraction log indicated sample contained "sediment". Unable to re-extract sample within method holding time.
- JD65186-3 for Benzidine: This compound is outside the control limits biased low in the associated BS.
- JD65186-3 for Terphenyl-d14: Outside control limits due to possible matrix interference. Extraction log indicated sample contained "sediment". Unable to re-extract sample within method holding time.
- JD65186-3 for 2,4,6-Tribromophenol: Outside control limits due to possible matrix interference. Extraction log indicated sample contained "sediment". Unable to re-extract sample within method holding time.
- JD65186-2 for Benzidine: This compound is outside the control limits biased low in the associated BS.
- OP46413B-BSD for Benzidine: Analytical precision exceeds in-house control limits.
- OP46413B-BS1 for Benzidine: Outside of in house control limits.
- JD65186-1 for Benzidine: This compound is outside the control limits biased low in the associated BS.
- JD65186-1 for Terphenyl-d14: Outside control limits. Unable to re-extract within method holding criteria.
- OP46413B-BSD for bis(2-Chloroethyl)ether: Analytical precision exceeds in-house control limits.

Matrix: AQ **Batch ID:** OP46488B

- All method blanks for this batch meet method specific criteria.
- JD65186-6: Sample extracted outside the holding time.
- OP46488B-BSD for 1,3-Dichlorobenzene: Analytical precision exceeds in-house control limits.
- OP46488B-BSD for Hexachlorobutadiene: Analytical precision exceeds in-house control limits.
- OP46488B-BSD for 1,2-Dichlorobenzene: Analytical precision exceeds in-house control limits.
- OP46488B-BSD for bis(2-Chloroethyl)ether: Analytical precision exceeds in-house control limits.
- OP46488B-BSD for Benzidine: Analytical precision exceeds in-house control limits.
- OP46488B-BS1 for Benzidine: Outside of in house control limits.
- OP46488B-BSD for 1,4-Dichlorobenzene: Analytical precision exceeds in-house control limits.
- OP46488B-BSD for 1,2,4-Trichlorobenzene: Analytical precision exceeds in-house control limits.
- OP46488B-BSD for Hexachloroethane: Analytical precision exceeds in-house control limits.

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.

Summary of Hits

Job Number: JD65186
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 05/04/23

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD65186-5	**050423-TB**					
No hits reported in this sample.						
JD65186-6	**GRAB 1-THROUGH 4 LAB COMPOSITE-050423-BSA DISCHARGE**					
Benzene [a]		10.8	1.0	0.34	ug/l	EPA 624.1
Chlorobenzene [a]		84.3	1.0	0.33	ug/l	EPA 624.1
1,2-Dichlorobenzene [a]		0.59 J	1.0	0.30	ug/l	EPA 624.1
1,4-Dichlorobenzene [a]		1.8	1.0	0.50	ug/l	EPA 624.1
Butyl benzyl phthalate [b]		0.49 J	2.0	0.46	ug/l	EPA 625.1
4-Chloroaniline [b]		25.0	5.0	0.34	ug/l	EPA 625.1
1,4-Dichlorobenzene [b]		0.92 J	1.0	0.17	ug/l	EPA 625.1
Naphthalene [b]		0.84 J	1.0	0.23	ug/l	EPA 625.1
N-Nitrosodiphenylamine [b]		0.50 J	5.0	0.22	ug/l	EPA 625.1

(a) 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 extracted outside the holding time.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	050423-TB		
Lab Sample ID:	JD65186-5	**Date Sampled:**	05/04/23
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/06/23
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]	2D210868.D	1	05/10/23 18:22	ED	n/a	n/a	V2D9183
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 [b]	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	

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:	050423-TB		
Lab Sample ID:	JD65186-5	**Date Sampled:**	05/04/23
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/06/23
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)	104%		80-128%
2037-26-5	Toluene-D8 (SUR)	103%		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	92%		79-117%
1868-53-7	Dibromofluoromethane (S)	94%		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.
(b) This compound in blank spike is outside in house QC limits bias high.

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-THROUGH 4 LAB COMPOSITE-050423-BSA DISCHARGE		
Lab Sample ID:	JD65186-6	**Date Sampled:**	05/04/23
Matrix:	AQ - Ground Water	**Date Received:**	05/06/23
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]	2D210945.D	1	05/12/23 18:20	ED	n/a	n/a	V2D9186
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 [b]	ND	10	3.7	ug/l	
107-13-1	Acrylonitrile [b]	ND	10	2.5	ug/l	
71-43-2	Benzene	10.8	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.35	ug/l	
75-25-2	Bromoform [b]	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	84.3	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	0.59	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	1.8	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	

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-THROUGH 4 LAB COMPOSITE-050423-BSA DISCHARGE		
Lab Sample ID:	JD65186-6	**Date Sampled:**	05/04/23
Matrix:	AQ - Ground Water	**Date Received:**	05/06/23
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)	114%		80-128%
2037-26-5	Toluene-D8 (SUR)	102%		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	89%		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.
(b) This compound in blank spike is outside in house QC limits bias high.

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-THROUGH 4 LAB COMPOSITE-050423-BSA DISCHARGE		
Lab Sample ID:	JD65186-6	**Date Sampled:**	05/04/23
Matrix:	AQ - Ground Water	**Date Received:**	05/06/23
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 [a]	F214284.D	1	05/13/23 12:26	KLS	05/12/23 07:00	OP46488B	EF9462
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 [b]	ND	10	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol [b]	ND	5.0	1.3	ug/l	
88-75-5	2-Nitrophenol [b]	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 [c]	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 [b]	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	0.49	2.0	0.46	ug/l	J
91-58-7	2-Chloronaphthalene	ND	2.0	0.24	ug/l	
106-47-8	4-Chloroaniline	25.0	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	

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-THROUGH 4 LAB COMPOSITE-050423-BSA DISCHARGE		
Lab Sample ID:	JD65186-6	**Date Sampled:**	05/04/23
Matrix:	AQ - Ground Water	**Date Received:**	05/06/23
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	0.92	1.0	0.17	ug/l	J
121-14-2	2,4-Dinitrotoluene [b]	ND	1.0	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene [b]	ND	1.0	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine [b]	ND	2.0	0.51	ug/l	
53-70-3	Dibenzo(a,h)anthracene [b]	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	0.84	1.0	0.23	ug/l	J
98-95-3	Nitrobenzene	ND	2.0	0.64	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	2.0	0.82	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	0.50	5.0	0.22	ug/l	J
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	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	13%		10-110%
4165-62-2	Phenol-d5	10%		10-110%
118-79-6	2,4,6-Tribromophenol	37%		35-147%
4165-60-0	Nitrobenzene-d5	75%		32-132%
321-60-8	2-Fluorobiphenyl	63%		40-117%
1718-51-0	Terphenyl-d14	33%		33-126%

(a) Sample extracted outside the holding time.
(b) Associated CCV outside of control limits high, sample was ND.
(c) This compound in BS,BSD is outside in house QC limits bias low.

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: JD65186
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.

DW GW TB

4.1 CIP IR-40

SGS Laboratories 2235 Route 130 Dayton, NJ 08810 (732) 239-0200	**Honeywell** Chain of Custody / Analysis Request	Save with QC Check: Gray Cells Required	More Columns	Print Short COC	AESI Ref:	45051.40494
			[redacted]	Print Expanded COC	COC#	Altift - 050423
						Page 1 of 1

Pricing Source (RFP, eAuction, etc)	RFP2019	HW Site Name	Buffalo Altift Landfill
Task Type	OM&M	Lab Proj # (SDG):	JD65186
Sampling Co.:	Jacobs	Email of person receiving EDD	EQUIS
Location of Site	579 Tifft Street, Buffalo NY	WBS Code	6400
Lab Location ID	ACTD	Sampler(s) names	Benjamin Hendry

Reporting Information (DocuSign First Signer)					
Name	Jacobs			HW Site R-Code	R31030
Address	1563 Willis Ave.	PO #	HW PO # A001132428	Sampling Program	Semi-Annual
City, State, Zip	Syracuse, NY 13204	Analysis Turnaround Time (calendar days):	5 Day Rush	Authorized User:	Honeywell
Contact; email	Mike Fay, Michael.Fay@jacobs.com	Consultant	Jacobs	Lab Parent ID	SGS

Billing Information (DocuSign Second Signer)					
Co. Name	Honeywell	Laboratory Contact	Jadon Schiller	Text & Excel File Drive	Excel & Text File Order
Address	301 Plainfield Road, Suite 330	Report Tier Level	2	Excel	
City, State, Zip	Syracuse, NY 13202	Full Report and EDD TAT (calendar days)	Standard TAT	[redacted]	
HW RM email	Shane.Blauvelt@honeywell.com	Honeywell RM Name	Shane Blauvelt (SRB)		

More Rows [redacted]

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Analytical Group Name / Preservation: V624 PPL EPA624 VOA — 18; 625 PPL SVOC-AB625PPL — 1

	Sample Identification: Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Medium	# of Cont.	Composite (Y, N)	Field Filtered Sample (Y, N)	V624 PPL EPA624 VOA (mg/l)	625 PPL SVOC-AB625PPL (mg/l)	Sampling Method (rt_sample_method)	Lab Sample Numbers
1 1	-----	---	---	Grab 1-050423-BSA Discharge	05-04-2023	0900	GW	WATER	REG	5	N	N	3	2		E33
2 2	-----	---	---	Grab 2-050423-BSA Discharge	05-04-2023	1100	GW	WATER	REG	5	N	N	3	2		V1074
3 3	-----	---	---	Grab 1-050423-BSA Discharge	05-04-2023	1300	GW	WATER	REG	5	N	N	3	2		
4 4	-----	---	---	Grab 2-050423-BSA Discharge	05-04-2023	1500	GW	WATER	REG	5	N	N	3	2		
5 5	-----	---	---	050423-TB	05-04-2023	---	TB	WQ	REG	2	N	N	2			
6																
7																
8																
9																
10																
11																
12																

Initial Assessment: 2B 6A

Label Verification: ___

[redacted] **GRABS 1, 2, 3, 4 MUST BE COMPOSITED BY LAB PRIOR TO ANALYSIS**

COC questions, contact sampler

Relinquished by	Company	Jacobs	Received by	Company		Condition		Custody Seals Intact	
Benj Hend	Date/Time	05-05-23/1630	FedEx	Date/Time		Cooler Temp			
Relinquished by	Company		Received by	Company		Condition		Custody Seals Intact	
FedEx	Date/Time	5/6/23 9:55	[signature]	Date/Time		Cooler Temp	4.7 IR-40	Lab Quote #	
Preservatives: (Other; Specify):			0 (None); 1 (4 Deg C); 2 (4C HCl-Na2SO3 (pH<2)); 3 (4C HNO3); 4 (4C HNO3 (pH<2)); 5 (4C none); 6 (4CH2SO4pH<2)Na2S2O3); 7 (4CNaOH(pH>12)&AscAci); 8 (ASCACI); 9 (BrCl); 10 (DI H2O); 11 (EDTA); 12 (H2O); 13 (H2SO4 (pH<2)); 14 (H2SO4 (pH<2), 4 DegC); 15 (H3PO4); 16 (HCl); 17 (HCl (pH<2)); 18 (HCl (pH<2), 4 Deg C); 19 (HCL, 4 Deg C); 20 (HNO3 (pH<2)); 21 (HNO3 (pH<2), 4 Deg C); 22 (MCAA,Na2SO3); 23 (Methanol); 24 (Na2SO3); 25 (Na2SO4); 26 (Na3PO4); 27 (NaHSO4); 28 (NaOH); 29 (NaOH (pH>12)); 30 (NaOH (pH>12), 4 DegC); 31 (NaOH, Zn Acetate); 32 (Nitric Acid, 4 Deg C); 33 (Other); 34 (Zn Acetate); sp (Special);				FedEx Tracking #	

JD65186: Chain of Custody
Page 1 of 5

SGS Sample Receipt Summary

Job Number: JD65186 **Client:** HONEYWELL **Project:** BUFFALO ALLTIFT LANDFILL

Date / Time Received: 5/6/2023 9:55:00 AM **Delivery Method:** FED EX **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (4.7);

Cooler Temps (Corrected) °C: Cooler 1: (4.5);

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: JD65186

Requested Date:	5/11/2023	**Received Date:**	5/6/2023
Account Name:	Honeywell International Inc. OMM	**Due Date:**	5/11/2023
Project Description:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Bu	**Deliverable:**	COMMBN
C/O Initiated By:	JADON_SC **PM:** JBS	**TAT (Days):**	6

Sample #: JD65186-6 **Dept:** ALL

Client ID: **TAT:** 6

Change: Composite JD65186-1 thru -4 and create sample Grab 1-through 4 Lab Composite-050423-BSA Dischar Analyze for COMPQ, COMPVOA, V624PPL, AB625PPL

Above Changes Per: Jadon Schiller **Date/Time:** 5/11/2023

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Job Change Order: JD65186

Requested Date:	5/12/2023	**Received Date:**	5/6/2023
Account Name:	Honeywell International Inc. OMM	**Due Date:**	5/12/2023
Project Description:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Bu	**Deliverable:**	COMMBN
C/O Initiated By:	JADON_SC **PM:** JBS	**TAT (Days):**	6

==========

Sample #: JD65186-3 **Dept:** RP

Client ID: GRAB 1-050423-BSA DISCHARGE **TAT:** 6

Change: Revise client ID to Grab 3-050423-BSA Discharge

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Sample #: JD65186-4 **Dept:** RP

Client ID: GRAB 2-050423-BSA DISCHARGE **TAT:** 6

Change: Revise client ID to Grab 4-050423-BSA Discharge

Above Changes Per: Benjamin Hendry **Date/Time:** 5/12/2023

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Job Change Order: JD65186

Requested Date:	5/19/2023	**Received Date:**	5/6/2023
Account Name:	Honeywell International Inc. OMM	**Due Date:**	5/19/2023
Project Description:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Bu	**Deliverable:**	COMMBN
C/O Initiated By:	JADON_SC **PM:** JBS	**TAT (Days):**	6

Sample #: JD65186-1 thru 4 **Dept:** ALL

Client ID: **TAT:** 6

Change: Please NO OUT AB625PPL and V624PPL

Above Changes Per: Benjamin Hendry **Date/Time:** 5/19/2023

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

QC Evaluation: Honeywell Limits

Job Number: JD65186
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 05/04/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V2D9183	EPA 624.1						
V2D9183-BS	107-02-8	Acrolein	BSP	REC	153 [a]	%	70-130
V2D9183-BS	107-13-1	Acrylonitrile	BSP	REC	126	%	70-130
V2D9183-BS	71-43-2	Benzene	BSP	REC	85	%	70-130
V2D9183-BS	75-27-4	Bromodichloromethane	BSP	REC	93	%	70-130
V2D9183-BS	75-25-2	Bromoform	BSP	REC	120	%	70-130
V2D9183-BS	74-83-9	Bromomethane	BSP	REC	81	%	70-130
V2D9183-BS	56-23-5	Carbon tetrachloride	BSP	REC	81	%	70-130
V2D9183-BS	108-90-7	Chlorobenzene	BSP	REC	93	%	70-130
V2D9183-BS	75-00-3	Chloroethane	BSP	REC	83	%	70-130
V2D9183-BS	110-75-8	2-Chloroethyl vinyl ether	BSP	REC	79	%	70-130
V2D9183-BS	67-66-3	Chloroform	BSP	REC	77	%	70-130
V2D9183-BS	74-87-3	Chloromethane	BSP	REC	63	%	70-130
V2D9183-BS	124-48-1	Dibromochloromethane	BSP	REC	115	%	70-130
V2D9183-BS	95-50-1	1,2-Dichlorobenzene	BSP	REC	94	%	70-130
V2D9183-BS	541-73-1	1,3-Dichlorobenzene	BSP	REC	92	%	70-130
V2D9183-BS	106-46-7	1,4-Dichlorobenzene	BSP	REC	98	%	70-130
V2D9183-BS	75-71-8	Dichlorodifluoromethane	BSP	REC	91	%	70-130
V2D9183-BS	75-34-3	1,1-Dichloroethane	BSP	REC	76	%	70-130
V2D9183-BS	107-06-2	1,2-Dichloroethane	BSP	REC	89	%	70-130
V2D9183-BS	75-35-4	1,1-Dichloroethene	BSP	REC	77	%	70-130
V2D9183-BS	156-59-2	cis-1,2-Dichloroethene	BSP	REC	88	%	70-130
V2D9183-BS	156-60-5	trans-1,2-Dichloroethene	BSP	REC	80	%	70-130
V2D9183-BS	78-87-5	1,2-Dichloropropane	BSP	REC	81	%	70-130
V2D9183-BS	10061-01-5	cis-1,3-Dichloropropene	BSP	REC	98	%	70-130
V2D9183-BS	10061-02-6	trans-1,3-Dichloropropene	BSP	REC	101	%	70-130
V2D9183-BS	100-41-4	Ethylbenzene	BSP	REC	93	%	70-130
V2D9183-BS	75-09-2	Methylene chloride	BSP	REC	75	%	70-130
V2D9183-BS	79-34-5	1,1,2,2-Tetrachloroethane	BSP	REC	116	%	70-130
V2D9183-BS	127-18-4	Tetrachloroethene	BSP	REC	93	%	70-130
V2D9183-BS	108-88-3	Toluene	BSP	REC	91	%	70-130
V2D9183-BS	71-55-6	1,1,1-Trichloroethane	BSP	REC	84	%	70-130
V2D9183-BS	79-00-5	1,1,2-Trichloroethane	BSP	REC	101	%	70-130
V2D9183-BS	79-01-6	Trichloroethene	BSP	REC	92	%	70-130
V2D9183-BS	75-69-4	Trichlorofluoromethane	BSP	REC	108	%	70-130
V2D9183-BS	75-01-4	Vinyl chloride	BSP	REC	78	%	70-130
V2D9183-BS	1330-20-7	Xylenes (total)	BSP	REC	92	%	70-130
V2D9183-BS	17060-07-0	1,2-Dichloroethane-D4 (SUR)	BSP	SURR	99	%	70-130
V2D9183-BS	2037-26-5	Toluene-D8 (SUR)	BSP	SURR	97	%	70-130
V2D9183-BS	460-00-4	4-Bromofluorobenzene (SUR)	BSP	SURR	96	%	70-130
V2D9183-BS	1868-53-7	Dibromofluoromethane (S)	BSP	SURR	97	%	70-130
JD65124-1MS*	107-02-8	Acrolein	MS	REC	169 [b]	%	70-130
JD65124-1MS*	107-13-1	Acrylonitrile	MS	REC	135	%	70-130

* Sample used for QC is not from job JD65186

QC Evaluation: Honeywell Limits

Job Number: JD65186
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 05/04/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD65124-1MS*	71-43-2	Benzene	MS	REC	128	%	70-130
JD65124-1MS*	75-27-4	Bromodichloromethane	MS	REC	98	%	70-130
JD65124-1MS*	75-25-2	Bromoform	MS	REC	99	%	70-130
JD65124-1MS*	74-83-9	Bromomethane	MS	REC	82	%	70-130
JD65124-1MS*	56-23-5	Carbon tetrachloride	MS	REC	83	%	70-130
JD65124-1MS*	108-90-7	Chlorobenzene	MS	REC	1420 [c]	%	70-130
JD65124-1MS*	75-00-3	Chloroethane	MS	REC	83	%	70-130
JD65124-1MS*	110-75-8	2-Chloroethyl vinyl ether	MS	REC	10	%	70-130
JD65124-1MS*	67-66-3	Chloroform	MS	REC	79	%	70-130
JD65124-1MS*	74-87-3	Chloromethane	MS	REC	41	%	70-130
JD65124-1MS*	124-48-1	Dibromochloromethane	MS	REC	91	%	70-130
JD65124-1MS*	95-50-1	1,2-Dichlorobenzene	MS	REC	98	%	70-130
JD65124-1MS*	541-73-1	1,3-Dichlorobenzene	MS	REC	86	%	70-130
JD65124-1MS*	106-46-7	1,4-Dichlorobenzene	MS	REC	53	%	70-130
JD65124-1MS*	75-71-8	Dichlorodifluoromethane	MS	REC	79	%	70-130
JD65124-1MS*	75-34-3	1,1-Dichloroethane	MS	REC	79	%	70-130
JD65124-1MS*	107-06-2	1,2-Dichloroethane	MS	REC	107	%	70-130
JD65124-1MS*	75-35-4	1,1-Dichloroethene	MS	REC	77	%	70-130
JD65124-1MS*	156-59-2	cis-1,2-Dichloroethene	MS	REC	90	%	70-130
JD65124-1MS*	156-60-5	trans-1,2-Dichloroethene	MS	REC	86	%	70-130
JD65124-1MS*	78-87-5	1,2-Dichloropropane	MS	REC	89	%	70-130
JD65124-1MS*	10061-01-5	cis-1,3-Dichloropropene	MS	REC	104	%	70-130
JD65124-1MS*	10061-02-6	trans-1,3-Dichloropropene	MS	REC	81	%	70-130
JD65124-1MS*	100-41-4	Ethylbenzene	MS	REC	76	%	70-130
JD65124-1MS*	75-09-2	Methylene chloride	MS	REC	76	%	70-130
JD65124-1MS*	79-34-5	1,1,2,2-Tetrachloroethane	MS	REC	112	%	70-130
JD65124-1MS*	127-18-4	Tetrachloroethene	MS	REC	77	%	70-130
JD65124-1MS*	108-88-3	Toluene	MS	REC	-32 [c]	%	70-130
JD65124-1MS*	71-55-6	1,1,1-Trichloroethane	MS	REC	87	%	70-130
JD65124-1MS*	79-00-5	1,1,2-Trichloroethane	MS	REC	81	%	70-130
JD65124-1MS*	79-01-6	Trichloroethene	MS	REC	92	%	70-130
JD65124-1MS*	75-69-4	Trichlorofluoromethane	MS	REC	102	%	70-130
JD65124-1MS*	75-01-4	Vinyl chloride	MS	REC	74	%	70-130
JD65124-1MS*	1330-20-7	Xylenes (total)	MS	REC	84	%	70-130
JD65124-1MS*	17060-07-0	1,2-Dichloroethane-D4 (SUR)	MS	SURR	106	%	70-130
JD65124-1MS*	2037-26-5	Toluene-D8 (SUR)	MS	SURR	86	%	70-130
JD65124-1MS*	460-00-4	4-Bromofluorobenzene (SUR)	MS	SURR	92	%	70-130
JD65124-1MS*	1868-53-7	Dibromofluoromethane (S)	MS	SURR	95	%	70-130
JD65124-1MSD*	107-02-8	Acrolein	MSD	REC	170 [b]	%	70-130
JD65124-1MSD*	107-02-8	Acrolein	MSD	RPD	1	%	30
JD65124-1MSD*	107-13-1	Acrylonitrile	MSD	REC	124	%	70-130
JD65124-1MSD*	107-13-1	Acrylonitrile	MSD	RPD	8	%	30
JD65124-1MSD*	71-43-2	Benzene	MSD	REC	150	%	70-130
JD65124-1MSD*	71-43-2	Benzene	MSD	RPD	2	%	30
JD65124-1MSD*	75-27-4	Bromodichloromethane	MSD	REC	98	%	70-130

* Sample used for QC is not from job JD65186

QC Evaluation: Honeywell Limits

Job Number: JD65186
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 05/04/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD65124-1MSD*	75-27-4	Bromodichloromethane	MSD	RPD	0	%	30
JD65124-1MSD*	75-25-2	Bromoform	MSD	REC	100	%	70-130
JD65124-1MSD*	75-25-2	Bromoform	MSD	RPD	1	%	30
JD65124-1MSD*	74-83-9	Bromomethane	MSD	REC	80	%	70-130
JD65124-1MSD*	74-83-9	Bromomethane	MSD	RPD	2	%	30
JD65124-1MSD*	56-23-5	Carbon tetrachloride	MSD	REC	83	%	70-130
JD65124-1MSD*	56-23-5	Carbon tetrachloride	MSD	RPD	1	%	30
JD65124-1MSD*	108-90-7	Chlorobenzene	MSD	REC	1430 [c]	%	70-130
JD65124-1MSD*	108-90-7	Chlorobenzene	MSD	RPD	0	%	30
JD65124-1MSD*	75-00-3	Chloroethane	MSD	REC	79	%	70-130
JD65124-1MSD*	75-00-3	Chloroethane	MSD	RPD	5	%	30
JD65124-1MSD*	110-75-8	2-Chloroethyl vinyl ether	MSD	REC	6 [d]	%	70-130
JD65124-1MSD*	110-75-8	2-Chloroethyl vinyl ether	MSD	RPD	57	%	30
JD65124-1MSD*	67-66-3	Chloroform	MSD	REC	81	%	70-130
JD65124-1MSD*	67-66-3	Chloroform	MSD	RPD	2	%	30
JD65124-1MSD*	74-87-3	Chloromethane	MSD	REC	68	%	70-130
JD65124-1MSD*	74-87-3	Chloromethane	MSD	RPD	49	%	30
JD65124-1MSD*	124-48-1	Dibromochloromethane	MSD	REC	94	%	70-130
JD65124-1MSD*	124-48-1	Dibromochloromethane	MSD	RPD	4	%	30
JD65124-1MSD*	95-50-1	1,2-Dichlorobenzene	MSD	REC	100	%	70-130
JD65124-1MSD*	95-50-1	1,2-Dichlorobenzene	MSD	RPD	1	%	30
JD65124-1MSD*	541-73-1	1,3-Dichlorobenzene	MSD	REC	88	%	70-130
JD65124-1MSD*	541-73-1	1,3-Dichlorobenzene	MSD	RPD	2	%	30
JD65124-1MSD*	106-46-7	1,4-Dichlorobenzene	MSD	REC	59	%	70-130
JD65124-1MSD*	106-46-7	1,4-Dichlorobenzene	MSD	RPD	1	%	30
JD65124-1MSD*	75-71-8	Dichlorodifluoromethane	MSD	REC	69	%	70-130
JD65124-1MSD*	75-71-8	Dichlorodifluoromethane	MSD	RPD	14	%	30
JD65124-1MSD*	75-34-3	1,1-Dichloroethane	MSD	REC	80	%	70-130
JD65124-1MSD*	75-34-3	1,1-Dichloroethane	MSD	RPD	1	%	30
JD65124-1MSD*	107-06-2	1,2-Dichloroethane	MSD	REC	110	%	70-130
JD65124-1MSD*	107-06-2	1,2-Dichloroethane	MSD	RPD	3	%	30
JD65124-1MSD*	75-35-4	1,1-Dichloroethene	MSD	REC	80	%	70-130
JD65124-1MSD*	75-35-4	1,1-Dichloroethene	MSD	RPD	4	%	30
JD65124-1MSD*	156-59-2	cis-1,2-Dichloroethene	MSD	REC	88	%	70-130
JD65124-1MSD*	156-59-2	cis-1,2-Dichloroethene	MSD	RPD	2	%	30
JD65124-1MSD*	156-60-5	trans-1,2-Dichloroethene	MSD	REC	87	%	70-130
JD65124-1MSD*	156-60-5	trans-1,2-Dichloroethene	MSD	RPD	1	%	30
JD65124-1MSD*	78-87-5	1,2-Dichloropropane	MSD	REC	86	%	70-130
JD65124-1MSD*	78-87-5	1,2-Dichloropropane	MSD	RPD	3	%	30
JD65124-1MSD*	10061-01-5	cis-1,3-Dichloropropene	MSD	REC	102	%	70-130
JD65124-1MSD*	10061-01-5	cis-1,3-Dichloropropene	MSD	RPD	2	%	30
JD65124-1MSD*	10061-02-6	trans-1,3-Dichloropropene	MSD	REC	85	%	70-130
JD65124-1MSD*	10061-02-6	trans-1,3-Dichloropropene	MSD	RPD	5	%	30
JD65124-1MSD*	100-41-4	Ethylbenzene	MSD	REC	76	%	70-130
JD65124-1MSD*	100-41-4	Ethylbenzene	MSD	RPD	0	%	30

* Sample used for QC is not from job JD65186

QC Evaluation: Honeywell Limits

Job Number: JD65186
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 05/04/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD65124-1MSD*	75-09-2	Methylene chloride	MSD	REC	76	%	70-130
JD65124-1MSD*	75-09-2	Methylene chloride	MSD	RPD	0	%	30
JD65124-1MSD*	79-34-5	1,1,2,2-Tetrachloroethane	MSD	REC	113	%	70-130
JD65124-1MSD*	79-34-5	1,1,2,2-Tetrachloroethane	MSD	RPD	1	%	30
JD65124-1MSD*	127-18-4	Tetrachloroethene	MSD	REC	78	%	70-130
JD65124-1MSD*	127-18-4	Tetrachloroethene	MSD	RPD	1	%	30
JD65124-1MSD*	108-88-3	Toluene	MSD	REC	-47 [c]	%	70-130
JD65124-1MSD*	108-88-3	Toluene	MSD	RPD	2	%	30
JD65124-1MSD*	71-55-6	1,1,1-Trichloroethane	MSD	REC	87	%	70-130
JD65124-1MSD*	71-55-6	1,1,1-Trichloroethane	MSD	RPD	1	%	30
JD65124-1MSD*	79-00-5	1,1,2-Trichloroethane	MSD	REC	84	%	70-130
JD65124-1MSD*	79-00-5	1,1,2-Trichloroethane	MSD	RPD	3	%	30
JD65124-1MSD*	79-01-6	Trichloroethene	MSD	REC	92	%	70-130
JD65124-1MSD*	79-01-6	Trichloroethene	MSD	RPD	0	%	30
JD65124-1MSD*	75-69-4	Trichlorofluoromethane	MSD	REC	104	%	70-130
JD65124-1MSD*	75-69-4	Trichlorofluoromethane	MSD	RPD	2	%	30
JD65124-1MSD*	75-01-4	Vinyl chloride	MSD	REC	80	%	70-130
JD65124-1MSD*	75-01-4	Vinyl chloride	MSD	RPD	8	%	30
JD65124-1MSD*	1330-20-7	Xylenes (total)	MSD	REC	85	%	70-130
JD65124-1MSD*	1330-20-7	Xylenes (total)	MSD	RPD	1	%	30
JD65124-1MSD*	17060-07-0	1,2-Dichloroethane-D4 (SUR)	MSD	SURR	108	%	70-130
JD65124-1MSD*	2037-26-5	Toluene-D8 (SUR)	MSD	SURR	83	%	70-130
JD65124-1MSD*	460-00-4	4-Bromofluorobenzene (SUR)	MSD	SURR	93	%	70-130
JD65124-1MSD*	1868-53-7	Dibromofluoromethane (S)	MSD	SURR	97	%	70-130
V2D9183-MB	17060-07-0	1,2-Dichloroethane-D4 (SUR)	MB	SURR	97	%	70-130
V2D9183-MB	2037-26-5	Toluene-D8 (SUR)	MB	SURR	100	%	70-130
V2D9183-MB	460-00-4	4-Bromofluorobenzene (SUR)	MB	SURR	90	%	70-130
V2D9183-MB	1868-53-7	Dibromofluoromethane (S)	MB	SURR	96	%	70-130
JD65186-5	17060-07-0	1,2-Dichloroethane-D4 (SUR)	SAMP	SURR	104	%	70-130
JD65186-5	2037-26-5	Toluene-D8 (SUR)	SAMP	SURR	103	%	70-130
JD65186-5	460-00-4	4-Bromofluorobenzene (SUR)	SAMP	SURR	92	%	70-130
JD65186-5	1868-53-7	Dibromofluoromethane (S)	SAMP	SURR	94	%	70-130
V2D9186	EPA 624.1						
V2D9186-BS	107-02-8	Acrolein	BSP	REC	150 [a]	%	70-130
V2D9186-BS	107-13-1	Acrylonitrile	BSP	REC	153 [a]	%	70-130
V2D9186-BS	71-43-2	Benzene	BSP	REC	93	%	70-130
V2D9186-BS	75-27-4	Bromodichloromethane	BSP	REC	111	%	70-130
V2D9186-BS	75-25-2	Bromoform	BSP	REC	133 [a]	%	70-130
V2D9186-BS	74-83-9	Bromomethane	BSP	REC	87	%	70-130
V2D9186-BS	56-23-5	Carbon tetrachloride	BSP	REC	95	%	70-130
V2D9186-BS	108-90-7	Chlorobenzene	BSP	REC	102	%	70-130
V2D9186-BS	75-00-3	Chloroethane	BSP	REC	94	%	70-130
V2D9186-BS	110-75-8	2-Chloroethyl vinyl ether	BSP	REC	92	%	70-130

* Sample used for QC is not from job JD65186

QC Evaluation: Honeywell Limits

Job Number: JD65186
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 05/04/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V2D9186-BS	67-66-3	Chloroform	BSP	REC	91	%	70-130
V2D9186-BS	74-87-3	Chloromethane	BSP	REC	73	%	70-130
V2D9186-BS	124-48-1	Dibromochloromethane	BSP	REC	126	%	70-130
V2D9186-BS	95-50-1	1,2-Dichlorobenzene	BSP	REC	101	%	70-130
V2D9186-BS	541-73-1	1,3-Dichlorobenzene	BSP	REC	100	%	70-130
V2D9186-BS	106-46-7	1,4-Dichlorobenzene	BSP	REC	104	%	70-130
V2D9186-BS	75-71-8	Dichlorodifluoromethane	BSP	REC	97	%	70-130
V2D9186-BS	75-34-3	1,1-Dichloroethane	BSP	REC	85	%	70-130
V2D9186-BS	107-06-2	1,2-Dichloroethane	BSP	REC	100	%	70-130
V2D9186-BS	75-35-4	1,1-Dichloroethene	BSP	REC	83	%	70-130
V2D9186-BS	156-59-2	cis-1,2-Dichloroethene	BSP	REC	94	%	70-130
V2D9186-BS	156-60-5	trans-1,2-Dichloroethene	BSP	REC	84	%	70-130
V2D9186-BS	78-87-5	1,2-Dichloropropane	BSP	REC	100	%	70-130
V2D9186-BS	10061-01-5	cis-1,3-Dichloropropene	BSP	REC	103	%	70-130
V2D9186-BS	10061-02-6	trans-1,3-Dichloropropene	BSP	REC	109	%	70-130
V2D9186-BS	100-41-4	Ethylbenzene	BSP	REC	104	%	70-130
V2D9186-BS	75-09-2	Methylene chloride	BSP	REC	78	%	70-130
V2D9186-BS	79-34-5	1,1,2,2-Tetrachloroethane	BSP	REC	129	%	70-130
V2D9186-BS	127-18-4	Tetrachloroethene	BSP	REC	96	%	70-130
V2D9186-BS	108-88-3	Toluene	BSP	REC	94	%	70-130
V2D9186-BS	71-55-6	1,1,1-Trichloroethane	BSP	REC	98	%	70-130
V2D9186-BS	79-00-5	1,1,2-Trichloroethane	BSP	REC	108	%	70-130
V2D9186-BS	79-01-6	Trichloroethene	BSP	REC	96	%	70-130
V2D9186-BS	75-69-4	Trichlorofluoromethane	BSP	REC	102	%	70-130
V2D9186-BS	75-01-4	Vinyl chloride	BSP	REC	79	%	70-130
V2D9186-BS	1330-20-7	Xylenes (total)	BSP	REC	103	%	70-130
V2D9186-BS	17060-07-0	1,2-Dichloroethane-D4 (SUR)	BSP	SURR	109	%	70-130
V2D9186-BS	2037-26-5	Toluene-D8 (SUR)	BSP	SURR	94	%	70-130
V2D9186-BS	460-00-4	4-Bromofluorobenzene (SUR)	BSP	SURR	97	%	70-130
V2D9186-BS	1868-53-7	Dibromofluoromethane (S)	BSP	SURR	102	%	70-130
V2D9186-BSD	107-02-8	Acrolein	BSD	REC	158 [a]	%	70-130
V2D9186-BSD	107-02-8	Acrolein	BSD	RPD	5	%	30
V2D9186-BSD	107-13-1	Acrylonitrile	BSD	REC	146 [a]	%	70-130
V2D9186-BSD	107-13-1	Acrylonitrile	BSD	RPD	5	%	30
V2D9186-BSD	71-43-2	Benzene	BSD	REC	92	%	70-130
V2D9186-BSD	71-43-2	Benzene	BSD	RPD	1	%	30
V2D9186-BSD	75-27-4	Bromodichloromethane	BSD	REC	113	%	70-130
V2D9186-BSD	75-27-4	Bromodichloromethane	BSD	RPD	2	%	30
V2D9186-BSD	75-25-2	Bromoform	BSD	REC	134 [a]	%	70-130
V2D9186-BSD	75-25-2	Bromoform	BSD	RPD	1	%	30
V2D9186-BSD	74-83-9	Bromomethane	BSD	REC	89	%	70-130
V2D9186-BSD	74-83-9	Bromomethane	BSD	RPD	3	%	30
V2D9186-BSD	56-23-5	Carbon tetrachloride	BSD	REC	94	%	70-130
V2D9186-BSD	56-23-5	Carbon tetrachloride	BSD	RPD	1	%	30
V2D9186-BSD	108-90-7	Chlorobenzene	BSD	REC	103	%	70-130

* Sample used for QC is not from job JD65186

QC Evaluation: Honeywell Limits

Job Number: JD65186
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 05/04/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V2D9186-BSD	108-90-7	Chlorobenzene	BSD	RPD	1	%	30
V2D9186-BSD	75-00-3	Chloroethane	BSD	REC	98	%	70-130
V2D9186-BSD	75-00-3	Chloroethane	BSD	RPD	5	%	30
V2D9186-BSD	110-75-8	2-Chloroethyl vinyl ether	BSD	REC	93	%	70-130
V2D9186-BSD	110-75-8	2-Chloroethyl vinyl ether	BSD	RPD	1	%	30
V2D9186-BSD	67-66-3	Chloroform	BSD	REC	91	%	70-130
V2D9186-BSD	67-66-3	Chloroform	BSD	RPD	1	%	30
V2D9186-BSD	74-87-3	Chloromethane	BSD	REC	80	%	70-130
V2D9186-BSD	74-87-3	Chloromethane	BSD	RPD	9	%	30
V2D9186-BSD	124-48-1	Dibromochloromethane	BSD	REC	128	%	70-130
V2D9186-BSD	124-48-1	Dibromochloromethane	BSD	RPD	2	%	30
V2D9186-BSD	95-50-1	1,2-Dichlorobenzene	BSD	REC	101	%	70-130
V2D9186-BSD	95-50-1	1,2-Dichlorobenzene	BSD	RPD	0	%	30
V2D9186-BSD	541-73-1	1,3-Dichlorobenzene	BSD	REC	98	%	70-130
V2D9186-BSD	541-73-1	1,3-Dichlorobenzene	BSD	RPD	3	%	30
V2D9186-BSD	106-46-7	1,4-Dichlorobenzene	BSD	REC	101	%	70-130
V2D9186-BSD	106-46-7	1,4-Dichlorobenzene	BSD	RPD	3	%	30
V2D9186-BSD	75-71-8	Dichlorodifluoromethane	BSD	REC	106	%	70-130
V2D9186-BSD	75-71-8	Dichlorodifluoromethane	BSD	RPD	9	%	30
V2D9186-BSD	75-34-3	1,1-Dichloroethane	BSD	REC	87	%	70-130
V2D9186-BSD	75-34-3	1,1-Dichloroethane	BSD	RPD	2	%	30
V2D9186-BSD	107-06-2	1,2-Dichloroethane	BSD	REC	102	%	70-130
V2D9186-BSD	107-06-2	1,2-Dichloroethane	BSD	RPD	2	%	30
V2D9186-BSD	75-35-4	1,1-Dichloroethene	BSD	REC	89	%	70-130
V2D9186-BSD	75-35-4	1,1-Dichloroethene	BSD	RPD	8	%	30
V2D9186-BSD	156-59-2	cis-1,2-Dichloroethene	BSD	REC	92	%	70-130
V2D9186-BSD	156-59-2	cis-1,2-Dichloroethene	BSD	RPD	2	%	30
V2D9186-BSD	156-60-5	trans-1,2-Dichloroethene	BSD	REC	86	%	70-130
V2D9186-BSD	156-60-5	trans-1,2-Dichloroethene	BSD	RPD	2	%	30
V2D9186-BSD	78-87-5	1,2-Dichloropropane	BSD	REC	97	%	70-130
V2D9186-BSD	78-87-5	1,2-Dichloropropane	BSD	RPD	3	%	30
V2D9186-BSD	10061-01-5	cis-1,3-Dichloropropene	BSD	REC	100	%	70-130
V2D9186-BSD	10061-01-5	cis-1,3-Dichloropropene	BSD	RPD	2	%	30
V2D9186-BSD	10061-02-6	trans-1,3-Dichloropropene	BSD	REC	112	%	70-130
V2D9186-BSD	10061-02-6	trans-1,3-Dichloropropene	BSD	RPD	2	%	30
V2D9186-BSD	100-41-4	Ethylbenzene	BSD	REC	102	%	70-130
V2D9186-BSD	100-41-4	Ethylbenzene	BSD	RPD	2	%	30
V2D9186-BSD	75-09-2	Methylene chloride	BSD	REC	79	%	70-130
V2D9186-BSD	75-09-2	Methylene chloride	BSD	RPD	1	%	30
V2D9186-BSD	79-34-5	1,1,2,2-Tetrachloroethane	BSD	REC	126	%	70-130
V2D9186-BSD	79-34-5	1,1,2,2-Tetrachloroethane	BSD	RPD	2	%	30
V2D9186-BSD	127-18-4	Tetrachloroethene	BSD	REC	105	%	70-130
V2D9186-BSD	127-18-4	Tetrachloroethene	BSD	RPD	8	%	30
V2D9186-BSD	108-88-3	Toluene	BSD	REC	96	%	70-130
V2D9186-BSD	108-88-3	Toluene	BSD	RPD	2	%	30

* Sample used for QC is not from job JD65186

QC Evaluation: Honeywell Limits

Job Number: JD65186
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 05/04/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V2D9186-BSD	71-55-6	1,1,1-Trichloroethane	BSD	REC	95	%	70-130
V2D9186-BSD	71-55-6	1,1,1-Trichloroethane	BSD	RPD	3	%	30
V2D9186-BSD	79-00-5	1,1,2-Trichloroethane	BSD	REC	106	%	70-130
V2D9186-BSD	79-00-5	1,1,2-Trichloroethane	BSD	RPD	2	%	30
V2D9186-BSD	79-01-6	Trichloroethene	BSD	REC	98	%	70-130
V2D9186-BSD	79-01-6	Trichloroethene	BSD	RPD	2	%	30
V2D9186-BSD	75-69-4	Trichlorofluoromethane	BSD	REC	97	%	70-130
V2D9186-BSD	75-69-4	Trichlorofluoromethane	BSD	RPD	5	%	30
V2D9186-BSD	75-01-4	Vinyl chloride	BSD	REC	89	%	70-130
V2D9186-BSD	75-01-4	Vinyl chloride	BSD	RPD	11	%	30
V2D9186-BSD	1330-20-7	Xylenes (total)	BSD	REC	102	%	70-130
V2D9186-BSD	1330-20-7	Xylenes (total)	BSD	RPD	1	%	30
V2D9186-BSD	17060-07-0	1,2-Dichloroethane-D4 (SUR)	BSD	SURR	108	%	70-130
V2D9186-BSD	2037-26-5	Toluene-D8 (SUR)	BSD	SURR	95	%	70-130
V2D9186-BSD	460-00-4	4-Bromofluorobenzene (SUR)	BSD	SURR	97	%	70-130
V2D9186-BSD	1868-53-7	Dibromofluoromethane (S)	BSD	SURR	103	%	70-130
JD65261-2MS*	107-02-8	Acrolein	MS	REC	160	%	70-130
JD65261-2MS*	107-13-1	Acrylonitrile	MS	REC	147	%	70-130
JD65261-2MS*	71-43-2	Benzene	MS	REC	100	%	70-130
JD65261-2MS*	75-27-4	Bromodichloromethane	MS	REC	101	%	70-130
JD65261-2MS*	75-25-2	Bromoform	MS	REC	133	%	70-130
JD65261-2MS*	74-83-9	Bromomethane	MS	REC	70	%	70-130
JD65261-2MS*	56-23-5	Carbon tetrachloride	MS	REC	104	%	70-130
JD65261-2MS*	108-90-7	Chlorobenzene	MS	REC	107	%	70-130
JD65261-2MS*	75-00-3	Chloroethane	MS	REC	81	%	70-130
JD65261-2MS*	110-75-8	2-Chloroethyl vinyl ether	MS	REC	0	%	70-130
JD65261-2MS*	67-66-3	Chloroform	MS	REC	95	%	70-130
JD65261-2MS*	74-87-3	Chloromethane	MS	REC	35	%	70-130
JD65261-2MS*	124-48-1	Dibromochloromethane	MS	REC	131	%	70-130
JD65261-2MS*	95-50-1	1,2-Dichlorobenzene	MS	REC	108	%	70-130
JD65261-2MS*	541-73-1	1,3-Dichlorobenzene	MS	REC	105	%	70-130
JD65261-2MS*	106-46-7	1,4-Dichlorobenzene	MS	REC	114	%	70-130
JD65261-2MS*	75-71-8	Dichlorodifluoromethane	MS	REC	73	%	70-130
JD65261-2MS*	75-34-3	1,1-Dichloroethane	MS	REC	90	%	70-130
JD65261-2MS*	107-06-2	1,2-Dichloroethane	MS	REC	108	%	70-130
JD65261-2MS*	75-35-4	1,1-Dichloroethene	MS	REC	90	%	70-130
JD65261-2MS*	156-59-2	cis-1,2-Dichloroethene	MS	REC	96	%	70-130
JD65261-2MS*	156-60-5	trans-1,2-Dichloroethene	MS	REC	96	%	70-130
JD65261-2MS*	78-87-5	1,2-Dichloropropane	MS	REC	93	%	70-130
JD65261-2MS*	10061-01-5	cis-1,3-Dichloropropene	MS	REC	106	%	70-130
JD65261-2MS*	10061-02-6	trans-1,3-Dichloropropene	MS	REC	110	%	70-130
JD65261-2MS*	100-41-4	Ethylbenzene	MS	REC	110	%	70-130
JD65261-2MS*	75-09-2	Methylene chloride	MS	REC	82	%	70-130
JD65261-2MS*	79-34-5	1,1,2,2-Tetrachloroethane	MS	REC	134	%	70-130
JD65261-2MS*	127-18-4	Tetrachloroethene	MS	REC	112	%	70-130

* Sample used for QC is not from job JD65186

QC Evaluation: Honeywell Limits

Job Number: JD65186
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 05/04/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD65261-2MS*	108-88-3	Toluene	MS	REC	104	%	70-130
JD65261-2MS*	71-55-6	1,1,1-Trichloroethane	MS	REC	109	%	70-130
JD65261-2MS*	79-00-5	1,1,2-Trichloroethane	MS	REC	114	%	70-130
JD65261-2MS*	79-01-6	Trichloroethene	MS	REC	102	%	70-130
JD65261-2MS*	75-69-4	Trichlorofluoromethane	MS	REC	104	%	70-130
JD65261-2MS*	75-01-4	Vinyl chloride	MS	REC	74	%	70-130
JD65261-2MS*	1330-20-7	Xylenes (total)	MS	REC	107	%	70-130
JD65261-2MS*	17060-07-0	1,2-Dichloroethane-D4 (SUR)	MS	SURR	110	%	70-130
JD65261-2MS*	2037-26-5	Toluene-D8 (SUR)	MS	SURR	98	%	70-130
JD65261-2MS*	460-00-4	4-Bromofluorobenzene (SUR)	MS	SURR	92	%	70-130
JD65261-2MS*	1868-53-7	Dibromofluoromethane (S)	MS	SURR	102	%	70-130
V2D9186-MB	17060-07-0	1,2-Dichloroethane-D4 (SUR)	MB	SURR	113	%	70-130
V2D9186-MB	2037-26-5	Toluene-D8 (SUR)	MB	SURR	101	%	70-130
V2D9186-MB	460-00-4	4-Bromofluorobenzene (SUR)	MB	SURR	96	%	70-130
V2D9186-MB	1868-53-7	Dibromofluoromethane (S)	MB	SURR	99	%	70-130
JD65186-6	17060-07-0	1,2-Dichloroethane-D4 (SUR)	SAMP	SURR	114	%	70-130
JD65186-6	2037-26-5	Toluene-D8 (SUR)	SAMP	SURR	102	%	70-130
JD65186-6	460-00-4	4-Bromofluorobenzene (SUR)	SAMP	SURR	89	%	70-130
JD65186-6	1868-53-7	Dibromofluoromethane (S)	SAMP	SURR	102	%	70-130
OP46488B	EPA 625.1						
OP46488B-BS1	95-57-8	2-Chlorophenol	BSP	REC	68	%	30-130
OP46488B-BS1	59-50-7	4-Chloro-3-methyl phenol	BSP	REC	83	%	30-130
OP46488B-BS1	120-83-2	2,4-Dichlorophenol	BSP	REC	79	%	30-130
OP46488B-BS1	105-67-9	2,4-Dimethylphenol	BSP	REC	72	%	30-130
OP46488B-BS1	51-28-5	2,4-Dinitrophenol	BSP	REC	126	%	30-130
OP46488B-BS1	534-52-1	4,6-Dinitro-o-cresol	BSP	REC	117	%	30-130
OP46488B-BS1	88-75-5	2-Nitrophenol	BSP	REC	100	%	30-130
OP46488B-BS1	100-02-7	4-Nitrophenol	BSP	REC	40	%	30-130
OP46488B-BS1	87-86-5	Pentachlorophenol	BSP	REC	78	%	30-130
OP46488B-BS1	108-95-2	Phenol	BSP	REC	33	%	30-130
OP46488B-BS1	88-06-2	2,4,6-Trichlorophenol	BSP	REC	82	%	30-130
OP46488B-BS1	83-32-9	Acenaphthene	BSP	REC	77	%	40-140
OP46488B-BS1	208-96-8	Acenaphthylene	BSP	REC	78	%	40-140
OP46488B-BS1	120-12-7	Anthracene	BSP	REC	84	%	40-140
OP46488B-BS1	92-87-5	Benzidine	BSP	REC	7 [e]	%	40-140
OP46488B-BS1	56-55-3	Benzo(a)anthracene	BSP	REC	92	%	40-140
OP46488B-BS1	50-32-8	Benzo(a)pyrene	BSP	REC	92	%	40-140
OP46488B-BS1	205-99-2	Benzo(b)fluoranthene	BSP	REC	92	%	40-140
OP46488B-BS1	191-24-2	Benzo(g,h,i)perylene	BSP	REC	91	%	40-140
OP46488B-BS1	207-08-9	Benzo(k)fluoranthene	BSP	REC	84	%	40-140
OP46488B-BS1	101-55-3	4-Bromophenyl phenyl ether	BSP	REC	89	%	40-140
OP46488B-BS1	85-68-7	Butyl benzyl phthalate	BSP	REC	91	%	40-140
OP46488B-BS1	91-58-7	2-Chloronaphthalene	BSP	REC	77	%	40-140

* Sample used for QC is not from job JD65186

QC Evaluation: Honeywell Limits

Job Number: JD65186
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 05/04/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP46488B-BS1	106-47-8	4-Chloroaniline	BSP	REC	48	%	40-140
OP46488B-BS1	218-01-9	Chrysene	BSP	REC	84	%	40-140
OP46488B-BS1	111-91-1	bis(2-Chloroethoxy)methane	BSP	REC	83	%	40-140
OP46488B-BS1	111-44-4	bis(2-Chloroethyl)ether	BSP	REC	79	%	40-140
OP46488B-BS1	108-60-1	2,2'-Oxybis(1-chloropropane)	BSP	REC	89	%	40-140
OP46488B-BS1	7005-72-3	4-Chlorophenyl phenyl ether	BSP	REC	88	%	40-140
OP46488B-BS1	95-50-1	1,2-Dichlorobenzene	BSP	REC	64	%	40-140
OP46488B-BS1	122-66-7	1,2-Diphenylhydrazine	BSP	REC	73	%	40-140
OP46488B-BS1	541-73-1	1,3-Dichlorobenzene	BSP	REC	62	%	40-140
OP46488B-BS1	106-46-7	1,4-Dichlorobenzene	BSP	REC	61	%	40-140
OP46488B-BS1	121-14-2	2,4-Dinitrotoluene	BSP	REC	105	%	40-140
OP46488B-BS1	606-20-2	2,6-Dinitrotoluene	BSP	REC	103	%	40-140
OP46488B-BS1	91-94-1	3,3'-Dichlorobenzidine	BSP	REC	81	%	40-140
OP46488B-BS1	53-70-3	Dibenzo(a,h)anthracene	BSP	REC	102	%	40-140
OP46488B-BS1	84-74-2	Di-n-butyl phthalate	BSP	REC	89	%	40-140
OP46488B-BS1	117-84-0	Di-n-octyl phthalate	BSP	REC	82	%	40-140
OP46488B-BS1	84-66-2	Diethyl phthalate	BSP	REC	88	%	40-140
OP46488B-BS1	131-11-3	Dimethyl phthalate	BSP	REC	84	%	40-140
OP46488B-BS1	117-81-7	bis(2-Ethylhexyl)phthalate	BSP	REC	92	%	40-140
OP46488B-BS1	206-44-0	Fluoranthene	BSP	REC	92	%	40-140
OP46488B-BS1	86-73-7	Fluorene	BSP	REC	85	%	40-140
OP46488B-BS1	118-74-1	Hexachlorobenzene	BSP	REC	83	%	40-140
OP46488B-BS1	87-68-3	Hexachlorobutadiene	BSP	REC	69	%	40-140
OP46488B-BS1	77-47-4	Hexachlorocyclopentadiene	BSP	REC	36	%	40-140
OP46488B-BS1	67-72-1	Hexachloroethane	BSP	REC	61	%	40-140
OP46488B-BS1	193-39-5	Indeno(1,2,3-cd)pyrene	BSP	REC	92	%	40-140
OP46488B-BS1	78-59-1	Isophorone	BSP	REC	85	%	40-140
OP46488B-BS1	91-20-3	Naphthalene	BSP	REC	75	%	40-140
OP46488B-BS1	98-95-3	Nitrobenzene	BSP	REC	85	%	40-140
OP46488B-BS1	62-75-9	n-Nitrosodimethylamine	BSP	REC	34	%	40-140
OP46488B-BS1	621-64-7	N-Nitroso-di-n-propylamine	BSP	REC	83	%	40-140
OP46488B-BS1	86-30-6	N-Nitrosodiphenylamine	BSP	REC	83	%	40-140
OP46488B-BS1	85-01-8	Phenanthrene	BSP	REC	80	%	40-140
OP46488B-BS1	129-00-0	Pyrene	BSP	REC	79	%	40-140
OP46488B-BS1	120-82-1	1,2,4-Trichlorobenzene	BSP	REC	69	%	40-140
OP46488B-BS1	367-12-4	2-Fluorophenol	BSP	SURR	42	%	15-110
OP46488B-BS1	4165-62-2	Phenol-d5	BSP	SURR	33	%	15-110
OP46488B-BS1	118-79-6	2,4,6-Tribromophenol	BSP	SURR	92	%	15-110
OP46488B-BS1	4165-60-0	Nitrobenzene-d5	BSP	SURR	91	%	30-130
OP46488B-BS1	321-60-8	2-Fluorobiphenyl	BSP	SURR	81	%	30-130
OP46488B-BS1	1718-51-0	Terphenyl-d14	BSP	SURR	65	%	30-130
OP46488B-BSD	95-57-8	2-Chlorophenol	BSD	REC	59	%	30-130
OP46488B-BSD	95-57-8	2-Chlorophenol	BSD	RPD	14	%	20
OP46488B-BSD	59-50-7	4-Chloro-3-methyl phenol	BSD	REC	77	%	30-130
OP46488B-BSD	59-50-7	4-Chloro-3-methyl phenol	BSD	RPD	8	%	20

* Sample used for QC is not from job JD65186

QC Evaluation: Honeywell Limits

Job Number: JD65186
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 05/04/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP46488B-BSD	120-83-2	2,4-Dichlorophenol	BSD	REC	72	%	30-130
OP46488B-BSD	120-83-2	2,4-Dichlorophenol	BSD	RPD	9	%	20
OP46488B-BSD	105-67-9	2,4-Dimethylphenol	BSD	REC	64	%	30-130
OP46488B-BSD	105-67-9	2,4-Dimethylphenol	BSD	RPD	12	%	20
OP46488B-BSD	51-28-5	2,4-Dinitrophenol	BSD	REC	120	%	30-130
OP46488B-BSD	51-28-5	2,4-Dinitrophenol	BSD	RPD	5	%	20
OP46488B-BSD	534-52-1	4,6-Dinitro-o-cresol	BSD	REC	111	%	30-130
OP46488B-BSD	534-52-1	4,6-Dinitro-o-cresol	BSD	RPD	6	%	20
OP46488B-BSD	88-75-5	2-Nitrophenol	BSD	REC	87	%	30-130
OP46488B-BSD	88-75-5	2-Nitrophenol	BSD	RPD	14	%	20
OP46488B-BSD	100-02-7	4-Nitrophenol	BSD	REC	41	%	30-130
OP46488B-BSD	100-02-7	4-Nitrophenol	BSD	RPD	3	%	20
OP46488B-BSD	87-86-5	Pentachlorophenol	BSD	REC	73	%	30-130
OP46488B-BSD	87-86-5	Pentachlorophenol	BSD	RPD	6	%	20
OP46488B-BSD	108-95-2	Phenol	BSD	REC	36	%	30-130
OP46488B-BSD	108-95-2	Phenol	BSD	RPD	7	%	20
OP46488B-BSD	88-06-2	2,4,6-Trichlorophenol	BSD	REC	75	%	30-130
OP46488B-BSD	88-06-2	2,4,6-Trichlorophenol	BSD	RPD	8	%	20
OP46488B-BSD	83-32-9	Acenaphthene	BSD	REC	67	%	40-140
OP46488B-BSD	83-32-9	Acenaphthene	BSD	RPD	14	%	20
OP46488B-BSD	208-96-8	Acenaphthylene	BSD	REC	67	%	40-140
OP46488B-BSD	208-96-8	Acenaphthylene	BSD	RPD	15	%	20
OP46488B-BSD	120-12-7	Anthracene	BSD	REC	75	%	40-140
OP46488B-BSD	120-12-7	Anthracene	BSD	RPD	12	%	20
OP46488B-BSD	92-87-5	Benzidine	BSD	REC	0 [e]	%	40-140
OP46488B-BSD	92-87-5	Benzidine	BSD	RPD	200 [f]	%	20
OP46488B-BSD	56-55-3	Benzo(a)anthracene	BSD	REC	83	%	40-140
OP46488B-BSD	56-55-3	Benzo(a)anthracene	BSD	RPD	10	%	20
OP46488B-BSD	50-32-8	Benzo(a)pyrene	BSD	REC	87	%	40-140
OP46488B-BSD	50-32-8	Benzo(a)pyrene	BSD	RPD	6	%	20
OP46488B-BSD	205-99-2	Benzo(b)fluoranthene	BSD	REC	81	%	40-140
OP46488B-BSD	205-99-2	Benzo(b)fluoranthene	BSD	RPD	12	%	20
OP46488B-BSD	191-24-2	Benzo(g,h,i)perylene	BSD	REC	84	%	40-140
OP46488B-BSD	191-24-2	Benzo(g,h,i)perylene	BSD	RPD	8	%	20
OP46488B-BSD	207-08-9	Benzo(k)fluoranthene	BSD	REC	77	%	40-140
OP46488B-BSD	207-08-9	Benzo(k)fluoranthene	BSD	RPD	9	%	20
OP46488B-BSD	101-55-3	4-Bromophenyl phenyl ether	BSD	REC	80	%	40-140
OP46488B-BSD	101-55-3	4-Bromophenyl phenyl ether	BSD	RPD	11	%	20
OP46488B-BSD	85-68-7	Butyl benzyl phthalate	BSD	REC	80	%	40-140
OP46488B-BSD	85-68-7	Butyl benzyl phthalate	BSD	RPD	13	%	20
OP46488B-BSD	91-58-7	2-Chloronaphthalene	BSD	REC	63	%	40-140
OP46488B-BSD	91-58-7	2-Chloronaphthalene	BSD	RPD	19	%	20
OP46488B-BSD	106-47-8	4-Chloroaniline	BSD	REC	48	%	40-140
OP46488B-BSD	106-47-8	4-Chloroaniline	BSD	RPD	0	%	20
OP46488B-BSD	218-01-9	Chrysene	BSD	REC	76	%	40-140

* Sample used for QC is not from job JD65186

QC Evaluation: Honeywell Limits

Job Number: JD65186
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 05/04/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP46488B-BSD	218-01-9	Chrysene	BSD	RPD	9	%	20
OP46488B-BSD	111-91-1	bis(2-Chloroethoxy)methane	BSD	REC	69	%	40-140
OP46488B-BSD	111-91-1	bis(2-Chloroethoxy)methane	BSD	RPD	19	%	20
OP46488B-BSD	111-44-4	bis(2-Chloroethyl)ether	BSD	REC	63	%	40-140
OP46488B-BSD	111-44-4	bis(2-Chloroethyl)ether	BSD	RPD	22 f	%	20
OP46488B-BSD	108-60-1	2,2'-Oxybis(1-chloropropane)	BSD	REC	73	%	40-140
OP46488B-BSD	108-60-1	2,2'-Oxybis(1-chloropropane)	BSD	RPD	19	%	20
OP46488B-BSD	7005-72-3	4-Chlorophenyl phenyl ether	BSD	REC	78	%	40-140
OP46488B-BSD	7005-72-3	4-Chlorophenyl phenyl ether	BSD	RPD	12	%	20
OP46488B-BSD	95-50-1	1,2-Dichlorobenzene	BSD	REC	45	%	40-140
OP46488B-BSD	95-50-1	1,2-Dichlorobenzene	BSD	RPD	33 f	%	20
OP46488B-BSD	122-66-7	1,2-Diphenylhydrazine	BSD	REC	66	%	40-140
OP46488B-BSD	122-66-7	1,2-Diphenylhydrazine	BSD	RPD	10	%	20
OP46488B-BSD	541-73-1	1,3-Dichlorobenzene	BSD	REC	43	%	40-140
OP46488B-BSD	541-73-1	1,3-Dichlorobenzene	BSD	RPD	37 f	%	20
OP46488B-BSD	106-46-7	1,4-Dichlorobenzene	BSD	REC	42	%	40-140
OP46488B-BSD	106-46-7	1,4-Dichlorobenzene	BSD	RPD	38 f	%	20
OP46488B-BSD	121-14-2	2,4-Dinitrotoluene	BSD	REC	95	%	40-140
OP46488B-BSD	121-14-2	2,4-Dinitrotoluene	BSD	RPD	10	%	20
OP46488B-BSD	606-20-2	2,6-Dinitrotoluene	BSD	REC	93	%	40-140
OP46488B-BSD	606-20-2	2,6-Dinitrotoluene	BSD	RPD	10	%	20
OP46488B-BSD	91-94-1	3,3'-Dichlorobenzidine	BSD	REC	76	%	40-140
OP46488B-BSD	91-94-1	3,3'-Dichlorobenzidine	BSD	RPD	7	%	20
OP46488B-BSD	53-70-3	Dibenzo(a,h)anthracene	BSD	REC	93	%	40-140
OP46488B-BSD	53-70-3	Dibenzo(a,h)anthracene	BSD	RPD	9	%	20
OP46488B-BSD	84-74-2	Di-n-butyl phthalate	BSD	REC	79	%	40-140
OP46488B-BSD	84-74-2	Di-n-butyl phthalate	BSD	RPD	11	%	20
OP46488B-BSD	117-84-0	Di-n-octyl phthalate	BSD	REC	73	%	40-140
OP46488B-BSD	117-84-0	Di-n-octyl phthalate	BSD	RPD	11	%	20
OP46488B-BSD	84-66-2	Diethyl phthalate	BSD	REC	79	%	40-140
OP46488B-BSD	84-66-2	Diethyl phthalate	BSD	RPD	11	%	20
OP46488B-BSD	131-11-3	Dimethyl phthalate	BSD	REC	77	%	40-140
OP46488B-BSD	131-11-3	Dimethyl phthalate	BSD	RPD	9	%	20
OP46488B-BSD	117-81-7	bis(2-Ethylhexyl)phthalate	BSD	REC	81	%	40-140
OP46488B-BSD	117-81-7	bis(2-Ethylhexyl)phthalate	BSD	RPD	13	%	20
OP46488B-BSD	206-44-0	Fluoranthene	BSD	REC	82	%	40-140
OP46488B-BSD	206-44-0	Fluoranthene	BSD	RPD	11	%	20
OP46488B-BSD	86-73-7	Fluorene	BSD	REC	75	%	40-140
OP46488B-BSD	86-73-7	Fluorene	BSD	RPD	12	%	20
OP46488B-BSD	118-74-1	Hexachlorobenzene	BSD	REC	75	%	40-140
OP46488B-BSD	118-74-1	Hexachlorobenzene	BSD	RPD	10	%	20
OP46488B-BSD	87-68-3	Hexachlorobutadiene	BSD	REC	46	%	40-140
OP46488B-BSD	87-68-3	Hexachlorobutadiene	BSD	RPD	41 f	%	20
OP46488B-BSD	77-47-4	Hexachlorocyclopentadiene	BSD	REC	28	%	40-140
OP46488B-BSD	77-47-4	Hexachlorocyclopentadiene	BSD	RPD	24	%	20

* Sample used for QC is not from job JD65186

QC Evaluation: Honeywell Limits

Job Number: JD65186
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 05/04/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP46488B-BSD	67-72-1	Hexachloroethane	BSD	REC	38	%	40-140
OP46488B-BSD	67-72-1	Hexachloroethane	BSD	RPD	46 [f]	%	20
OP46488B-BSD	193-39-5	Indeno(1,2,3-cd)pyrene	BSD	REC	86	%	40-140
OP46488B-BSD	193-39-5	Indeno(1,2,3-cd)pyrene	BSD	RPD	7	%	20
OP46488B-BSD	78-59-1	Isophorone	BSD	REC	72	%	40-140
OP46488B-BSD	78-59-1	Isophorone	BSD	RPD	16	%	20
OP46488B-BSD	91-20-3	Naphthalene	BSD	REC	59	%	40-140
OP46488B-BSD	91-20-3	Naphthalene	BSD	RPD	24	%	20
OP46488B-BSD	98-95-3	Nitrobenzene	BSD	REC	71	%	40-140
OP46488B-BSD	98-95-3	Nitrobenzene	BSD	RPD	19	%	20
OP46488B-BSD	62-75-9	n-Nitrosodimethylamine	BSD	REC	28	%	40-140
OP46488B-BSD	62-75-9	n-Nitrosodimethylamine	BSD	RPD	19	%	20
OP46488B-BSD	621-64-7	N-Nitroso-di-n-propylamine	BSD	REC	69	%	40-140
OP46488B-BSD	621-64-7	N-Nitroso-di-n-propylamine	BSD	RPD	18	%	20
OP46488B-BSD	86-30-6	N-Nitrosodiphenylamine	BSD	REC	73	%	40-140
OP46488B-BSD	86-30-6	N-Nitrosodiphenylamine	BSD	RPD	14	%	20
OP46488B-BSD	85-01-8	Phenanthrene	BSD	REC	71	%	40-140
OP46488B-BSD	85-01-8	Phenanthrene	BSD	RPD	12	%	20
OP46488B-BSD	129-00-0	Pyrene	BSD	REC	71	%	40-140
OP46488B-BSD	129-00-0	Pyrene	BSD	RPD	11	%	20
OP46488B-BSD	120-82-1	1,2,4-Trichlorobenzene	BSD	REC	50	%	40-140
OP46488B-BSD	120-82-1	1,2,4-Trichlorobenzene	BSD	RPD	31 [f]	%	20
OP46488B-BSD	367-12-4	2-Fluorophenol	BSD	SURR	37	%	15-110
OP46488B-BSD	4165-62-2	Phenol-d5	BSD	SURR	30	%	15-110
OP46488B-BSD	118-79-6	2,4,6-Tribromophenol	BSD	SURR	85	%	15-110
OP46488B-BSD	4165-60-0	Nitrobenzene-d5	BSD	SURR	74	%	30-130
OP46488B-BSD	321-60-8	2-Fluorobiphenyl	BSD	SURR	67	%	30-130
OP46488B-BSD	1718-51-0	Terphenyl-d14	BSD	SURR	62	%	30-130
OP46488B-MB1	367-12-4	2-Fluorophenol	MB	SURR	36	%	15-110
OP46488B-MB1	4165-62-2	Phenol-d5	MB	SURR	27	%	15-110
OP46488B-MB1	118-79-6	2,4,6-Tribromophenol	MB	SURR	79	%	15-110
OP46488B-MB1	4165-60-0	Nitrobenzene-d5	MB	SURR	73	%	30-130
OP46488B-MB1	321-60-8	2-Fluorobiphenyl	MB	SURR	62	%	30-130
OP46488B-MB1	1718-51-0	Terphenyl-d14	MB	SURR	57	%	30-130
JD65186-6	367-12-4	2-Fluorophenol	SAMP	SURR	13	%	15-110
JD65186-6	4165-62-2	Phenol-d5	SAMP	SURR	10	%	15-110
JD65186-6	118-79-6	2,4,6-Tribromophenol	SAMP	SURR	37	%	15-110
JD65186-6	4165-60-0	Nitrobenzene-d5	SAMP	SURR	75	%	30-130
JD65186-6	321-60-8	2-Fluorobiphenyl	SAMP	SURR	63	%	30-130
JD65186-6	1718-51-0	Terphenyl-d14	SAMP	SURR	33	%	30-130

(a) High percent recovery and no associated positive reported in the QC batch.
(b) Outside in house control limits.
(c) Outside control limits due to high level in sample relative to spike amount.
(d) Outside control limits due to acid preservation.

* Sample used for QC is not from job JD65186

QC Evaluation: Honeywell Limits

Job Number: JD65186
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 05/04/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits

(e) Outside of in house control limits.
(f) Analytical precision exceeds in-house control limits.

* Sample used for QC is not from job JD65186

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: JD65186
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
V2D9183-MB	2D210856.D	1	05/10/23	ED	n/a	n/a	V2D9183

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

JD65186-5

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: JD65186
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
V2D9183-MB	2D210856.D	1	05/10/23	ED	n/a	n/a	V2D9183

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

JD65186-5

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	97%	80-128%
2037-26-5	Toluene-D8 (SUR)	100%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	90%	79-117%
1868-53-7	Dibromofluoromethane (S)	96%	84-121%

Method Blank Summary

Job Number: JD65186
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
V2D9186-MB	2D210927.D	1	05/12/23	ED	n/a	n/a	V2D9186

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

JD65186-6

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: JD65186
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
V2D9186-MB	2D210927.D	1	05/12/23	ED	n/a	n/a	V2D9186

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

JD65186-6

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

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.71	40	ug/l	J
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: JD65186
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
V2D9183-BS	2D210855A.D	1	05/10/23	ED	n/a	n/a	V2D9183

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

JD65186-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
107-02-8	Acrolein	20	30.6	153* [a]	60-140
107-13-1	Acrylonitrile	20	25.2	126	60-140
71-43-2	Benzene	20	17.0	85	65-135
75-27-4	Bromodichloromethane	20	18.6	93	65-135
75-25-2	Bromoform	20	23.9	120	70-130
74-83-9	Bromomethane	20	16.1	81	15-185
56-23-5	Carbon tetrachloride	20	16.2	81	70-130
108-90-7	Chlorobenzene	20	18.5	93	65-135
75-00-3	Chloroethane	20	16.5	83	40-160
110-75-8	2-Chloroethyl vinyl ether	100	78.5	79	10-225
67-66-3	Chloroform	20	15.4	77	70-135
74-87-3	Chloromethane	20	12.6	63	10-205
124-48-1	Dibromochloromethane	20	23.0	115	70-135
95-50-1	1,2-Dichlorobenzene	20	18.8	94	65-135
541-73-1	1,3-Dichlorobenzene	20	18.4	92	70-130
106-46-7	1,4-Dichlorobenzene	20	19.6	98	65-135
75-71-8	Dichlorodifluoromethane	20	18.2	91	42-146
75-34-3	1,1-Dichloroethane	20	15.1	76	70-130
107-06-2	1,2-Dichloroethane	20	17.7	89	70-130
75-35-4	1,1-Dichloroethene	20	15.3	77	50-150
156-59-2	cis-1,2-Dichloroethene	20	17.5	88	72-116
156-60-5	trans-1,2-Dichloroethene	20	16.0	80	70-130
78-87-5	1,2-Dichloropropane	20	16.1	81	35-165
10061-01-5	cis-1,3-Dichloropropene	20	19.5	98	25-175
10061-02-6	trans-1,3-Dichloropropene	20	20.2	101	50-150
100-41-4	Ethylbenzene	20	18.5	93	60-140
75-09-2	Methylene chloride	20	15.0	75	60-140
79-34-5	1,1,2,2-Tetrachloroethane	20	23.2	116	60-140
127-18-4	Tetrachloroethene	20	18.6	93	70-130
108-88-3	Toluene	20	18.1	91	70-130
71-55-6	1,1,1-Trichloroethane	20	16.8	84	70-130
79-00-5	1,1,2-Trichloroethane	20	20.1	101	70-130
79-01-6	Trichloroethene	20	18.3	92	65-135
75-69-4	Trichlorofluoromethane	20	21.6	108	50-150
75-01-4	Vinyl chloride	20	15.6	78	50-150
1330-20-7	Xylenes (total)	60	54.9	92	79-114

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD65186
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
V2D9183-BS	2D210855A.D	1	05/10/23	ED	n/a	n/a	V2D9183

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

JD65186-5

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

(a) High percent recovery and no associated positive reported in the QC batch.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD65186
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
V2D9186-BS	2D210925A.D	1	05/12/23	ED	n/a	n/a	V2D9186
V2D9186-BSD	2D210926.D	1	05/12/23	ED	n/a	n/a	V2D9186

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

JD65186-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
107-02-8	Acrolein	20	30.0	150* [a]	31.6	158* [a]	5	60-140/20
107-13-1	Acrylonitrile	20	30.5	153* [a]	29.1	146* [a]	5	60-140/22
71-43-2	Benzene	20	18.5	93	18.3	92	1	65-135/11
75-27-4	Bromodichloromethane	20	22.1	111	22.5	113	2	65-135/12
75-25-2	Bromoform	20	26.6	133* [a]	26.8	134* [a]	1	70-130/12
74-83-9	Bromomethane	20	17.3	87	17.8	89	3	15-185/15
56-23-5	Carbon tetrachloride	20	19.0	95	18.8	94	1	70-130/13
108-90-7	Chlorobenzene	20	20.3	102	20.5	103	1	65-135/11
75-00-3	Chloroethane	20	18.7	94	19.6	98	5	40-160/21
110-75-8	2-Chloroethyl vinyl ether	100	91.9	92	92.6	93	1	10-225/14
67-66-3	Chloroform	20	18.1	91	18.2	91	1	70-135/14
74-87-3	Chloromethane	20	14.6	73	15.9	80	9	10-205/15
124-48-1	Dibromochloromethane	20	25.1	126	25.5	128	2	70-135/13
95-50-1	1,2-Dichlorobenzene	20	20.1	101	20.2	101	0	65-135/12
541-73-1	1,3-Dichlorobenzene	20	20.0	100	19.5	98	3	70-130/12
106-46-7	1,4-Dichlorobenzene	20	20.8	104	20.2	101	3	65-135/12
75-71-8	Dichlorodifluoromethane	20	19.3	97	21.1	106	9	42-146/17
75-34-3	1,1-Dichloroethane	20	17.0	85	17.3	87	2	70-130/12
107-06-2	1,2-Dichloroethane	20	19.9	100	20.4	102	2	70-130/11
75-35-4	1,1-Dichloroethene	20	16.5	83	17.8	89	8	50-150/16
156-59-2	cis-1,2-Dichloroethene	20	18.7	94	18.4	92	2	72-116/12
156-60-5	trans-1,2-Dichloroethene	20	16.8	84	17.2	86	2	70-130/12
78-87-5	1,2-Dichloropropane	20	19.9	100	19.3	97	3	35-165/14
10061-01-5	cis-1,3-Dichloropropene	20	20.5	103	20.0	100	2	25-175/12
10061-02-6	trans-1,3-Dichloropropene	20	21.8	109	22.3	112	2	50-150/12
100-41-4	Ethylbenzene	20	20.8	104	20.3	102	2	60-140/11
75-09-2	Methylene chloride	20	15.6	78	15.7	79	1	60-140/14
79-34-5	1,1,2,2-Tetrachloroethane	20	25.7	129	25.1	126	2	60-140/14
127-18-4	Tetrachloroethene	20	19.2	96	20.9	105	8	70-130/18
108-88-3	Toluene	20	18.8	94	19.1	96	2	70-130/13
71-55-6	1,1,1-Trichloroethane	20	19.5	98	18.9	95	3	70-130/12
79-00-5	1,1,2-Trichloroethane	20	21.6	108	21.1	106	2	70-130/14
79-01-6	Trichloroethene	20	19.2	96	19.6	98	2	65-135/13
75-69-4	Trichlorofluoromethane	20	20.3	102	19.4	97	5	50-150/15
75-01-4	Vinyl chloride	20	15.8	79	17.7	89	11	50-150/14
1330-20-7	Xylenes (total)	60	61.5	103	61.1	102	1	79-114/11

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD65186
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
V2D9186-BS	2D210925A.D	1	05/12/23	ED	n/a	n/a	V2D9186
V2D9186-BSD	2D210926.D	1	05/12/23	ED	n/a	n/a	V2D9186

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

JD65186-6

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	109%	108%	80-128%
2037-26-5	Toluene-D8 (SUR)	94%	95%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	97%	97%	79-117%
1868-53-7	Dibromofluoromethane (S)	102%	103%	84-121%

(a) High percent recovery and no associated positive reported in the QC batch.

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JD65186
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
JD65261-2MS	2D210936.D	1	05/12/23	ED	n/a	n/a	V2D9186
JD65261-2	2D210928.D	1	05/12/23	ED	n/a	n/a	V2D9186

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

JD65186-6

CAS No.	Compound	JD65261-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
107-02-8	Acrolein	ND		20	32.0	160	40-160
107-13-1	Acrylonitrile	ND		20	29.4	147	40-160
71-43-2	Benzene	ND		20	20.0	100	37-151
75-27-4	Bromodichloromethane	ND		20	20.2	101	35-155
75-25-2	Bromoform	ND		20	26.6	133	45-169
74-83-9	Bromomethane	ND		20	13.9	70	10-242
56-23-5	Carbon tetrachloride	ND		20	20.7	104	70-140
108-90-7	Chlorobenzene	ND		20	21.3	107	37-160
75-00-3	Chloroethane	ND		20	16.1	81	14-230
110-75-8	2-Chloroethyl vinyl ether	ND		100	ND	0*	10-305
67-66-3	Chloroform	ND		20	18.9	95	51-138
74-87-3	Chloromethane	ND		20	7.0	35	10-273
124-48-1	Dibromochloromethane	ND		20	26.2	131	53-149
95-50-1	1,2-Dichlorobenzene	ND		20	21.5	108	18-190
541-73-1	1,3-Dichlorobenzene	ND		20	21.0	105	59-156
106-46-7	1,4-Dichlorobenzene	ND		20	22.7	114	18-190
75-71-8	Dichlorodifluoromethane	ND		20	14.6	73	22-172
75-34-3	1,1-Dichloroethane	ND		20	17.9	90	59-155
107-06-2	1,2-Dichloroethane	ND		20	21.5	108	49-155
75-35-4	1,1-Dichloroethene	ND		20	17.9	90	10-234
156-59-2	cis-1,2-Dichloroethene	0.93		20	20.1	96	38-146
156-60-5	trans-1,2-Dichloroethene	ND		20	19.1	96	54-156
78-87-5	1,2-Dichloropropane	ND		20	18.6	93	10-210
10061-01-5	cis-1,3-Dichloropropene	ND		20	21.2	106	10-227
10061-02-6	trans-1,3-Dichloropropene	ND		20	21.9	110	17-183
100-41-4	Ethylbenzene	ND		20	21.9	110	37-162
75-09-2	Methylene chloride	ND		20	16.3	82	10-221
79-34-5	1,1,2,2-Tetrachloroethane	ND		20	26.8	134	46-157
127-18-4	Tetrachloroethene	3.7		20	26.1	112	64-148
108-88-3	Toluene	ND		20	20.7	104	47-150
71-55-6	1,1,1-Trichloroethane	ND		20	21.7	109	52-162
79-00-5	1,1,2-Trichloroethane	ND		20	22.7	114	52-150
79-01-6	Trichloroethene	0.92		20	21.3	102	70-157
75-69-4	Trichlorofluoromethane	ND		20	20.7	104	17-181
75-01-4	Vinyl chloride	ND		20	14.8	74	17-181
1330-20-7	Xylenes (total)	ND		60	64.4	107	58-134

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JD65186
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
JD65261-2MS	2D210936.D	1	05/12/23	ED	n/a	n/a	V2D9186
JD65261-2	2D210928.D	1	05/12/23	ED	n/a	n/a	V2D9186

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

JD65186-6

CAS No.	Surrogate Recoveries	MS	JD65261-2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	110%	106%	80-128%
2037-26-5	Toluene-D8 (SUR)	98%	103%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	92%	92%	79-117%
1868-53-7	Dibromofluoromethane (S)	102%	103%	84-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD65186
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
JD65124-1MS	2D210863.D	5	05/10/23	ED	n/a	n/a	V2D9183
JD65124-1MSD	2D210864.D	5	05/10/23	ED	n/a	n/a	V2D9183
JD65124-1 [a]	2D210858.D	5	05/10/23	ED	n/a	n/a	V2D9183
JD65124-1	2D210862.D	100	05/10/23	ED	n/a	n/a	V2D9183

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

JD65186-5

CAS No.	Compound	JD65124-1 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		100	169	169* [b]	100	170	170* [b]	1	40-160/60
107-13-1	Acrylonitrile	ND		100	135	135	100	124	124	8	40-160/60
71-43-2	Benzene	833 [c]		100	961	128	100	983	150	2	37-151/61
75-27-4	Bromodichloromethane	ND		100	97.6	98	100	97.7	98	0	35-155/56
75-25-2	Bromoform	ND		100	98.6	99	100	99.5	100	1	45-169/42
74-83-9	Bromomethane	ND		100	81.7	82	100	79.7	80	2	10-242/61
56-23-5	Carbon tetrachloride	ND		100	83.2	83	100	82.7	83	1	70-140/41
108-90-7	Chlorobenzene	5380 [c]		100	6800	1420* [d]	100	6810	1430* [d]	0	37-160/53
75-00-3	Chloroethane	ND		100	82.6	83	100	78.7	79	5	14-230/78
110-75-8	2-Chloroethyl vinyl ether	ND		500	51.5	10	500	28.6	6* [e]	57	10-305/71
67-66-3	Chloroform	5.6		100	85.0	79	100	87.0	81	2	51-138/54
74-87-3	Chloromethane	ND		100	41.2	41	100	68.1	68	49	10-273/60
124-48-1	Dibromochloromethane	ND		100	90.8	91	100	94.1	94	4	53-149/50
95-50-1	1,2-Dichlorobenzene	87.0		100	185	98	100	187	100	1	18-190/57
541-73-1	1,3-Dichlorobenzene	19.2		100	105	86	100	107	88	2	59-156/43
106-46-7	1,4-Dichlorobenzene	516		100	569	53	100	575	59	1	18-190/57
75-71-8	Dichlorodifluoromethane	ND		100	79.1	79	100	68.8	69	14	22-172/22
75-34-3	1,1-Dichloroethane	ND		100	78.7	79	100	79.5	80	1	59-155/40
107-06-2	1,2-Dichloroethane	ND		100	107	107	100	110	110	3	49-155/49
75-35-4	1,1-Dichloroethene	ND		100	77.4	77	100	80.4	80	4	10-234/32
156-59-2	cis-1,2-Dichloroethene	ND		100	89.8	90	100	87.8	88	2	38-146/17
156-60-5	trans-1,2-Dichloroethene	ND		100	86.2	86	100	87.2	87	1	54-156/45
78-87-5	1,2-Dichloropropane	ND		100	88.6	89	100	86.0	86	3	10-210/55
10061-01-5	cis-1,3-Dichloropropene	ND		100	104	104	100	102	102	2	10-227/58
10061-02-6	trans-1,3-Dichloropropene	ND		100	81.0	81	100	85.4	85	5	17-183/86
100-41-4	Ethylbenzene	48.6		100	125	76	100	125	76	0	37-162/63
75-09-2	Methylene chloride	ND		100	75.7	76	100	75.5	76	0	10-221/28
79-34-5	1,1,2,2-Tetrachloroethane	ND		100	112	112	100	113	113	1	46-157/61
127-18-4	Tetrachloroethene	2.8		100	79.5	77	100	80.3	78	1	64-148/39
108-88-3	Toluene	927		100	895	-32* [d]	100	880	-47* [d]	2	47-150/41
71-55-6	1,1,1-Trichloroethane	ND		100	86.5	87	100	87.3	87	1	52-162/36
79-00-5	1,1,2-Trichloroethane	ND		100	80.8	81	100	83.6	84	3	52-150/45
79-01-6	Trichloroethene	ND		100	92.1	92	100	92.0	92	0	70-157/48
75-69-4	Trichlorofluoromethane	ND		100	102	102	100	104	104	2	17-181/84
75-01-4	Vinyl chloride	ND		100	74.3	74	100	80.1	80	8	17-181/84
1330-20-7	Xylenes (total)	59.1		300	311	84	300	314	85	1	58-134/16

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD65186
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
JD65124-1MS	2D210863.D	5	05/10/23	ED	n/a	n/a	V2D9183
JD65124-1MSD	2D210864.D	5	05/10/23	ED	n/a	n/a	V2D9183
JD65124-1 [a]	2D210858.D	5	05/10/23	ED	n/a	n/a	V2D9183
JD65124-1	2D210862.D	100	05/10/23	ED	n/a	n/a	V2D9183

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

JD65186-5

CAS No.	Surrogate Recoveries	MS	MSD	JD65124-1	JD65124-1	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	106%	108%	108%	99%	80-128%
2037-26-5	Toluene-D8 (SUR)	86%	83%	89%	104%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	92%	93%	89%	90%	79-117%
1868-53-7	Dibromofluoromethane (S)	95%	97%	93%	94%	84-121%

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

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JD65186
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: V2D9091-BFB
Lab File ID: 2D208759.D
Instrument ID: GCMS2D
Injection Date: 03/03/23
Injection Time: 20:37

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	25464	19.4		Pass
75	30.0 - 60.0% of mass 95	69042	52.6		Pass
95	Base peak, 100% relative abundance	131317	100.0		Pass
96	5.0 - 9.0% of mass 95	8686	6.61		Pass
173	Less than 2.0% of mass 174	1557	1.19	(1.22) [a]	Pass
174	50.0 - 120.0% of mass 95	127186	96.9		Pass
175	5.0 - 9.0% of mass 174	9539	7.26	(7.50) [a]	Pass
176	95.0 - 101.0% of mass 174	124426	94.8	(97.8) [a]	Pass
177	5.0 - 9.0% of mass 176	7771	5.92	(6.25) [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
V2D9091-IC9091	2D208760.D	03/03/23	21:12	00:35	Initial cal 0.2
V2D9091-IC9091	2D208761.D	03/03/23	21:41	01:04	Initial cal 0.5
V2D9091-IC9091	2D208762.D	03/03/23	22:11	01:34	Initial cal 1
V2D9091-IC9091	2D208763.D	03/03/23	22:41	02:04	Initial cal 2
V2D9091-IC9091	2D208764.D	03/03/23	23:11	02:34	Initial cal 4
V2D9091-IC9091	2D208765.D	03/03/23	23:40	03:03	Initial cal 8
V2D9091-IC9091	2D208766.D	03/04/23	00:10	03:33	Initial cal 20
V2D9091-ICC9091	2D208767.D	03/04/23	00:39	04:02	Initial cal 50
V2D9091-IC9091	2D208768.D	03/04/23	01:09	04:32	Initial cal 100
V2D9091-IC9091	2D208769.D	03/04/23	01:39	05:02	Initial cal 200
V2D9091-ICV9091	2D208772.D	03/04/23	03:10	06:33	Initial cal verification 50
V2D9091-ICV9091	2D208773.D	03/04/23	03:40	07:03	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JD65186
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: V2D9183-BFB
Lab File ID: 2D210854.D
Instrument ID: GCMS2D
Injection Date: 05/10/23
Injection Time: 11:06

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	11968	19.9		Pass
75	30.0 - 60.0% of mass 95	32498	54.1		Pass
95	Base peak, 100% relative abundance	60021	100.0		Pass
96	5.0 - 9.0% of mass 95	3882	6.47		Pass
173	Less than 2.0% of mass 174	695	1.16	(1.06) [a]	Pass
174	50.0 - 120.0% of mass 95	65670	109.4		Pass
175	5.0 - 9.0% of mass 174	5116	8.52	(7.79) [a]	Pass
176	95.0 - 101.0% of mass 174	62474	104.1	(95.1) [a]	Pass
177	5.0 - 9.0% of mass 176	4285	7.14	(6.86) [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
V2D9183-CC9091	2D210855.D	05/10/23	11:36	00:30	Continuing cal 20
V2D9183-BS	2D210855A.D	05/10/23	11:36	00:30	Blank Spike
V2D9183-MB	2D210856.D	05/10/23	12:08	01:02	Method Blank
ZZZZZZ	2D210857.D	05/10/23	12:49	01:43	(unrelated sample)
JD65124-1	2D210858.D	05/10/23	13:19	02:13	(used for QC only; not part of job JD65186)
ZZZZZZ	2D210859.D	05/10/23	13:49	02:43	(unrelated sample)
ZZZZZZ	2D210860.D	05/10/23	14:19	03:13	(unrelated sample)
JD65124-1	2D210862.D	05/10/23	15:20	04:14	(used for QC only; not part of job JD65186)
JD65124-1MS	2D210863.D	05/10/23	15:50	04:44	Matrix Spike
JD65124-1MSD	2D210864.D	05/10/23	16:21	05:15	Matrix Spike Duplicate
ZZZZZZ	2D210866.D	05/10/23	17:22	06:16	(unrelated sample)
ZZZZZZ	2D210867.D	05/10/23	17:52	06:46	(unrelated sample)
JD65186-5	2D210868.D	05/10/23	18:22	07:16	050423-TB
ZZZZZZ	2D210869.D	05/10/23	18:52	07:46	(unrelated sample)
ZZZZZZ	2D210870.D	05/10/23	19:23	08:17	(unrelated sample)
ZZZZZZ	2D210875.D	05/10/23	21:54	10:48	(unrelated sample)
ZZZZZZ	2D210876.D	05/10/23	22:24	11:18	(unrelated sample)
ZZZZZZ	2D210877.D	05/10/23	22:54	11:48	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD65186
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: V2D9186-BFB
Lab File ID: 2D210924.D
Instrument ID: GCMS2D
Injection Date: 05/12/23
Injection Time: 07:40

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	21275	21.6		Pass
75	30.0 - 60.0% of mass 95	56408	57.3		Pass
95	Base peak, 100% relative abundance	98509	100.0		Pass
96	5.0 - 9.0% of mass 95	6371	6.47		Pass
173	Less than 2.0% of mass 174	818	0.83	(0.86) [a]	Pass
174	50.0 - 120.0% of mass 95	95027	96.5		Pass
175	5.0 - 9.0% of mass 174	6979	7.08	(7.34) [a]	Pass
176	95.0 - 101.0% of mass 174	91568	93.0	(96.4) [a]	Pass
177	5.0 - 9.0% of mass 176	6711	6.81	(7.33) [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
V2D9186-CC9091	2D210925.D	05/12/23	08:10	00:30	Continuing cal 20
V2D9186-BS	2D210925A.D	05/12/23	08:10	00:30	Blank Spike
V2D9186-BSD	2D210926.D	05/12/23	08:40	01:00	Blank Spike Duplicate
V2D9186-MB	2D210927.D	05/12/23	09:15	01:35	Method Blank
JD65261-2	2D210928.D	05/12/23	09:47	02:07	(used for QC only; not part of job JD65186)
ZZZZZZ	2D210929.D	05/12/23	10:18	02:38	(unrelated sample)
ZZZZZZ	2D210931.D	05/12/23	11:18	03:38	(unrelated sample)
ZZZZZZ	2D210932.D	05/12/23	11:49	04:09	(unrelated sample)
ZZZZZZ	2D210933.D	05/12/23	12:18	04:38	(unrelated sample)
ZZZZZZ	2D210934.D	05/12/23	12:48	05:08	(unrelated sample)
ZZZZZZ	2D210935.D	05/12/23	13:18	05:38	(unrelated sample)
JD65261-2MS	2D210936.D	05/12/23	13:48	06:08	Matrix Spike
ZZZZZZ	2D210937.D	05/12/23	14:19	06:39	(unrelated sample)
ZZZZZZ	2D210938.D	05/12/23	14:49	07:09	(unrelated sample)
ZZZZZZ	2D210939.D	05/12/23	15:20	07:40	(unrelated sample)
ZZZZZZ	2D210940.D	05/12/23	15:50	08:10	(unrelated sample)
ZZZZZZ	2D210941.D	05/12/23	16:20	08:40	(unrelated sample)
ZZZZZZ	2D210942.D	05/12/23	16:50	09:10	(unrelated sample)
ZZZZZZ	2D210943.D	05/12/23	17:21	09:41	(unrelated sample)
ZZZZZZ	2D210944.D	05/12/23	17:50	10:10	(unrelated sample)
JD65186-6	2D210945.D	05/12/23	18:20	10:40	GRAB 1-THROUGH 4 LAB COMPOSITE-050423-BS
ZZZZZZ	2D210946.D	05/12/23	18:50	11:10	(unrelated sample)

Surrogate Recovery Summary

Job Number: JD65186
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
JD65186-5	2D210868.D	104	103	92	94
JD65186-6	2D210945.D	114	102	89	102
JD65124-1MS	2D210863.D	106	86	92	95
JD65124-1MSD	2D210864.D	108	83	93	97
JD65261-2MS	2D210936.D	110	98	92	102
V2D9183-BS	2D210855A.D	99	97	96	97
V2D9183-MB	2D210856.D	97	100	90	96
V2D9186-BS	2D210925A.D	109	94	97	102
V2D9186-BSD	2D210926.D	108	95	97	103
V2D9186-MB	2D210927.D	113	101	96	99

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: JD65186
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
OP46488B-MB1	F214279.D	1	05/13/23	KLS	05/12/23	OP46488B	EF9462

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

JD65186-6

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: JD65186
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
OP46488B-MB1	F214279.D	1	05/13/23	KLS	05/12/23	OP46488B	EF9462

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

JD65186-6

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	1.8	2.0	0.50	ug/l	J
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	36%	10-110%
4165-62-2	Phenol-d5	27%	10-110%
118-79-6	2,4,6-Tribromophenol	79%	35-147%
4165-60-0	Nitrobenzene-d5	73%	32-132%
321-60-8	2-Fluorobiphenyl	62%	40-117%
1718-51-0	Terphenyl-d14	57%	33-126%

Method Blank Summary

Job Number: JD65186
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
OP46488B-MB1	F214279.D	1	05/13/23	KLS	05/12/23	OP46488B	EF9462

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

JD65186-6

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	3.95	6.4	ug/l	J
	system artifact	4.15	6.9	ug/l	J
	Total TIC, Semi-Volatile		0	ug/l	

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD65186
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
OP46488B-BS1	F214280.D	1	05/13/23	KLS	05/12/23	OP46488B	EF9462
OP46488B-BSD	F214281.D	1	05/13/23	KLS	05/12/23	OP46488B	EF9462

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

JD65186-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	50	34.0	68	29.5	59	14	43-100/22
59-50-7	4-Chloro-3-methyl phenol	50	41.6	83	38.3	77	8	46-110/21
120-83-2	2,4-Dichlorophenol	50	39.5	79	36.1	72	9	44-109/21
105-67-9	2,4-Dimethylphenol	50	35.8	72	31.9	64	12	42-116/20
51-28-5	2,4-Dinitrophenol	100	126	126	120	120	5	38-131/27
534-52-1	4,6-Dinitro-o-cresol	50	58.7	117	55.3	111	6	50-124/26
88-75-5	2-Nitrophenol	50	50.1	100	43.5	87	14	44-109/21
100-02-7	4-Nitrophenol	50	20.1	40	20.7	41	3	14-110/23
87-86-5	Pentachlorophenol	100	77.6	78	72.8	73	6	25-128/25
108-95-2	Phenol	50	16.6	33	17.8	36	7	20-110/22
88-06-2	2,4,6-Trichlorophenol	50	40.8	82	37.7	75	8	52-118/24
83-32-9	Acenaphthene	50	38.4	77	33.3	67	14	47-110/24
208-96-8	Acenaphthylene	50	39.2	78	33.6	67	15	45-110/24
120-12-7	Anthracene	50	42.0	84	37.4	75	12	52-110/24
92-87-5	Benzidine	50	3.3	7* [a]	ND	0* [a]	200* [b]	10-110/65
56-55-3	Benzo(a)anthracene	50	45.8	92	41.4	83	10	53-110/20
50-32-8	Benzo(a)pyrene	50	46.2	92	43.6	87	6	55-110/23
205-99-2	Benzo(b)fluoranthene	50	45.9	92	40.7	81	12	57-110/23
191-24-2	Benzo(g,h,i)perylene	50	45.7	91	42.1	84	8	51-110/23
207-08-9	Benzo(k)fluoranthene	50	42.1	84	38.6	77	9	56-110/22
101-55-3	4-Bromophenyl phenyl ether	50	44.7	89	39.9	80	11	51-112/23
85-68-7	Butyl benzyl phthalate	50	45.5	91	40.0	80	13	50-122/23
91-58-7	2-Chloronaphthalene	50	38.3	77	31.7	63	19	41-110/26
106-47-8	4-Chloroaniline	50	24.2	48	24.1	48	0	10-110/44
218-01-9	Chrysene	50	41.9	84	38.2	76	9	52-110/20
111-91-1	bis(2-Chloroethoxy)methane	50	41.6	83	34.5	69	19	36-110/21
111-44-4	bis(2-Chloroethyl)ether	50	39.3	79	31.5	63	22* [b]	40-111/21
108-60-1	2,2'-Oxybis(1-chloropropane)	50	44.3	89	36.7	73	19	37-110/25
7005-72-3	4-Chlorophenyl phenyl ether	50	44.0	88	39.0	78	12	48-110/25
95-50-1	1,2-Dichlorobenzene	50	31.8	64	22.7	45	33* [b]	35-110/28
122-66-7	1,2-Diphenylhydrazine	50	36.4	73	32.9	66	10	39-128/23
541-73-1	1,3-Dichlorobenzene	50	31.1	62	21.3	43	37* [b]	32-110/28
106-46-7	1,4-Dichlorobenzene	50	30.6	61	20.9	42	38* [b]	33-110/27
121-14-2	2,4-Dinitrotoluene	50	52.7	105	47.6	95	10	61-117/25
606-20-2	2,6-Dinitrotoluene	50	51.6	103	46.6	93	10	61-119/23
91-94-1	3,3'-Dichlorobenzidine	50	40.7	81	37.9	76	7	20-110/33

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD65186
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
OP46488B-BS1	F214280.D	1	05/13/23	KLS	05/12/23	OP46488B	EF9462
OP46488B-BSD	F214281.D	1	05/13/23	KLS	05/12/23	OP46488B	EF9462

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

JD65186-6

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	50.8	102	46.5	93	9	55-110/25
84-74-2	Di-n-butyl phthalate	50	44.3	89	39.6	79	11	55-118/25
117-84-0	Di-n-octyl phthalate	50	40.8	82	36.7	73	11	49-124/26
84-66-2	Diethyl phthalate	50	43.8	88	39.3	79	11	54-113/23
131-11-3	Dimethyl phthalate	50	42.1	84	38.3	77	9	56-110/23
117-81-7	bis(2-Ethylhexyl)phthalate	50	45.9	92	40.3	81	13	50-120/22
206-44-0	Fluoranthene	50	45.9	92	41.0	82	11	55-111/23
86-73-7	Fluorene	50	42.7	85	37.7	75	12	51-110/25
118-74-1	Hexachlorobenzene	50	41.6	83	37.5	75	10	47-116/23
87-68-3	Hexachlorobutadiene	50	34.5	69	22.8	46	41* b	24-110/34
77-47-4	Hexachlorocyclopentadiene	100	35.5	36	27.9	28	24	10-110/39
67-72-1	Hexachloroethane	50	30.5	61	19.1	38	46* b	28-110/34
193-39-5	Indeno(1,2,3-cd)pyrene	50	46.2	92	43.2	86	7	51-112/24
78-59-1	Isophorone	50	42.3	85	36.2	72	16	42-111/20
91-20-3	Naphthalene	50	37.4	75	29.3	59	24	34-110/25
98-95-3	Nitrobenzene	50	42.7	85	35.4	71	19	39-110/21
62-75-9	n-Nitrosodimethylamine	50	17.1	34	14.1	28	19	15-110/19
621-64-7	N-Nitroso-di-n-propylamine	50	41.7	83	34.7	69	18	33-117/21
86-30-6	N-Nitrosodiphenylamine	50	41.7	83	36.4	73	14	54-110/24
85-01-8	Phenanthrene	50	40.2	80	35.5	71	12	53-110/23
129-00-0	Pyrene	50	39.6	79	35.4	71	11	52-110/22
120-82-1	1,2,4-Trichlorobenzene	50	34.3	69	25.2	50	31* b	30-110/29

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	42%	37%	10-110%
4165-62-2	Phenol-d5	33%	30%	10-110%
118-79-6	2,4,6-Tribromophenol	92%	85%	35-147%
4165-60-0	Nitrobenzene-d5	91%	74%	32-132%
321-60-8	2-Fluorobiphenyl	81%	67%	40-117%
1718-51-0	Terphenyl-d14	65%	62%	33-126%

(a) Outside of in house control limits.
(b) Analytical precision exceeds in-house control limits.

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JD65186
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: EF9321-DFTPP
Lab File ID: F211404.D
Instrument ID: GCMSF
Injection Date: 12/06/22
Injection Time: 15:56

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	37650	45.7		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	38605	46.9		Pass
70	Less than 2.0% of mass 69	290	0.35	(0.75) [a]	Pass
127	40.0 - 60.0% of mass 198	41619	50.6		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	82304	100.0		Pass
199	5.0 - 9.0% of mass 198	5637	6.85		Pass
275	10.0 - 30.0% of mass 198	20504	24.9		Pass
365	1.0 - 100.0% of mass 198	2886	3.51		Pass
441	Present, but less than mass 443	7546	9.17	(76.7) [b]	Pass
442	40.0 - 100.0% of mass 198	50218	61.0		Pass
443	17.0 - 23.0% of mass 442	9841	12.0	(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
EF9321-IC9321	F211405.D	12/06/22	17:57	02:01	Initial cal 1
EF9321-IC9321	F211406.D	12/06/22	18:23	02:27	Initial cal 100
EF9321-IC9321	F211407.D	12/06/22	18:48	02:52	Initial cal 2
EF9321-IC9321	F211408.D	12/06/22	19:14	03:18	Initial cal 80
EF9321-IC9321	F211409.D	12/06/22	19:40	03:44	Initial cal 5
EF9321-ICC9321	F211410.D	12/06/22	20:06	04:10	Initial cal 50
EF9321-IC9321	F211411.D	12/06/22	20:31	04:35	Initial cal 10
EF9321-IC9321	F211412.D	12/06/22	20:57	05:01	Initial cal 25
EF9321-ICV9321	F211413.D	12/06/22	21:37	05:41	Initial cal verification 50
EF9321-ICV9321	F211414.D	12/06/22	22:02	06:06	Initial cal verification 50
EF9321-ICV9321	F211415.D	12/06/22	22:28	06:32	Initial cal verification 50
EF9321-ICV9321	F211416.D	12/06/22	22:53	06:57	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD65186
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: EF9322-DFTPP
Lab File ID: F211417.D
Instrument ID: GCMSF
Injection Date: 12/07/22
Injection Time: 01:55

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	46423	52.0		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	46658	52.3		Pass
70	Less than 2.0% of mass 69	363	0.41	(0.78) [a]	Pass
127	40.0 - 60.0% of mass 198	49317	55.2		Pass
197	Less than 1.0% of mass 198	469	0.53		Pass
198	Base peak, 100% relative abundance	89266	100.0		Pass
199	5.0 - 9.0% of mass 198	6160	6.90		Pass
275	10.0 - 30.0% of mass 198	21526	24.1		Pass
365	1.0 - 100.0% of mass 198	2633	2.95		Pass
441	Present, but less than mass 443	6603	7.40	(75.1) [b]	Pass
442	40.0 - 100.0% of mass 198	45243	50.7		Pass
443	17.0 - 23.0% of mass 442	8794	9.85	(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
EF9322-IC9322	F211418.D	12/07/22	02:14	00:19	Initial cal 100
EF9322-IC9322	F211419.D	12/07/22	02:40	00:45	Initial cal 80
EF9322-ICC9322	F211420.D	12/07/22	03:05	01:10	Initial cal 50
EF9322-IC9322	F211421.D	12/07/22	03:31	01:36	Initial cal 25
EF9322-IC9322	F211422.D	12/07/22	03:56	02:01	Initial cal 10
EF9322-IC9322	F211423.D	12/07/22	04:22	02:27	Initial cal 5
EF9322-IC9322	F211424.D	12/07/22	04:47	02:52	Initial cal 2
EF9322-IC9322	F211425.D	12/07/22	05:12	03:17	Initial cal 1
EF9322-ICV9322	F211426.D	12/07/22	05:38	03:43	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD65186
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: EF9462-DFTPP
Lab File ID: F214275.D
Instrument ID: GCMSF
Injection Date: 05/13/23
Injection Time: 08:26

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	13675	45.7		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	17490	58.4		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	16791	56.1		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	29927	100.0		Pass
199	5.0 - 9.0% of mass 198	2052	6.86		Pass
275	10.0 - 30.0% of mass 198	8318	27.8		Pass
365	1.0 - 100.0% of mass 198	1201	4.01		Pass
441	Present, but less than mass 443	2956	9.88	(75.8) [b]	Pass
442	40.0 - 100.0% of mass 198	19811	66.2		Pass
443	17.0 - 23.0% of mass 442	3902	13.0	(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
EF9462-CC9321	F214276.D	05/13/23	08:43	00:17	Continuing cal 50
EF9462-CC9322	F214277.D	05/13/23	09:15	00:49	Continuing cal 50
OP46488B-MB1	F214279.D	05/13/23	10:20	01:54	Method Blank
OP46488-MB1	F214279.D	05/13/23	10:20	01:54	Method Blank
OP46488-BS1	F214280.D	05/13/23	10:46	02:20	Blank Spike
OP46488B-BS1	F214280.D	05/13/23	10:46	02:20	Blank Spike
OP46488B-BSD	F214281.D	05/13/23	11:11	02:45	Blank Spike Duplicate
OP46488-BSD	F214281.D	05/13/23	11:11	02:45	Blank Spike Duplicate
ZZZZZZ	F214282.D	05/13/23	11:36	03:10	(unrelated sample)
ZZZZZZ	F214283.D	05/13/23	12:01	03:35	(unrelated sample)
JD65186-6	F214284.D	05/13/23	12:26	04:00	GRAB 1-THROUGH 4 LAB COMPOSITE-050423-BS
ZZZZZZ	F214285.D	05/13/23	12:51	04:25	(unrelated sample)
ZZZZZZ	F214286.D	05/13/23	13:16	04:50	(unrelated sample)
ZZZZZZ	F214287.D	05/13/23	13:41	05:15	(unrelated sample)
ZZZZZZ	F214288.D	05/13/23	14:06	05:40	(unrelated sample)
ZZZZZZ	F214289.D	05/13/23	14:31	06:05	(unrelated sample)
ZZZZZZ	F214290.D	05/13/23	14:56	06:30	(unrelated sample)
ZZZZZZ	F214291.D	05/13/23	15:21	06:55	(unrelated sample)
ZZZZZZ	F214292.D	05/13/23	15:46	07:20	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JD65186
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample:	EF9462-DFTPP	**Injection Date:**	05/13/23
Lab File ID:	F214275.D	**Injection Time:**	08:26
Instrument ID:	GCMSF		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	F214293.D	05/13/23	16:11	07:45	(unrelated sample)
ZZZZZZ	F214294.D	05/13/23	16:36	08:10	(unrelated sample)
ZZZZZZ	F214295.D	05/13/23	17:01	08:35	(unrelated sample)
ZZZZZZ	F214296.D	05/13/23	17:26	09:00	(unrelated sample)
ZZZZZZ	F214297.D	05/13/23	17:51	09:25	(unrelated sample)
ZZZZZZ	F214298.D	05/13/23	18:16	09:50	(unrelated sample)
ZZZZZZ	F214299.D	05/13/23	18:41	10:15	(unrelated sample)
ZZZZZZ	F214300.D	05/13/23	19:06	10:40	(unrelated sample)

Surrogate Recovery Summary

Job Number: JD65186
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
JD65186-6	F214284.D	13	10	37	75	63	33
OP46488B-BS1	F214280.D	42	33	92	91	81	65
OP46488B-BSD	F214281.D	37	30	85	74	67	62
OP46488B-MB1	F214279.D	36	27	79	73	62	57

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%

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

31030 PO# A001132428

SGS Job Number: JD64357

Sampling Date: 04/20/23



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: **34**

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

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

May 15, 2023

Mr. Ryan Belcher
WSP USA Environment & Infrastructure Inc
511 Congress Street
Portland, ME 04112

Re: SGS North America – Dayton, NJ Jobs # JD64357 – Reissues

Dear Mr. Belcher,

The final reports for SGS jobs number JD64357 have been edited to reflect corrections to the final results. These edits have been incorporated into the revised report which is attached.

Specifically, as per client request, the Method EPA624.1 and EPA625.1 the data was removed from the report from sample -1 thru -4 and -6. 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: JD64357

HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Project No: 31030 PO# A001132428

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD64357-1	04/20/23	09:30	BH	04/22/23	AQ	Ground Water	GRAB 1-042023-BSA DISCHARGE
JD64357-2	04/20/23	11:30	BH	04/22/23	AQ	Ground Water	GRAB 2-042023-BSA DISCHARGE
JD64357-3	04/20/23	13:30	BH	04/22/23	AQ	Ground Water	GRAB 1-042023-BSA DISCHARGE
JD64357-4	04/20/23	15:30	BH	04/22/23	AQ	Ground Water	GRAB 2-042023-BSA DISCHARGE
JD64357-5	04/20/23	15:45	BH	04/22/23	AQ	Ground Water	COMP-042023-BSA DISCHARGE
JD64357-6	04/20/23	15:45	BH	04/22/23	AQ	Trip Blank Water	042023-TB

This report contains results reported as ND = Not detected. The following applies:
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:** JD64357

Site: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY **Report Date** 5/15/2023 6:00:14 PM

On 04/22/2023, 1 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 1.8 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of JD64357 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.

Metals Analysis By Method EPA 200.7

Matrix: AQ **Batch ID:** MP39263

- 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) JD64458-1MS, JD64458-1MSD, JD64458-1SDL were used as the QC samples for the metals analysis.
- The serial dilution RPD(s) for Zinc are outside control limits for sample MP39263-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals Analysis By Method EPA 245.1

Matrix: AQ **Batch ID:** MP39253

- 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) JD64435-10MS, JD64435-10MSD were used as the QC samples for the metals analysis.

General Chemistry By Method EPA 365.3

Matrix: AQ **Batch ID:** GP46436

- All samples were prepared 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) JD64340-1DUP, JD64340-1MS were used as the QC samples for the Phosphorus, Total analysis.

General Chemistry By Method SM2540 D-11/15

Matrix: AQ **Batch ID:** GN40685

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD64350-1DUP were used as the QC samples for the Solids, Total Suspended analysis.

General Chemistry By Method SM4500H+ B-11

Matrix: AQ **Batch ID:** GN40696

- Sample(s) JD64280-1DUP were used as the QC samples for the pH analysis.
- JD64357-5 for pH: Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 11.2 Deg. C

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.

Summary of Hits

Job Number: JD64357
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 04/20/23

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD64357-5	**COMP-042023-BSA DISCHARGE**					
Zinc		12.1 J	20	8.5	ug/l	EPA 200.7
Solids, Total Suspended		47.0	4.0	1.5	mg/l	SM2540 D-11/15
pH [a]		7.20			su	SM4500H+ B-11

(a) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 11.2 Deg. C

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: COMP-042023-BSA DISCHARGE
Lab Sample ID: JD64357-5
Matrix: AQ - Ground Water
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Date Sampled: 04/20/23
Date Received: 04/22/23
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Copper	ND	10	4.1	ug/l	1	04/27/23	04/28/23	ND	EPA 200.7 [2]	EPA 200.7 [4]
Mercury	ND	0.20	0.092	ug/l	1	04/26/23	04/27/23	LM	EPA 245.1 [1]	EPA 245.1 [3]
Zinc	12.1 J	20	8.5	ug/l	1	04/27/23	04/28/23	ND	EPA 200.7 [2]	EPA 200.7 [4]

(1) Instrument QC Batch: MA54065
(2) Instrument QC Batch: MA54083
(3) Prep QC Batch: MP39253
(4) Prep QC Batch: MP39263

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

Report of Analysis

Client Sample ID:	COMP-042023-BSA DISCHARGE		
Lab Sample ID:	JD64357-5	**Date Sampled:**	04/20/23
Matrix:	AQ - Ground Water	**Date Received:**	04/22/23
		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	ND	0.50	0.27	mg/l	1	04/27/23 16:50	MK	EPA 365.3
Solids, Total Suspended	47.0	4.0	1.5	mg/l	1	04/24/23 16:28	AS	SM2540 D-11/15
pH [a]	7.20			su	1	04/24/23 18:25	MM	SM4500H+ B-11

(a) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 11.2 Deg. C

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

GW TB

5894-7372 7478

SGS Laboratories 2235 Route 130 Dayton, NJ 08810 (732) 239-0200	**Honeywell** Chain of Custody / Analysis Request	Save with QC Check: Gray Cells Required · More Columns · [redacted] · Print Short COC · Print Expanded COC

AESI Ref:	45037.43561	COC#	Alltift - 042023	JD64357	Page 1 of 1		
Pricing Source (RFP, eAuction, etc)	RFP2019	HW Site Name	Buffalo Alltift Landfill	Task Type	OM&M	Lab Proj # (SDG):	
Sampling Co.:	Jacobs	Email of person receiving EDD	EQUIS	Location of Site	579 Tifft Street, Buffalo NY	WBS Code	8400
Lab Location ID	ACTD						

Reporting Information (DocuSign First Signer)	Name	Jacobs	Sampler(s) names	Benjamin Hendry	
	Address	1563 Willis Ave.	PO #	HW PO # A001132428	
	City, State, Zip	Syracuse, NY 13204	Analysis Turnaround Time (calendar days):	Standard TAT	
	Contact; email	Mike Fay, Michael.Fay@jacobs.com	Consultant	Jacobs	
Billing Information (DocuSign Second Signer)	Co. Name	Honeywell	Laboratory Contact	Jadon Schiller	
	Address	301 Plainfield Road, Suite 330	Report Tier Level	2	
	City, State, Zip	Syracuse, NY 13202	Full Report and EDD TAT (calendar days)	Standard TAT	
	HW RM email	Shane.Blauvelt@honeywell.com	Honeywell RM Name	Shane Blauvelt (SRB)	

HW Site R-Code	R31030
Sampling Program	Semi-Annual
Authorized User:	Honeywell
Lab Parent ID	SGS
Text & Excel File Drive	Excel & Text File Order
Create Excel Output	[redacted]

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More Rows [redacted]

Sample Identification

Analytical Group Name / Preservative: V624 PPL-EPA624-VOA (18); 625 PPL SVOC-AB625PPL (1); 245 - Total Hg (21); 200.7 - Metals (21); TPO4 - EPA 365.3 (14); pH - SM20 4500H (1); TSS - Total Suspended Solids (2540 C (1)

#	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Medium	# of Cont.	Composite (Y, N)	Field Filtered Sample (Y, N)	V624 PPL-EPA624-VOA (mg/l)	625 PPL SVOC-AB625PPL (mg/l)	245 - Total Hg (mg/l)	200.7 - Metals (mg/l)	TPO4 - EPA 365.3	pH - SM20 4500H	TSS - Total Suspended Solids (2540 C	Sampling Method (rt_sample_method)	Lab Sample Numbers
1	-----	---	---	Grab 1-042023-BSA Discharge	04-20-2023	0930	GW	WATER	REG	5	N	N	3	2							
2	-----	---	---	Grab 2-042023-BSA Discharge	04-20-2023	1130	GW	WATER	REG	5	N	N	3	2							
3	-----	---	---	Grab 1-042023-BSA Discharge	04-20-2023	1330	GW	WATER	REG	5	N	N	3	2							
4	-----	---	---	Grab 2-042023-BSA Discharge	04-20-2023	1530	GW	WATER	REG	5	N	N	3	2							
5	-----	---	---	Comp-042023-BSA Discharge	04-20-2023	1545	GW	WATER	REG	6	N	N			1	1	1	1	2		
6	-----	---	---	042023-TB	04-20-2023	---	TB	WQ	REG	2	N	N	2								
7																					
8																					
9																					
10																					
11																					
12																					

[redacted] For COC questions, contact sampler

Relinquished by	Company	Jacobs	Received by	Company		Condition		Custody Seals Intact
[signature]	Date/Time	04-21-23/1500	FEDEX	Date/Time		Cooler Temp.		
Relinquished by	Company		Received by	Company		Condition		Custody Seals Intact
FX	Date/Time	4/22/23 9:30	[signature]	Date/Time		Cooler Temp.		Lab Quote #
Preservatives: (Other; Specify):			0 (None); 1 (4 Deg C); 2 (4C HCl-Na2SO3 (pH<2)); 3 (4C HNO3); 4 (4C HNO3 (pH<2)); 5 (4C none); 6 (4CH2SO4pH<2)Na2S2O3); 7 (4CNaOH(pH>12)&AscAci); 8 (ASCACI); 9 (BrCl); 10 (DI H2O); 11 (EDTA); 12 (H2O); 13 (H2SO4 (pH<2)); 14 (H2SO4 (pH<2), 4 DegC); 15 (H3PO4); 16 (HCl); 17 (HCl (pH<2)); 18 (HCl (pH<2), 4 Deg C); 19 (HCL, 4 Deg C); 20 (HNO3 (pH<2)); 21 (HNO3 (pH<2), 4 Deg C); 22 (MCAA,Na2SO3); 23 (Methanol); 24 (Na2SO3); 25 (Na2SO4), 25 (Na3PO4); 27 (NaHSO4); 28 (NaOH); 29 (NaOH (pH>12)); 30 (NaOH (pH>12), 4 DegC); 31 (NaOH, Zn Acetate); 32 (Nitric Acid, 4 Deg C); 33 (Other); 34 (Zn Acetate); sp (Special);			FedEx Tracking #	2.0

5.1

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JD64357: Chain of Custody

Page 1 of 3

SGS Sample Receipt Summary

Job Number: JD64357 **Client:** HONEYWELL **Project:** BUFFALO ALLTIFT LANDFILL

Date / Time Received: 4/22/2023 9:30:00 AM **Delivery Method:** FED EX **Airbill #'s:** 5694 7372 7478

Cooler Temps (Raw Measured) °C: Cooler 1: (2.0);

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

Job Change Order: JD64357

Requested Date: 5/15/2023 **Received Date:** 4/22/2023

Account Name: Honeywell International Inc. OMM **Due Date:** 5/15/2023

Project Description: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Bu **Deliverable:** COMMBN

C/O Initiated By: JADON_SC **PM:** JBS **TAT (Days):** 6

==========

Sample #: JD64357-1 thru 4 **Dept:** ALL

Client ID: **TAT:** 6

Change: Please NO OUT data ofr AB625PPL and V624PPL and reissue the report and EDD.

==========

Sample #: JD64357-6 **Dept:** ALL

Client ID: 042023-TB **TAT:** 6

Change: Please NO OUT data for V624PPL and reissue the report and EDD.

==========

Above Changes Per: Benjamin Hendry **Date/Time:** 5/15/2023

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

JD64357: Chain of Custody

Page 3 of 3

QC Evaluation: Honeywell Limits

Job Number: JD64357
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 04/20/23

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 JD64357

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: JD64357
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP39253 Methods: EPA 245.1
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 04/26/23

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.034	.092	0.0065	<0.20

Associated samples MP39253: JD64357-5

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: JD64357
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP39253 Methods: EPA 245.1
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 04/26/23

Metal	JD64435-10 Original	MS	Spikelot HGPW3	% Rec	QC Limits
Mercury	0.0	2.1	2	105.0	70-130

Associated samples MP39253: JD64357-5

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: JD64357
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP39253 Methods: EPA 245.1
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 04/26/23

Metal	JD64435-10 Original	MSD	Spikelot HGPW3	% Rec	MSD RPD	QC Limit
Mercury	0.0	2.2	2	110.0	4.7	19

Associated samples MP39253: JD64357-5

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: JD64357
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP39253
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 04/26/23

Metal	BSP Result	Spikelot HGPW3	% Rec	QC Limits
Mercury	2.1	2	105.0	85-115

Associated samples MP39253: JD64357-5

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: JD64357
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP39263
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 04/27/23

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	27	77		
Antimony	6.0	2.2	4.1		
Arsenic	3.0	1.3	2.5		
Barium	200	1	17		
Beryllium	1.0	.2	.5		
Bismuth	20	2.1	4.8		
Boron	100	1	85		
Cadmium	3.0	.2	1.2		
Calcium	5000	7.7	130		
Cerium	100				
Chromium	10	.5	1.5		
Cobalt	50	.4	2.5		
Copper	10	6.8	4.1	-0.10	<10
Iron	100	15	30		
Lead	3.0	1.6	2.4		
Lithium	50	3.7	9.1		
Magnesium	5000	54	200		
Manganese	15	.1	2		
Molybdenum	20	.5	4.5		
Nickel	10	.3	1.8		
Phosphorus	50	1.8	14		
Potassium	10000	77	200		
Selenium	10	2	5.5		
Silicon	200	1.3	130		
Silver	10	.9	2.4		
Sodium	10000	23	900		
Strontium	10	.4	1.6		
Sulfur	50	4.1	18		
Thallium	10	1.6	1.9		
Tin	50	.9	4.7		
Titanium	10	.9	1.9		
Tungsten	50	2	19		
Vanadium	50	.8	2.3		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD64357
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP39263
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 04/27/23

Metal	RL	IDL	MDL	MB raw	final
Zinc	20	.2	8.5	4.1	<20
Zirconium	10	.5	4.9		

Associated samples MP39263: JD64357-5

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: JD64357
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP39263 Methods: EPA 200.7
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 04/27/23

Metal	JD64458-1 Original MS		Spikelot MP200.7A % Rec		QC Limits
Aluminum	anr				
Antimony					
Arsenic	anr				
Barium	anr				
Beryllium	anr				
Bismuth					
Boron	anr				
Cadmium	anr				
Cerium					
Chromium	anr				
Cobalt					
Copper	0.0	1850	2000	92.5	70-130
Iron	anr				
Lead	anr				
Lithium					
Magnesium					
Manganese	anr				
Molybdenum	anr				
Nickel	anr				
Phosphorus					
Potassium					
Selenium	anr				
Silicon					
Silver	anr				
Thallium	anr				
Tin					
Titanium					
Tungsten					
Vanadium	anr				
Zinc	4.6	1860	2000	92.8	70-130
Zirconium					

Associated samples MP39263: JD64357-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD64357
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP39263 Methods: EPA 200.7
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 04/27/23

	JD64458-1	Spikelot	QC
Metal	Original MS	MP200.7A % Rec	Limits

(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD64357
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP39263 Methods: EPA 200.7
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 04/27/23

Metal	JD64458-1 Original MSD		Spikelot MP200.7A % Rec		MSD RPD	QC Limit
Aluminum	anr					
Antimony						
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Bismuth						
Boron	anr					
Cadmium	anr					
Cerium						
Chromium	anr					
Cobalt						
Copper	0.0	1790	2000	89.5	3.3	10
Iron	anr					
Lead	anr					
Lithium						
Magnesium						
Manganese	anr					
Molybdenum	anr					
Nickel	anr					
Phosphorus						
Potassium						
Selenium	anr					
Silicon						
Silver	anr					
Thallium	anr					
Tin						
Titanium						
Tungsten						
Vanadium	anr					
Zinc	4.6	1810	2000	90.3	2.7	10
Zirconium						

Associated samples MP39263: JD64357-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD64357
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP39263 Methods: EPA 200.7
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 04/27/23

Metal	JD64458-1 Original MSD	Spikelot MP200.7A % Rec	MSD RPD	QC Limit

(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD64357
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP39263
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 04/27/23

Metal	BSP Result	Spikelot MP200.7A	% Rec	QC Limits
Aluminum	anr			
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Bismuth				
Boron	anr			
Cadmium	anr			
Calcium				
Cerium				
Chromium	anr			
Cobalt				
Copper	1800	2000	90.0	85-115
Iron	anr			
Lead	anr			
Lithium				
Magnesium				
Manganese	anr			
Molybdenum	anr			
Nickel	anr			
Phosphorus				
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Strontium				
Sulfur				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium	anr			

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD64357
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP39263
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 04/27/23

Metal	BSP Result	Spikelot MP200.7A	% Rec	QC Limits
Zinc	1930	2000	96.5	85-115
Zirconium				

Associated samples MP39263: JD64357-5

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

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD64357
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP39263 Methods: EPA 200.7
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 04/27/23

Metal	JD64458-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Bismuth				
Boron	anr			
Cadmium	anr			
Cerium				
Chromium	anr			
Cobalt				
Copper	0.00	0.00	NC	0-10
Iron	anr			
Lead	anr			
Lithium				
Magnesium				
Manganese	anr			
Molybdenum	anr			
Nickel	anr			
Phosphorus				
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Strontium				
Sulfur				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium	anr			
Zinc	4.60	28.8	526.1(a)	0-10

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD64357
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP39263 Methods: EPA 200.7
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 04/27/23

Metal	JD64458-1 Original SDL 1:5	%DIF	QC Limits
Zirconium			

Associated samples MP39263: JD64357-5

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).

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: JD64357
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	GP46436/GN40814	0.050	0.0	mg/l	0.4	0.38	95.0	80-120%
Solids, Total Suspended	GN40685	4.0	0.0	mg/l	50	48.8 mg/l	97.6	80-120%

Associated Samples:
Batch GN40685: JD64357-5
Batch GP46436: JD64357-5
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD64357
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	GP46436/GN40814	JD64340-1	mg/l	0.0	0.0	0.0	0-38%
Solids, Total Suspended	GN40685	JD64350-1	mg/l	3.4	3.4	0.0	0-10%
pH	GN40696	JD64280-1	su	7.30	7.31	0.1	0-10%

Associated Samples:
Batch GN40685: JD64357-5
Batch GN40696: JD64357-5
Batch GP46436: JD64357-5
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD64357
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	GP46436/GN40814	JD64340-1	mg/l	0.0	0.4	0.38	95.0	35-137%

Associated Samples:
Batch GP46436: JD64357-5
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Jacobs
1563 Willis Avenue
Syracuse, New York 13204
O +1 315 468 1663
www.jacobs.com

November 7, 2023

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
2023 Second Semi-Annual Report
BPDES Permit # 21-12-BU098

Dear Ms. Adams:

Enclosed please find the 2023 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 1,811,621 gallons. The flow was measured from a totalizing meter within the lift station at the Alltift Site from April 20, 2023 through September 15, 2023 for a total of 148 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 15, 2023. Four grab samples were collected over an evenly spaced workday period for VOC 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 on September 15, 2023. 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. The laboratory analytical report is provided as Attachment 2. If you have any questions or require additional information, please contact me at (315) 532-5608.

Sincerely,

Jacobs

John W. Formoza
Regional Manager

QC Review By: Michael Fay (Jacobs)

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

Table 1
Alltift Landfill/Ramco Steel Site
Second Semi-Annual Report for 2023
Discharge Monitoring Report

BSA Permit No. 21-12-BU098	
Sample Date:	September 15, 2023
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	7.47			SU	7.47	SU	5.0 - 12.0	SU	Yes
Copper	0.0046	J	0.01	mg/L	0.0005	lbs/day	7.68	lbs/day	Yes
Mercury	ND		0.0002	mg/L	ND	mg/l	0.0008	mg/l	Yes
Zinc	0.021		0.020	mg/L	0.0021	lbs/day	12	lbs/day	Yes
Total Suspended Solids	126.0		4.0	mg/L	126	mg/L	250	mg/L	Yes
Total Phosphorus	0.45		0.05	mg/L	0.5	mg/L	15.35	mg/L	Yes
USEPA Test Method 624	ND - 60.1			µg/L	Monitor Only				
USEPA Test Method 625	ND - 27.1			µg/L					
Total Flow (average)	8.50			gpm	12,241	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)	0	4/20/2023
Final Reading (pump station)	1811620.6	9/15/2023
Total Days in Period		148
Total Flow for Period	**1,811,621**	**gallons**
Average Flow for Period	**8.50**	**gpm**

Note: New flow meter installed on 4/20/2023

Prepared by, Date: Anil, 11/02/2023
Checked by, Date: Michael Fay, 11/07/2023

Attachment 1 - Flow Meter Readings

Buffalo Alltift Lift Station	
Date	**Totalizer Reading (gallons)**
4/20/2023	3752500
4/20/2023	0
5/4/2023	110522.3
6/29/2023	331087.4
7/26/2023	884410.8
8/9/2023	1156600
9/15/2023	1811620.6



wood.

N

0 200 400 Feet

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

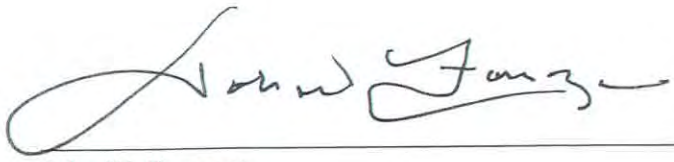
Figure 1
Permit Sample Location

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

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."



11-7-2023

John W. Formoza
Jacobs

Date

Jacobs

Well Sampling Form

Project Name: ~~BLUTIFF~~ LANDFILL
Location: 576 TIFFT ST, BUFFALO NY
Sampling Event: SEMI-ANNUAL
Job #:

Date: ~~09-16-2023~~ 09-15-23 DJT
Field Team: ~~DJT~~
Field Conditions: 70's, SUNNY

Well / Sample #: WET WELL
Initial DTW: 7.35
Purge Method (circle): N/A
~~Submersible~~ ~~Peristaltic~~ ~~Bed Pump~~ ~~Other:~~
Sample Method: BAILER

Start Time: 0930 End Time: 1700

Measure Point (circle):
PVC (Steel) Other:

Sample ID: MULTIPLE, SEE COC
~~Dup. Sample ID~~
QC Sample ID:
~~Depth to Bottom (from meas. pt. ft.)~~
~~Min. Purge Vol. (gal or L)~~
~~Purge Rate (gpm or mLpm)~~

Sample Time:
Dup. Time:
QC Time:

~~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.
0930 - CAL pH METER, SEE FIELD NOTES. FLOW METER: ~~#~~ 18116206								
1000 - GRAB 1-091523-BSA DISCHARGE SAMPLED:								
	7.12 PH	2.57 mS/cm	1.64 g/L	20.5°C				
	ADD 1 GAL TO WET WELL COMPOSITE.							
1200 -	GRAB 2-091523-BSA	DISCHARGE	SAMPLED:					
	6.92 PH	3.94 mS/cm	2.55 g/L	21.1°C				
	ADD 1 GAL. TO WET WELL COMPOSITE							
1400 -	GRAB 3-091523-BSA	DISCHARGE	SAMPLED:					
	6.92 PH	3.93 mS/cm	2.51 g/L	20.0°C				
	ADD 1 GAL TO SUMP COMPOSITE							
1600 -	GRAB 4-091523-BSA	DISCHARGE	SAMPLED:					
	6.86 PH	3.96 mS/cm	2.54 g/L	19.0°C				
	ADD 1 GAL TO SUMP COMPOSITE							
1615 - COMP-091523-BSA DISCHARGE SAMPLED.								

Sample Collection Information

Parameter	Bottle Type	Volume	Quantity	Preservative	Field Filtered(Y/N)	Sample Taken(Y/N)	Notes
4X VOC's	VOA	40mL	3	HCl	N	Y	
4X SVOCs	AMBER	1L	2	NONE	N	Y	
HG (TOTAL)	POLY	.5L	1	HNO_3	N	Y	
METALS	POLY	.5L	1	HNO_3	N	Y	
TPOH	POLY	.5L	1	N_2SO_4	N	Y	
pH (SM20 4500H)	POLY	.25L	1	NONE	N	Y	
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

HW PO#A001457165

SGS Job Number: JD72942

Sampling Date: 09/15/23



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: **89**

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 unless noted in the narrative, comments or footnotes.

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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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: JD72942

HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Project No: HW PO#A001457165

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD72942-1	09/15/23	10:00	BH	09/16/23	AQ	Ground Water	GRAB 1-091523-BSA DISCHARGE
JD72942-2	09/15/23	12:00	BH	09/16/23	AQ	Ground Water	GRAB 2-091523-BSA DISCHARGE
JD72942-3	09/15/23	14:00	BH	09/16/23	AQ	Ground Water	GRAB 3-091523-BSA DISCHARGE
JD72942-4	09/15/23	16:00	BH	09/16/23	AQ	Ground Water	GRAB 4-091523-BSA DISCHARGE
JD72942-5	09/15/23	16:15	BH	09/16/23	AQ	Ground Water	COMP-091523-BSA DISCHARGE
JD72942-6	09/15/23	16:15	BH	09/16/23	AQ	Trip Blank Water	TRIP BLANK
JD72942-7	09/15/23	16:00	BH	09/16/23	AQ	Ground Water	GRAB 1 THROUGH 4 COMPOSITE-091523-BSA DISCHARGE

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:**	JD72942
Site:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY	**Report Date**	9/26/2023 2:16:27 PM

On 09/16/2023, 6 sample(s), 1 Trip Blank(s), and 0 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 4.4 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of JD72942 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 EPA 624.1

Matrix: AQ **Batch ID:** VL10933

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD72885-1MS, JD72885-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- The matrix spike (MS) / matrix spike duplicate (MSD) recovery(s) of 2-Chloroethyl vinyl ether are outside control limits. Outside control limits due to acid preservation.
- The matrix spike (MS) / amatrix spike duplicate (MSD) recovery(s) of Benzene, Chlorobenzene, Toluene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- JD72942-6: 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:** VL10934

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD73014-2MS were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JD72942-7: 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:** OP49225B

- All samples were extracted 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.
- The blank spike (BS) / blank spike duplicate (BSD) recovery(s) of 2-Nitrophenol, 4,6-Dinitro-o-cresol, Benzidine are outside control limits.
- JD72942-1 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.This compound in BS/BSD are outside in house QC limits bias high.
- JD72942-1 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.This compound in BS/BSD are outside in house QC limits bias high.
- JD72942-1 for Hexachlorocyclopentadiene: Associated CCV outside of control limits high, sample was ND.
- JD72942-1 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD72942-1 for 2,4-Dinitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD72942-1 for Benzidine: Associated BS/BSD outside control limits.
- OP49225B-BS1 for 4,6-Dinitro-o-cresol: Outside of in house control limits.
- JD72942-1 for 2,6-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.This compound in BSD is outside in house QC limits bias high.
- OP49225B-BS1 for Benzidine: Outside of in house control limits.
- JD72942-4 for Terphenyl-d14: Outside control limits due to matrix interference. There's no sample left to reextract.
- JD72942-3 for Hexachlorocyclopentadiene: Associated CCV outside of control limits high, sample was ND.
- JD72942-4 for Hexachlorocyclopentadiene: Associated CCV outside of control limits high, sample was ND.
- JD72942-4 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.This compound in BS/BSD are outside in house QC limits bias high.
- OP49225B-BS1 for 2-Nitrophenol: Outside of in house control limits.
- JD72942-4 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.This compound in BS/BSD are outside in house QC limits bias high.
- JD72942-1 for Terphenyl-d14: Outside control limits due to matrix interference. There's no sample left to reextract.
- JD72942-4 for Benzidine: Associated BS/BSD outside control limits.
- JD72942-3 for Terphenyl-d14: Outside control limits due to matrix interference. There's no sample left to reextract.
- JD72942-3 for 2,6-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.This compound in BSD is outside in house QC limits bias high.
- JD72942-4 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD72942-3 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.This compound in BS/BSD are outside in house QC limits bias high.
- JD72942-4 for 2,4-Dinitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD72942-3 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD72942-2 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.This compound in BS/BSD are outside in house QC limits bias high.
- JD72942-2 for Benzidine: Associated BS/BSD outside control limits.
- JD72942-2 for 2,4-Dinitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD72942-3 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.This compound in BS/BSD are outside in house QC limits bias high.
- JD72942-2 for Hexachlorocyclopentadiene: Associated CCV outside of control limits high, sample was ND.
- JD72942-3 for 2,4-Dinitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD72942-2 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.This compound in BS/BSD are outside in house QC limits bias high.

MS Semi-volatiles By Method EPA 625.1

Matrix: AQ **Batch ID:** OP49225B

- JD72942-2 for 2,6-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.This compound in BSD is outside in house QC limits bias high.
- JD72942-2 for Terphenyl-d14: Outside control limits due to matrix interference. There's no sample left to reextract.
- JD72942-3 for Benzidine: Associated BS/BSD outside control limits.
- JD72942-4 for 2,6-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.This compound in BSD is outside in house QC limits bias high.
- JD72942-2 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.

Metals Analysis By Method EPA 200.7

Matrix: AQ **Batch ID:** MP42024

- 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) JD73016-1MS, JD73016-1MSD, JD73016-1SDL were used as the QC samples for the metals analysis.

Metals Analysis By Method EPA 245.1

Matrix: AQ **Batch ID:** MP42057

- 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) JD73157-1MS, JD73157-1MSD were used as the QC samples for the metals analysis.

General Chemistry By Method EPA 365.3

Matrix: AQ **Batch ID:** GP49346

- All samples were prepared 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) JD72907-6DUP, JD72907-6MS were used as the QC samples for the Phosphorus, Total analysis.

General Chemistry By Method SM2540 D-11/15

Matrix: AQ **Batch ID:** GN46202

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD73065-1DUP were used as the QC samples for the Solids, Total Suspended analysis.

General Chemistry By Method SM4500H+ B-11

Matrix: AQ **Batch ID:** GN46100

- Sample(s) JD72867-1ADUP were used as the QC samples for the pH analysis.
- JD72942-5 for pH: Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.4781 Deg. C

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.

Summary of Hits

Job Number: JD72942
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/15/23

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD72942-1	**GRAB 1-091523-BSA DISCHARGE**					
4-Chloroaniline		26.4	5.0	0.34	ug/l	EPA 625.1
JD72942-2	**GRAB 2-091523-BSA DISCHARGE**					
4-Chloroaniline		27.1	5.0	0.34	ug/l	EPA 625.1
JD72942-3	**GRAB 3-091523-BSA DISCHARGE**					
4-Chloroaniline		13.8	5.0	0.34	ug/l	EPA 625.1
1,4-Dichlorobenzene		0.62 J	1.0	0.17	ug/l	EPA 625.1
JD72942-4	**GRAB 4-091523-BSA DISCHARGE**					
4-Chloroaniline		22.3	5.0	0.34	ug/l	EPA 625.1
1,4-Dichlorobenzene		0.60 J	1.0	0.17	ug/l	EPA 625.1
JD72942-5	**COMP-091523-BSA DISCHARGE**					
Copper		4.6 J	10	4.1	ug/l	EPA 200.7
Zinc		21.0	20	8.5	ug/l	EPA 200.7
Phosphorus, Total		0.45	0.050	0.027	mg/l	EPA 365.3
Solids, Total Suspended		126	4.0	1.5	mg/l	SM2540 D-11/15
pH [a]		7.47			su	SM4500H+ B-11
JD72942-6	**TRIP BLANK**					
No hits reported in this sample.						
JD72942-7	**GRAB 1 THROUGH 4 COMPOSITE-091523-BSA DISCHARGE**					
Benzene [b]		3.7	1.0	0.71	ug/l	EPA 624.1
Chlorobenzene [b]		60.1	1.0	0.87	ug/l	EPA 624.1
1,4-Dichlorobenzene [b]		0.96 J	1.0	0.50	ug/l	EPA 624.1
cis-1,2-Dichloroethene [b]		6.6	1.0	0.51	ug/l	EPA 624.1
Vinyl chloride [b]		1.2	1.0	0.79	ug/l	EPA 624.1

(a) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.4781 Deg. C
(b) 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 1-091523-BSA DISCHARGE
Lab Sample ID: JD72942-1 **Date Sampled:** 09/15/23
Matrix: AQ - Ground Water **Date Received:** 09/16/23
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	F216451.D	1	09/21/23 22:47	KH	09/21/23 09:00	OP49225B	EF9580
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 [a]	ND	10	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol [b]	ND	5.0	1.3	ug/l	
88-75-5	2-Nitrophenol [b]	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 [c]	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	26.4	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	

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 1-091523-BSA DISCHARGE		
Lab Sample ID:	JD72942-1	**Date Sampled:**	09/15/23
Matrix:	AQ - Ground Water	**Date Received:**	09/16/23
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	ND	1.0	0.17	ug/l	
121-14-2	2,4-Dinitrotoluene [a]	ND	1.0	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene [d]	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 [a]	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	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	30%		10-110%
4165-62-2	Phenol-d5	20%		10-110%
118-79-6	2,4,6-Tribromophenol	73%		35-147%
4165-60-0	Nitrobenzene-d5	78%		32-132%
321-60-8	2-Fluorobiphenyl	60%		40-117%
1718-51-0	Terphenyl-d14	22% [e]		33-126%

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits high, sample was ND. This compound in BS/BSD are outside in house QC limits bias high.
(c) Associated BS/BSD outside control limits.

ND = Not detected MDL = Method Detection Limit
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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 1-091523-BSA DISCHARGE		
Lab Sample ID:	JD72942-1	**Date Sampled:**	09/15/23
Matrix:	AQ - Ground Water	**Date Received:**	09/16/23
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

(d) Associated CCV outside of control limits high, sample was ND. This compound in BSD is outside in house QC limits bias high.
(e) Outside control limits due to matrix interference. There's no sample left to reextract.

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 2-091523-BSA DISCHARGE		
Lab Sample ID:	JD72942-2	**Date Sampled:**	09/15/23
Matrix:	AQ - Ground Water	**Date Received:**	09/16/23
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	F216452.D	1	09/21/23 23:13	KH	09/21/23 09:00	OP49225B	EF9580
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 [a]	ND	10	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol [b]	ND	5.0	1.3	ug/l	
88-75-5	2-Nitrophenol [b]	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 [c]	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	27.1	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	

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 2-091523-BSA DISCHARGE		
Lab Sample ID:	JD72942-2	**Date Sampled:**	09/15/23
Matrix:	AQ - Ground Water	**Date Received:**	09/16/23
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	ND	1.0	0.17	ug/l	
121-14-2	2,4-Dinitrotoluene [a]	ND	1.0	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene [d]	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 [a]	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	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	33%		10-110%
4165-62-2	Phenol-d5	22%		10-110%
118-79-6	2,4,6-Tribromophenol	82%		35-147%
4165-60-0	Nitrobenzene-d5	85%		32-132%
321-60-8	2-Fluorobiphenyl	65%		40-117%
1718-51-0	Terphenyl-d14	20% [e]		33-126%

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits high, sample was ND. This compound in BS/BSD are outside in house QC limits bias high.
(c) Associated BS/BSD outside control limits.

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRAB 2-091523-BSA DISCHARGE		
Lab Sample ID:	JD72942-2	**Date Sampled:**	09/15/23
Matrix:	AQ - Ground Water	**Date Received:**	09/16/23
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

(d) Associated CCV outside of control limits high, sample was ND. This compound in BSD is outside in house QC limits bias high.
(e) Outside control limits due to matrix interference. There's no sample left to reextract.

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 3-091523-BSA DISCHARGE		
Lab Sample ID:	JD72942-3	**Date Sampled:**	09/15/23
Matrix:	AQ - Ground Water	**Date Received:**	09/16/23
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	F216453.D	1	09/21/23 23:39	KH	09/21/23 09:00	OP49225B	EF9580
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 [a]	ND	10	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol [b]	ND	5.0	1.3	ug/l	
88-75-5	2-Nitrophenol [b]	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 [c]	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	13.8	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	

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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 3-091523-BSA DISCHARGE		
Lab Sample ID:	JD72942-3	**Date Sampled:**	09/15/23
Matrix:	AQ - Ground Water	**Date Received:**	09/16/23
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	0.62	1.0	0.17	ug/l	J
121-14-2	2,4-Dinitrotoluene [a]	ND	1.0	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene [d]	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 [a]	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	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	31%		10-110%
4165-62-2	Phenol-d5	19%		10-110%
118-79-6	2,4,6-Tribromophenol	74%		35-147%
4165-60-0	Nitrobenzene-d5	75%		32-132%
321-60-8	2-Fluorobiphenyl	58%		40-117%
1718-51-0	Terphenyl-d14	19% [e]		33-126%

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits high, sample was ND. This compound in BS/BSD are outside in house QC limits bias high.
(c) Associated BS/BSD outside control limits.

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Report of Analysis

Client Sample ID:	GRAB 3-091523-BSA DISCHARGE		
Lab Sample ID:	JD72942-3	**Date Sampled:**	09/15/23
Matrix:	AQ - Ground Water	**Date Received:**	09/16/23
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

(d) Associated CCV outside of control limits high, sample was ND. This compound in BSD is outside in house QC limits bias high.
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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 4-091523-BSA DISCHARGE
Lab Sample ID: JD72942-4 **Date Sampled:** 09/15/23
Matrix: AQ - Ground Water **Date Received:** 09/16/23
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	F216454.D	1	09/22/23 00:05	KH	09/21/23 09:00	OP49225B	EF9580
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 [a]	ND	10	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol [b]	ND	5.0	1.3	ug/l	
88-75-5	2-Nitrophenol [b]	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 [c]	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	22.3	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	

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 4-091523-BSA DISCHARGE		
Lab Sample ID:	JD72942-4	**Date Sampled:**	09/15/23
Matrix:	AQ - Ground Water	**Date Received:**	09/16/23
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	0.60	1.0	0.17	ug/l	J
121-14-2	2,4-Dinitrotoluene [a]	ND	1.0	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene [d]	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 [a]	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	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	30%		10-110%
4165-62-2	Phenol-d5	21%		10-110%
118-79-6	2,4,6-Tribromophenol	73%		35-147%
4165-60-0	Nitrobenzene-d5	80%		32-132%
321-60-8	2-Fluorobiphenyl	63%		40-117%
1718-51-0	Terphenyl-d14	18% [e]		33-126%

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits high, sample was ND. This compound in BS/BSD are outside in house QC limits bias high.
(c) Associated BS/BSD outside control limits.

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 4-091523-BSA DISCHARGE		
Lab Sample ID:	JD72942-4	**Date Sampled:**	09/15/23
Matrix:	AQ - Ground Water	**Date Received:**	09/16/23
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

(d) Associated CCV outside of control limits high, sample was ND. This compound in BSD is outside in house QC limits bias high.
(e) Outside control limits due to matrix interference. There's no sample left to reextract.

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-091523-BSA DISCHARGE
Lab Sample ID: JD72942-5
Matrix: AQ - Ground Water
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Date Sampled: 09/15/23
Date Received: 09/16/23
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Copper	4.6 J	10	4.1	ug/l	1	09/21/23	09/23/23	ND	EPA 200.7 [2]	EPA 200.7 [3]
Mercury	ND	0.20	0.092	ug/l	1	09/22/23	09/22/23	LM	EPA 245.1 [1]	EPA 245.1 [4]
Zinc	21.0	20	8.5	ug/l	1	09/21/23	09/23/23	ND	EPA 200.7 [2]	EPA 200.7 [3]

(1) Instrument QC Batch: MA54806
(2) Instrument QC Batch: MA54816
(3) Prep QC Batch: MP42024
(4) Prep QC Batch: MP42057

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

Report of Analysis

Client Sample ID:	COMP-091523-BSA DISCHARGE		
Lab Sample ID:	JD72942-5	**Date Sampled:**	09/15/23
Matrix:	AQ - Ground Water	**Date Received:**	09/16/23
		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	0.45	0.050	0.027	mg/l	1	09/20/23 13:30	MP	EPA 365.3
Solids, Total Suspended	126	4.0	1.5	mg/l	1	09/20/23 17:10	AS	SM2540 D-11/15
pH [a]	7.47			su	1	09/18/23 12:56	MK	SM4500H+ B-11

(a) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.4781 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:	TRIP BLANK		
Lab Sample ID:	JD72942-6	**Date Sampled:**	09/15/23
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/16/23
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]	L359041.D	1	09/20/23 00:43	NW	n/a	n/a	VL10933
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	0.71	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.94	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	0.87	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	0.98	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.91	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	0.96	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	0.96	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	0.93	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.84	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	0.73	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.77	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:	TRIP BLANK		
Lab Sample ID:	JD72942-6	**Date Sampled:**	09/15/23
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/16/23
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	0.76	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	87%		80-128%
2037-26-5	Toluene-D8 (SUR)	104%		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	94%		79-117%
1868-53-7	Dibromofluoromethane (S)	105%		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

Report of Analysis

Client Sample ID:	GRAB 1 THROUGH 4 COMPOSITE-091523-BSA DISCHARGE		
Lab Sample ID:	JD72942-7	**Date Sampled:**	09/15/23
Matrix:	AQ - Ground Water	**Date Received:**	09/16/23
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]	L359079.D	1	09/20/23 20:22	NW	n/a	n/a	VL10934
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	3.7	1.0	0.71	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.94	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	60.1	1.0	0.87	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	0.98	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.91	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	0.96	1.0	0.50	ug/l	J
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	0.96	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.45	ug/l	
156-59-2	cis-1,2-Dichloroethene	6.6	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	0.96	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	0.93	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.84	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	0.73	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.77	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 THROUGH 4 COMPOSITE-091523-BSA DISCHARGE		
Lab Sample ID:	JD72942-7	**Date Sampled:**	09/15/23
Matrix:	AQ - Ground Water	**Date Received:**	09/16/23
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	1.2	1.0	0.79	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.76	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)	94%		79-117%
1868-53-7	Dibromofluoromethane (S)	107%		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: JD72942
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

SGS Laboratories 2235 Route 130 Dayton, NJ 08810 (732) 239-0200		**Honeywell** Chain of Custody / Analysis Request	
Sampling Co.:	Jacobs	Pricing Source (RFP, eAuction, etc)	RFP2019
		Email of person receiving EDD	EQUIS
Reporting Information (DocuSign First Signer)	Name: Jacobs	Sampler(s) names	Benjamin Hendry - 315 806-4624
	Address: 1563 Willis Ave	PO #	HW PO # A001457165
	City, State, Zip: Syracuse, NY 13204	Analysis Turnaround Time (calendar days):	Standard TAT
	Contact email: [illegible]	Consultant	Jacobs
Billing Information (DocuSign Second Signer)	Co. Name: Honeywell	Laboratory Contact	Jadon Schiller
	Address: 301 Plainfield Road, Suite 330	Report Tier Level	2
	City, State, Zip: Syracuse, NY 13202	Full Report and EDD TAT (calendar days)	Standard TAT
	HW RM email: [illegible]	Honeywell RM Name	Shane Blauvelt (SRB)

Save with QC Check Gray Cells Required	More Columns / Less Columns	Print Short COC / Print Expanded COC	
HW Site Name	Buffalo Alltift Landfill	Task Type	OM&M
Location of Site	579 Tifft Street, Buffalo NY	WBS Code	6400

AESI Ref:	45183.65862
COC#	Alltift - 091523
	Page 1 of 1
Lab Proj # (SDG):	JD72942
Lab Location ID	ACTD
HW Site R-Code	R31030
Sampling Program	Semi-Annual
Authorized User:	Honeywell
Lab Parent ID	SGS
Text & Excel File Drive	Excel & Text File Order
Create Excel Output	
Create Text Output	

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Sample Identification

	#	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Medium	# of Cont.	Composite (Y, N)	Field Filtered Sample (Y, N)	Analysis 1 (Preservative 18) mg/l	Analysis 2 (Preservative 1) mg/l	Analysis 3 (Preservative 21) mg/l	Analysis 4 (Preservative 21) mg/l	Analysis 5 (Preservative 14)	Analysis 6 (Preservative 1)	TSS - Total Suspended Solids (Preservative 1)	Sampling Method (rt_sample_method)	Lab Sample Numbers
1	1	Wet Well	—	—	Grab 1-091523-BSA Discharge	09-15-2023	1000	GW	WATER	REG	5	N	N	3	2							A20
2	2	Wet Well	—	—	Grab 2-091523-BSA Discharge	09-15-2023	1200	GW	WATER	REG	5	N	N	3	2							C37
3	3	Wet Well	—	—	Grab 3-091523-BSA Discharge	09-15-2023	1400	GW	WATER	REG	5	N	N	3	2							G62 T3
4	4	Wet Well	—	—	Grab 4-091523-BSA Discharge	09-15-2023	1600	GW	WATER	REG	5	N	N	3	2							
5	5	Wet Well	—	—	COMP-091523-BSA Discharge	09-15-2023	1615	GW	WATER	REG	6	Y	N			1	1	1	1	2		E100
6	6	N/A	—	—	Trip Blank	09-15-2023	--	WQ	WATER	TB	2	N	N	2	✓							V860
	7																					
	8																					
	9																					
	10																					
	11																					
	12																					

☆ VOC GRABS 1-4 MUST BE COMPOSITED BEFORE ANALYSIS ☆

For COC questions, contact sampler

Relinquished by	Company	Jacobs	Received by	Company		Condition		Custody Seals Intact	
[signature]	Date/Time	09-15-23/1650	FEDEX	Date/Time		Cooler Temp			
Relinquished by	Company		Received by	Company		Condition		Custody Seals Intact	
FEDEX	Date/Time	9/16/23 11:20	[signature]	Date/Time		Cooler Temp	4.7 IR-46	Lab Quote #	
Preservatives: (Other; Specify):	Initial Assessment 2BHR Label Verification ____	0 (None); 1 (4 Deg C); 2 (4C HCl-Na2SO3 (pH<2)); 3 (4C HNO3); 4 (4C HNO3 (pH<2)); 5 (4C none); 6 (4CH2SO4pH<2)Na2S2O3); 7 (4CNaOH(pH>12)&AscAcid); 8 (ASCACI); 9 (BrO); 10 (DI H2O); 11 (EDTA); 12 (H2O); 13 (H2SO4 (pH<2)); 14 (H2SO4 (pH<2) 4 DegC); 15 (H3PO4); 16 (HCl); 17 (HCl (pH<2)); 18 (HCl (pH<2) 4 Deg C); 19 (HCL 4 Deg C); 20 (HNO3 (pH<2)); 21 (HNO3 (pH<2) 4 Deg C); 22 (MCAA Na2SO3); 23 (Methanol); 24 (Na2SO3); 25 (Na2SO4); 26 (Na3PO4); 27 (NaHSO4); 28 (NaOH); 29 (NaOH (pH>12)); 30 (NaOH (pH>12) 4 DegC); 31 (NaOH Zn Acetate); 32 (Nitric Acid 4 Deg C); 33 (Other); 34 (Zn Acetate); sp (Special)						FedEx Tracking #	

5.2

5

JD72942: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: JD72942 **Client:** HONEYWELL **Project:** BUFFALO ALLTIFT LANDFILL

Date / Time Received: 9/16/2023 11:20:00 AM **Delivery Method:** FED EX **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (4.7);

Cooler Temps (Corrected) °C: Cooler 1: (4.4);

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 40		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservatio	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: JD72942
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/15/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
VL10933	EPA 624.1						
VL10933-BS	107-02-8	Acrolein	BSP	REC	134	%	70-130
VL10933-BS	107-13-1	Acrylonitrile	BSP	REC	122	%	70-130
VL10933-BS	71-43-2	Benzene	BSP	REC	98	%	70-130
VL10933-BS	75-27-4	Bromodichloromethane	BSP	REC	98	%	70-130
VL10933-BS	75-25-2	Bromoform	BSP	REC	103	%	70-130
VL10933-BS	74-83-9	Bromomethane	BSP	REC	116	%	70-130
VL10933-BS	56-23-5	Carbon tetrachloride	BSP	REC	101	%	70-130
VL10933-BS	108-90-7	Chlorobenzene	BSP	REC	103	%	70-130
VL10933-BS	75-00-3	Chloroethane	BSP	REC	119	%	70-130
VL10933-BS	110-75-8	2-Chloroethyl vinyl ether	BSP	REC	77	%	70-130
VL10933-BS	67-66-3	Chloroform	BSP	REC	105	%	70-130
VL10933-BS	74-87-3	Chloromethane	BSP	REC	99	%	70-130
VL10933-BS	124-48-1	Dibromochloromethane	BSP	REC	101	%	70-130
VL10933-BS	95-50-1	1,2-Dichlorobenzene	BSP	REC	93	%	70-130
VL10933-BS	541-73-1	1,3-Dichlorobenzene	BSP	REC	94	%	70-130
VL10933-BS	106-46-7	1,4-Dichlorobenzene	BSP	REC	97	%	70-130
VL10933-BS	75-71-8	Dichlorodifluoromethane	BSP	REC	101	%	70-130
VL10933-BS	75-34-3	1,1-Dichloroethane	BSP	REC	111	%	70-130
VL10933-BS	107-06-2	1,2-Dichloroethane	BSP	REC	89	%	70-130
VL10933-BS	75-35-4	1,1-Dichloroethene	BSP	REC	97	%	70-130
VL10933-BS	156-59-2	cis-1,2-Dichloroethene	BSP	REC	111	%	70-130
VL10933-BS	156-60-5	trans-1,2-Dichloroethene	BSP	REC	107	%	70-130
VL10933-BS	78-87-5	1,2-Dichloropropane	BSP	REC	99	%	70-130
VL10933-BS	10061-01-5	cis-1,3-Dichloropropene	BSP	REC	99	%	70-130
VL10933-BS	10061-02-6	trans-1,3-Dichloropropene	BSP	REC	95	%	70-130
VL10933-BS	100-41-4	Ethylbenzene	BSP	REC	101	%	70-130
VL10933-BS	75-09-2	Methylene chloride	BSP	REC	107	%	70-130
VL10933-BS	79-34-5	1,1,2,2-Tetrachloroethane	BSP	REC	107	%	70-130
VL10933-BS	127-18-4	Tetrachloroethene	BSP	REC	106	%	70-130
VL10933-BS	108-88-3	Toluene	BSP	REC	104	%	70-130
VL10933-BS	71-55-6	1,1,1-Trichloroethane	BSP	REC	103	%	70-130
VL10933-BS	79-00-5	1,1,2-Trichloroethane	BSP	REC	112	%	70-130
VL10933-BS	79-01-6	Trichloroethene	BSP	REC	94	%	70-130
VL10933-BS	75-69-4	Trichlorofluoromethane	BSP	REC	117	%	70-130
VL10933-BS	75-01-4	Vinyl chloride	BSP	REC	116	%	70-130
VL10933-BS	1330-20-7	Xylenes (total)	BSP	REC	104	%	70-130
VL10933-BS	17060-07-0	1,2-Dichloroethane-D4 (SUR)	BSP	SURR	85	%	70-130
VL10933-BS	2037-26-5	Toluene-D8 (SUR)	BSP	SURR	95	%	70-130
VL10933-BS	460-00-4	4-Bromofluorobenzene (SUR)	BSP	SURR	95	%	70-130
VL10933-BS	1868-53-7	Dibromofluoromethane (S)	BSP	SURR	105	%	70-130
JD72885-1MS*	107-02-8	Acrolein	MS	REC	128	%	70-130
JD72885-1MS*	107-13-1	Acrylonitrile	MS	REC	117	%	70-130

* Sample used for QC is not from job JD72942

QC Evaluation: Honeywell Limits

Job Number: JD72942
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/15/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD72885-1MS*	71-43-2	Benzene	MS	REC	-46 [a]	%	70-130
JD72885-1MS*	75-27-4	Bromodichloromethane	MS	REC	98	%	70-130
JD72885-1MS*	75-25-2	Bromoform	MS	REC	98	%	70-130
JD72885-1MS*	74-83-9	Bromomethane	MS	REC	96	%	70-130
JD72885-1MS*	56-23-5	Carbon tetrachloride	MS	REC	99	%	70-130
JD72885-1MS*	108-90-7	Chlorobenzene	MS	REC	9 [a]	%	70-130
JD72885-1MS*	75-00-3	Chloroethane	MS	REC	117	%	70-130
JD72885-1MS*	110-75-8	2-Chloroethyl vinyl ether	MS	REC	0 [b]	%	70-130
JD72885-1MS*	67-66-3	Chloroform	MS	REC	103	%	70-130
JD72885-1MS*	74-87-3	Chloromethane	MS	REC	94	%	70-130
JD72885-1MS*	124-48-1	Dibromochloromethane	MS	REC	99	%	70-130
JD72885-1MS*	95-50-1	1,2-Dichlorobenzene	MS	REC	86	%	70-130
JD72885-1MS*	541-73-1	1,3-Dichlorobenzene	MS	REC	91	%	70-130
JD72885-1MS*	106-46-7	1,4-Dichlorobenzene	MS	REC	76	%	70-130
JD72885-1MS*	75-71-8	Dichlorodifluoromethane	MS	REC	94	%	70-130
JD72885-1MS*	75-34-3	1,1-Dichloroethane	MS	REC	108	%	70-130
JD72885-1MS*	107-06-2	1,2-Dichloroethane	MS	REC	94	%	70-130
JD72885-1MS*	75-35-4	1,1-Dichloroethene	MS	REC	96	%	70-130
JD72885-1MS*	156-59-2	cis-1,2-Dichloroethene	MS	REC	107	%	70-130
JD72885-1MS*	156-60-5	trans-1,2-Dichloroethene	MS	REC	105	%	70-130
JD72885-1MS*	78-87-5	1,2-Dichloropropane	MS	REC	98	%	70-130
JD72885-1MS*	10061-01-5	cis-1,3-Dichloropropene	MS	REC	102	%	70-130
JD72885-1MS*	10061-02-6	trans-1,3-Dichloropropene	MS	REC	89	%	70-130
JD72885-1MS*	100-41-4	Ethylbenzene	MS	REC	88	%	70-130
JD72885-1MS*	75-09-2	Methylene chloride	MS	REC	106	%	70-130
JD72885-1MS*	79-34-5	1,1,2,2-Tetrachloroethane	MS	REC	100	%	70-130
JD72885-1MS*	127-18-4	Tetrachloroethene	MS	REC	102	%	70-130
JD72885-1MS*	108-88-3	Toluene	MS	REC	6 [a]	%	70-130
JD72885-1MS*	71-55-6	1,1,1-Trichloroethane	MS	REC	102	%	70-130
JD72885-1MS*	79-00-5	1,1,2-Trichloroethane	MS	REC	107	%	70-130
JD72885-1MS*	79-01-6	Trichloroethene	MS	REC	95	%	70-130
JD72885-1MS*	75-69-4	Trichlorofluoromethane	MS	REC	112	%	70-130
JD72885-1MS*	75-01-4	Vinyl chloride	MS	REC	111	%	70-130
JD72885-1MS*	1330-20-7	Xylenes (total)	MS	REC	73	%	70-130
JD72885-1MS*	17060-07-0	1,2-Dichloroethane-D4 (SUR)	MS	SURR	90	%	70-130
JD72885-1MS*	2037-26-5	Toluene-D8 (SUR)	MS	SURR	96	%	70-130
JD72885-1MS*	460-00-4	4-Bromofluorobenzene (SUR)	MS	SURR	95	%	70-130
JD72885-1MS*	1868-53-7	Dibromofluoromethane (S)	MS	SURR	107	%	70-130
JD72885-1MSD*	107-02-8	Acrolein	MSD	REC	121	%	70-130
JD72885-1MSD*	107-02-8	Acrolein	MSD	RPD	6	%	30
JD72885-1MSD*	107-13-1	Acrylonitrile	MSD	REC	117	%	70-130
JD72885-1MSD*	107-13-1	Acrylonitrile	MSD	RPD	0	%	30
JD72885-1MSD*	71-43-2	Benzene	MSD	REC	-50 [a]	%	70-130
JD72885-1MSD*	71-43-2	Benzene	MSD	RPD	0	%	30
JD72885-1MSD*	75-27-4	Bromodichloromethane	MSD	REC	100	%	70-130

* Sample used for QC is not from job JD72942

QC Evaluation: Honeywell Limits

Job Number: JD72942
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/15/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD72885-1MSD*	75-27-4	Bromodichloromethane	MSD	RPD	2	%	30
JD72885-1MSD*	75-25-2	Bromoform	MSD	REC	100	%	70-130
JD72885-1MSD*	75-25-2	Bromoform	MSD	RPD	2	%	30
JD72885-1MSD*	74-83-9	Bromomethane	MSD	REC	103	%	70-130
JD72885-1MSD*	74-83-9	Bromomethane	MSD	RPD	7	%	30
JD72885-1MSD*	56-23-5	Carbon tetrachloride	MSD	REC	101	%	70-130
JD72885-1MSD*	56-23-5	Carbon tetrachloride	MSD	RPD	2	%	30
JD72885-1MSD*	108-90-7	Chlorobenzene	MSD	REC	19 [a]	%	70-130
JD72885-1MSD*	108-90-7	Chlorobenzene	MSD	RPD	1	%	30
JD72885-1MSD*	75-00-3	Chloroethane	MSD	REC	118	%	70-130
JD72885-1MSD*	75-00-3	Chloroethane	MSD	RPD	1	%	30
JD72885-1MSD*	110-75-8	2-Chloroethyl vinyl ether	MSD	REC	0 [b]	%	70-130
JD72885-1MSD*	110-75-8	2-Chloroethyl vinyl ether	MSD	RPD	0	%	30
JD72885-1MSD*	67-66-3	Chloroform	MSD	REC	104	%	70-130
JD72885-1MSD*	67-66-3	Chloroform	MSD	RPD	1	%	30
JD72885-1MSD*	74-87-3	Chloromethane	MSD	REC	97	%	70-130
JD72885-1MSD*	74-87-3	Chloromethane	MSD	RPD	3	%	30
JD72885-1MSD*	124-48-1	Dibromochloromethane	MSD	REC	102	%	70-130
JD72885-1MSD*	124-48-1	Dibromochloromethane	MSD	RPD	3	%	30
JD72885-1MSD*	95-50-1	1,2-Dichlorobenzene	MSD	REC	97	%	70-130
JD72885-1MSD*	95-50-1	1,2-Dichlorobenzene	MSD	RPD	3	%	30
JD72885-1MSD*	541-73-1	1,3-Dichlorobenzene	MSD	REC	97	%	70-130
JD72885-1MSD*	541-73-1	1,3-Dichlorobenzene	MSD	RPD	5	%	30
JD72885-1MSD*	106-46-7	1,4-Dichlorobenzene	MSD	REC	87	%	70-130
JD72885-1MSD*	106-46-7	1,4-Dichlorobenzene	MSD	RPD	2	%	30
JD72885-1MSD*	75-71-8	Dichlorodifluoromethane	MSD	REC	96	%	70-130
JD72885-1MSD*	75-71-8	Dichlorodifluoromethane	MSD	RPD	3	%	30
JD72885-1MSD*	75-34-3	1,1-Dichloroethane	MSD	REC	110	%	70-130
JD72885-1MSD*	75-34-3	1,1-Dichloroethane	MSD	RPD	2	%	30
JD72885-1MSD*	107-06-2	1,2-Dichloroethane	MSD	REC	97	%	70-130
JD72885-1MSD*	107-06-2	1,2-Dichloroethane	MSD	RPD	3	%	30
JD72885-1MSD*	75-35-4	1,1-Dichloroethene	MSD	REC	97	%	70-130
JD72885-1MSD*	75-35-4	1,1-Dichloroethene	MSD	RPD	1	%	30
JD72885-1MSD*	156-59-2	cis-1,2-Dichloroethene	MSD	REC	110	%	70-130
JD72885-1MSD*	156-59-2	cis-1,2-Dichloroethene	MSD	RPD	3	%	30
JD72885-1MSD*	156-60-5	trans-1,2-Dichloroethene	MSD	REC	106	%	70-130
JD72885-1MSD*	156-60-5	trans-1,2-Dichloroethene	MSD	RPD	1	%	30
JD72885-1MSD*	78-87-5	1,2-Dichloropropane	MSD	REC	103	%	70-130
JD72885-1MSD*	78-87-5	1,2-Dichloropropane	MSD	RPD	5	%	30
JD72885-1MSD*	10061-01-5	cis-1,3-Dichloropropene	MSD	REC	105	%	70-130
JD72885-1MSD*	10061-01-5	cis-1,3-Dichloropropene	MSD	RPD	3	%	30
JD72885-1MSD*	10061-02-6	trans-1,3-Dichloropropene	MSD	REC	92	%	70-130
JD72885-1MSD*	10061-02-6	trans-1,3-Dichloropropene	MSD	RPD	4	%	30
JD72885-1MSD*	100-41-4	Ethylbenzene	MSD	REC	90	%	70-130
JD72885-1MSD*	100-41-4	Ethylbenzene	MSD	RPD	2	%	30

* Sample used for QC is not from job JD72942

QC Evaluation: Honeywell Limits

Job Number: JD72942
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/15/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD72885-1MSD*	75-09-2	Methylene chloride	MSD	REC	108	%	70-130
JD72885-1MSD*	75-09-2	Methylene chloride	MSD	RPD	2	%	30
JD72885-1MSD*	79-34-5	1,1,2,2-Tetrachloroethane	MSD	REC	102	%	70-130
JD72885-1MSD*	79-34-5	1,1,2,2-Tetrachloroethane	MSD	RPD	2	%	30
JD72885-1MSD*	127-18-4	Tetrachloroethene	MSD	REC	105	%	70-130
JD72885-1MSD*	127-18-4	Tetrachloroethene	MSD	RPD	3	%	30
JD72885-1MSD*	108-88-3	Toluene	MSD	REC	18 [a]	%	70-130
JD72885-1MSD*	108-88-3	Toluene	MSD	RPD	2	%	30
JD72885-1MSD*	71-55-6	1,1,1-Trichloroethane	MSD	REC	103	%	70-130
JD72885-1MSD*	71-55-6	1,1,1-Trichloroethane	MSD	RPD	1	%	30
JD72885-1MSD*	79-00-5	1,1,2-Trichloroethane	MSD	REC	107	%	70-130
JD72885-1MSD*	79-00-5	1,1,2-Trichloroethane	MSD	RPD	0	%	30
JD72885-1MSD*	79-01-6	Trichloroethene	MSD	REC	98	%	70-130
JD72885-1MSD*	79-01-6	Trichloroethene	MSD	RPD	3	%	30
JD72885-1MSD*	75-69-4	Trichlorofluoromethane	MSD	REC	113	%	70-130
JD72885-1MSD*	75-69-4	Trichlorofluoromethane	MSD	RPD	1	%	30
JD72885-1MSD*	75-01-4	Vinyl chloride	MSD	REC	110	%	70-130
JD72885-1MSD*	75-01-4	Vinyl chloride	MSD	RPD	1	%	30
JD72885-1MSD*	1330-20-7	Xylenes (total)	MSD	REC	80	%	70-130
JD72885-1MSD*	1330-20-7	Xylenes (total)	MSD	RPD	3	%	30
JD72885-1MSD*	17060-07-0	1,2-Dichloroethane-D4 (SUR)	MSD	SURR	88	%	70-130
JD72885-1MSD*	2037-26-5	Toluene-D8 (SUR)	MSD	SURR	98	%	70-130
JD72885-1MSD*	460-00-4	4-Bromofluorobenzene (SUR)	MSD	SURR	96	%	70-130
JD72885-1MSD*	1868-53-7	Dibromofluoromethane (S)	MSD	SURR	107	%	70-130
VL10933-MB	17060-07-0	1,2-Dichloroethane-D4 (SUR)	MB	SURR	90	%	70-130
VL10933-MB	2037-26-5	Toluene-D8 (SUR)	MB	SURR	103	%	70-130
VL10933-MB	460-00-4	4-Bromofluorobenzene (SUR)	MB	SURR	94	%	70-130
VL10933-MB	1868-53-7	Dibromofluoromethane (S)	MB	SURR	107	%	70-130
JD72942-6	17060-07-0	1,2-Dichloroethane-D4 (SUR)	SAMP	SURR	87	%	70-130
JD72942-6	2037-26-5	Toluene-D8 (SUR)	SAMP	SURR	104	%	70-130
JD72942-6	460-00-4	4-Bromofluorobenzene (SUR)	SAMP	SURR	94	%	70-130
JD72942-6	1868-53-7	Dibromofluoromethane (S)	SAMP	SURR	105	%	70-130
VL10934	EPA 624.1						
VL10934-BS	107-02-8	Acrolein	BSP	REC	135	%	70-130
VL10934-BS	107-13-1	Acrylonitrile	BSP	REC	116	%	70-130
VL10934-BS	71-43-2	Benzene	BSP	REC	95	%	70-130
VL10934-BS	75-27-4	Bromodichloromethane	BSP	REC	95	%	70-130
VL10934-BS	75-25-2	Bromoform	BSP	REC	99	%	70-130
VL10934-BS	74-83-9	Bromomethane	BSP	REC	108	%	70-130
VL10934-BS	56-23-5	Carbon tetrachloride	BSP	REC	92	%	70-130
VL10934-BS	108-90-7	Chlorobenzene	BSP	REC	97	%	70-130
VL10934-BS	75-00-3	Chloroethane	BSP	REC	109	%	70-130
VL10934-BS	110-75-8	2-Chloroethyl vinyl ether	BSP	REC	62	%	70-130

* Sample used for QC is not from job JD72942

QC Evaluation: Honeywell Limits

Job Number: JD72942
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/15/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
VL10934-BS	67-66-3	Chloroform	BSP	REC	99	%	70-130
VL10934-BS	74-87-3	Chloromethane	BSP	REC	91	%	70-130
VL10934-BS	124-48-1	Dibromochloromethane	BSP	REC	97	%	70-130
VL10934-BS	95-50-1	1,2-Dichlorobenzene	BSP	REC	88	%	70-130
VL10934-BS	541-73-1	1,3-Dichlorobenzene	BSP	REC	88	%	70-130
VL10934-BS	106-46-7	1,4-Dichlorobenzene	BSP	REC	92	%	70-130
VL10934-BS	75-71-8	Dichlorodifluoromethane	BSP	REC	95	%	70-130
VL10934-BS	75-34-3	1,1-Dichloroethane	BSP	REC	105	%	70-130
VL10934-BS	107-06-2	1,2-Dichloroethane	BSP	REC	87	%	70-130
VL10934-BS	75-35-4	1,1-Dichloroethene	BSP	REC	95	%	70-130
VL10934-BS	156-59-2	cis-1,2-Dichloroethene	BSP	REC	102	%	70-130
VL10934-BS	156-60-5	trans-1,2-Dichloroethene	BSP	REC	100	%	70-130
VL10934-BS	78-87-5	1,2-Dichloropropane	BSP	REC	96	%	70-130
VL10934-BS	10061-01-5	cis-1,3-Dichloropropene	BSP	REC	99	%	70-130
VL10934-BS	10061-02-6	trans-1,3-Dichloropropene	BSP	REC	91	%	70-130
VL10934-BS	100-41-4	Ethylbenzene	BSP	REC	96	%	70-130
VL10934-BS	75-09-2	Methylene chloride	BSP	REC	105	%	70-130
VL10934-BS	79-34-5	1,1,2,2-Tetrachloroethane	BSP	REC	99	%	70-130
VL10934-BS	127-18-4	Tetrachloroethene	BSP	REC	103	%	70-130
VL10934-BS	108-88-3	Toluene	BSP	REC	99	%	70-130
VL10934-BS	71-55-6	1,1,1-Trichloroethane	BSP	REC	97	%	70-130
VL10934-BS	79-00-5	1,1,2-Trichloroethane	BSP	REC	106	%	70-130
VL10934-BS	79-01-6	Trichloroethene	BSP	REC	92	%	70-130
VL10934-BS	75-69-4	Trichlorofluoromethane	BSP	REC	107	%	70-130
VL10934-BS	75-01-4	Vinyl chloride	BSP	REC	105	%	70-130
VL10934-BS	1330-20-7	Xylenes (total)	BSP	REC	98	%	70-130
VL10934-BS	17060-07-0	1,2-Dichloroethane-D4 (SUR)	BSP	SURR	87	%	70-130
VL10934-BS	2037-26-5	Toluene-D8 (SUR)	BSP	SURR	96	%	70-130
VL10934-BS	460-00-4	4-Bromofluorobenzene (SUR)	BSP	SURR	92	%	70-130
VL10934-BS	1868-53-7	Dibromofluoromethane (S)	BSP	SURR	103	%	70-130
VL10934-BSD	107-02-8	Acrolein	BSD	REC	136	%	70-130
VL10934-BSD	107-02-8	Acrolein	BSD	RPD	1	%	30
VL10934-BSD	107-13-1	Acrylonitrile	BSD	REC	112	%	70-130
VL10934-BSD	107-13-1	Acrylonitrile	BSD	RPD	4	%	30
VL10934-BSD	71-43-2	Benzene	BSD	REC	94	%	70-130
VL10934-BSD	71-43-2	Benzene	BSD	RPD	2	%	30
VL10934-BSD	75-27-4	Bromodichloromethane	BSD	REC	93	%	70-130
VL10934-BSD	75-27-4	Bromodichloromethane	BSD	RPD	2	%	30
VL10934-BSD	75-25-2	Bromoform	BSD	REC	99	%	70-130
VL10934-BSD	75-25-2	Bromoform	BSD	RPD	1	%	30
VL10934-BSD	74-83-9	Bromomethane	BSD	REC	113	%	70-130
VL10934-BSD	74-83-9	Bromomethane	BSD	RPD	5	%	30
VL10934-BSD	56-23-5	Carbon tetrachloride	BSD	REC	93	%	70-130
VL10934-BSD	56-23-5	Carbon tetrachloride	BSD	RPD	1	%	30
VL10934-BSD	108-90-7	Chlorobenzene	BSD	REC	97	%	70-130

* Sample used for QC is not from job JD72942

QC Evaluation: Honeywell Limits

Job Number: JD72942
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/15/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
VL10934-BSD	108-90-7	Chlorobenzene	BSD	RPD	0	%	30
VL10934-BSD	75-00-3	Chloroethane	BSD	REC	108	%	70-130
VL10934-BSD	75-00-3	Chloroethane	BSD	RPD	1	%	30
VL10934-BSD	110-75-8	2-Chloroethyl vinyl ether	BSD	REC	63	%	70-130
VL10934-BSD	110-75-8	2-Chloroethyl vinyl ether	BSD	RPD	2	%	30
VL10934-BSD	67-66-3	Chloroform	BSD	REC	98	%	70-130
VL10934-BSD	67-66-3	Chloroform	BSD	RPD	1	%	30
VL10934-BSD	74-87-3	Chloromethane	BSD	REC	89	%	70-130
VL10934-BSD	74-87-3	Chloromethane	BSD	RPD	2	%	30
VL10934-BSD	124-48-1	Dibromochloromethane	BSD	REC	95	%	70-130
VL10934-BSD	124-48-1	Dibromochloromethane	BSD	RPD	3	%	30
VL10934-BSD	95-50-1	1,2-Dichlorobenzene	BSD	REC	89	%	70-130
VL10934-BSD	95-50-1	1,2-Dichlorobenzene	BSD	RPD	1	%	30
VL10934-BSD	541-73-1	1,3-Dichlorobenzene	BSD	REC	89	%	70-130
VL10934-BSD	541-73-1	1,3-Dichlorobenzene	BSD	RPD	1	%	30
VL10934-BSD	106-46-7	1,4-Dichlorobenzene	BSD	REC	94	%	70-130
VL10934-BSD	106-46-7	1,4-Dichlorobenzene	BSD	RPD	2	%	30
VL10934-BSD	75-71-8	Dichlorodifluoromethane	BSD	REC	89	%	70-130
VL10934-BSD	75-71-8	Dichlorodifluoromethane	BSD	RPD	6	%	30
VL10934-BSD	75-34-3	1,1-Dichloroethane	BSD	REC	104	%	70-130
VL10934-BSD	75-34-3	1,1-Dichloroethane	BSD	RPD	1	%	30
VL10934-BSD	107-06-2	1,2-Dichloroethane	BSD	REC	85	%	70-130
VL10934-BSD	107-06-2	1,2-Dichloroethane	BSD	RPD	3	%	30
VL10934-BSD	75-35-4	1,1-Dichloroethene	BSD	REC	94	%	70-130
VL10934-BSD	75-35-4	1,1-Dichloroethene	BSD	RPD	1	%	30
VL10934-BSD	156-59-2	cis-1,2-Dichloroethene	BSD	REC	102	%	70-130
VL10934-BSD	156-59-2	cis-1,2-Dichloroethene	BSD	RPD	0	%	30
VL10934-BSD	156-60-5	trans-1,2-Dichloroethene	BSD	REC	100	%	70-130
VL10934-BSD	156-60-5	trans-1,2-Dichloroethene	BSD	RPD	0	%	30
VL10934-BSD	78-87-5	1,2-Dichloropropane	BSD	REC	93	%	70-130
VL10934-BSD	78-87-5	1,2-Dichloropropane	BSD	RPD	3	%	30
VL10934-BSD	10061-01-5	cis-1,3-Dichloropropene	BSD	REC	96	%	70-130
VL10934-BSD	10061-01-5	cis-1,3-Dichloropropene	BSD	RPD	4	%	30
VL10934-BSD	10061-02-6	trans-1,3-Dichloropropene	BSD	REC	90	%	70-130
VL10934-BSD	10061-02-6	trans-1,3-Dichloropropene	BSD	RPD	1	%	30
VL10934-BSD	100-41-4	Ethylbenzene	BSD	REC	96	%	70-130
VL10934-BSD	100-41-4	Ethylbenzene	BSD	RPD	0	%	30
VL10934-BSD	75-09-2	Methylene chloride	BSD	REC	105	%	70-130
VL10934-BSD	75-09-2	Methylene chloride	BSD	RPD	0	%	30
VL10934-BSD	79-34-5	1,1,2,2-Tetrachloroethane	BSD	REC	99	%	70-130
VL10934-BSD	79-34-5	1,1,2,2-Tetrachloroethane	BSD	RPD	0	%	30
VL10934-BSD	127-18-4	Tetrachloroethene	BSD	REC	111	%	70-130
VL10934-BSD	127-18-4	Tetrachloroethene	BSD	RPD	7	%	30
VL10934-BSD	108-88-3	Toluene	BSD	REC	97	%	70-130
VL10934-BSD	108-88-3	Toluene	BSD	RPD	2	%	30

* Sample used for QC is not from job JD72942

QC Evaluation: Honeywell Limits

Job Number: JD72942
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/15/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
VL10934-BSD	71-55-6	1,1,1-Trichloroethane	BSD	REC	94	%	70-130
VL10934-BSD	71-55-6	1,1,1-Trichloroethane	BSD	RPD	3	%	30
VL10934-BSD	79-00-5	1,1,2-Trichloroethane	BSD	REC	102	%	70-130
VL10934-BSD	79-00-5	1,1,2-Trichloroethane	BSD	RPD	3	%	30
VL10934-BSD	79-01-6	Trichloroethene	BSD	REC	92	%	70-130
VL10934-BSD	79-01-6	Trichloroethene	BSD	RPD	0	%	30
VL10934-BSD	75-69-4	Trichlorofluoromethane	BSD	REC	104	%	70-130
VL10934-BSD	75-69-4	Trichlorofluoromethane	BSD	RPD	3	%	30
VL10934-BSD	75-01-4	Vinyl chloride	BSD	REC	103	%	70-130
VL10934-BSD	75-01-4	Vinyl chloride	BSD	RPD	2	%	30
VL10934-BSD	1330-20-7	Xylenes (total)	BSD	REC	99	%	70-130
VL10934-BSD	1330-20-7	Xylenes (total)	BSD	RPD	1	%	30
VL10934-BSD	17060-07-0	1,2-Dichloroethane-D4 (SUR)	BSD	SURR	87	%	70-130
VL10934-BSD	2037-26-5	Toluene-D8 (SUR)	BSD	SURR	95	%	70-130
VL10934-BSD	460-00-4	4-Bromofluorobenzene (SUR)	BSD	SURR	95	%	70-130
VL10934-BSD	1868-53-7	Dibromofluoromethane (S)	BSD	SURR	104	%	70-130
JD73014-2MS*	107-02-8	Acrolein	MS	REC	135	%	70-130
JD73014-2MS*	107-13-1	Acrylonitrile	MS	REC	115	%	70-130
JD73014-2MS*	71-43-2	Benzene	MS	REC	104	%	70-130
JD73014-2MS*	75-27-4	Bromodichloromethane	MS	REC	100	%	70-130
JD73014-2MS*	75-25-2	Bromoform	MS	REC	101	%	70-130
JD73014-2MS*	74-83-9	Bromomethane	MS	REC	121	%	70-130
JD73014-2MS*	56-23-5	Carbon tetrachloride	MS	REC	108	%	70-130
JD73014-2MS*	108-90-7	Chlorobenzene	MS	REC	105	%	70-130
JD73014-2MS*	75-00-3	Chloroethane	MS	REC	130	%	70-130
JD73014-2MS*	110-75-8	2-Chloroethyl vinyl ether	MS	REC	75	%	70-130
JD73014-2MS*	67-66-3	Chloroform	MS	REC	106	%	70-130
JD73014-2MS*	74-87-3	Chloromethane	MS	REC	107	%	70-130
JD73014-2MS*	124-48-1	Dibromochloromethane	MS	REC	101	%	70-130
JD73014-2MS*	95-50-1	1,2-Dichlorobenzene	MS	REC	94	%	70-130
JD73014-2MS*	541-73-1	1,3-Dichlorobenzene	MS	REC	93	%	70-130
JD73014-2MS*	106-46-7	1,4-Dichlorobenzene	MS	REC	99	%	70-130
JD73014-2MS*	75-71-8	Dichlorodifluoromethane	MS	REC	113	%	70-130
JD73014-2MS*	75-34-3	1,1-Dichloroethane	MS	REC	116	%	70-130
JD73014-2MS*	107-06-2	1,2-Dichloroethane	MS	REC	90	%	70-130
JD73014-2MS*	75-35-4	1,1-Dichloroethene	MS	REC	104	%	70-130
JD73014-2MS*	156-59-2	cis-1,2-Dichloroethene	MS	REC	121	%	70-130
JD73014-2MS*	156-60-5	trans-1,2-Dichloroethene	MS	REC	111	%	70-130
JD73014-2MS*	78-87-5	1,2-Dichloropropane	MS	REC	102	%	70-130
JD73014-2MS*	10061-01-5	cis-1,3-Dichloropropene	MS	REC	103	%	70-130
JD73014-2MS*	10061-02-6	trans-1,3-Dichloropropene	MS	REC	94	%	70-130
JD73014-2MS*	100-41-4	Ethylbenzene	MS	REC	105	%	70-130
JD73014-2MS*	75-09-2	Methylene chloride	MS	REC	113	%	70-130
JD73014-2MS*	79-34-5	1,1,2,2-Tetrachloroethane	MS	REC	101	%	70-130
JD73014-2MS*	127-18-4	Tetrachloroethene	MS	REC	115	%	70-130

* Sample used for QC is not from job JD72942

QC Evaluation: Honeywell Limits

Job Number: JD72942
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/15/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD73014-2MS*	108-88-3	Toluene	MS	REC	109	%	70-130
JD73014-2MS*	71-55-6	1,1,1-Trichloroethane	MS	REC	110	%	70-130
JD73014-2MS*	79-00-5	1,1,2-Trichloroethane	MS	REC	108	%	70-130
JD73014-2MS*	79-01-6	Trichloroethene	MS	REC	104	%	70-130
JD73014-2MS*	75-69-4	Trichlorofluoromethane	MS	REC	129	%	70-130
JD73014-2MS*	75-01-4	Vinyl chloride	MS	REC	126	%	70-130
JD73014-2MS*	1330-20-7	Xylenes (total)	MS	REC	107	%	70-130
JD73014-2MS*	17060-07-0	1,2-Dichloroethane-D4 (SUR)	MS	SURR	86	%	70-130
JD73014-2MS*	2037-26-5	Toluene-D8 (SUR)	MS	SURR	94	%	70-130
JD73014-2MS*	460-00-4	4-Bromofluorobenzene (SUR)	MS	SURR	94	%	70-130
JD73014-2MS*	1868-53-7	Dibromofluoromethane (S)	MS	SURR	105	%	70-130
VL10934-MB	17060-07-0	1,2-Dichloroethane-D4 (SUR)	MB	SURR	88	%	70-130
VL10934-MB	2037-26-5	Toluene-D8 (SUR)	MB	SURR	102	%	70-130
VL10934-MB	460-00-4	4-Bromofluorobenzene (SUR)	MB	SURR	94	%	70-130
VL10934-MB	1868-53-7	Dibromofluoromethane (S)	MB	SURR	103	%	70-130
JD72942-7	17060-07-0	1,2-Dichloroethane-D4 (SUR)	SAMP	SURR	88	%	70-130
JD72942-7	2037-26-5	Toluene-D8 (SUR)	SAMP	SURR	100	%	70-130
JD72942-7	460-00-4	4-Bromofluorobenzene (SUR)	SAMP	SURR	94	%	70-130
JD72942-7	1868-53-7	Dibromofluoromethane (S)	SAMP	SURR	107	%	70-130
OP49225B	EPA 625.1						
OP49225B-BS1	95-57-8	2-Chlorophenol	BSP	REC	55	%	30-130
OP49225B-BS1	59-50-7	4-Chloro-3-methyl phenol	BSP	REC	62	%	30-130
OP49225B-BS1	120-83-2	2,4-Dichlorophenol	BSP	REC	71	%	30-130
OP49225B-BS1	105-67-9	2,4-Dimethylphenol	BSP	REC	60	%	30-130
OP49225B-BS1	51-28-5	2,4-Dinitrophenol	BSP	REC	121	%	30-130
OP49225B-BS1	534-52-1	4,6-Dinitro-o-cresol	BSP	REC	137 [c]	%	30-130
OP49225B-BS1	88-75-5	2-Nitrophenol	BSP	REC	115 [c]	%	30-130
OP49225B-BS1	100-02-7	4-Nitrophenol	BSP	REC	22	%	30-130
OP49225B-BS1	87-86-5	Pentachlorophenol	BSP	REC	73	%	30-130
OP49225B-BS1	108-95-2	Phenol	BSP	REC	21	%	30-130
OP49225B-BS1	88-06-2	2,4,6-Trichlorophenol	BSP	REC	76	%	30-130
OP49225B-BS1	83-32-9	Acenaphthene	BSP	REC	66	%	40-140
OP49225B-BS1	208-96-8	Acenaphthylene	BSP	REC	65	%	40-140
OP49225B-BS1	120-12-7	Anthracene	BSP	REC	79	%	40-140
OP49225B-BS1	92-87-5	Benzidine	BSP	REC	0 [c]	%	40-140
OP49225B-BS1	56-55-3	Benzo(a)anthracene	BSP	REC	75	%	40-140
OP49225B-BS1	50-32-8	Benzo(a)pyrene	BSP	REC	74	%	40-140
OP49225B-BS1	205-99-2	Benzo(b)fluoranthene	BSP	REC	72	%	40-140
OP49225B-BS1	191-24-2	Benzo(g,h,i)perylene	BSP	REC	86	%	40-140
OP49225B-BS1	207-08-9	Benzo(k)fluoranthene	BSP	REC	74	%	40-140
OP49225B-BS1	101-55-3	4-Bromophenyl phenyl ether	BSP	REC	78	%	40-140
OP49225B-BS1	85-68-7	Butyl benzyl phthalate	BSP	REC	86	%	40-140
OP49225B-BS1	91-58-7	2-Chloronaphthalene	BSP	REC	64	%	40-140

* Sample used for QC is not from job JD72942

QC Evaluation: Honeywell Limits

Job Number: JD72942
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/15/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP49225B-BS1	106-47-8	4-Chloroaniline	BSP	REC	38	%	40-140
OP49225B-BS1	218-01-9	Chrysene	BSP	REC	76	%	40-140
OP49225B-BS1	111-91-1	bis(2-Chloroethoxy)methane	BSP	REC	75	%	40-140
OP49225B-BS1	111-44-4	bis(2-Chloroethyl)ether	BSP	REC	69	%	40-140
OP49225B-BS1	108-60-1	2,2'-Oxybis(1-chloropropane)	BSP	REC	67	%	40-140
OP49225B-BS1	7005-72-3	4-Chlorophenyl phenyl ether	BSP	REC	65	%	40-140
OP49225B-BS1	95-50-1	1,2-Dichlorobenzene	BSP	REC	55	%	40-140
OP49225B-BS1	122-66-7	1,2-Diphenylhydrazine	BSP	REC	81	%	40-140
OP49225B-BS1	541-73-1	1,3-Dichlorobenzene	BSP	REC	53	%	40-140
OP49225B-BS1	106-46-7	1,4-Dichlorobenzene	BSP	REC	56	%	40-140
OP49225B-BS1	121-14-2	2,4-Dinitrotoluene	BSP	REC	102	%	40-140
OP49225B-BS1	606-20-2	2,6-Dinitrotoluene	BSP	REC	107	%	40-140
OP49225B-BS1	91-94-1	3,3'-Dichlorobenzidine	BSP	REC	61	%	40-140
OP49225B-BS1	53-70-3	Dibenzo(a,h)anthracene	BSP	REC	89	%	40-140
OP49225B-BS1	84-74-2	Di-n-butyl phthalate	BSP	REC	76	%	40-140
OP49225B-BS1	117-84-0	Di-n-octyl phthalate	BSP	REC	78	%	40-140
OP49225B-BS1	84-66-2	Diethyl phthalate	BSP	REC	69	%	40-140
OP49225B-BS1	131-11-3	Dimethyl phthalate	BSP	REC	74	%	40-140
OP49225B-BS1	117-81-7	bis(2-Ethylhexyl)phthalate	BSP	REC	84	%	40-140
OP49225B-BS1	206-44-0	Fluoranthene	BSP	REC	76	%	40-140
OP49225B-BS1	86-73-7	Fluorene	BSP	REC	68	%	40-140
OP49225B-BS1	118-74-1	Hexachlorobenzene	BSP	REC	78	%	40-140
OP49225B-BS1	87-68-3	Hexachlorobutadiene	BSP	REC	57	%	40-140
OP49225B-BS1	77-47-4	Hexachlorocyclopentadiene	BSP	REC	58	%	40-140
OP49225B-BS1	67-72-1	Hexachloroethane	BSP	REC	57	%	40-140
OP49225B-BS1	193-39-5	Indeno(1,2,3-cd)pyrene	BSP	REC	85	%	40-140
OP49225B-BS1	78-59-1	Isophorone	BSP	REC	78	%	40-140
OP49225B-BS1	91-20-3	Naphthalene	BSP	REC	61	%	40-140
OP49225B-BS1	98-95-3	Nitrobenzene	BSP	REC	89	%	40-140
OP49225B-BS1	62-75-9	n-Nitrosodimethylamine	BSP	REC	29	%	40-140
OP49225B-BS1	621-64-7	N-Nitroso-di-n-propylamine	BSP	REC	74	%	40-140
OP49225B-BS1	86-30-6	N-Nitrosodiphenylamine	BSP	REC	80	%	40-140
OP49225B-BS1	85-01-8	Phenanthrene	BSP	REC	77	%	40-140
OP49225B-BS1	129-00-0	Pyrene	BSP	REC	81	%	40-140
OP49225B-BS1	120-82-1	1,2,4-Trichlorobenzene	BSP	REC	58	%	40-140
OP49225B-BS1	367-12-4	2-Fluorophenol	BSP	SURR	28	%	15-110
OP49225B-BS1	4165-62-2	Phenol-d5	BSP	SURR	20	%	15-110
OP49225B-BS1	118-79-6	2,4,6-Tribromophenol	BSP	SURR	88	%	15-110
OP49225B-BS1	4165-60-0	Nitrobenzene-d5	BSP	SURR	93	%	30-130
OP49225B-BS1	321-60-8	2-Fluorobiphenyl	BSP	SURR	74	%	30-130
OP49225B-BS1	1718-51-0	Terphenyl-d14	BSP	SURR	46	%	30-130
OP49225B-BSD	95-57-8	2-Chlorophenol	BSD	REC	66	%	30-130
OP49225B-BSD	95-57-8	2-Chlorophenol	BSD	RPD	18	%	20
OP49225B-BSD	59-50-7	4-Chloro-3-methyl phenol	BSD	REC	73	%	30-130
OP49225B-BSD	59-50-7	4-Chloro-3-methyl phenol	BSD	RPD	16	%	20

* Sample used for QC is not from job JD72942

QC Evaluation: Honeywell Limits

Job Number: JD72942
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/15/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP49225B-BSD	120-83-2	2,4-Dichlorophenol	BSD	REC	78	%	30-130
OP49225B-BSD	120-83-2	2,4-Dichlorophenol	BSD	RPD	10	%	20
OP49225B-BSD	105-67-9	2,4-Dimethylphenol	BSD	REC	69	%	30-130
OP49225B-BSD	105-67-9	2,4-Dimethylphenol	BSD	RPD	13	%	20
OP49225B-BSD	51-28-5	2,4-Dinitrophenol	BSD	REC	120	%	30-130
OP49225B-BSD	51-28-5	2,4-Dinitrophenol	BSD	RPD	1	%	20
OP49225B-BSD	534-52-1	4,6-Dinitro-o-cresol	BSD	REC	148 c	%	30-130
OP49225B-BSD	534-52-1	4,6-Dinitro-o-cresol	BSD	RPD	7	%	20
OP49225B-BSD	88-75-5	2-Nitrophenol	BSD	REC	129 c	%	30-130
OP49225B-BSD	88-75-5	2-Nitrophenol	BSD	RPD	12	%	20
OP49225B-BSD	100-02-7	4-Nitrophenol	BSD	REC	27	%	30-130
OP49225B-BSD	100-02-7	4-Nitrophenol	BSD	RPD	20	%	20
OP49225B-BSD	87-86-5	Pentachlorophenol	BSD	REC	83	%	30-130
OP49225B-BSD	87-86-5	Pentachlorophenol	BSD	RPD	12	%	20
OP49225B-BSD	108-95-2	Phenol	BSD	REC	25	%	30-130
OP49225B-BSD	108-95-2	Phenol	BSD	RPD	17	%	20
OP49225B-BSD	88-06-2	2,4,6-Trichlorophenol	BSD	REC	83	%	30-130
OP49225B-BSD	88-06-2	2,4,6-Trichlorophenol	BSD	RPD	9	%	20
OP49225B-BSD	83-32-9	Acenaphthene	BSD	REC	76	%	40-140
OP49225B-BSD	83-32-9	Acenaphthene	BSD	RPD	13	%	20
OP49225B-BSD	208-96-8	Acenaphthylene	BSD	REC	76	%	40-140
OP49225B-BSD	208-96-8	Acenaphthylene	BSD	RPD	16	%	20
OP49225B-BSD	120-12-7	Anthracene	BSD	REC	87	%	40-140
OP49225B-BSD	120-12-7	Anthracene	BSD	RPD	9	%	20
OP49225B-BSD	92-87-5	Benzidine	BSD	REC	0 c	%	40-140
OP49225B-BSD	92-87-5	Benzidine	BSD	RPD	0	%	20
OP49225B-BSD	56-55-3	Benzo(a)anthracene	BSD	REC	84	%	40-140
OP49225B-BSD	56-55-3	Benzo(a)anthracene	BSD	RPD	12	%	20
OP49225B-BSD	50-32-8	Benzo(a)pyrene	BSD	REC	82	%	40-140
OP49225B-BSD	50-32-8	Benzo(a)pyrene	BSD	RPD	11	%	20
OP49225B-BSD	205-99-2	Benzo(b)fluoranthene	BSD	REC	83	%	40-140
OP49225B-BSD	205-99-2	Benzo(b)fluoranthene	BSD	RPD	13	%	20
OP49225B-BSD	191-24-2	Benzo(g,h,i)perylene	BSD	REC	96	%	40-140
OP49225B-BSD	191-24-2	Benzo(g,h,i)perylene	BSD	RPD	11	%	20
OP49225B-BSD	207-08-9	Benzo(k)fluoranthene	BSD	REC	81	%	40-140
OP49225B-BSD	207-08-9	Benzo(k)fluoranthene	BSD	RPD	10	%	20
OP49225B-BSD	101-55-3	4-Bromophenyl phenyl ether	BSD	REC	87	%	40-140
OP49225B-BSD	101-55-3	4-Bromophenyl phenyl ether	BSD	RPD	12	%	20
OP49225B-BSD	85-68-7	Butyl benzyl phthalate	BSD	REC	101	%	40-140
OP49225B-BSD	85-68-7	Butyl benzyl phthalate	BSD	RPD	16	%	20
OP49225B-BSD	91-58-7	2-Chloronaphthalene	BSD	REC	73	%	40-140
OP49225B-BSD	91-58-7	2-Chloronaphthalene	BSD	RPD	14	%	20
OP49225B-BSD	106-47-8	4-Chloroaniline	BSD	REC	44	%	40-140
OP49225B-BSD	106-47-8	4-Chloroaniline	BSD	RPD	13	%	20
OP49225B-BSD	218-01-9	Chrysene	BSD	REC	85	%	40-140

* Sample used for QC is not from job JD72942

QC Evaluation: Honeywell Limits

Job Number: JD72942
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/15/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP49225B-BSD	218-01-9	Chrysene	BSD	RPD	10	%	20
OP49225B-BSD	111-91-1	bis(2-Chloroethoxy)methane	BSD	REC	85	%	40-140
OP49225B-BSD	111-91-1	bis(2-Chloroethoxy)methane	BSD	RPD	13	%	20
OP49225B-BSD	111-44-4	bis(2-Chloroethyl)ether	BSD	REC	82	%	40-140
OP49225B-BSD	111-44-4	bis(2-Chloroethyl)ether	BSD	RPD	17	%	20
OP49225B-BSD	108-60-1	2,2'-Oxybis(1-chloropropane)	BSD	REC	81	%	40-140
OP49225B-BSD	108-60-1	2,2'-Oxybis(1-chloropropane)	BSD	RPD	20	%	20
OP49225B-BSD	7005-72-3	4-Chlorophenyl phenyl ether	BSD	REC	75	%	40-140
OP49225B-BSD	7005-72-3	4-Chlorophenyl phenyl ether	BSD	RPD	14	%	20
OP49225B-BSD	95-50-1	1,2-Dichlorobenzene	BSD	REC	72	%	40-140
OP49225B-BSD	95-50-1	1,2-Dichlorobenzene	BSD	RPD	26	%	20
OP49225B-BSD	122-66-7	1,2-Diphenylhydrazine	BSD	REC	90	%	40-140
OP49225B-BSD	122-66-7	1,2-Diphenylhydrazine	BSD	RPD	10	%	20
OP49225B-BSD	541-73-1	1,3-Dichlorobenzene	BSD	REC	69	%	40-140
OP49225B-BSD	541-73-1	1,3-Dichlorobenzene	BSD	RPD	25	%	20
OP49225B-BSD	106-46-7	1,4-Dichlorobenzene	BSD	REC	71	%	40-140
OP49225B-BSD	106-46-7	1,4-Dichlorobenzene	BSD	RPD	24	%	20
OP49225B-BSD	121-14-2	2,4-Dinitrotoluene	BSD	REC	117	%	40-140
OP49225B-BSD	121-14-2	2,4-Dinitrotoluene	BSD	RPD	13	%	20
OP49225B-BSD	606-20-2	2,6-Dinitrotoluene	BSD	REC	121 [c]	%	40-140
OP49225B-BSD	606-20-2	2,6-Dinitrotoluene	BSD	RPD	13	%	20
OP49225B-BSD	91-94-1	3,3'-Dichlorobenzidine	BSD	REC	79	%	40-140
OP49225B-BSD	91-94-1	3,3'-Dichlorobenzidine	BSD	RPD	25	%	20
OP49225B-BSD	53-70-3	Dibenzo(a,h)anthracene	BSD	REC	99	%	40-140
OP49225B-BSD	53-70-3	Dibenzo(a,h)anthracene	BSD	RPD	10	%	20
OP49225B-BSD	84-74-2	Di-n-butyl phthalate	BSD	REC	87	%	40-140
OP49225B-BSD	84-74-2	Di-n-butyl phthalate	BSD	RPD	13	%	20
OP49225B-BSD	117-84-0	Di-n-octyl phthalate	BSD	REC	90	%	40-140
OP49225B-BSD	117-84-0	Di-n-octyl phthalate	BSD	RPD	14	%	20
OP49225B-BSD	84-66-2	Diethyl phthalate	BSD	REC	81	%	40-140
OP49225B-BSD	84-66-2	Diethyl phthalate	BSD	RPD	16	%	20
OP49225B-BSD	131-11-3	Dimethyl phthalate	BSD	REC	84	%	40-140
OP49225B-BSD	131-11-3	Dimethyl phthalate	BSD	RPD	13	%	20
OP49225B-BSD	117-81-7	bis(2-Ethylhexyl)phthalate	BSD	REC	96	%	40-140
OP49225B-BSD	117-81-7	bis(2-Ethylhexyl)phthalate	BSD	RPD	14	%	20
OP49225B-BSD	206-44-0	Fluoranthene	BSD	REC	84	%	40-140
OP49225B-BSD	206-44-0	Fluoranthene	BSD	RPD	10	%	20
OP49225B-BSD	86-73-7	Fluorene	BSD	REC	79	%	40-140
OP49225B-BSD	86-73-7	Fluorene	BSD	RPD	14	%	20
OP49225B-BSD	118-74-1	Hexachlorobenzene	BSD	REC	87	%	40-140
OP49225B-BSD	118-74-1	Hexachlorobenzene	BSD	RPD	11	%	20
OP49225B-BSD	87-68-3	Hexachlorobutadiene	BSD	REC	69	%	40-140
OP49225B-BSD	87-68-3	Hexachlorobutadiene	BSD	RPD	19	%	20
OP49225B-BSD	77-47-4	Hexachlorocyclopentadiene	BSD	REC	66	%	40-140
OP49225B-BSD	77-47-4	Hexachlorocyclopentadiene	BSD	RPD	12	%	20

* Sample used for QC is not from job JD72942

QC Evaluation: Honeywell Limits

Job Number: JD72942
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/15/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP49225B-BSD	67-72-1	Hexachloroethane	BSD	REC	72	%	40-140
OP49225B-BSD	67-72-1	Hexachloroethane	BSD	RPD	24	%	20
OP49225B-BSD	193-39-5	Indeno(1,2,3-cd)pyrene	BSD	REC	94	%	40-140
OP49225B-BSD	193-39-5	Indeno(1,2,3-cd)pyrene	BSD	RPD	10	%	20
OP49225B-BSD	78-59-1	Isophorone	BSD	REC	87	%	40-140
OP49225B-BSD	78-59-1	Isophorone	BSD	RPD	11	%	20
OP49225B-BSD	91-20-3	Naphthalene	BSD	REC	73	%	40-140
OP49225B-BSD	91-20-3	Naphthalene	BSD	RPD	18	%	20
OP49225B-BSD	98-95-3	Nitrobenzene	BSD	REC	104	%	40-140
OP49225B-BSD	98-95-3	Nitrobenzene	BSD	RPD	15	%	20
OP49225B-BSD	62-75-9	n-Nitrosodimethylamine	BSD	REC	34	%	40-140
OP49225B-BSD	62-75-9	n-Nitrosodimethylamine	BSD	RPD	16	%	20
OP49225B-BSD	621-64-7	N-Nitroso-di-n-propylamine	BSD	REC	85	%	40-140
OP49225B-BSD	621-64-7	N-Nitroso-di-n-propylamine	BSD	RPD	14	%	20
OP49225B-BSD	86-30-6	N-Nitrosodiphenylamine	BSD	REC	88	%	40-140
OP49225B-BSD	86-30-6	N-Nitrosodiphenylamine	BSD	RPD	9	%	20
OP49225B-BSD	85-01-8	Phenanthrene	BSD	REC	85	%	40-140
OP49225B-BSD	85-01-8	Phenanthrene	BSD	RPD	10	%	20
OP49225B-BSD	129-00-0	Pyrene	BSD	REC	92	%	40-140
OP49225B-BSD	129-00-0	Pyrene	BSD	RPD	13	%	20
OP49225B-BSD	120-82-1	1,2,4-Trichlorobenzene	BSD	REC	70	%	40-140
OP49225B-BSD	120-82-1	1,2,4-Trichlorobenzene	BSD	RPD	19	%	20
OP49225B-BSD	367-12-4	2-Fluorophenol	BSD	SURR	36	%	15-110
OP49225B-BSD	4165-62-2	Phenol-d5	BSD	SURR	24	%	15-110
OP49225B-BSD	118-79-6	2,4,6-Tribromophenol	BSD	SURR	98	%	15-110
OP49225B-BSD	4165-60-0	Nitrobenzene-d5	BSD	SURR	108	%	30-130
OP49225B-BSD	321-60-8	2-Fluorobiphenyl	BSD	SURR	82	%	30-130
OP49225B-BSD	1718-51-0	Terphenyl-d14	BSD	SURR	49	%	30-130
OP49225B-MB1	367-12-4	2-Fluorophenol	MB	SURR	41	%	15-110
OP49225B-MB1	4165-62-2	Phenol-d5	MB	SURR	25	%	15-110
OP49225B-MB1	118-79-6	2,4,6-Tribromophenol	MB	SURR	93	%	15-110
OP49225B-MB1	4165-60-0	Nitrobenzene-d5	MB	SURR	93	%	30-130
OP49225B-MB1	321-60-8	2-Fluorobiphenyl	MB	SURR	75	%	30-130
OP49225B-MB1	1718-51-0	Terphenyl-d14	MB	SURR	56	%	30-130
JD72942-1	367-12-4	2-Fluorophenol	SAMP	SURR	30	%	15-110
JD72942-1	4165-62-2	Phenol-d5	SAMP	SURR	20	%	15-110
JD72942-1	118-79-6	2,4,6-Tribromophenol	SAMP	SURR	73	%	15-110
JD72942-1	4165-60-0	Nitrobenzene-d5	SAMP	SURR	78	%	30-130
JD72942-1	321-60-8	2-Fluorobiphenyl	SAMP	SURR	60	%	30-130
JD72942-1	1718-51-0	Terphenyl-d14	SAMP	SURR	22 [d]	%	30-130
JD72942-2	367-12-4	2-Fluorophenol	SAMP	SURR	33	%	15-110
JD72942-2	4165-62-2	Phenol-d5	SAMP	SURR	22	%	15-110
JD72942-2	118-79-6	2,4,6-Tribromophenol	SAMP	SURR	82	%	15-110
JD72942-2	4165-60-0	Nitrobenzene-d5	SAMP	SURR	85	%	30-130
JD72942-2	321-60-8	2-Fluorobiphenyl	SAMP	SURR	65	%	30-130

* Sample used for QC is not from job JD72942

QC Evaluation: Honeywell Limits

Job Number: JD72942
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/15/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD72942-2	1718-51-0	Terphenyl-d14	SAMP	SURR	20 [d]	%	30-130
JD72942-3	367-12-4	2-Fluorophenol	SAMP	SURR	31	%	15-110
JD72942-3	4165-62-2	Phenol-d5	SAMP	SURR	19	%	15-110
JD72942-3	118-79-6	2,4,6-Tribromophenol	SAMP	SURR	74	%	15-110
JD72942-3	4165-60-0	Nitrobenzene-d5	SAMP	SURR	75	%	30-130
JD72942-3	321-60-8	2-Fluorobiphenyl	SAMP	SURR	58	%	30-130
JD72942-3	1718-51-0	Terphenyl-d14	SAMP	SURR	19 [d]	%	30-130
JD72942-4	367-12-4	2-Fluorophenol	SAMP	SURR	30	%	15-110
JD72942-4	4165-62-2	Phenol-d5	SAMP	SURR	21	%	15-110
JD72942-4	118-79-6	2,4,6-Tribromophenol	SAMP	SURR	73	%	15-110
JD72942-4	4165-60-0	Nitrobenzene-d5	SAMP	SURR	80	%	30-130
JD72942-4	321-60-8	2-Fluorobiphenyl	SAMP	SURR	63	%	30-130
JD72942-4	1718-51-0	Terphenyl-d14	SAMP	SURR	18 [d]	%	30-130

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Outside control limits due to acid preservation.
(c) Outside of in house control limits.
(d) Outside control limits due to matrix interference. There's no sample left to reextract.

* Sample used for QC is not from job JD72942

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: JD72942
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
VL10933-MB	L359034.D	1	09/19/23	NW	n/a	n/a	VL10933

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

JD72942-6

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	0.71	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.94	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	0.87	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	0.98	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.91	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	0.96	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	0.96	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	0.93	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.84	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	0.73	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.77	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	0.76	ug/l	

Method Blank Summary

Job Number: JD72942
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
VL10933-MB	L359034.D	1	09/19/23	NW	n/a	n/a	VL10933

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

JD72942-6

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	90%	80-128%
2037-26-5	Toluene-D8 (SUR)	103%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	94%	79-117%
1868-53-7	Dibromofluoromethane (S)	107%	84-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.37	5.3	ug/l	J
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JD72942
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
VL10934-MB	L359055.D	1	09/20/23	NW	n/a	n/a	VL10934

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

JD72942-7

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	0.71	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.94	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	0.87	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	0.98	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.91	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	0.96	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	0.96	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	0.93	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.84	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	0.73	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.77	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	0.76	ug/l	

Method Blank Summary

Job Number: JD72942
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
VL10934-MB	L359055.D	1	09/20/23	NW	n/a	n/a	VL10934

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

JD72942-7

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	88%	80-128%
2037-26-5	Toluene-D8 (SUR)	102%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	94%	79-117%
1868-53-7	Dibromofluoromethane (S)	103%	84-121%

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

Blank Spike Summary

Job Number: JD72942
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
VL10933-BS	L359033A.D	1	09/19/23	NW	n/a	n/a	VL10933

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

JD72942-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
107-02-8	Acrolein	20	26.8	134	60-140
107-13-1	Acrylonitrile	20	24.4	122	60-140
71-43-2	Benzene	20	19.5	98	65-135
75-27-4	Bromodichloromethane	20	19.5	98	65-135
75-25-2	Bromoform	20	20.6	103	70-130
74-83-9	Bromomethane	20	23.1	116	15-185
56-23-5	Carbon tetrachloride	20	20.1	101	70-130
108-90-7	Chlorobenzene	20	20.5	103	65-135
75-00-3	Chloroethane	20	23.7	119	40-160
110-75-8	2-Chloroethyl vinyl ether	100	77.4	77	10-225
67-66-3	Chloroform	20	21.0	105	70-135
74-87-3	Chloromethane	20	19.8	99	10-205
124-48-1	Dibromochloromethane	20	20.2	101	70-135
95-50-1	1,2-Dichlorobenzene	20	18.5	93	65-135
541-73-1	1,3-Dichlorobenzene	20	18.7	94	70-130
106-46-7	1,4-Dichlorobenzene	20	19.3	97	65-135
75-71-8	Dichlorodifluoromethane	20	20.1	101	42-146
75-34-3	1,1-Dichloroethane	20	22.1	111	70-130
107-06-2	1,2-Dichloroethane	20	17.8	89	70-130
75-35-4	1,1-Dichloroethene	20	19.3	97	50-150
156-59-2	cis-1,2-Dichloroethene	20	22.1	111	72-116
156-60-5	trans-1,2-Dichloroethene	20	21.3	107	70-130
78-87-5	1,2-Dichloropropane	20	19.7	99	35-165
10061-01-5	cis-1,3-Dichloropropene	20	19.8	99	25-175
10061-02-6	trans-1,3-Dichloropropene	20	18.9	95	50-150
100-41-4	Ethylbenzene	20	20.1	101	60-140
75-09-2	Methylene chloride	20	21.4	107	60-140
79-34-5	1,1,2,2-Tetrachloroethane	20	21.3	107	60-140
127-18-4	Tetrachloroethene	20	21.1	106	70-130
108-88-3	Toluene	20	20.7	104	70-130
71-55-6	1,1,1-Trichloroethane	20	20.6	103	70-130
79-00-5	1,1,2-Trichloroethane	20	22.3	112	70-130
79-01-6	Trichloroethene	20	18.8	94	65-135
75-69-4	Trichlorofluoromethane	20	23.4	117	50-150
75-01-4	Vinyl chloride	20	23.1	116	50-150
1330-20-7	Xylenes (total)	60	62.1	104	79-114

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD72942
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
VL10933-BS	L359033A.D	1	09/19/23	NW	n/a	n/a	VL10933

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

JD72942-6

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	85%	80-128%
2037-26-5	Toluene-D8 (SUR)	95%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	95%	79-117%
1868-53-7	Dibromofluoromethane (S)	105%	84-121%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD72942
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
VL10934-BS	L359053A.D	1	09/20/23	NW	n/a	n/a	VL10934
VL10934-BSD	L359054.D	1	09/20/23	NW	n/a	n/a	VL10934

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

JD72942-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
107-02-8	Acrolein	20	26.9	135	27.1	136	1	60-140/20
107-13-1	Acrylonitrile	20	23.2	116	22.3	112	4	60-140/22
71-43-2	Benzene	20	19.0	95	18.7	94	2	65-135/11
75-27-4	Bromodichloromethane	20	18.9	95	18.5	93	2	65-135/12
75-25-2	Bromoform	20	19.7	99	19.8	99	1	70-130/12
74-83-9	Bromomethane	20	21.6	108	22.6	113	5	15-185/15
56-23-5	Carbon tetrachloride	20	18.3	92	18.5	93	1	70-130/13
108-90-7	Chlorobenzene	20	19.4	97	19.4	97	0	65-135/11
75-00-3	Chloroethane	20	21.8	109	21.6	108	1	40-160/21
110-75-8	2-Chloroethyl vinyl ether	100	61.7	62	62.7	63	2	10-225/14
67-66-3	Chloroform	20	19.7	99	19.6	98	1	70-135/14
74-87-3	Chloromethane	20	18.1	91	17.8	89	2	10-205/15
124-48-1	Dibromochloromethane	20	19.4	97	18.9	95	3	70-135/13
95-50-1	1,2-Dichlorobenzene	20	17.6	88	17.8	89	1	65-135/12
541-73-1	1,3-Dichlorobenzene	20	17.6	88	17.8	89	1	70-130/12
106-46-7	1,4-Dichlorobenzene	20	18.3	92	18.7	94	2	65-135/12
75-71-8	Dichlorodifluoromethane	20	18.9	95	17.8	89	6	42-146/17
75-34-3	1,1-Dichloroethane	20	20.9	105	20.7	104	1	70-130/12
107-06-2	1,2-Dichloroethane	20	17.4	87	16.9	85	3	70-130/11
75-35-4	1,1-Dichloroethene	20	18.9	95	18.7	94	1	50-150/16
156-59-2	cis-1,2-Dichloroethene	20	20.4	102	20.4	102	0	72-116/12
156-60-5	trans-1,2-Dichloroethene	20	20.0	100	20.0	100	0	70-130/12
78-87-5	1,2-Dichloropropane	20	19.1	96	18.5	93	3	35-165/14
10061-01-5	cis-1,3-Dichloropropene	20	19.8	99	19.1	96	4	25-175/12
10061-02-6	trans-1,3-Dichloropropene	20	18.1	91	17.9	90	1	50-150/12
100-41-4	Ethylbenzene	20	19.1	96	19.1	96	0	60-140/11
75-09-2	Methylene chloride	20	20.9	105	21.0	105	0	60-140/14
79-34-5	1,1,2,2-Tetrachloroethane	20	19.7	99	19.7	99	0	60-140/14
127-18-4	Tetrachloroethene	20	20.6	103	22.1	111	7	70-130/18
108-88-3	Toluene	20	19.7	99	19.3	97	2	70-130/13
71-55-6	1,1,1-Trichloroethane	20	19.3	97	18.8	94	3	70-130/12
79-00-5	1,1,2-Trichloroethane	20	21.1	106	20.4	102	3	70-130/14
79-01-6	Trichloroethene	20	18.3	92	18.3	92	0	65-135/13
75-69-4	Trichlorofluoromethane	20	21.4	107	20.7	104	3	50-150/15
75-01-4	Vinyl chloride	20	21.0	105	20.5	103	2	50-150/14
1330-20-7	Xylenes (total)	60	58.7	98	59.1	99	1	79-114/11

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD72942
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
VL10934-BS	L359053A.D	1	09/20/23	NW	n/a	n/a	VL10934
VL10934-BSD	L359054.D	1	09/20/23	NW	n/a	n/a	VL10934

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

JD72942-7

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	87%	87%	80-128%
2037-26-5	Toluene-D8 (SUR)	96%	95%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	92%	95%	79-117%
1868-53-7	Dibromofluoromethane (S)	103%	104%	84-121%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JD72942
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
JD73014-2MS [a]	L359066.D	1	09/20/23	NW	n/a	n/a	VL10934
JD73014-2 [a]	L359057.D	1	09/20/23	NW	n/a	n/a	VL10934

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

JD72942-7

CAS No.	Compound	JD73014-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
107-02-8	Acrolein	ND		20	26.9	135	40-160
107-13-1	Acrylonitrile	ND		20	22.9	115	40-160
71-43-2	Benzene	ND		20	20.7	104	37-151
75-27-4	Bromodichloromethane	1.7		20	21.6	100	35-155
75-25-2	Bromoform	ND		20	20.2	101	45-169
74-83-9	Bromomethane	ND		20	24.1	121	10-242
56-23-5	Carbon tetrachloride	ND		20	21.6	108	70-140
108-90-7	Chlorobenzene	ND		20	21.0	105	37-160
75-00-3	Chloroethane	ND		20	25.9	130	14-230
110-75-8	2-Chloroethyl vinyl ether	ND		100	75.0	75	10-305
67-66-3	Chloroform	6.5		20	27.7	106	51-138
74-87-3	Chloromethane	ND		20	21.4	107	10-273
124-48-1	Dibromochloromethane	ND		20	20.2	101	53-149
95-50-1	1,2-Dichlorobenzene	ND		20	18.8	94	18-190
541-73-1	1,3-Dichlorobenzene	ND		20	18.5	93	59-156
106-46-7	1,4-Dichlorobenzene	ND		20	19.7	99	18-190
75-71-8	Dichlorodifluoromethane	ND		20	22.6	113	22-172
75-34-3	1,1-Dichloroethane	ND		20	23.2	116	59-155
107-06-2	1,2-Dichloroethane	ND		20	18.0	90	49-155
75-35-4	1,1-Dichloroethene	ND		20	20.7	104	10-234
156-59-2	cis-1,2-Dichloroethene	ND		20	24.2	121	38-146
156-60-5	trans-1,2-Dichloroethene	ND		20	22.2	111	54-156
78-87-5	1,2-Dichloropropane	ND		20	20.4	102	10-210
10061-01-5	cis-1,3-Dichloropropene	ND		20	20.6	103	10-227
10061-02-6	trans-1,3-Dichloropropene	ND		20	18.7	94	17-183
100-41-4	Ethylbenzene	ND		20	20.9	105	37-162
75-09-2	Methylene chloride	ND		20	22.5	113	10-221
79-34-5	1,1,2,2-Tetrachloroethane	ND		20	20.2	101	46-157
127-18-4	Tetrachloroethene	ND		20	23.0	115	64-148
108-88-3	Toluene	ND		20	21.7	109	47-150
71-55-6	1,1,1-Trichloroethane	ND		20	22.0	110	52-162
79-00-5	1,1,2-Trichloroethane	ND		20	21.6	108	52-150
79-01-6	Trichloroethene	ND		20	20.8	104	70-157
75-69-4	Trichlorofluoromethane	ND		20	25.7	129	17-181
75-01-4	Vinyl chloride	ND		20	25.1	126	17-181
1330-20-7	Xylenes (total)	ND		60	64.0	107	58-134

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JD72942
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
JD73014-2MS [a]	L359066.D	1	09/20/23	NW	n/a	n/a	VL10934
JD73014-2 [a]	L359057.D	1	09/20/23	NW	n/a	n/a	VL10934

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

JD72942-7

CAS No.	Surrogate Recoveries	MS	JD73014-2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	86%	87%	80-128%
2037-26-5	Toluene-D8 (SUR)	94%	103%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	94%	95%	79-117%
1868-53-7	Dibromofluoromethane (S)	105%	104%	84-121%

(a) (pH= 6) 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.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD72942
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
JD72885-1MS	L359036.D	5	09/19/23	NW	n/a	n/a	VL10933
JD72885-1MSD	L359037.D	5	09/19/23	NW	n/a	n/a	VL10933
JD72885-1 [a]	L359035.D	5	09/19/23	NW	n/a	n/a	VL10933

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

JD72942-6

CAS No.	Compound	JD72885-1 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		100	128	128	100	121	121	6	40-160/60
107-13-1	Acrylonitrile	ND		100	117	117	100	117	117	0	40-160/60
71-43-2	Benzene	897		100	851	-46* [b]	100	847	-50* [b]	0	37-151/61
75-27-4	Bromodichloromethane	ND		100	98.1	98	100	99.9	100	2	35-155/56
75-25-2	Bromoform	ND		100	98.3	98	100	100	100	2	45-169/42
74-83-9	Bromomethane	ND		100	95.8	96	100	103	103	7	10-242/61
56-23-5	Carbon tetrachloride	ND		100	98.9	99	100	101	101	2	70-140/41
108-90-7	Chlorobenzene	991		100	1000	9* [b]	100	1010	19* [b]	1	37-160/53
75-00-3	Chloroethane	ND		100	117	117	100	118	118	1	14-230/78
110-75-8	2-Chloroethyl vinyl ether	ND		500	ND	0* [c]	500	ND	0* [c]	nc	10-305/71
67-66-3	Chloroform	ND		100	103	103	100	104	104	1	51-138/54
74-87-3	Chloromethane	ND		100	94.4	94	100	97.4	97	3	10-273/60
124-48-1	Dibromochloromethane	ND		100	98.9	99	100	102	102	3	53-149/50
95-50-1	1,2-Dichlorobenzene	255		100	341	86	100	352	97	3	18-190/57
541-73-1	1,3-Dichlorobenzene	26.1		100	117	91	100	123	97	5	59-156/43
106-46-7	1,4-Dichlorobenzene	419		100	495	76	100	506	87	2	18-190/57
75-71-8	Dichlorodifluoromethane	ND		100	93.6	94	100	96.4	96	3	22-172/22
75-34-3	1,1-Dichloroethane	ND		100	108	108	100	110	110	2	59-155/40
107-06-2	1,2-Dichloroethane	ND		100	94.4	94	100	97.2	97	3	49-155/49
75-35-4	1,1-Dichloroethene	ND		100	95.9	96	100	97.1	97	1	10-234/32
156-59-2	cis-1,2-Dichloroethene	ND		100	107	107	100	110	110	3	38-146/17
156-60-5	trans-1,2-Dichloroethene	ND		100	105	105	100	106	106	1	54-156/45
78-87-5	1,2-Dichloropropane	ND		100	98.0	98	100	103	103	5	10-210/55
10061-01-5	cis-1,3-Dichloropropene	ND		100	102	102	100	105	105	3	10-227/58
10061-02-6	trans-1,3-Dichloropropene	ND		100	88.7	89	100	92.1	92	4	17-183/86
100-41-4	Ethylbenzene	32.0		100	120	88	100	122	90	2	37-162/63
75-09-2	Methylene chloride	ND		100	106	106	100	108	108	2	10-221/28
79-34-5	1,1,2,2-Tetrachloroethane	ND		100	100	100	100	102	102	2	46-157/61
127-18-4	Tetrachloroethene	ND		100	102	102	100	105	105	3	64-148/39
108-88-3	Toluene	629		100	635	6* [b]	100	647	18* [b]	2	47-150/41
71-55-6	1,1,1-Trichloroethane	ND		100	102	102	100	103	103	1	52-162/36
79-00-5	1,1,2-Trichloroethane	ND		100	107	107	100	107	107	0	52-150/45
79-01-6	Trichloroethene	ND		100	95.2	95	100	97.9	98	3	70-157/48
75-69-4	Trichlorofluoromethane	ND		100	112	112	100	113	113	1	17-181/84
75-01-4	Vinyl chloride	ND		100	111	111	100	110	110	1	17-181/84
1330-20-7	Xylenes (total)	614		300	832	73	300	854	80	3	58-134/16

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD72942
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
JD72885-1MS	L359036.D	5	09/19/23	NW	n/a	n/a	VL10933
JD72885-1MSD	L359037.D	5	09/19/23	NW	n/a	n/a	VL10933
JD72885-1 [a]	L359035.D	5	09/19/23	NW	n/a	n/a	VL10933

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

JD72942-6

CAS No.	Surrogate Recoveries	MS	MSD	JD72885-1	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	90%	88%	97%	80-128%
2037-26-5	Toluene-D8 (SUR)	96%	98%	104%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	95%	96%	91%	79-117%
1868-53-7	Dibromofluoromethane (S)	107%	107%	109%	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. Dilution required due to high concentration of target and non-target compounds.
(b) Outside control limits due to high level in sample relative to spike amount.
(c) Outside control limits due to acid preservation.

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JD72942
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: VL10881-BFB
Lab File ID: L357755.D
Instrument ID: GCMSL
Injection Date: 07/27/23
Injection Time: 21:17

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	11315	19.4		Pass
75	30.0 - 60.0% of mass 95	29059	49.9		Pass
95	Base peak, 100% relative abundance	58280	100.0		Pass
96	5.0 - 9.0% of mass 95	3849	6.60		Pass
173	Less than 2.0% of mass 174	245	0.42	(0.60) [a]	Pass
174	50.0 - 120.0% of mass 95	40813	70.0		Pass
175	5.0 - 9.0% of mass 174	3072	5.27	(7.53) [a]	Pass
176	95.0 - 101.0% of mass 174	41032	70.4	(100.5) [a]	Pass
177	5.0 - 9.0% of mass 176	2787	4.78	(6.79) [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
VL10881-IC10881	L357757.D	07/27/23	22:03	00:46	Initial cal 0.2
VL10881-IC10881	L357758.D	07/27/23	22:27	01:10	Initial cal 0.5
VL10881-IC10881	L357759.D	07/27/23	22:50	01:33	Initial cal 1
VL10881-IC10881	L357760.D	07/27/23	23:13	01:56	Initial cal 2
VL10881-IC10881	L357761.D	07/27/23	23:36	02:19	Initial cal 4
VL10881-IC10881	L357762.D	07/28/23	00:00	02:43	Initial cal 8
VL10881-IC10881	L357763.D	07/28/23	00:23	03:06	Initial cal 20
VL10881-ICC10881	L357764.D	07/28/23	00:46	03:29	Initial cal 50
VL10881-IC10881	L357765.D	07/28/23	01:10	03:53	Initial cal 100
VL10881-IC10881	L357766.D	07/28/23	01:33	04:16	Initial cal 200
VL10881-ICV10881	L357769.D	07/28/23	02:42	05:25	Initial cal verification 50
VL10881-ICV10881	L357770.D	07/28/23	03:06	05:49	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JD72942
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: VL10933-BFB
Lab File ID: L359032.D
Instrument ID: GCMSL
Injection Date: 09/19/23
Injection Time: 21:16

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	10469	16.8		Pass
75	30.0 - 60.0% of mass 95	30845	49.5		Pass
95	Base peak, 100% relative abundance	62296	100.0		Pass
96	5.0 - 9.0% of mass 95	4334	6.96		Pass
173	Less than 2.0% of mass 174	103	0.17	(0.22) [a]	Pass
174	50.0 - 120.0% of mass 95	46296	74.3		Pass
175	5.0 - 9.0% of mass 174	3349	5.38	(7.23) [a]	Pass
176	95.0 - 101.0% of mass 174	44640	71.7	(96.4) [a]	Pass
177	5.0 - 9.0% of mass 176	2828	4.54	(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
VL10933-CC10881	L359033.D	09/19/23	21:39	00:23	Continuing cal 20
VL10933-BS	L359033A.D	09/19/23	21:39	00:23	Blank Spike
VL10933-MB	L359034.D	09/19/23	22:02	00:46	Method Blank
JD72885-1	L359035.D	09/19/23	22:25	01:09	(used for QC only; not part of job JD72942)
JD72885-1MS	L359036.D	09/19/23	22:48	01:32	Matrix Spike
JD72885-1MSD	L359037.D	09/19/23	23:11	01:55	Matrix Spike Duplicate
JD72942-6	L359041.D	09/20/23	00:43	03:27	TRIP BLANK
ZZZZZZ	L359042.D	09/20/23	01:06	03:50	(unrelated sample)
ZZZZZZ	L359043.D	09/20/23	01:29	04:13	(unrelated sample)
ZZZZZZ	L359044.D	09/20/23	01:52	04:36	(unrelated sample)
ZZZZZZ	L359045.D	09/20/23	02:15	04:59	(unrelated sample)
ZZZZZZ	L359046.D	09/20/23	02:38	05:22	(unrelated sample)
ZZZZZZ	L359047.D	09/20/23	03:01	05:45	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD72942
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: VL10934-BFB
Lab File ID: L359052.D
Instrument ID: GCMSL
Injection Date: 09/20/23
Injection Time: 09:20

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	8975	16.1		Pass
75	30.0 - 60.0% of mass 95	26485	47.6		Pass
95	Base peak, 100% relative abundance	55627	100.0		Pass
96	5.0 - 9.0% of mass 95	3782	6.80		Pass
173	Less than 2.0% of mass 174	89	0.16	(0.22) [a]	Pass
174	50.0 - 120.0% of mass 95	40643	73.1		Pass
175	5.0 - 9.0% of mass 174	2990	5.38	(7.36) [a]	Pass
176	95.0 - 101.0% of mass 174	38843	69.8	(95.6) [a]	Pass
177	5.0 - 9.0% of mass 176	2618	4.71	(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
VL10934-BS	L359053A.D	09/20/23	10:02	00:42	Blank Spike
VL10934-CC10881	L359053.D	09/20/23	10:02	00:42	Continuing cal 20
VL10934-BSD	L359054.D	09/20/23	10:37	01:17	Blank Spike Duplicate
VL10934-MB	L359055.D	09/20/23	11:00	01:40	Method Blank
ZZZZZZ	L359056.D	09/20/23	11:34	02:14	(unrelated sample)
JD73014-2	L359057.D	09/20/23	11:57	02:37	(used for QC only; not part of job JD72942)
ZZZZZZ	L359058.D	09/20/23	12:20	03:00	(unrelated sample)
ZZZZZZ	L359059.D	09/20/23	12:43	03:23	(unrelated sample)
ZZZZZZ	L359060.D	09/20/23	13:06	03:46	(unrelated sample)
ZZZZZZ	L359061.D	09/20/23	13:29	04:09	(unrelated sample)
ZZZZZZ	L359062.D	09/20/23	13:52	04:32	(unrelated sample)
ZZZZZZ	L359063.D	09/20/23	14:14	04:54	(unrelated sample)
ZZZZZZ	L359064.D	09/20/23	14:37	05:17	(unrelated sample)
ZZZZZZ	L359065.D	09/20/23	15:00	05:40	(unrelated sample)
JD73014-2MS	L359066.D	09/20/23	15:23	06:03	Matrix Spike
ZZZZZZ	L359068.D	09/20/23	16:09	06:49	(unrelated sample)
ZZZZZZ	L359069.D	09/20/23	16:32	07:12	(unrelated sample)
ZZZZZZ	L359070.D	09/20/23	16:55	07:35	(unrelated sample)
ZZZZZZ	L359071.D	09/20/23	17:18	07:58	(unrelated sample)
ZZZZZZ	L359072.D	09/20/23	17:41	08:21	(unrelated sample)
ZZZZZZ	L359073.D	09/20/23	18:04	08:44	(unrelated sample)
ZZZZZZ	L359074.D	09/20/23	18:27	09:07	(unrelated sample)
ZZZZZZ	L359075.D	09/20/23	18:50	09:30	(unrelated sample)
ZZZZZZ	L359076.D	09/20/23	19:13	09:53	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD72942
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample:	VL10934-BFB	**Injection Date:**	09/20/23
Lab File ID:	L359052.D	**Injection Time:**	09:20
Instrument ID:	GCMSL		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	L359077.D	09/20/23	19:36	10:16	(unrelated sample)
ZZZZZZ	L359078.D	09/20/23	19:59	10:39	(unrelated sample)
JD72942-7	L359079.D	09/20/23	20:22	11:02	GRAB 1 THROUGH 4 COMPOSITE-091523-BS

Surrogate Recovery Summary

Job Number: JD72942
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
JD72942-6	L359041.D	87	104	94	105
JD72942-7	L359079.D	88	100	94	107
JD72885-1MS	L359036.D	90	96	95	107
JD72885-1MSD	L359037.D	88	98	96	107
JD73014-2MS	L359066.D	86	94	94	105
VL10933-BS	L359033A.D	85	95	95	105
VL10933-MB	L359034.D	90	103	94	107
VL10934-BS	L359053A.D	87	96	92	103
VL10934-BSD	L359054.D	87	95	95	104
VL10934-MB	L359055.D	88	102	94	103

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: JD72942
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
OP49225B-MB1	F216436.D	1	09/21/23	KH	09/21/23	OP49225B	EF9580

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

JD72942-1, JD72942-2, JD72942-3, JD72942-4

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: JD72942
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
OP49225B-MB1	F216436.D	1	09/21/23	KH	09/21/23	OP49225B	EF9580

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

JD72942-1, JD72942-2, JD72942-3, JD72942-4

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	25%	10-110%
118-79-6	2,4,6-Tribromophenol	93%	35-147%
4165-60-0	Nitrobenzene-d5	93%	32-132%
321-60-8	2-Fluorobiphenyl	75%	40-117%
1718-51-0	Terphenyl-d14	56%	33-126%

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD72942
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
OP49225B-BS1	F216437.D	1	09/21/23	KH	09/21/23	OP49225B	EF9580
OP49225B-BSD	F216438.D	1	09/21/23	KH	09/21/23	OP49225B	EF9580

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

JD72942-1, JD72942-2, JD72942-3, JD72942-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	50	27.7	55	33.2	66	18	43-100/22
59-50-7	4-Chloro-3-methyl phenol	50	31.2	62	36.5	73	16	46-110/21
120-83-2	2,4-Dichlorophenol	50	35.4	71	39.2	78	10	44-109/21
105-67-9	2,4-Dimethylphenol	50	30.1	60	34.3	69	13	42-116/20
51-28-5	2,4-Dinitrophenol	100	121	121	120	120	1	38-131/27
534-52-1	4,6-Dinitro-o-cresol	50	68.5	137* [a]	73.8	148* [a]	7	50-124/26
88-75-5	2-Nitrophenol	50	57.4	115* [a]	64.5	129* [a]	12	44-109/21
100-02-7	4-Nitrophenol	50	11.2	22	13.7	27	20	14-110/23
87-86-5	Pentachlorophenol	100	73.4	73	82.9	83	12	25-128/25
108-95-2	Phenol	50	10.6	21	12.6	25	17	20-110/22
88-06-2	2,4,6-Trichlorophenol	50	37.8	76	41.4	83	9	52-118/24
83-32-9	Acenaphthene	50	33.1	66	37.8	76	13	47-110/24
208-96-8	Acenaphthylene	50	32.3	65	37.8	76	16	45-110/24
120-12-7	Anthracene	50	39.5	79	43.3	87	9	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	37.3	75	42.0	84	12	53-110/20
50-32-8	Benzo(a)pyrene	50	36.9	74	41.0	82	11	55-110/23
205-99-2	Benzo(b)fluoranthene	50	36.1	72	41.3	83	13	57-110/23
191-24-2	Benzo(g,h,i)perylene	50	43.1	86	48.1	96	11	51-110/23
207-08-9	Benzo(k)fluoranthene	50	36.9	74	40.7	81	10	56-110/22
101-55-3	4-Bromophenyl phenyl ether	50	38.8	78	43.7	87	12	51-112/23
85-68-7	Butyl benzyl phthalate	50	43.0	86	50.7	101	16	50-122/23
91-58-7	2-Chloronaphthalene	50	31.8	64	36.7	73	14	41-110/26
106-47-8	4-Chloroaniline	50	19.1	38	21.8	44	13	10-110/44
218-01-9	Chrysene	50	38.2	76	42.3	85	10	52-110/20
111-91-1	bis(2-Chloroethoxy)methane	50	37.4	75	42.7	85	13	36-110/21
111-44-4	bis(2-Chloroethyl)ether	50	34.6	69	41.2	82	17	40-111/21
108-60-1	2,2'-Oxybis(1-chloropropane)	50	33.3	67	40.7	81	20	37-110/25
7005-72-3	4-Chlorophenyl phenyl ether	50	32.7	65	37.6	75	14	48-110/25
95-50-1	1,2-Dichlorobenzene	50	27.6	55	35.8	72	26	35-110/28
122-66-7	1,2-Diphenylhydrazine	50	40.7	81	45.0	90	10	39-128/23
541-73-1	1,3-Dichlorobenzene	50	26.7	53	34.4	69	25	32-110/28
106-46-7	1,4-Dichlorobenzene	50	27.8	56	35.5	71	24	33-110/27
121-14-2	2,4-Dinitrotoluene	50	51.2	102	58.6	117	13	61-117/25
606-20-2	2,6-Dinitrotoluene	50	53.3	107	60.5	121* [a]	13	61-119/23
91-94-1	3,3'-Dichlorobenzidine	50	30.7	61	39.6	79	25	20-110/33

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD72942
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
OP49225B-BS1	F216437.D	1	09/21/23	KH	09/21/23	OP49225B	EF9580
OP49225B-BSD	F216438.D	1	09/21/23	KH	09/21/23	OP49225B	EF9580

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

JD72942-1, JD72942-2, JD72942-3, JD72942-4

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	44.7	89	49.3	99	10	55-110/25
84-74-2	Di-n-butyl phthalate	50	38.1	76	43.4	87	13	55-118/25
117-84-0	Di-n-octyl phthalate	50	39.1	78	45.0	90	14	49-124/26
84-66-2	Diethyl phthalate	50	34.6	69	40.6	81	16	54-113/23
131-11-3	Dimethyl phthalate	50	36.8	74	41.8	84	13	56-110/23
117-81-7	bis(2-Ethylhexyl)phthalate	50	41.8	84	48.0	96	14	50-120/22
206-44-0	Fluoranthene	50	38.0	76	41.9	84	10	55-111/23
86-73-7	Fluorene	50	34.1	68	39.3	79	14	51-110/25
118-74-1	Hexachlorobenzene	50	38.9	78	43.4	87	11	47-116/23
87-68-3	Hexachlorobutadiene	50	28.5	57	34.5	69	19	24-110/34
77-47-4	Hexachlorocyclopentadiene	100	58.2	58	65.8	66	12	10-110/39
67-72-1	Hexachloroethane	50	28.4	57	36.2	72	24	28-110/34
193-39-5	Indeno(1,2,3-cd)pyrene	50	42.5	85	47.0	94	10	51-112/24
78-59-1	Isophorone	50	38.8	78	43.4	87	11	42-111/20
91-20-3	Naphthalene	50	30.5	61	36.7	73	18	34-110/25
98-95-3	Nitrobenzene	50	44.7	89	52.0	104	15	39-110/21
62-75-9	n-Nitrosodimethylamine	50	14.3	29	16.8	34	16	15-110/19
621-64-7	N-Nitroso-di-n-propylamine	50	36.9	74	42.3	85	14	33-117/21
86-30-6	N-Nitrosodiphenylamine	50	40.2	80	44.1	88	9	54-110/24
85-01-8	Phenanthrene	50	38.6	77	42.5	85	10	53-110/23
129-00-0	Pyrene	50	40.7	81	46.2	92	13	52-110/22
120-82-1	1,2,4-Trichlorobenzene	50	28.8	58	34.8	70	19	30-110/29

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	28%	36%	10-110%
4165-62-2	Phenol-d5	20%	24%	10-110%
118-79-6	2,4,6-Tribromophenol	88%	98%	35-147%
4165-60-0	Nitrobenzene-d5	93%	108%	32-132%
321-60-8	2-Fluorobiphenyl	74%	82%	40-117%
1718-51-0	Terphenyl-d14	46%	49%	33-126%

(a) Outside of in house control limits.

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JD72942
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: EF9485-DFTPP
Lab File ID: F214603.D
Instrument ID: GCMSF
Injection Date: 06/09/23
Injection Time: 12:09

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	21287	41.4		Pass
68	Less than 2.0% of mass 69	85	0.17	(0.38) [a]	Pass
69	Mass 69 relative abundance	22456	43.6		Pass
70	Less than 2.0% of mass 69	127	0.25	(0.57) [a]	Pass
127	40.0 - 60.0% of mass 198	24067	46.8		Pass
197	Less than 1.0% of mass 198	167	0.32		Pass
198	Base peak, 100% relative abundance	51480	100.0		Pass
199	5.0 - 9.0% of mass 198	3659	7.11		Pass
275	10.0 - 30.0% of mass 198	14541	28.2		Pass
365	1.0 - 100.0% of mass 198	1970	3.83		Pass
441	Present, but less than mass 443	7705	15.0	(79.9) [b]	Pass
442	40.0 - 100.0% of mass 198	49925	97.0		Pass
443	17.0 - 23.0% of mass 442	9641	18.7	(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
EF9485-ICC9485	F214604.D	06/09/23	12:19	00:10	Initial cal 50
EF9485-IC9485	F214605.D	06/09/23	12:58	00:49	Initial cal 2
EF9485-IC9485	F214606.D	06/09/23	13:23	01:14	Initial cal 100
EF9485-IC9485	F214607.D	06/09/23	13:48	01:39	Initial cal 1
EF9485-IC9485	F214608.D	06/09/23	14:14	02:05	Initial cal 80
EF9485-IC9485	F214609.D	06/09/23	14:39	02:30	Initial cal 5
EF9485-IC9485	F214610.D	06/09/23	15:04	02:55	Initial cal 25
EF9485-IC9485	F214611.D	06/09/23	15:30	03:21	Initial cal 10
EF9485-ICV9485	F214612.D	06/09/23	15:55	03:46	Initial cal verification 50
EF9485-ICV9485	F214613.D	06/09/23	16:21	04:12	Initial cal verification 50
EF9485-ICV9485	F214614.D	06/09/23	16:46	04:37	Initial cal verification 50
EF9485-ICV9485	F214615.D	06/09/23	17:12	05:03	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD72942
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: EF9486-DFTPP
Lab File ID: F214616.D
Instrument ID: GCMSF
Injection Date: 06/10/23
Injection Time: 09:16

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	21591	40.1		Pass
68	Less than 2.0% of mass 69	316	0.59	(1.37) [a]	Pass
69	Mass 69 relative abundance	23010	42.7		Pass
70	Less than 2.0% of mass 69	295	0.55	(1.28) [a]	Pass
127	40.0 - 60.0% of mass 198	25932	48.1		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	53885	100.0		Pass
199	5.0 - 9.0% of mass 198	4021	7.46		Pass
275	10.0 - 30.0% of mass 198	15589	28.9		Pass
365	1.0 - 100.0% of mass 198	2060	3.82		Pass
441	Present, but less than mass 443	7777	14.4	(80.6) [b]	Pass
442	40.0 - 100.0% of mass 198	49725	92.3		Pass
443	17.0 - 23.0% of mass 442	9652	17.9	(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
EF9486-IC9486	F214617.D	06/10/23	09:31	00:15	Initial cal 100
EF9486-IC9486	F214618.D	06/10/23	09:56	00:40	Initial cal 80
EF9486-ICC9486	F214619.D	06/10/23	10:21	01:05	Initial cal 50
EF9486-IC9486	F214620.D	06/10/23	10:46	01:30	Initial cal 25
EF9486-IC9486	F214621.D	06/10/23	11:11	01:55	Initial cal 10
EF9486-IC9486	F214622.D	06/10/23	11:36	02:20	Initial cal 5
EF9486-IC9486	F214623.D	06/10/23	12:01	02:45	Initial cal 2
EF9486-IC9486	F214624.D	06/10/23	12:40	03:24	Initial cal 1
EF9486-ICV9486	F214625.D	06/10/23	13:05	03:49	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD72942
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: EF9580-DFTPP
Lab File ID: F216432.D
Instrument ID: GCMSF
Injection Date: 09/21/23
Injection Time: 14:45

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	16913	42.0		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	17831	44.3		Pass
70	Less than 2.0% of mass 69	147	0.37	(0.82) [a]	Pass
127	40.0 - 60.0% of mass 198	18903	47.0		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	40230	100.0		Pass
199	5.0 - 9.0% of mass 198	2722	6.77		Pass
275	10.0 - 30.0% of mass 198	11217	27.9		Pass
365	1.0 - 100.0% of mass 198	1533	3.81		Pass
441	Present, but less than mass 443	5546	13.8	(84.9) [b]	Pass
442	40.0 - 100.0% of mass 198	34366	85.4		Pass
443	17.0 - 23.0% of mass 442	6530	16.2	(19.0) [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
EF9580-CC9485	F216433.D	09/21/23	14:57	00:12	Continuing cal 50
EF9580-CC9486	F216434.D	09/21/23	15:23	00:38	Continuing cal 50
OP49225B-MB1	F216436.D	09/21/23	16:16	01:31	Method Blank
OP49225B-BS1	F216437.D	09/21/23	16:43	01:58	Blank Spike
OP49225B-BSD	F216438.D	09/21/23	17:09	02:24	Blank Spike Duplicate
ZZZZZZ	F216439.D	09/21/23	17:35	02:50	(unrelated sample)
ZZZZZZ	F216440.D	09/21/23	18:01	03:16	(unrelated sample)
ZZZZZZ	F216441.D	09/21/23	18:28	03:43	(unrelated sample)
ZZZZZZ	F216442.D	09/21/23	18:54	04:09	(unrelated sample)
ZZZZZZ	F216443.D	09/21/23	19:20	04:35	(unrelated sample)
ZZZZZZ	F216444.D	09/21/23	19:46	05:01	(unrelated sample)
ZZZZZZ	F216445.D	09/21/23	20:12	05:27	(unrelated sample)
ZZZZZZ	F216446.D	09/21/23	20:38	05:53	(unrelated sample)
ZZZZZZ	F216447.D	09/21/23	21:04	06:19	(unrelated sample)
ZZZZZZ	F216448.D	09/21/23	21:30	06:45	(unrelated sample)
ZZZZZZ	F216449.D	09/21/23	21:56	07:11	(unrelated sample)
ZZZZZZ	F216450.D	09/21/23	22:21	07:36	(unrelated sample)
JD72942-1	F216451.D	09/21/23	22:47	08:02	GRAB 1-091523-BSA DISCHARGE
JD72942-2	F216452.D	09/21/23	23:13	08:28	GRAB 2-091523-BSA DISCHARGE

Instrument Performance Check (DFTPP)

Job Number: JD72942
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample:	EF9580-DFTPP	**Injection Date:**	09/21/23
Lab File ID:	F216432.D	**Injection Time:**	14:45
Instrument ID:	GCMSF		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
JD72942-3	F216453.D	09/21/23	23:39	08:54	GRAB 3-091523-BSA DISCHARGE
JD72942-4	F216454.D	09/22/23	00:05	09:20	GRAB 4-091523-BSA DISCHARGE
ZZZZZZ	F216455A.D	09/22/23	02:21	11:36	(unrelated sample)

Surrogate Recovery Summary

Job Number: JD72942
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
JD72942-1	F216451.D	30	20	73	78	60	22* [a]
JD72942-2	F216452.D	33	22	82	85	65	20* [a]
JD72942-3	F216453.D	31	19	74	75	58	19* [a]
JD72942-4	F216454.D	30	21	73	80	63	18* [a]
OP49225B-BS1	F216437.D	28	20	88	93	74	46
OP49225B-BSD	F216438.D	36	24	98	108	82	49
OP49225B-MB1	F216436.D	41	25	93	93	75	56

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%

(a) Outside control limits due to matrix interference. There's no sample left to reextract.

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: JD72942
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP42024
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/21/23

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	17	77		
Antimony	6.0	1.7	4.1		
Arsenic	3.0	2.1	2.5		
Barium	200	.8	17		
Beryllium	1.0	.3	.5		
Bismuth	20	2.3	4.8		
Boron	100	2.3	85		
Cadmium	3.0	.3	1.2		
Calcium	5000	6.6	130		
Cerium	100				
Cobalt	50	.4	2.5		
Copper	10	.8	4.1	0.70	<10
Iron	100	5.3	30		
Lead	3.0	1.1	2.4		
Lithium	50	4.8	9.1		
Magnesium	5000	32	200		
Manganese	15	.1	2		
Molybdenum	20	.6	4.5		
Nickel	10	.4	1.8		
Phosphorus	50	1.2	14		
Potassium	10000	77	200		
Selenium	10	3.2	5.5		
Silicon	200	1.7	130		
Silver	10	1	2.4		
Sodium	10000	34	900		
Strontium	10	.3	1.6		
Sulfur	50	3	18		
Thallium	10	1.8	1.9		
Tin	50	.8	4.7		
Titanium	10	.5	1.9		
Tungsten	50	2.6	19		
Vanadium	50	.6	2.3		
Zirconium	10	.3	4.9		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD72942
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP42024 Methods: EPA 200.7
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 09/21/23

Metal	RL	IDL	MDL	MB raw	final

Associated samples MP42024: JD72942-5

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: JD72942
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP42024 Methods: EPA 200.7
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 09/21/23

Metal	JD73016-1 Original MS		Spikelot MP200.7A	% Rec	QC Limits
Aluminum	anr				
Antimony	anr				
Arsenic	anr				
Barium	anr				
Beryllium	anr				
Bismuth					
Boron					
Cadmium	anr				
Cerium					
Cobalt					
Copper	496	2080	2000	79.2	70-130
Iron	anr				
Lead	anr				
Lithium					
Manganese	anr				
Molybdenum	anr				
Nickel	anr				
Phosphorus					
Potassium					
Selenium	anr				
Silicon					
Silver	anr				
Sodium					
Strontium					
Thallium	anr				
Tin					
Titanium					
Tungsten					
Vanadium	anr				
Zirconium					

Associated samples MP42024: JD72942-5

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: JD72942
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP42024 Methods: EPA 200.7
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 09/21/23

Metal	JD73016-1 Original MSD		Spikelot MP200.7A	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Bismuth						
Boron						
Cadmium	anr					
Cerium						
Cobalt						
Copper	496	2160	2000	83.2	3.8	10
Iron	anr					
Lead	anr					
Lithium						
Manganese	anr					
Molybdenum	anr					
Nickel	anr					
Phosphorus						
Potassium						
Selenium	anr					
Silicon						
Silver	anr					
Sodium						
Strontium						
Thallium	anr					
Tin						
Titanium						
Tungsten						
Vanadium	anr					
Zirconium						

Associated samples MP42024: JD72942-5

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: JD72942
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP42024
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/21/23

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				
Cobalt				
Copper	1850	2000	92.5	85-115
Iron	anr			
Lead	anr			
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum	anr			
Nickel	anr			
Phosphorus				
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium	anr			
Strontium				
Sulfur				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium	anr			
Zirconium				

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD72942
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP42024
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/21/23

Metal	BSP Result	Spikelot MP200.7A % Rec	QC Limits

Associated samples MP42024: JD72942-5

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

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD72942
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP42024
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/21/23

Metal	JD73016-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Bismuth				
Boron				
Cadmium	anr			
Calcium				
Cerium				
Cobalt				
Copper	496	483	2.6	0-10
Iron	anr			
Lead	anr			
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum	anr			
Nickel	anr			
Phosphorus				
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium	anr			
Strontium				
Sulfur				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium	anr			
Zirconium				

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD72942
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP42024 Methods: EPA 200.7
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 09/21/23

	JD73016-1		QC
Metal	Original SDL 1:5	%DIF	Limits

Associated samples MP42024: JD72942-5

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: JD72942
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP42057 Methods: EPA 245.1
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 09/22/23

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.034	.092	0.095	<0.20

Associated samples MP42057: JD72942-5

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: JD72942
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP42057
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 09/22/23

Metal	JD73157-1 Original	MS	Spikelot HGPW3	% Rec	QC Limits
Mercury	0.081	2.3	2	111.0	70-130

Associated samples MP42057: JD72942-5

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: JD72942
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP42057 Methods: EPA 245.1
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 09/22/23

Metal	JD73157-1 Original	MSD	Spikelot HGPW3	% Rec	MSD RPD	QC Limit
Mercury	0.081	2.3	2	111.0	0.0	19

Associated samples MP42057: JD72942-5

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: JD72942
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP42057
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 09/22/23

Metal	BSP Result	Spikelot HGPW3	% Rec	QC Limits
Mercury	2.3	2	115.0	85-115

Associated samples MP42057: JD72942-5

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: JD72942
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	GP49346/GN46193	0.050	0.0	mg/l	0.4	0.38	95.0	80-120%
Solids, Total Suspended	GN46202	4.0	0.0	mg/l	50	50.1	100.2	84-111%

Associated Samples:
Batch GN46202: JD72942-5
Batch GP49346: JD72942-5
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD72942
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	GP49346/GN46193	JD72907-6	mg/l	0.29	0.29	0.0	0-38%
Solids, Total Suspended	GN46202	JD73065-1	mg/l	2.0	2.0	0.0	0-5%
pH	GN46100	JD72867-1A	su	7.17	7.13	0.5	0-10%

Associated Samples:
Batch GN46100: JD72942-5
Batch GN46202: JD72942-5
Batch GP49346: JD72942-5
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD72942
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	GP49346/GN46193	JD72907-6	mg/l	0.29	0.4	0.64	87.5	35-137%

Associated Samples:
Batch GP49346: JD72942-5
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

BUFFALO SEWER AUTHORITY
BPDES COMPLIANCE INSPECTION REPORT

SECTION A - GENERAL INFORMATION

NAME OF FACILITY Honeywell/Allied Landfill/Ranco Steel Remediation Sites

ADDRESS OF FACILITY 599 Tifft Street
Buffalo, New York 14220

COMPLIANCE STATUS

COMPLIANCE X

NONCOMPLIANCE _____

BPDES PERMIT NUMBER	DATE OF INSPECTION	TIME	INVESTIGATOR
21-12-B4098	10/31/23	10 (am)/pm	TA

SIC CODES 7699, _____ BPDES EXPIRATION DATE 11/30/24 EPA CATEGORY 40 CFR 403.

RESPONSIBLE OFFICIAL Sasa Jazic

TITLE Remediation Manager for Honeywell

PHONE (office) 518-390-1746 (cell) _____ EMAIL Sasa.Jazic@Honeywell.com

ADDRESS 115 Tabor Road, Morris Plains, New Jersey 07950

FACILITY REPRESENTATIVE John Formoza

TITLE Project Manager for Jacobs

PHONE (office) 315-468-1663 (cell) 315-532-5608 EMAIL John.Formoza@jacobs.com

ADDRESS 1563 Willis Avenue, Syracuse, NY 13204

ADDRESS OF PERMITTEE IF DIFFERENT FROM FACILITY (Including P.O. BOX, CITY and ZIP code)

Honeywell International, Inc.
115 Tabor Road, Morris Plains, NJ 07950

DATE OF PREVIOUS INVESTIGATION BY BSA 10/19/22

PREVIOUS FINDINGS Compliance

If deficiencies were found, have the deficiencies been corrected N/A

==========

SECTION B - FACILITY EVALUATION (S = Satisfactory, U = Unsatisfactory, N/A = Not Applicable)

	S	U	N/A
SECTION C. PERMIT VERIFICATION	✓		
SECTION D. RECORDS AND REPORTS	✓		
SECTION E. OPERATION AND MAINTENANCE	✓		
SECTION F. SPILL CONTROL/SOLVENT MANAGEMENT	✓		
SECTION G. SIGNIFICANT MERCURY SOURCE			✓
SECTION H. PRETREATMENT PROCESS			✓
SECTION I. ANNUAL COMPLIANCE STATUS	✓		
SECTION J. DISCHARGE OBSERVATIONS	✓		
SECTION K. SAMPLING PROCEDURES	✓		
SECTION L. EFFLUENT WITHIN PERMIT REQUIREMENTS	✓		

==========

SECTION C - PERMIT VERIFICATION

Description of Operations at Facility Groundwater collected from downgradient of the old part landfill.

1. IS THE BPDES DISCHARGE PERMIT ON SITE — Yes ✓ No ___
2. CORRECT NAME AND MAILING ADDRESS OF INDUSTRY ON PERMIT — Yes ✓ No ___
3. LOCATION AND NUMBER OF SAMPLING POINTS ARE AS DESCRIBED IN PERMIT — Yes ✓ No ___ N/A ___
4. ALL NECESSARY DISCHARGES ARE PERMITTED, number of sampling points 1 — Yes ✓ No ___ N/A ___
5. DISCHARGE PERMIT APPLICATION REVIEWED (with Facility Representative) — Yes ✓ No ___
   a. Any changes in: facility, operations, processes Yes ___ No ✓
   * b. Number of Work Shifts 1st ___ 2nd ___ 3rd ___
   c. Number of Employees per shift 1st ___ 2nd ___ 3rd ___ N/A
   d. Operating Hours 1st ___ 2nd ___ 3rd ___ Operating days per week ___ N/A
   e. Are there scheduled shut downs? Yes ___ No ✓ Seasonal? Yes ___ No ✓ N/A
6. DATE OF DISCHARGE PERMIT APPLICATION 5/26/21
7. NEW DISCHARGE PERMIT APPLICATION NEEDED — Yes ___ No ✓
8. FACILITY IS AS DESCRIBED IN DISCHARGE PERMIT APPLICATION (tour facility) — Yes ✓ No ___
** 9. PRINCIPAL PRODUCT(S) AND PRODUCTION RATES CONFORM WITH PERMIT APPLICATION — Yes ___ No ___ N/A ✓
10. TREATMENT PROCESSES ARE AS DESCRIBED IN DISCHARGE PERMIT APPLICATION — Yes ___ No ___ N/A ✓
11. NOTIFICATION GIVEN TO BSA OF NEW, INCREASED or DECREASED DISCHARGES — Yes ___ No ___ N/A ✓
12. DISCHARGING A HAZARDOUS WASTE — Yes ___ No ✓
    a. If yes, has the Buffalo Sewer Authority been properly notified — Yes ___ No ___
    b. Has the hazardous waste discharge volume or characteristic changed — Yes ___ No ___
13. ACCURATE RECORDS OF RAW WATER VOLUME MAINTAINED — Yes ✓ No ___
14. INSPECTION OBSERVATIONS VERIFY THE PERMIT — Yes ✓ No ___

Details * Desk visit monthly to remediation site
** No production, only groundwater

SECTION D - RECORDS AND REPORTS

1. ADEQUATE RECORDS MAINTAINED OF SELF MONITORING REPORTS — Yes ✓ No ___ N/A ___
   a. Monitoring and Analysis being performed more frequently than required — Yes ___ No ✓ N/A ___
   b. If yes, results submitted to Buffalo Sewer Authority — Yes ___ No ___ N/A ___
   c. Date of last self-monitoring report 6/6/23
2. MONITORING REPORTS and RECORDS (e.g. flow, pH, etc.) MAINTAINED A MINIMUM OF THREE YEARS, INCLUDING ALL ORIGINAL STRIP CHART RECORDINGS (e.g. continuous monitoring instrumentation, calibration and maintenance records) — Yes ✓ No ___ N/A ___
3. LAB EQUIPMENT CALIBRATION RECORDS KEPT (pH etc.) — Yes ___ No ___ N/A ✓
   a. DATE OF LAST CALIBRATION ___/___/___

4. FACILITY OPERATING RECORDS KEPT INCLUDING OPERATING LOGS:

   a. FOR EACH TREATMENT UNIT N/A — Yes ___ No ___

   b. DATE OF MAINTENANCE ON UNIT RECORDED N/A — Yes ___ No ___

   c. HOW OFTEN ARE EMPLOYEES TRAINED ON PROCEDURES N/A

Details All maintenance records are kept. There's a dialing system onsite to ensure everything's running properly. This system controls all alarms.

SECTION E - OPERATION AND MAINTENANCE

1. STANDBY POWER OR OTHER EQUIVALENT PROVISIONS PROVIDED — Yes ___ No ___ N/A ✓
2. ADEQUATE ALARM SYSTEM FOR POWER OR EQUIPMENT FAILURES AVAILABLE * — Yes ✓ No ___ N/A ___
3. SLUDGES, SOLIDS AND/OR HAZARDOUS WASTE PROPERLY DISPOSED, INCLUDING PROCESS WASTES — Yes ___ No ___ N/A ✓
4. DOCUMENTATION OF DISPOSED WASTE AVAILABLE (waste manifests) — Yes ✓ No ___
   a. DATE OF LAST DISPOSAL 6 / 8 / 21
5. ALL PRETREATMENT UNITS IN SERVICE — Yes ___ No ___ N/A ✓
6. OPERATION AND MAINTENANCE MANUAL MAINTAINED * — Yes ✓ No ___ N/A ___
   a. DATE OF LAST UPDATE 9 / ___ / 23
7. PRETREATMENT FACILITY PROPERLY OPERATED AND MAINTAINED — Yes ___ No ___ N/A ✓
   a. NUMBER OF EMPLOYEES TRAINED TO OPERATE TREATMENT FACILITY 3 → pumps only

Details * Centralized maintenance program installed in the computer system, auto-dialer system, non-hazardous pumps cleaned as needed. Log books are used.

SECTION F – SLUG CONTROL/SPILL CONTROL/SOLVENT MANAGEMENT PLAN(S)

1. DOES PERMITTEE NEED A SLUG CONTROL PLAN — Yes ___ No ✓
2. IS THE SLUG CONTROL PLAN ON SITE AND AVAILABLE — Yes ___ No ___ N/A ✓
3. DOES PERMITTEE HAVE OTHER APPROVED CONTROL PLANS (SPCC/ERP/SMP/SOM) List other control plans — Yes ___ No ___ N/A ✓
4. IS A TTO PLAN AN OPTION FOR THE FACILITY — Yes ___ No ___ N/A ✓
   a. IS TTO PLAN ADEQUATE — Yes ___ No ___ N/A ✓
5. SLUG CONTROL PLAN LAST UPDATED N/A ___/___/___
6. ANY SPILLS SINCE THE LAST INSPECTION? — Yes ___ No ✓
   a. WAS THE BSA NOTIFIED PROPERLY OF SPILL — Yes ___ No ___ N/A ✓
   b. DATE OF SPILL ___/___/___
7. SLUG CONTROL PLAN CONTAINS LIST OF ALL CHEMICALS IN HOUSE — Yes ___ No ___ N/A ✓
8. CHEMICALS PROPERLY STORED IN DESIGNATED AREAS — Yes ___ No ___ N/A ✓
9. SECONDARY CONTAINMENT REQUIRED — Yes ___ No ___ N/A ✓
   a. IS SECONDARY CONTAINMENT ADEQUATE — Yes ___ No ___ N/A ✓
10. CONTAINERS AND PROCESS TANKS IDENTIFIED — Yes ___ No ___ N/A ✓
11. FACILITY'S EMERGENCY PLAN (EP) POSTED IN APPROPRIATE AREAS — Yes ✓ No ___ N/A ___
    a. POSTED EMERGENCY PLAN HAS BSA PHONE NUMBER — Yes ✓ No ___ N/A ___
    b. POSTED EMERGENCY PLAN HAS LIST OF PERSONS TO NOTIFY — Yes ✓ No ___ N/A ___
    c. WHEN WAS THE LAST EMPLOYEE TRAINING CONDUCTED ON EP 8 / ___ / 22

12. SPILL CONTAINMENT MATERIAL AVAILABLE AND PROPERLY LABELED Yes____ No____ N/A ✓

Details _____

_____

==========

SECTION G – SIGNIFICANT MERCURY SOURCE/MERCURY MINIMIZATION PLAN

1. IS MERCURY USED IN THE PROCESS? YES _____ NO ✓
2. IS MERCURY PRESENT IN ANY INSTRUMENTS/GAUGES OR MACHINERY USED IN THE FACILITY?
   YES _____ NO ✓
   IF YES, WHERE? _____
3. HAS MERCURY BEEN DETECTED IN THE MONITORING? YES _____ NO ✓
   IF YES, WHEN ____/____/____, AMOUNT _____
   COMMENTS _____
4. DOES THE FACILITY HAVE A MERCURY MINIMIZATION/REDUCTION PLAN? YES _____ NO ✓

==========

SECTION H – PRETREATMENT PROCESS

1. IS THE PROCESS WASTEWATER PRETREATED BEFORE DISCHAGRE? Yes____ No ✓
2. WHAT TYPE OF PRETREATMENT PROCESS IS USED? N/A
3. WHAT TYPE OF PRETREATMENT EQUIPMENT IS INSTALLED? N/A
4. IS THE WASTEWATER (CONTINUOS FLOW, BATCH, COMBINED) circle one
5. DOES THE FACILITY USE A pH PROBE/ METER BEFORE DISCHARGE? Yes____ No ✓
6. THE pH PROBE/METER IS CALIBRATED (Daily/Weekly) circle one N/A
7. THE pH CALIBRATION IS RECORDED IN (logbook/computer/other) circle one N/A
8. EXPIRATION DATE OF BUFFER SOLUTIONS USED TO CALIBRATE THE pH PROBE N/A ____/____/____
9. DOES THE FACILITY USE NONYLPHENOLS ETHOXYLATES (in their process or cleanup)? Yes____ No____ N/A ✓

Details _____

==========

SECTION I - ANNUAL COMPLIANCE STATUS

1. NON-COMPLIANCE SINCE LAST COMPLIANCE INSPECTION Yes____ No ✓
   Date: ____/____/____
2. SIGNIFICANT NON-COMPLIANCE SINCE LAST COMPLIANCE INSPECTION Yes____ No____

Details _____

_____

COMPLIANCE SCHEDULE Yes____ No____ N/A ✓

Date Issued: ____/____/____ Date Completed: ____/____/____

THE PERMITTEE HAS REQUESTED AN EXTENSION OF TIME N/A Yes____ No____

PERMITTEE IS MEETING COMPLIANCE SCHEDULE N/A Yes____ No____

Details _____

_____

SECTION J - DISCHARGE OBSERVATIONS

Outfall No.	Oil Sheen	Grease	Turbidity	Foam	Floating Solids	Color	Odor	Other

2022 Annual BSA Sampling Results Already Provided

Date Observed ____/____/____

Field Technician Signature _____ Date _____

SECTION K- SAMPLING INSPECTION PROCEDURES AND OBSERVATIONS

___ GRAB SAMPLES OBTAINED
___ COMPOSITE OBTAINED
___ FLOW PROPORTIONED SAMPLE
___ AUTOMATIC SAMPLER USED
___ SAMPLE SPLIT WITH PERMITTEE
___ CHAIN OF CUSTODY EMPLOYED
___ SAMPLE OBTAINED FROM FACILITY SAMPLING DEVICE

COMPOSITING FREQUENCY _____

PRESERVATION _____

SAMPLE REFRIGERATED DURING COMPOSITING Yes ___ No ___

Field Technician Signature _____ Date _____

SECTION L - ANALYTICAL RESULTS ATTACHED: Yes ___ No ___ PENDING ✓

Details annual 2023 BSA sampling results

SECTION M - INSPECTION/REVIEW

	SIGNATURES	AGENCY	DATE
INSPECTED BY:	Maserra Adams	BSA	10-31-23
INSPECTED BY:			
REVIEWED BY:			

ADDITIONAL NOTES: add'l Facility Rep: Michael Fay, Environmental Engineer for Jacobs
1563 Willis Avenue, Syracuse, NY 13204
315-436-0213: cell
Michael.Fay@jacobs.com: email

ATTACHMENT B.7

ANNUAL GROUNDWATER MONITORING DATA

Jacobs

Well Sampling Form

Project Name: ALLTIFT LANDFILL
Location: 579 TIFFT ST. BUFFALO NY
Sampling Event: ANNUAL
Job #:

Date: 09-11-2025
Field Team: DH
Field Conditions: 71°F, P. cloudy, wind 5MPH ESE

Well / Sample #: MW-2
Initial DTW: 6.74
Purge Method (circle): Submersible (Peristaltic) Ded. Pump Other:
Sample Method: ↓

Start Time: [illegible] End Time: 1200
Measure Point (circle): TOC (PVC) Steel Other:

Sample ID: MW-2
~~Dup. Sample ID~~
~~QC Sample ID~~

Sample Time: 1141
~~Dup. Time:~~
~~QC Time:~~

Depth to Bottom (from meas. pt., ft.): 16.93
Min. Purge Vol. (gal. or L): [illegible]
Purge Rate (gpm or (mL/m)): 200

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.
1100	Ø	START	PUMP					6.74
1110	2.0	8.69	1.179	6.22	3.45	17.7	107.9	8.34
1115	3.0	8.57	1.168	6.61	3.91	17.6	118.8	8.45
1120	4.0	8.53	1.154	6.57	4.14	17.5	127.8	8.55
1125	5.0	8.48	1.145	6.79	4.50	18.1	140.4	8.63
1130	6.0	8.55	1.134	7.09	4.81	17.6	147.8	8.74
1135	7.0	8.51	1.122	7.14	4.85	17.8	156.4	8.86
1140	8.0	8.55	1.117	7.24	4.76	17.9	162.8	8.94
1141	SAMPLES	TAKEN						

Sample Collection Information

Parameter	Bottle Type	Volume	Quantity	Preservative	Field Filtered(Y/N)	Sample Taken(Y/N)	Notes
8260	VOA	40mL	4	NONE	N	Y	
1633	HDPE	VARIOUS	3	NONE	N	Y	
8270SIM, 8270	AMBER	1L	2	NONE	N	Y	
[illegible]	POLY	.5L	1	HNO3	N	Y	

Notes

PURGE WATER CLEAR, MILD ODOR

Jacobs

Well Sampling Form

Project Name: ALLTIFT LANDFILL
Location: 579 TIFFT ST. BUFFALO NY
Sampling Event: ANNUAL
Job #:

Date: 09-11-2023
Field Team: ~~BA~~
Field Conditions: 72°F, SUNNY, WIND 6MPH SSE

Well / Sample #: SUMP-1
Initial DTW: 5.71

Start Time: 1200
End Time: ~~1300~~ 1315

Purge Method (circle):
Submersible | Peristaltic | Ded. Pump | Other: _____
Sample Method:

Measure Point (circle): TOC
PVC | Steel | Other: _____

Sample ID: SUMP-1
Sample Time: 1255
~~Dup. Sample ID~~
~~Dup. Time:~~
~~QC Sample ID~~
~~QC Time:~~

Depth to Bottom (from meas. pt., ft.): 16.97
Min. Purge Vol. (gal. or (L)): N/A
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.
1215	0	START	PUMP					5.71
1225	3.0	8.26	1.844	44.86	0.65	18.6	-53.6	5.70
1230	4.5	8.29	1.861	43.06	0.63	18.5	-61.6	5.70
1235	6.0	8.31	1.868	42.80	0.61	18.9	-71.8	5.68
1240	7.5	8.34	1.878	42.35	0.60	18.3	-75.2	5.67
1245	9.0	8.34	1.891	39.09	0.59	18.6	-79.0	5.65
1250	10.5	8.35	1.902	37.74	0.58	18.8	-83.8	5.63
1255	12.0	8.38	1.896	36.02	0.60	18.2	-81.9	5.60
1257		SAMPLE	TAKEN					
1305	ADD 1 GAL. TO SUMP COMPOSITE							

Sample Collection Information

Parameter	Bottle Type	Volume	Quantity	Preservative	Field Filtered(Y/N)	Sample Taken(Y/N)	Notes
8260	VOA	40mL	4	NONE	N	Y	
1633	HDPE	VARIOUS	3	↓	N	Y	

Notes

SYSTEM PUMP SHUT OFF PRIOR TO SAMPLING, WATER LEVELS STILL RISING THROUGHOUT SAMPLING.

PURGE WATER HAS ORANGE TINT.

ADD 1 GAL. TO SUMP COMPOSITE

Jacobs

Well Sampling Form

Page 1 of 1

Project Name: ALLTIFT LANDFILL
Location: 579 THOMPSON ST, BUFFALO NY
Sampling Event:
Job #:

Date: 09-11-2023
Field Team: BJH
Field Conditions: 70°F, P. SUNNY, WIND 5MPH SE

Well / Sample #: SUMP-2
Initial DTW: 9.88
Purge Method (circle): Submersible / Peristaltic / Ded. Pump / Other:
Sample Method:

Start Time: 1325 End Time: 1425
Measure Point (circle): TOC
PVC / Steel / Other:

Sample ID: SUMP-2 Sample Time: 1412
Dup. Sample ID: Dup. Time:
QC Sample ID: QC Time:
Depth to Bottom (from meas. pt., ft.): 23.20 Min. Purge Vol. (gal. or L): N/A Purge Rate (gpm or mL/min): 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.
1335	0	START	PUMP					9.88
1340	1.5	7.79	4.573	16.33	0.84	15.9	-1.8	9.81
1345	3.0	8.01	4.570	15.67	0.78	15.8	-27.6	9.76
1350	4.5	8.07	4.566	14.80	0.73	15.9	-34.2	9.68
1355	6.0	8.12	4.554	13.91	0.69	15.9	-42.9	9.60
1400	7.5	8.16	4.547	13.82	0.67	16.1	-50.7	9.51
1405	9.0	8.17	4.550	13.61	0.66	16.1	-59.3	9.48
1410	10.5	8.18	4.546	13.56	0.65	16.4	-61.2	9.42
1412	SAMPLE TAKEN							
1415	1 GAL. ADDED TO SUMP COMPOSITE							

Sample Collection Information

Parameter	Bottle Type	Volume	Quantity	Preservative	Field Filtered(Y/N)	Sample Taken(Y/N)	Notes
8260	VOA	40mL	4	NONE	N	Y	
1633	HDPE	VARIOUS	VARIOUS	NONE	N	Y	

Notes

SYSTEM COLLECTION PUMP SHUT OFF PRIOR TO SAMPLING, WATER LEVEL STILL EQUALIZING THROUGHOUT SAMPLING

PURGE WATER CLEAR, CONTAINS SOME SEDIMENT FLECKS.

ADD 1 GAL. TO SUMP COMPOSITE

Jacobs

Well Sampling Form

Project Name: ALLTIFT LANDFILL
Location: 579 TIFFT ST, BUFFALO NY
Sampling Event: ANNUAL
Job #:

Date: 09-11-2023
Field Team: BLT
Field Conditions: 76°F, SUNNY, WIND 5MPH SSE

Well / Sample #: SUMP - 3
Initial DTW: 8.11
Purge Method (circle): Submersible (Peristaltic) Ded. Pump Other: _____
Sample Method: ↓

Start Time: 1520 End Time: 1640
Measure Point (circle): TOC
PVC (Steel) Other: _____

Sample ID: SUMP - 3
~~Dup. Sample ID~~
~~QC Sample ID~~

Sample Time: 1622
~~Dup. Time:~~
~~QC Time:~~

Depth to Bottom (from meas. pt., ft.): 17.35
Min. Purge Vol. (gal. or L): N/A
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.
1540	0	START	PUMP					8.11
1550	3.0	7.68	4.141	11.07	0.91	18.5	48.0	8.19
1555	4.5	7.68	4.108	10.01	0.85	18.1	39.4	8.23
1600	6.0	7.68	4.066	8.90	0.78	17.8	24.1	8.27
1605	7.5	7.64	3.916	6.59	0.73	18.4	0.6	8.27
1610	9.0	7.69	3.863	5.86	0.71	17.7	-8.1	8.27
1615	10.5	7.71	3.801	4.97	0.70	17.9	-12.7	8.27
1620	12.0	7.71	3.773	4.81	0.68	17.9	-17.6	8.27
1622	SAMPLES TAKEN							
1640	ADD 1 GAL. TO SUMP			COMPOSITE				

Sample Collection Information

Parameter	Bottle Type	Volume	Quantity	Preservative	Field Filtered(Y/N)	Sample Taken(Y/N)	Notes
8260	VOA	40mL	4	None	N	Y	
1633	HDPE	VARIOUS	3	↓	↓	↓	

Notes

PURGE WATER CLEAR, NO ODOR.

ADD 1GAL TO SUMP. COMPOSITE.

Jacobs

Well Sampling Form

Project Name: ALTIFT LANDFILL
Location: 579 TIFFT ST, BUFFALO NY
Sampling Event: ANNUAL
Job #:

Date: 09-11-2023
Field Team: ~~JH~~
Field Conditions: 74°F, SUNNY, WIND 5 MPH SE

Well / Sample #: SUMP-4
Initial DTW: 6.69
Purge Method (circle): Submersible (Peristaltic) Ded. Pump Other: _____
Sample Method: ↓

Start Time: 1655 End Time: 1900

Measure Point (circle): PVC (Steel) Other: _____

Sample ID: SUMP-4
Dup. Sample ID: SUMP-4-FD
QC Sample ID: SUMP-4-MS, SUMP-4-MSD

Sample Time: 1730
Dup. Time: 1730
QC Time: 1730

Depth to Bottom (from meas. pt., ft.): 18.00
Min. Purge Vol. (gal. or (L)): N/A
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.
1655	Ø — START PUMP —							6.69
1705	3.0	7.48	3.146	5.62	0.75	17.6	-17.5	6.87
1710	4.5	7.70	3.151	4.41	0.72	17.8	-26.4	6.90
1715	6.0	7.79	3.157	4.06	0.67	17.9	-32.5	6.91
1720	7.5	7.79	3.151	4.22	0.64	18.0	-35.3	6.93
1725	9.0	7.76	3.156	4.24	0.65	18.0	-39.0	6.94
1730	10.5	7.75	3.149	4.25	0.65	18.1	-41.3	6.94
1735	12.0	7.73	3.143	4.27	0.66	18.1	-46.9	6.94
1738	— SAMPLES TAKEN —							
1830	~~950~~ ADD 1 GAL. TO SUMP COMPOSITE.							

Sample Collection Information

Parameter	Bottle Type	Volume	Quantity	Preservative	Field Filtered(Y/N)	Sample Taken(Y/N)	Notes
4X 8260	VOA	40AL	4	NONE	N	Y	
4X 1633	HDPE	VARIOUS	3	↓	↓	↓	
4X 8270; 8270 SIM	AMBER	1L	2	↓	↓	↓	
4X 6010, 6020, 7470	POLY	.5L	1	HNO3	↓	↓	

Notes

PURGE WATER CLEAR, NO ODOR.

ADD 1 GAL. TO SUMP COMPOSITE.

MS, MSD, FD SAMPLED HERE.

YSI CALIBRATION RECORD

PROJECT NAME:	ALLTIFT LANDFILL ANNUAL GWS	TASK NO:		DATE:	05-11-2023
PROJECT NUMBER:		FIELD CREW:	B. HENDRY		
PROJECT LOCATION:	579 TIFFT ST. BUFFALO NY	SAMPLER NAME:	↓		
WEATHER CONDITIONS (AM):	70°F, CLEAR, WIND 5 MPH ESE	SAMPLER SIGNATURE:	B. Hdy		
WEATHER CONDITIONS (PM):	74°F, CLEAR, WIND 6 MPH SE	CHECKED BY:	B. HENDRY	DATE:	05-11-2023

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	9.98	+/- 0.1 pH Units
ORP	+/- mV	240	241	+/- 10 mV
Conductivity	mS/cm	1.413	1.413	+/- 3% of standard
DO	%	Saturated (100)	97.8	< 3 %
Temperature	°C	Ambient Temp.	21.1	
Turbidity	NTU	0	Ø	+/- 5% of standard
Turbidity	NTU	126	126.1	+/- 5% of standard

Ambient temperature at time of calibration: 70°F / 21°C °C

PM CALIBRATION CHECK

Standard Value	Meter Value	*Acceptance Criteria (PM)
7.0	7.01	+/- 0.3 pH Units
240	243	+/- 10 mV
1.413	1.414	+/- 5% of standard
Saturated (100)	98.2	< 3 %
Temperature	24.4	°C
126	126.0	+/- 5% of standard

Ambient temperature at time of check: 24°C / 75°F °C

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 – ALL HDPE & SILICON
- ☒ No waterproof field books on-site
- ☒ 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 → HDPE COOLERS USED

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. → LAB TESTED DI WATER
- ☒ Alconox and Liquinox to be used as decontamination materials → LIQUINOX

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

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 43870
Description YSI ProDSS Sonde
Calibrated 9/5/2023 12:58:52PM

Manufacturer YSI
Model Number Pro DSS
Serial Number/ Lot Number 18K101872
Location New York
Department

State Certified
Status Pass
Temp °C 24
Humidity % 67

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	7.15	6.91	-1.29%	Pass
4.00 / 4.00	PH	4.00	PH	4.11	3.98	-0.50%	Pass
10.00 / 10.00	PH	10.00	PH	9.89	10.06	0.60%	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	126.00	122.00	-1.61%	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	1.394	1.416	0.21%	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	231.00	241.00	0.42%	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 43870
Description YSI ProDSS Sonde
Calibrated 9/5/2023 12:58:52PM

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	%	101.60	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 - 3GD400	NYS ORP 240	AquaPhoenix Scientific	32001			1/31/2024
NYS PH 10 - 1GF458	NYS PH 10	AquaPhoenix Scientific	32034	16F458		6/30/2023
NYS PH 4 - 2GC933	NYS PH 4	AquaPhoenix Scientific	32017			3/31/2024
NYS PH 7 - 2GC931	NYS PH 7	AquaPhoenix Scientific	32025	2GC931		3/31/2024
NYS TURB 0 NTU - 22250153	0 NTU TURBIDITY STANDARD	AMCOCLEAR	32101			8/31/2023
NYS TURB 124 NTU - 22J22420134	124 NTU TURBIDITY STANDARD	YSI	31963			10/31/2023

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Joseph P. Burkhart

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#	43870
Display ID#	42061
Date Calibrated	9/5/2023

PINE
www.pine-environmental.com

Standard Items	**Prepared**	**QC check**	**Received by customer**	**Returned to Pine**
YSI ProDSS sonde w/ 10 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) Threaded locking rings • (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), 1.413 mS/cm conductivity, 124 NTU, 0.0 NTU, and ORP	✓	✓		
ProCal Calibration Sheet	✓			
Supporting Items				
Probe guard weight (required w/ cables > 10m.)				

Prepared by: JB
QC checked by: JB
Date: 9-5-23

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

PINE

Staging Document

Warehouse..... Q13 NY - Syracuse Rental
Consignee..... X13 Pine Environmental
Delivery method Pick Up from PINE Office
Delivery no.... 5000308795

Agreement # A921744
Print date / time 090523 / 16:03
Staging created by BJENNINGS
Attn..... BEN HENDRY
Phone.....

Customer Address
Ben Hendry
1563 Willis Ave
SYRACUSE, NY - 13204

Staging Location
Pine Environmental Services, LLC
405 Cambridge Ave
Syracuse, NY - 13208
United States

Item Number / Item Name	Line	Lot No/PID	Alloc Qty	U/M
56029 YSI ProDSS-10 Multimeter To location 53034001	1	43870	1	EA
55020 YSI ProDSS Display To location 53034001	2	42061	1	EA
94703 YSI ProDSS Flow Cell To location 53034001	3	1	1	EA
51860 Pine Peri Pump DC Only To location 53034001	4	51335	1	EA
90238 12V Rechargeable Battery-small To location 53034001	5	1	1	EA

Not allocated

PINE

Staging Document

Warehouse..... T13 NY - Syracuse Sales
Consignee..... X13 Pine Environmental
Delivery method Pick Up from PINE Office
Delivery no.... 5000308796

Agreement # A921744
Print date / time 090523 / 16:03
Staging created by BJENNINGS
Attn..... BEN HENDRY
Phone.....

Customer Address
Ben Hendry
1563 Willis Ave
SYRACUSE, NY - 13204

Staging Location
Pine Environmental Services, LLC
405 Cambridge Ave
Syracuse, NY - 13208
United States

Item Number / Item Name	Line	Lot No/PID	Alloc Qty	U/M
74101 Tubing Silicone 3/16ID x 3/8OD To location 53034001	1	25	25,00	FT
74284 Tubing HDPE 0.17ID x1/4OD 100' To location 53034001	2	1	1,0	ROL

Not allocated

Control #: PREM-JS-09523-87 CSR: JADONS

Date/Time: 9/5/2023 4:42:53 PM

Delivery and Pick Up Request

THIS FORM MUST BE RETURNED WITH COOLER

Client: Wood Environment & Infrastructure Soln. Project #:

Requested By: Ben Hendry Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo,

Delivery Mode: Ship Shipping Mode: Ground

Tracking #:

Date and Time to: Ship Date: 9/6/2023 Time: ANY

Earliest Date: Earliest Time:

Deliver bottle order to: JACOBS

Address: 1563 Willis Ave

City: Syracuse State: NY Zipcode: 13204

Delv Contact: Ben Hendry Phone: 315-806-4029

Deliverable Package: TAT: (in Days)

Include with the order: ☐ Extra Labels ☑ COC's ☐ Pre-Paid return labels ☐ Client Welcome Kit

Special Instructions: Please send FedEx Return Label and pack in IGLOO Coolers

1. Prepared / Relinquished By: WJ.	1. Date / Time 9/5/23 16:45	1. Received By
2. Relinquished By	2. Date / Time	2. Received By

# of Samples	Matrix	Analyses Requested	Special Kits Requeste
24	AQ	V624PPL,	
2	TB	V624PPL,	
12	AQ	B8270NAP, BMS+4ANILINE, B8270SIM14DIOX,	
3	AQ	METALS,	
10	AQ	LCID1633LIST40,	
3	FB	LCID1633LIST40,	

Water and Non Methanol Field Blanks

Date:	Time:	Initials:
9/6/23	10:00	WJ.

of Coolers in order 5

http://www.sgs.com/en/terms-and-conditions

Special Trip Blanks

Date:	Time:	Initials:
9/26/23	10:00	WJ.

Custody Seal #'s: QC209 - 218

Client to note return seal number(s) on Chain of Custody

Bottle Configuration Sheet
For Order #: PREM-JS-09523-87
(Unused bottles/supplies are billable if returned)

Sample Set 1	24	AQ	V624PPL,

Test Code	# of containers to fill per sample	Bottle Lot #	Pres Lot
V624PPL	(4) 40 ml Vial - NP		NA

Sample Set 2	2	TB	V624PPL,

Test Code	# of containers to fill per sample	Bottle Lot #	Pres Lot
V624PPL	(2) 40ml Vial - HCL	2711	NA

Sample Set 3	12	AQ	B8270NAP, BMS+4ANILINE, B8270SIM14DIOX,

Test Code	# of containers to fill per sample	Bottle Lot #	Pres Lot
B8270SIM14DIOX,B8270NAP,BMS+4ANILINE	(2) 1L AG - NP		NA

Sample Set 4	3	AQ	METALS,

Test Code	# of containers to fill per sample	Bottle Lot #	Pres Lot
METALS	(1) 500ml HDPE - HNO3	22436	MP-21-60-EXP.11/09

Sample Set 5	10	AQ	LCID1633LIST40,

Test Code	# of containers to fill per sample	Bottle Lot #	Pres Lot
LCID1633LIST40	(2) 500ml HDPE, (1) 60ml HDPE - NP		NA

Sample Set 6	3	FB	LCID1633LIST40,

Test Code	# of containers to fill per sample	Bottle Lot #	Pres Lot
LCID1633LIST40	(2) 500ml HDPE, (1) 60ml HDPE - NP		NA

P/M

JD72646

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

Honeywell

Chain of Custody / Analysis Request

Save with QC Check: Gray Cells Required | More Columns | Print Short COC | Print Expanded COC

Pricing Source (RFP, eAuction, etc)	RFP2019	HW Site Name	Buffalo Alltift Landfill
Email of person receiving EDD	EQUIS	Location of Site	579 Tifft Street, Buffalo NY
Sampler(s) names	Benjamin Hendry - 315-806-4029		
PO #	HW PO # A001457165		
Analysis Turnaround Time (calendar days):	Standard TAT		
Consultant	Jacobs		
Laboratory Contact	Jadon Schiller		
Report Tier Level	2		
Full Report and EDD TAT (calendar days)	TAT (days)		
Honeywell RM Name	Shane Blauvelt (SRB)		

Task Type	OM&M	
WBS Code	6400	
Lab Proj # (SDG):		
Lab Location ID	ACTD	
HW Site R-Code	R31030	
Sampling Program	Annual	
Authorized User:	Honeywell	
Lab Parent ID	SGS	

Text & Excel File Drive | Excel & Text File Order

[redacted]

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AESI Ref:	45181.67563	
COC#	091123-Alltift	
	Page 1 of 1	

Reporting Information (DocuSign First Signer)

Name	Jacobs
Address	1563 Willis Ave.
City, State, Zip	Syracuse, NY 13204
Contact; email	Mike Fay, michael.fay@jacobs.com

Billing Information (DocuSign Second Signer)

Co. Name	Honeywell
Address	301 Plainfield Road, Suite 330
City, State, Zip	Syracuse, NY 13202
HW RM email	Shane.Blauvelt@honeywell.com

[redacted]

Sampling Co.: Jacobs

Sample Identification					Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Medium	# of Cont.	Composite (Y, N)	Field Filtered Sample (Y, N)	EPA 8260 - Benzene, chlorobenzene, ethylbenzene, xylenes, 1,2-dichlorobenzene, 1,2-dichlorobenzene (NP VOAs)	EPA 1633	EPA 8270 Naphthalene, 4-chloroaniline	EPA 8270 SIM, 1,4-dioxane	EPA 6010, 6020, 7470: Antimony, arsenic, cadmium, chromium, iron, lead, manganese, mercury	Sampling Method (rt_sample_method)	Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID															
											Units								
											Analytical Group Name								
											Preservative		1	1	1	4			
1	Sump-1	5.71	5.60	1 Sump-1	09-11-2023	1257	REG	GW	Water	7	N	N	4	3					E14
2	Sump-2	9.88	9.42	2 Sump-2	09-11-2023	1412	REG	GW	Water	7	N	N	4	3					A18
3	Sump-3	8.11	8.27	3 Sump-3	09-11-2023	1622	REG	GW	Water	7	N	N	4	3					
4	Sump-4	6.69	6.94	4 Sump-4	09-11-2023	1738	REG	GW	Water	10	N	N	4	3	2	1			
5	Sump-4	6.69	6.94	4 Sump-4-MS	09-11-2023	1738	MS	WQ	Water	10	N	N	4	3	2	1			
6	Sump-4	6.69	6.94	4 Sump-4-MSD	09-11-2023	1738	MSD	WQ	Water	10	N	N	4	3	2	1			
7	Sump-4	6.69	6.94	5 Sump-4-FD	09-11-2023	1738	FD	WQ	Water	10	N	N	4	3	2	1			
8	N/A	---	---	6 Sump-Comp	09-11-2023	1845	REG	GW	Water	6	Y	N		3	2	1			
9	MW-2	6.74	8.94	7 MW-2	09-11-2023	1141	REG	GW	Water	10	N	N	4	3	2	1			
10	N/A	---	---	8 Trip Blank	09-11-2023	---	TB	WQ	Water	2	N	N	2						
11	N/A	---	---	9 Trip Blank 2	09-11-2023	---	TB	WQ	Water	3	N	N		3					
12	N/A	---	---	10 Field Blank	09-11-2023	1500	FB	WQ	Water	3	N	N		3					

Initial Assessment

Label Verification

SEE SPECIFIC ANALYSES ABOVE #
For COC questions, contact sampler.

Relinquished by	Company	Jacobs	Received by	Company		Condition	
	Date/Time	09-11-23/1645	FEDEX	Date/Time		Cooler Temp.	CTP 5.0°
Relinquished by	Company		Received by	Company		Condition	4.7
	Date/Time		FED	Date/Time		Cooler Temp.	

Custody Seals Intact

Custody Seals Intact

Lab Quote #

FedEx Tracking #

Preservatives: (Other; Specify):

0 (None); 1 (4 Deg C); 2 (4C HCl-Na2SO3 (pH<2)); 3 (4C HNO3); 4 (4C HNO3 (pH<2)); 5 (4C none); 6 (4CH2SO4pH<2)Na2S2O3); 7 (4CNaOH(pH>12)&AscAcl); 8 (ASCACl); 9 (BrCl); 10 (DI H2O); 11 (EDTA); 12 (H2O); 13 (H2SO4 (pH<2)); 14 (H2SO4 (pH<2), 4 DegC); 15 (H3PO4); 16 (HCl); 17 (HCl (pH<2)); 18 (HCl (pH<2), 4 Deg C); 19 (HCL, 4 Deg C); 20 (HNO3 (pH<2)); 21 (HNO3 (pH<2), 4 Deg C); 22 (MCAA,Na2SO3); 23 (Methanol); 24 (Na2SO3); 25 (Na2SO4); 26 (Na3PO4); 27 (NaHSO4); 28 (NaOH); 29 (NaOH (pH>12)); 30 (NaOH (pH>12), 4 DegC); 31 (NaOH, Zn Acetate); 32 (Nitric Acid, 4 Deg C); 33 (Other); 34 (Zn Acetate); sp (Special);

JR 40

SGS Sample Receipt Summary

Job Number: JD72646 **Client:** HONEYWELL **Project:** R31030

Date / Time Received: 9/13/2023 10:05:00 AM **Delivery Method:** FEDEX **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (5.0); Cooler 2: (4.7);

Cooler Temps (Corrected) °C: Cooler 1: (4.7); Cooler 2: (4.4);

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

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	IR Gun 40	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	2	

Quality Control Preservatio	Y	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	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

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

Sample Integrity - Instructions	Y	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. -4 Received one 950ml EX bottle broken.

Responded to by: Jadon Schiller

Response Date: 9/13/23

okay to proceed with limited volume.

Job Change Order: JD72646

Requested Date:	9/28/2023	**Received Date:**	9/13/2023
Account Name:	Honeywell International Inc. OMM	**Due Date:**	9/28/2023
Project Description:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Bu	**Deliverable:**	COMMBN
C/O Initiated By:	MICHELLE_ **PM:** JBS	**TAT (Days):**	1

==========

Sample #: JD72646-1 thru -5, -7, -8 **Dept:**

Client ID: **TAT:** 1

Change: Relog/retrieve for VR826014DCB

Above Changes Per: Ben Hendry **Date/Time:** 9/28/2023

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

TABLE 1
Summary of Groundwater Analytical Results - 2023
2023/2024 Annual OM&M Report
Alltift Landfill /Ramco Steel Site

Parameter Name	Units	NYSDEC Class GA Standards or Guidance Values	MW-2-091123 9/11/2023	SUMP-1-091123 9/11/2023	SUMP-2-091123 9/11/2023	SUMP-3-091123 9/11/2023	SUMP-4-091123 9/11/2023	SUMP-4-FD-091123 9/11/2023	SUMP-COMP-091123 9/11/2023
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	-- --	-- --	-- --	0.0153	0.0145	0.0162
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	-- --	-- --	-- --	0.0029 J	0.0027 J	0.0065 J
IRON	mg/L	0.3	0.138	-- --	-- --	-- --	35	34.4	16.4
LEAD	mg/L	0.025	0.0018 U	-- --	-- --	-- --	0.0018 U	0.0018 U	0.0018 U
MANGANESE	mg/L	0.3	0.0356	-- --	-- --	-- --	0.171	0.171	0.55
MERCURY	mg/L	0.0007	0.000095 U	-- --	-- --	-- --	0.000095 U	0.000095 U	0.000095 U
VOCs									
BENZENE	µg/L	1	0.43 U	0.43 U	6	0.43 U	1.2	1.1	-- --
CHLOROBENZENE	µg/L	5	0.56 U	3.1	101	20.1	71.2	65.2	-- --
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	0.53 U	0.87 J	0.53 U	0.53 U	0.53 U	-- --
1,4-DICHLOROBENZENE	µg/L	3	0.51 U	0.51 U	1.8	0.51 U	1.4	1.3	-- --
SVOCs									
4-CHLOROANILINE	µg/L	5	0.34 U	-- --	-- --	-- --	0.65 J	0.57 J	4.9 J
NAPHTHALENE	µg/L	10	0.23 U	-- --	-- --	-- --	0.23 U	0.23 U	0.23 U
1,4-Dioxane	µg/L	0.35	0.05 U	-- --	-- --	-- --	16.2	16.3	12.5
PFAs									
Perfluorooctanesulfonic Acid (PFOS)	ng/L	2.7	23.2	19.6	34.3	23.3	36.9	31.9	31.9
Perfluoroundecanoic Acid (Pfunda)	ng/L	100	0.51 U	0.53 U	0.51 U	0.51 U	0.54 U	0.51 U	0.54 U
n-Methyl Perfluorooctanesulfonamidoacetic Acid (n-MeFOSAA)	ng/L	100	0.47 U	0.49 U	0.47 U	0.47 U	0.5 U	0.47 U	0.5 U
Perfluoropentanoic Acid (PFPeA)	ng/L	100	1.2 J	0.71 U	0.68 U	23.2	17	30.9	26
6:2 Fluorotelomer Sulfonate (6:2 FTS)	ng/L	100	0.84 U	1.1 J	1.2 J	1.1 J	0.89 U	0.85 U	0.89 U
n-Ethyl Perfluorooctanesulfonamidoacetic Acid (n-ETFOSAA)	ng/L	100	0.84 U	0.88 U	0.85 U	0.85 U	0.89 U	1.3 J	0.97 J
Perfluorohexanoic Acid (PFHxA)	ng/L	100	2.4	0.28 U	38.7	29.8	0.28 U	0.27 U	32
Perfluorododecanoic Acid (PFDoA)	ng/L	100	0.71 U	0.74 U	0.72 U	0.72 U	0.75 U	0.72 U	0.75 U
Perfluorooctanoic Acid (PFOA)	ng/L	6.7	4.9	529	197	59.6	73.6	67.2	226
Perfluorodecanoic acid (PFDA)	ng/L	100	0.57 U	8.3	0.58 U	0.58 U	0.6 U	0.58 U	3.5
Perfluorodecanesulfonic acid (PFDS)	ng/L	100	1 U	1.1 U	1 U	1 U	1.1 U	1 U	1.1 U
Perfluorohexanesulfonic Acid (PFHxS)	ng/L	100	4	3.8	13.7	8.9	17.8	13.3	16.8
Perfluorobutanoic Acid (PFBA)	ng/L	100	5.3 J	51.5	763	122	137	124	346
Perfluorobutanesulfonic Acid (PFBS)	ng/L	100	5.3	0.64 U	6	8.4	10	9.6	14
Perfluoroheptanoic Acid (PFHpA)	ng/L	100	1.2 J	0.48 U	25.7	10.8	14.4	11.6	17.2
Perfluoroheptanesulfonic Acid (PFHpS)	ng/L	100	0.9 U	0.95 U	0.91 U	0.91 U	0.95 U	0.91 U	0.96 U
Perfluorononanoic Acid (PFNA)	ng/L	100	1 J	2.2	1.1 J	0.37 U	0.39 U	0.37 U	0.39 U
Perfluorotetradecanoic Acid (PFTeDA)	ng/L	100	0.7 U	0.74 U	0.71 U	0.71 U	0.74 U	0.71 U	0.74 U
8:2 Fluorotelomer Sulfonate (8:2 FTS)	ng/L	100	1.3 U	1.4 U	1.3 U	1.3 U	1.4 U	1.4 U	1.4 U
Perfluorotridecanoic Acid (Pftrda)	ng/L	100	0.73 U	0.76 U	0.73 U	0.73 U	0.77 U	0.74 U	0.77 U
Perfluorooctane Sulfonamide (FOSA)	ng/L	100	0.64 U	0.67 U	0.64 U	0.64 U	0.67 U	0.64 U	0.67 U
Total PFAS	ng/L	500	48.5	614.4	1061	268.7	297.0	266.9	714.4

Notes:

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

Standard/Guidance Values are based upon TOGS 1.1.1 and NYSDEC's PFAS guidance

-- -- denotes sample not analyzed for this parameter

Prepared By: HTS/BL 04/09/2024
Checked By: RTB 04/19/2024

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

HW PO#A001457165

SGS Job Number: JD72646

Sampling Date: 09/11/23



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: **152**

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 unless noted in the narrative, comments or footnotes.

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

September 29, 2023

Mr. Ryan Belcher
WSP USA Environment & Infrastructure Inc.
511 Congress Street
Portland, ME 04112

RE: SGS – Dayton, Job # JD72646 – Reissues

Dear Mr. Belcher,

The final report for SGS job number JD72646 has been edited to reflect corrections to the results. These edits have been incorporated into the revised report which is attached.

Specifically, the 1,4-Dichlorobenzene from R job have been moved back to original report per client requests. The attached revised report incorporates these revisions.

SGS apologizes for this occurrence and for any inconvenience this situation may have caused. Please contact me if I can be of further assistance in this matter.

Sincerely,

Report Department

SGS North America Inc.

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SGS North America Inc.

Sample Summary

Honeywell International Inc. OMM work

Job No: JD72646

HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Project No: HW PO#A001457165

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD72646-1	09/11/23	12:57	BH	09/13/23	AQ	Ground Water	SUMP-1
JD72646-1A	09/11/23	12:57	BH	09/13/23	AQ	Ground Water	SUMP-1
JD72646-1R	09/11/23	12:57	BH	09/13/23	AQ	Ground Water	SUMP-1
JD72646-2	09/11/23	14:12	BH	09/13/23	AQ	Ground Water	SUMP-2
JD72646-2A	09/11/23	14:12	BH	09/13/23	AQ	Ground Water	SUMP-2
JD72646-2R	09/11/23	14:12	BH	09/13/23	AQ	Ground Water	SUMP-2
JD72646-3	09/11/23	16:22	BH	09/13/23	AQ	Ground Water	SUMP-3
JD72646-3A	09/11/23	16:22	BH	09/13/23	AQ	Ground Water	SUMP-3
JD72646-3R	09/11/23	16:22	BH	09/13/23	AQ	Ground Water	SUMP-3
JD72646-4	09/11/23	17:38	BH	09/13/23	AQ	Ground Water	SUMP-4
JD72646-4A	09/11/23	17:38	BH	09/13/23	AQ	Ground Water	SUMP-4
JD72646-4D	09/11/23	17:38	BH	09/13/23	AQ	Water Dup/MSD	SUMP-4-MSD

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: JD72646

HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Project No: HW PO#A001457165

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD72646-4DA	09/11/23	17:38	BH	09/13/23	AQ	Water Dup/MSD	SUMP-4-MSD
JD72646-4DR	09/11/23	17:38	BH	09/13/23	AQ	Water Dup/MSD	SUMP-4-MSD
JD72646-4R	09/11/23	17:38	BH	09/13/23	AQ	Ground Water	SUMP-4
JD72646-4S	09/11/23	17:38	BH	09/13/23	AQ	Water Matrix Spike	SUMP-4-MS
JD72646-4SA	09/11/23	17:38	BH	09/13/23	AQ	Water Matrix Spike	SUMP-4-MS
JD72646-4SR	09/11/23	17:38	BH	09/13/23	AQ	Water Matrix Spike	SUMP-4-MS
JD72646-5	09/11/23	17:38	BH	09/13/23	AQ	Ground Water	SUMP-4-FD
JD72646-5A	09/11/23	17:38	BH	09/13/23	AQ	Ground Water	SUMP-4-FD
JD72646-5R	09/11/23	17:38	BH	09/13/23	AQ	Ground Water	SUMP-4-FD
JD72646-6	09/11/23	18:45	BH	09/13/23	AQ	Ground Water	SUMP-COMP
JD72646-6A	09/11/23	18:45	BH	09/13/23	AQ	Ground Water	SUMP-COMP
JD72646-7	09/11/23	11:41	BH	09/13/23	AQ	Ground Water	MW-2
JD72646-7A	09/11/23	11:41	BH	09/13/23	AQ	Ground Water	MW-2

Sample Summary
(continued)

Honeywell International Inc. OMM work

Job No: JD72646

HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Project No: HW PO#A001457165

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD72646-7R	09/11/23	11:41	BH	09/13/23	AQ	Ground Water	MW-2
JD72646-8	09/11/23	18:45	BH	09/13/23	AQ	Trip Blank Water	TRIP BLANK
JD72646-8R	09/11/23	18:45	BH	09/13/23	AQ	Trip Blank Water	TRIP BLANK
JD72646-9	09/11/23	18:45	BH	09/13/23	AQ	Trip Blank Water	TRIP BLANK 2
JD72646-10	09/11/23	15:00	BH	09/13/23	AQ	Field Blank Water	FIELD BLANK

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Honeywell International Inc. OMM work **Job No:** JD72646

Site: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY **Report Date** 9/29/2023 12:40:00 P

On 09/13/2023, 7 sample(s), 2 Trip Blank(s), and 1 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 4.7 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of JD72646 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:** VL10927

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD72646-4MS, JD72646-4MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JD72646-1R: (pH=6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time.
- JD72646-7R: (pH=6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time.
- JD72646-5R: (pH=6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time.
- JD72646-5: (pH=6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time.
- JD72646-4R: (pH=6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time.
- JD72646-4: (pH=6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time.
- JD72646-3R: (pH=6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time.
- JD72646-3: (pH=6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time.
- JD72646-7: (pH=6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time.
- JD72646-2: (pH=6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time.
- JD72646-1: (pH=6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time.
- JD72646-2R: (pH=6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time.

MS Semi-volatiles By Method EPA DRAFT 1633

Matrix: AQ **Batch ID:** OP49152

- All samples were extracted 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) JD72415-1MS were used as the QC samples indicated.

Matrix: AQ **Batch ID:** OP49266

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) JD72646-4AMS, JD72646-4AMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- The blank spike (BS) recovery(s) of MeFOSA, MeFOSE, Perfluoroheptanesulfonic acid, Perfluorohexanesulfonic acid, Perfluorononanesulfonic acid are outside control limits.
- The matrix spike (MS) recovery(s) of MeFOSE, 3:3 Fluorotelomer carboxylate, 5:3 Fluorotelomer carboxylate are outside control limits. Outside control limits due to matrix interference.
- The matrix spike duplicate (MSD) recovery(s) of MeFOSE, Perfluorobutanoic acid are outside control limits. Probable cause due to matrix interference.
- The matrix spike (MS) recovery(s) of 11Cl-PF3OUdS (F-53B Minor), 9Cl-PF3ONS (F-53B Major), ADONA, Perfluorohexanoic acid, PFMPA, MeFOSA, 6:2 Fluorotelomer sulfonate are outside control limits. Outside control limits possible due to matrix interference. Refer to blank spike.
- Sample(s) JD72646-2A, JD72646-4A have surrogates outside control limits. Probable cause due to matrix interference.
- JD72646-2A for 13C2-4:2FTS: Outside control limits due to matrix interference.
- OP49266-MS for MeFOSA: Outside control limits.
- OP49266-MS for 5:3 Fluorotelomer carboxylate: Outside control limits possible due to matrix interference. Refer to blank spike.
- JD72646-4A for 13C2-4:2FTS: Outside control limits due to matrix interference.
- OP49266-BS for MeFOSA: Outside control limits.
- OP49266-BS for Perfluorononanesulfonic acid: Outside of control limits, but within reasonable method recovery limits.
- OP49266-BS for Perfluorohexanesulfonic acid: Outside of control limits, but within reasonable method recovery limits.
- JD72646-2A for 13C5-PFPeA: Outside of control limits, but within reasonable method recovery limits.
- OP49266-BS for Perfluoroheptanesulfonic acid: Outside of control limits, but within reasonable method recovery limits.
- OP49266-BS for MeFOSE: Outside of control limits, but within reasonable method recovery limits.
- OP49266-LLBS for MeFOSA: Outside control limits.
- OP49266-MS for 3:3 Fluorotelomer carboxylate: Outside control limits possible due to matrix interference. Refer to blank spike.
- OP49266-LLBS for MeFOSE: Outside of control limits, but within reasonable method recovery limits.
- OP49266-MS for 6:2 Fluorotelomer sulfonate: Outside of control limits, but within reasonable method recovery limits.

Matrix: AQ **Batch ID:** T2Q75

- T2Q75-ICCB for 13C7-PFUnDA: Outside of control limits, but within reasonable method recovery limits.
- T2Q75-ICCB for 13C8-PFOA: Outside of control limits, but within reasonable method recovery limits.

MS Semi-volatiles By Method SW846 8270E

Matrix: AQ **Batch ID:** OP49101

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) JD72646-4MS, JD72646-4MSD 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:** OP49101A

- All samples were extracted 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) JD72646-4MS, JD72646-4MSD were used as the QC samples indicated.
- 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.
- OP49101A-MB1 for 2-Fluorobiphenyl: Outside of program requirements.
- JD72646-7 for Terphenyl-d14: Outside of program requirements.

Metals Analysis By Method SW846 6010D

Matrix: AQ **Batch ID:** MP41901

- 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) JD72489-1MS, JD72489-1MSD, JD72489-1SDL were used as the QC samples for the metals analysis.
- The serial dilution RPD(s) for Arsenic, Lead are outside control limits for sample MP41901-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: AQ **Batch ID:** MP41910

- 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) JD72646-4MS, JD72646-4MSD, JD72646-4SDL were used as the QC samples for the metals analysis.
- The serial dilution RPD(s) for Arsenic, Cadmium, Chromium are outside control limits for sample MP41910-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals Analysis By Method SW846 7470A

Matrix: AQ **Batch ID:** MP41958

- 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) JD72646-4MS, JD72646-4MSD 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.

Summary of Hits

Job Number: JD72646
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/11/23

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD72646-1	**SUMP-1**					
Chlorobenzene [a]		3.1	1.0	0.56	ug/l	SW846 8260D
JD72646-1A	**SUMP-1**					
Perfluorobutanoic acid		0.0515	0.0077	0.00090	ug/l	EPA DRAFT 1633
Perfluorooctanoic acid		0.529	0.0019	0.00073	ug/l	EPA DRAFT 1633
Perfluorononanoic acid		0.0022	0.0019	0.00039	ug/l	EPA DRAFT 1633
Perfluorodecanoic acid		0.0083	0.0019	0.00060	ug/l	EPA DRAFT 1633
Perfluorohexanesulfonic acid		0.0038	0.0019	0.0011	ug/l	EPA DRAFT 1633
Perfluorooctanesulfonic acid		0.0196	0.0019	0.00042	ug/l	EPA DRAFT 1633
6:2 Fluorotelomer sulfonate		0.0011 J	0.0077	0.00088	ug/l	EPA DRAFT 1633
JD72646-1R	**SUMP-1**					
No hits reported in this sample.						
JD72646-2	**SUMP-2**					
Benzene [a]		6.0	0.50	0.43	ug/l	SW846 8260D
Chlorobenzene [a]		101	1.0	0.56	ug/l	SW846 8260D
1,2-Dichlorobenzene [a]		0.87 J	1.0	0.53	ug/l	SW846 8260D
JD72646-2A	**SUMP-2**					
Perfluorobutanoic acid		0.763	0.0074	0.00086	ug/l	EPA DRAFT 1633
Perfluorohexanoic acid		0.0387	0.0019	0.00027	ug/l	EPA DRAFT 1633
Perfluoroheptanoic acid		0.0257	0.0019	0.00046	ug/l	EPA DRAFT 1633
Perfluorooctanoic acid		0.197	0.0019	0.00070	ug/l	EPA DRAFT 1633
Perfluorononanoic acid		0.0011 J	0.0019	0.00037	ug/l	EPA DRAFT 1633
Perfluorobutanesulfonic acid		0.0060	0.0019	0.00061	ug/l	EPA DRAFT 1633
Perfluorohexanesulfonic acid		0.0137	0.0019	0.0010	ug/l	EPA DRAFT 1633
Perfluorooctanesulfonic acid		0.0343	0.0019	0.00040	ug/l	EPA DRAFT 1633
6:2 Fluorotelomer sulfonate		0.0012 J	0.0074	0.00085	ug/l	EPA DRAFT 1633
JD72646-2R	**SUMP-2**					
1,4-Dichlorobenzene [a]		1.8	1.0	0.51	ug/l	SW846 8260D
JD72646-3	**SUMP-3**					
Chlorobenzene [a]		20.1	1.0	0.56	ug/l	SW846 8260D

Summary of Hits

Job Number: JD72646
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/11/23

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD72646-3A	**SUMP-3**					
Perfluorobutanoic acid		0.122	0.0074	0.00086	ug/l	EPA DRAFT 1633
Perfluoropentanoic acid		0.0232	0.0037	0.00068	ug/l	EPA DRAFT 1633
Perfluorohexanoic acid		0.0298	0.0019	0.00027	ug/l	EPA DRAFT 1633
Perfluoroheptanoic acid		0.0108	0.0019	0.00046	ug/l	EPA DRAFT 1633
Perfluorooctanoic acid		0.0596	0.0019	0.00070	ug/l	EPA DRAFT 1633
Perfluorobutanesulfonic acid		0.0084	0.0019	0.00061	ug/l	EPA DRAFT 1633
Perfluoropentanesulfonic acid		0.0038	0.0019	0.00094	ug/l	EPA DRAFT 1633
Perfluorohexanesulfonic acid		0.0089	0.0019	0.0010	ug/l	EPA DRAFT 1633
Perfluorooctanesulfonic acid		0.0233	0.0019	0.00040	ug/l	EPA DRAFT 1633
6:2 Fluorotelomer sulfonate		0.0011 J	0.0074	0.00085	ug/l	EPA DRAFT 1633
JD72646-3R	**SUMP-3**					
No hits reported in this sample.						
JD72646-4	**SUMP-4**					
Benzene [a]		1.2	0.50	0.43	ug/l	SW846 8260D
Chlorobenzene [a]		71.2	1.0	0.56	ug/l	SW846 8260D
4-Chloroaniline		0.65 J	5.0	0.34	ug/l	SW846 8270E
1,4-Dioxane		16.2	1.0	0.66	ug/l	SW846 8270E
Arsenic		15.3	3.0	2.8	ug/l	SW846 6010D
Chromium		2.9 J	10	2.0	ug/l	SW846 6010D
Iron		35000	100	32	ug/l	SW846 6010D
Manganese		171	15	1.4	ug/l	SW846 6010D
JD72646-4A	**SUMP-4**					
Perfluorobutanoic acid		0.137	0.0078	0.00090	ug/l	EPA DRAFT 1633
Perfluoropentanoic acid		0.0170	0.0039	0.00071	ug/l	EPA DRAFT 1633
Perfluoroheptanoic acid		0.0144	0.0019	0.00049	ug/l	EPA DRAFT 1633
Perfluorooctanoic acid		0.0736	0.0019	0.00073	ug/l	EPA DRAFT 1633
Perfluorobutanesulfonic acid		0.0100	0.0019	0.00064	ug/l	EPA DRAFT 1633
Perfluoropentanesulfonic acid		0.0089	0.0019	0.00098	ug/l	EPA DRAFT 1633
Perfluorohexanesulfonic acid		0.0178	0.0019	0.0011	ug/l	EPA DRAFT 1633
Perfluorooctanesulfonic acid		0.0369	0.0019	0.00042	ug/l	EPA DRAFT 1633
JD72646-4R	**SUMP-4**					
1,4-Dichlorobenzene [a]		1.4	1.0	0.51	ug/l	SW846 8260D

Summary of Hits

Job Number: JD72646
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/11/23

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD72646-5	**SUMP-4-FD**					
Benzene [a]		1.1	0.50	0.43	ug/l	SW846 8260D
Chlorobenzene [a]		65.2	1.0	0.56	ug/l	SW846 8260D
4-Chloroaniline		0.57 J	5.0	0.34	ug/l	SW846 8270E
1,4-Dioxane		16.3	1.0	0.66	ug/l	SW846 8270E
Arsenic		14.5	3.0	2.8	ug/l	SW846 6010D
Chromium		2.7 J	10	2.0	ug/l	SW846 6010D
Iron		34400	100	32	ug/l	SW846 6010D
Manganese		171	15	1.4	ug/l	SW846 6010D
JD72646-5A	**SUMP-4-FD**					
Perfluorobutanoic acid		0.124	0.0074	0.00087	ug/l	EPA DRAFT 1633
Perfluoropentanoic acid		0.0309	0.0037	0.00068	ug/l	EPA DRAFT 1633
Perfluoroheptanoic acid		0.0116	0.0019	0.00047	ug/l	EPA DRAFT 1633
Perfluorooctanoic acid		0.0672	0.0019	0.00070	ug/l	EPA DRAFT 1633
Perfluorobutanesulfonic acid		0.0096	0.0019	0.00061	ug/l	EPA DRAFT 1633
Perfluorohexanesulfonic acid		0.0133	0.0019	0.0010	ug/l	EPA DRAFT 1633
Perfluorooctanesulfonic acid		0.0319	0.0019	0.00040	ug/l	EPA DRAFT 1633
EtFOSAA		0.0013 J	0.0019	0.00085	ug/l	EPA DRAFT 1633
JD72646-5R	**SUMP-4-FD**					
1,4-Dichlorobenzene [a]		1.3	1.0	0.51	ug/l	SW846 8260D
JD72646-6	**SUMP-COMP**					
4-Chloroaniline		4.9 J	5.0	0.34	ug/l	SW846 8270E
1,4-Dioxane		12.5	1.0	0.66	ug/l	SW846 8270E
Arsenic		16.2	3.0	2.8	ug/l	SW846 6010D
Chromium		6.5 J	10	2.0	ug/l	SW846 6010D
Iron		16400	100	32	ug/l	SW846 6010D
Manganese		550	15	1.4	ug/l	SW846 6010D
JD72646-6A	**SUMP-COMP**					
Perfluorobutanoic acid		0.346	0.0078	0.00091	ug/l	EPA DRAFT 1633
Perfluoropentanoic acid		0.0260	0.0039	0.00071	ug/l	EPA DRAFT 1633
Perfluorohexanoic acid		0.0320	0.0020	0.00028	ug/l	EPA DRAFT 1633
Perfluoroheptanoic acid		0.0172	0.0020	0.00049	ug/l	EPA DRAFT 1633
Perfluorooctanoic acid		0.226	0.0020	0.00073	ug/l	EPA DRAFT 1633
Perfluorodecanoic acid		0.0035	0.0020	0.00061	ug/l	EPA DRAFT 1633
Perfluorobutanesulfonic acid		0.0140	0.0020	0.00064	ug/l	EPA DRAFT 1633
Perfluoropentanesulfonic acid		0.0115	0.0020	0.00099	ug/l	EPA DRAFT 1633

Summary of Hits

Job Number: JD72646
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/11/23

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Perfluorohexanesulfonic acid		0.0168	0.0020	0.0011	ug/l	EPA DRAFT 1633
Perfluorooctanesulfonic acid		0.0319	0.0020	0.00042	ug/l	EPA DRAFT 1633
EtFOSAA		0.00097 J	0.0020	0.00089	ug/l	EPA DRAFT 1633
JD72646-7	**MW-2**					
Iron		138	100	32	ug/l	SW846 6010D
Manganese		35.6	15	1.4	ug/l	SW846 6010D
JD72646-7A	**MW-2**					
Perfluorobutanoic acid		0.0053 J	0.0074	0.00086	ug/l	EPA DRAFT 1633
Perfluoropentanoic acid		0.0012 J	0.0037	0.00067	ug/l	EPA DRAFT 1633
Perfluorohexanoic acid		0.0024	0.0018	0.00027	ug/l	EPA DRAFT 1633
Perfluoroheptanoic acid		0.0012 J	0.0018	0.00046	ug/l	EPA DRAFT 1633
Perfluorooctanoic acid		0.0049	0.0018	0.00069	ug/l	EPA DRAFT 1633
Perfluorononanoic acid		0.0010 J	0.0018	0.00037	ug/l	EPA DRAFT 1633
Perfluorobutanesulfonic acid		0.0053	0.0018	0.00061	ug/l	EPA DRAFT 1633
Perfluorohexanesulfonic acid		0.0040	0.0018	0.0010	ug/l	EPA DRAFT 1633
Perfluorooctanesulfonic acid		0.0232	0.0018	0.00040	ug/l	EPA DRAFT 1633
JD72646-7R	**MW-2**					
No hits reported in this sample.						
JD72646-8	**TRIP BLANK**					
No hits reported in this sample.						
JD72646-8R	**TRIP BLANK**					
No hits reported in this sample.						
JD72646-9	**TRIP BLANK 2**					
No hits reported in this sample.						
JD72646-10	**FIELD BLANK**					
No hits reported in this sample.						

(a) (pH= 6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SUMP-1		
Lab Sample ID:	JD72646-1	**Date Sampled:**	09/11/23
Matrix:	AQ - Ground Water	**Date Received:**	09/13/23
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]	L358881.D	1	09/15/23 02:40	NW	n/a	n/a	VL10927
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	3.1	1.0	0.56	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		80-120%
17060-07-0	1,2-Dichloroethane-D4	92%		80-120%
2037-26-5	Toluene-D8	103%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

(a) (pH= 6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time.

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
Lab Sample ID: JD72646-1A **Date Sampled:** 09/11/23
Matrix: AQ - Ground Water **Date Received:** 09/13/23
Method: EPA DRAFT 1633 EPA 1633 DRAFT **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	2Q3457.D	1	09/23/23 11:40	PC	09/22/23 03:00	OP49266	T2Q78
Run #2							

	Initial Volume	Final Volume
Run #1	517 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	0.0515	0.0077	0.00090	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0039	0.00071	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0019	0.00028	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0019	0.00048	ug/l	
335-67-1	Perfluorooctanoic acid	0.529	0.0019	0.00073	ug/l	
375-95-1	Perfluorononanoic acid	0.0022	0.0019	0.00039	ug/l	
335-76-2	Perfluorodecanoic acid	0.0083	0.0019	0.00060	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0019	0.00053	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0019	0.00074	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0019	0.00076	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0019	0.00074	ug/l	
PERFLUOROALKYL SULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	ND	0.0019	0.00064	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0019	0.00098	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0038	0.0019	0.0011	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0019	0.00095	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0196	0.0019	0.00042	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0019	0.0014	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0019	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0019	0.00039	ug/l	
FLUOROTELOMER SULFONIC ACIDS						
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0077	0.0022	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	0.0011	0.0077	0.00088	ug/l	J
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0077	0.0014	ug/l	
PERFLUOROOCTANE SULFONAMIDES						
754-91-6	PFOSA	ND	0.0019	0.00067	ug/l	
31506-32-8	MeFOSA	ND	0.0019	0.00062	ug/l	
4151-50-2	EtFOSA	ND	0.0019	0.00051	ug/l	

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-1		
Lab Sample ID:	JD72646-1A	**Date Sampled:**	09/11/23
Matrix:	AQ - Ground Water	**Date Received:**	09/13/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	0.0019	0.00049	ug/l	
2991-50-6	EtFOSAA	ND	0.0019	0.00088	ug/l	
PERFLUOROOCTANE SULFONAMIDO ETHANOLS						
24448-09-7	MeFOSE	ND	0.019	0.0027	ug/l	
1691-99-2	EtFOSE	ND	0.019	0.0036	ug/l	
PER and POLYFLUOROETHER CARBOXYLIC ACIDS						
13252-13-6	HFPO-DA (GenX)	ND	0.0077	0.0017	ug/l	
919005-14-4	ADONA	ND	0.0077	0.0012	ug/l	
377-73-1	PFMPA	ND	0.0039	0.00029	ug/l	
863090-89-5	PFMBA	ND	0.0039	0.00054	ug/l	
151772-58-6	NFDHA	ND	0.0039	0.0012	ug/l	
PER and POLYFLUOROETHER SULFONIC ACIDS						
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0077	0.0024	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0077	0.0017	ug/l	
113507-82-7	PFEESA	ND	0.0039	0.00026	ug/l	
FLUOROTELOMER CARBOXYLIC ACIDS						
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0097	0.0023	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.048	0.0069	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.048	0.0060	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	25%		5-130%
	13C5-PFPeA	90%		40-130%
	13C5-PFHxA	102%		40-130%
	13C4-PFHpA	103%		40-130%
	13C8-PFOA	104%		40-130%
	13C9-PFNA	104%		40-130%
	13C6-PFDA	89%		40-130%
	13C7-PFUnDA	101%		30-130%
	13C2-PFDoDA	84%		10-130%
	13C2-PFTeDA	62%		10-130%
	13C3-PFBS	101%		40-135%
	13C3-PFHxS	93%		40-130%

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
Lab Sample ID: JD72646-1A
Matrix: AQ - Ground Water
Method: EPA DRAFT 1633 EPA 1633 DRAFT
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Date Sampled: 09/11/23
Date Received: 09/13/23
Percent Solids: n/a

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	108%		40-130%
	13C8-FOSA	97%		40-130%
	d3-MeFOSA	84%		10-130%
	d5-EtFOSA	82%		10-130%
	d3-MeFOSAA	105%		40-170%
	d5-EtFOSAA	91%		25-135%
	d7-MeFOSE	89%		10-130%
	d9-EtFOSE	80%		10-130%
	13C2-4:2FTS	194%		40-200%
	13C2-6:2FTS	111%		40-200%
	13C2-8:2FTS	112%		40-300%
	13C3-HFPO-DA	67%		40-130%

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		
Lab Sample ID:	JD72646-1R	**Date Sampled:**	09/11/23
Matrix:	AQ - Ground Water	**Date Received:**	09/13/23
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]	L358881R.D	1	09/15/23 02:40	NW	n/a	n/a	VL10927
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
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	112%		80-120%
17060-07-0	1,2-Dichloroethane-D4	92%		80-120%
2037-26-5	Toluene-D8	103%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

(a) (pH= 6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time.

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		
Lab Sample ID:	JD72646-2	**Date Sampled:**	09/11/23
Matrix:	AQ - Ground Water	**Date Received:**	09/13/23
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]	L358882.D	1	09/15/23 03:03	NW	n/a	n/a	VL10927
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	6.0	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	101	1.0	0.56	ug/l	
95-50-1	1,2-Dichlorobenzene	0.87	1.0	0.53	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		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	94%		82-114%

(a) (pH= 6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time.

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
Lab Sample ID: JD72646-2A
Matrix: AQ - Ground Water
Method: EPA DRAFT 1633 EPA 1633 DRAFT
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Date Sampled: 09/11/23
Date Received: 09/13/23
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q3458.D	1	09/23/23 11:54	PC	09/22/23 03:00	OP49266	T2Q78
Run #2							

	Initial Volume	Final Volume
Run #1	538 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	0.763	0.0074	0.00086	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0037	0.00068	ug/l	
307-24-4	Perfluorohexanoic acid	0.0387	0.0019	0.00027	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0257	0.0019	0.00046	ug/l	
335-67-1	Perfluorooctanoic acid	0.197	0.0019	0.00070	ug/l	
375-95-1	Perfluorononanoic acid	0.0011	0.0019	0.00037	ug/l	J
335-76-2	Perfluorodecanoic acid	ND	0.0019	0.00058	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0019	0.00051	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0019	0.00072	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0019	0.00073	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0019	0.00071	ug/l	
PERFLUOROALKYL SULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	0.0060	0.0019	0.00061	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0019	0.00094	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0137	0.0019	0.0010	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0019	0.00091	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0343	0.0019	0.00040	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0019	0.0013	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0019	0.0010	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0019	0.00037	ug/l	
FLUOROTELOMER SULFONIC ACIDS						
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0074	0.0021	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	0.0012	0.0074	0.00085	ug/l	J
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0074	0.0013	ug/l	
PERFLUOROOCTANE SULFONAMIDES						
754-91-6	PFOSA	ND	0.0019	0.00064	ug/l	
31506-32-8	MeFOSA	ND	0.0019	0.00059	ug/l	
4151-50-2	EtFOSA	ND	0.0019	0.00049	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:	SUMP-2		
Lab Sample ID:	JD72646-2A	**Date Sampled:**	09/11/23
Matrix:	AQ - Ground Water	**Date Received:**	09/13/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	0.0019	0.00047	ug/l	
2991-50-6	EtFOSAA	ND	0.0019	0.00085	ug/l	
PERFLUOROOCTANE SULFONAMIDO ETHANOLS						
24448-09-7	MeFOSE	ND	0.019	0.0026	ug/l	
1691-99-2	EtFOSE	ND	0.019	0.0035	ug/l	
PER and POLYFLUOROETHER CARBOXYLIC ACIDS						
13252-13-6	HFPO-DA (GenX)	ND	0.0074	0.0017	ug/l	
919005-14-4	ADONA	ND	0.0074	0.0011	ug/l	
377-73-1	PFMPA	ND	0.0037	0.00028	ug/l	
863090-89-5	PFMBA	ND	0.0037	0.00052	ug/l	
151772-58-6	NFDHA	ND	0.0037	0.0012	ug/l	
PER and POLYFLUOROETHER SULFONIC ACIDS						
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0074	0.0023	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0074	0.0017	ug/l	
113507-82-7	PFEESA	ND	0.0037	0.00025	ug/l	
FLUOROTELOMER CARBOXYLIC ACIDS						
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0093	0.0022	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.046	0.0066	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.046	0.0057	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	5%		5-130%
	13C5-PFPeA	27% [a]		40-130%
	13C5-PFHxA	89%		40-130%
	13C4-PFHpA	105%		40-130%
	13C8-PFOA	103%		40-130%
	13C9-PFNA	104%		40-130%
	13C6-PFDA	107%		40-130%
	13C7-PFUnDA	108%		30-130%
	13C2-PFDoDA	99%		10-130%
	13C2-PFTeDA	80%		10-130%
	13C3-PFBS	86%		40-135%
	13C3-PFHxS	94%		40-130%

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-2		
Lab Sample ID:	JD72646-2A	**Date Sampled:**	09/11/23
Matrix:	AQ - Ground Water	**Date Received:**	09/13/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	116%		40-130%
	13C8-FOSA	105%		40-130%
	d3-MeFOSA	92%		10-130%
	d5-EtFOSA	82%		10-130%
	d3-MeFOSAA	120%		40-170%
	d5-EtFOSAA	120%		25-135%
	d7-MeFOSE	107%		10-130%
	d9-EtFOSE	96%		10-130%
	13C2-4:2FTS	38% [b]		40-200%
	13C2-6:2FTS	136%		40-200%
	13C2-8:2FTS	133%		40-300%
	13C3-HFPO-DA	47%		40-130%

(a) Outside of control limits, but within reasonable method recovery limits.
(b) Outside control limits due to matrix interference.

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-2		
Lab Sample ID:	JD72646-2R	**Date Sampled:**	09/11/23
Matrix:	AQ - Ground Water	**Date Received:**	09/13/23
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]	L358882R.D	1	09/15/23 03:03	NW	n/a	n/a	VL10927
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	1.8	1.0	0.51	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		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	94%		82-114%

(a) (pH= 6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time.

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		
Lab Sample ID:	JD72646-3	**Date Sampled:**	09/11/23
Matrix:	AQ - Ground Water	**Date Received:**	09/13/23
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]	L358883.D	1	09/15/23 03:26	NW	n/a	n/a	VL10927
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	20.1	1.0	0.56	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		80-120%
17060-07-0	1,2-Dichloroethane-D4	94%		80-120%
2037-26-5	Toluene-D8	103%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

(a) (pH= 6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time.

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		
Lab Sample ID:	JD72646-3A	**Date Sampled:**	09/11/23
Matrix:	AQ - Ground Water	**Date Received:**	09/13/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	**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	2Q3461.D	1	09/23/23 13:40	PC	09/22/23 03:00	OP49266	T2Q78
Run #2							

	Initial Volume	Final Volume
Run #1	538 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	0.122	0.0074	0.00086	ug/l	
2706-90-3	Perfluoropentanoic acid	0.0232	0.0037	0.00068	ug/l	
307-24-4	Perfluorohexanoic acid	0.0298	0.0019	0.00027	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0108	0.0019	0.00046	ug/l	
335-67-1	Perfluorooctanoic acid	0.0596	0.0019	0.00070	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0019	0.00037	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0019	0.00058	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0019	0.00051	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0019	0.00072	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0019	0.00073	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0019	0.00071	ug/l	
PERFLUOROALKYL SULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	0.0084	0.0019	0.00061	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	0.0038	0.0019	0.00094	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0089	0.0019	0.0010	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0019	0.00091	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0233	0.0019	0.00040	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0019	0.0013	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0019	0.0010	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0019	0.00037	ug/l	
FLUOROTELOMER SULFONIC ACIDS						
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0074	0.0021	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	0.0011	0.0074	0.00085	ug/l	J
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0074	0.0013	ug/l	
PERFLUOROOCTANE SULFONAMIDES						
754-91-6	PFOSA	ND	0.0019	0.00064	ug/l	
31506-32-8	MeFOSA	ND	0.0019	0.00059	ug/l	
4151-50-2	EtFOSA	ND	0.0019	0.00049	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:	SUMP-3		
Lab Sample ID:	JD72646-3A	**Date Sampled:**	09/11/23
Matrix:	AQ - Ground Water	**Date Received:**	09/13/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	0.0019	0.00047	ug/l	
2991-50-6	EtFOSAA	ND	0.0019	0.00085	ug/l	
PERFLUOROOCTANE SULFONAMIDO ETHANOLS						
24448-09-7	MeFOSE	ND	0.019	0.0026	ug/l	
1691-99-2	EtFOSE	ND	0.019	0.0035	ug/l	
PER and POLYFLUOROETHER CARBOXYLIC ACIDS						
13252-13-6	HFPO-DA (GenX)	ND	0.0074	0.0017	ug/l	
919005-14-4	ADONA	ND	0.0074	0.0011	ug/l	
377-73-1	PFMPA	ND	0.0037	0.00028	ug/l	
863090-89-5	PFMBA	ND	0.0037	0.00052	ug/l	
151772-58-6	NFDHA	ND	0.0037	0.0012	ug/l	
PER and POLYFLUOROETHER SULFONIC ACIDS						
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0074	0.0023	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0074	0.0017	ug/l	
113507-82-7	PFEESA	ND	0.0037	0.00025	ug/l	
FLUOROTELOMER CARBOXYLIC ACIDS						
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0093	0.0022	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.046	0.0066	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.046	0.0057	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	16%		5-130%
	13C5-PFPeA	58%		40-130%
	13C5-PFHxA	105%		40-130%
	13C4-PFHpA	107%		40-130%
	13C8-PFOA	104%		40-130%
	13C9-PFNA	95%		40-130%
	13C6-PFDA	104%		40-130%
	13C7-PFUnDA	92%		30-130%
	13C2-PFDoDA	91%		10-130%
	13C2-PFTeDA	71%		10-130%
	13C3-PFBS	103%		40-135%
	13C3-PFHxS	112%		40-130%

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-3		
Lab Sample ID:	JD72646-3A	**Date Sampled:**	09/11/23
Matrix:	AQ - Ground Water	**Date Received:**	09/13/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	109%		40-130%
	13C8-FOSA	99%		40-130%
	d3-MeFOSA	78%		10-130%
	d5-EtFOSA	71%		10-130%
	d3-MeFOSAA	95%		40-170%
	d5-EtFOSAA	89%		25-135%
	d7-MeFOSE	91%		10-130%
	d9-EtFOSE	85%		10-130%
	13C2-4:2FTS	190%		40-200%
	13C2-6:2FTS	118%		40-200%
	13C2-8:2FTS	84%		40-300%
	13C3-HFPO-DA	58%		40-130%

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		
Lab Sample ID:	JD72646-3R	**Date Sampled:**	09/11/23
Matrix:	AQ - Ground Water	**Date Received:**	09/13/23
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]	L358883R.D	1	09/15/23 03:26	NW	n/a	n/a	VL10927
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
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	110%		80-120%
17060-07-0	1,2-Dichloroethane-D4	94%		80-120%
2037-26-5	Toluene-D8	103%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

(a) (pH= 6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time.

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		
Lab Sample ID:	JD72646-4	**Date Sampled:**	09/11/23
Matrix:	AQ - Ground Water	**Date Received:**	09/13/23
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]	L358872.D	1	09/14/23 23:13	NW	n/a	n/a	VL10927
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	1.2	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	71.2	1.0	0.56	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		80-120%
17060-07-0	1,2-Dichloroethane-D4	94%		80-120%
2037-26-5	Toluene-D8	105%		80-120%
460-00-4	4-Bromofluorobenzene	100%		82-114%

(a) (pH= 6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time.

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
Lab Sample ID: JD72646-4 **Date Sampled:** 09/11/23
Matrix: AQ - Ground Water **Date Received:** 09/13/23
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	CJ2466.D	1	09/15/23 19:42	KM	09/15/23 07:20	OP49101	ECJ121
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-47-8	4-Chloroaniline	0.65	5.0	0.34	ug/l	J
123-91-1	1,4-Dioxane	16.2	1.0	0.66	ug/l	
91-20-3	Naphthalene	ND	1.0	0.23	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	58%		28-118%
321-60-8	2-Fluorobiphenyl	64%		34-116%
1718-51-0	Terphenyl-d14	40%		10-127%

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		
Lab Sample ID:	JD72646-4	**Date Sampled:**	09/11/23
Matrix:	AQ - Ground Water	**Date Received:**	09/13/23
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	4M118793.D	1	09/16/23 08:16	RS	09/15/23 10:10	OP49101A	E4M5559
Run #2							

	Initial Volume	Final Volume
Run #1	1000 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	87%		23-127%
321-60-8	2-Fluorobiphenyl	72%		23-114%
1718-51-0	Terphenyl-d14	47%		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
Lab Sample ID: JD72646-4
Matrix: AQ - Ground Water
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Date Sampled: 09/11/23
Date Received: 09/13/23
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	09/15/23	09/19/23	ND	SW846 6010D [2]	SW846 3010A [3]
Arsenic	15.3	3.0	2.8	ug/l	1	09/15/23	09/19/23	ND	SW846 6010D [2]	SW846 3010A [3]
Cadmium	ND	3.0	1.0	ug/l	1	09/15/23	09/19/23	ND	SW846 6010D [2]	SW846 3010A [3]
Chromium	2.9 J	10	2.0	ug/l	1	09/15/23	09/19/23	ND	SW846 6010D [2]	SW846 3010A [3]
Iron	35000	100	32	ug/l	1	09/15/23	09/19/23	ND	SW846 6010D [2]	SW846 3010A [3]
Lead	ND	3.0	1.8	ug/l	1	09/15/23	09/19/23	ND	SW846 6010D [2]	SW846 3010A [3]
Manganese	171	15	1.4	ug/l	1	09/15/23	09/19/23	ND	SW846 6010D [2]	SW846 3010A [3]
Mercury	ND	0.20	0.095	ug/l	1	09/15/23	09/18/23	LM	SW846 7470A [1]	SW846 7470A [4]

(1) Instrument QC Batch: MA54778
(2) Instrument QC Batch: MA54789
(3) Prep QC Batch: MP41910
(4) Prep QC Batch: MP41958

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		
Lab Sample ID:	JD72646-4A	**Date Sampled:**	09/11/23
Matrix:	AQ - Ground Water	**Date Received:**	09/13/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	**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	2Q3462.D	1	09/23/23 13:55	PC	09/22/23 03:00	OP49266	T2Q78
Run #2							

	Initial Volume	Final Volume
Run #1	514 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	0.137	0.0078	0.00090	ug/l	
2706-90-3	Perfluoropentanoic acid	0.0170	0.0039	0.00071	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0019	0.00028	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0144	0.0019	0.00049	ug/l	
335-67-1	Perfluorooctanoic acid	0.0736	0.0019	0.00073	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0019	0.00039	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0019	0.00060	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0019	0.00054	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0019	0.00075	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0019	0.00077	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0019	0.00074	ug/l	
PERFLUOROALKYL SULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	0.0100	0.0019	0.00064	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	0.0089	0.0019	0.00098	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0178	0.0019	0.0011	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0019	0.00095	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0369	0.0019	0.00042	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0019	0.0014	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0019	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0019	0.00039	ug/l	
FLUOROTELOMER SULFONIC ACIDS						
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0078	0.0022	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0078	0.00089	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0078	0.0014	ug/l	
PERFLUOROOCTANE SULFONAMIDES						
754-91-6	PFOSA	ND	0.0019	0.00067	ug/l	
31506-32-8	MeFOSA	ND	0.0019	0.00062	ug/l	
4151-50-2	EtFOSA	ND	0.0019	0.00052	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:	SUMP-4		
Lab Sample ID:	JD72646-4A	**Date Sampled:**	09/11/23
Matrix:	AQ - Ground Water	**Date Received:**	09/13/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	0.0019	0.00050	ug/l	
2991-50-6	EtFOSAA	ND	0.0019	0.00089	ug/l	
PERFLUOROOCTANE SULFONAMIDO ETHANOLS						
24448-09-7	MeFOSE	ND	0.019	0.0027	ug/l	
1691-99-2	EtFOSE	ND	0.019	0.0036	ug/l	
PER and POLYFLUOROETHER CARBOXYLIC ACIDS						
13252-13-6	HFPO-DA (GenX)	ND	0.0078	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0078	0.0012	ug/l	
377-73-1	PFMPA	ND	0.0039	0.00029	ug/l	
863090-89-5	PFMBA	ND	0.0039	0.00054	ug/l	
151772-58-6	NFDHA	ND	0.0039	0.0012	ug/l	
PER and POLYFLUOROETHER SULFONIC ACIDS						
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0078	0.0024	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0078	0.0018	ug/l	
113507-82-7	PFEESA	ND	0.0039	0.00026	ug/l	
FLUOROTELOMER CARBOXYLIC ACIDS						
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0097	0.0024	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.049	0.0069	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.049	0.0060	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	14%		5-130%
	13C5-PFPeA	62%		40-130%
	13C5-PFHxA	105%		40-130%
	13C4-PFHpA	107%		40-130%
	13C8-PFOA	98%		40-130%
	13C9-PFNA	106%		40-130%
	13C6-PFDA	103%		40-130%
	13C7-PFUnDA	102%		30-130%
	13C2-PFDoDA	98%		10-130%
	13C2-PFTeDA	82%		10-130%
	13C3-PFBS	96%		40-135%
	13C3-PFHxS	93%		40-130%

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		
Lab Sample ID:	JD72646-4A	**Date Sampled:**	09/11/23
Matrix:	AQ - Ground Water	**Date Received:**	09/13/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	106%		40-130%
	13C8-FOSA	94%		40-130%
	d3-MeFOSA	82%		10-130%
	d5-EtFOSA	88%		10-130%
	d3-MeFOSAA	105%		40-170%
	d5-EtFOSAA	94%		25-135%
	d7-MeFOSE	95%		10-130%
	d9-EtFOSE	91%		10-130%
	13C2-4:2FTS	202% [a]		40-200%
	13C2-6:2FTS	133%		40-200%
	13C2-8:2FTS	93%		40-300%
	13C3-HFPO-DA	58%		40-130%

(a) Outside control limits due to matrix interference.

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		
Lab Sample ID:	JD72646-4R	**Date Sampled:**	09/11/23
Matrix:	AQ - Ground Water	**Date Received:**	09/13/23
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]	L358872R.D	1	09/14/23 23:13	NW	n/a	n/a	VL10927
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	1.4	1.0	0.51	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		80-120%
17060-07-0	1,2-Dichloroethane-D4	94%		80-120%
2037-26-5	Toluene-D8	105%		80-120%
460-00-4	4-Bromofluorobenzene	100%		82-114%

(a) (pH= 6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time.

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		
Lab Sample ID:	JD72646-5	**Date Sampled:**	09/11/23
Matrix:	AQ - Ground Water	**Date Received:**	09/13/23
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]	L358884.D	1	09/15/23 03:49	NW	n/a	n/a	VL10927
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	1.1	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	65.2	1.0	0.56	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		80-120%
17060-07-0	1,2-Dichloroethane-D4	94%		80-120%
2037-26-5	Toluene-D8	104%		80-120%
460-00-4	4-Bromofluorobenzene	95%		82-114%

(a) (pH= 6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time.

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
Lab Sample ID: JD72646-5
Matrix: AQ - Ground Water
Method: SW846 8270E SW846 3510C
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Date Sampled: 09/11/23
Date Received: 09/13/23
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CJ2467.D	1	09/15/23 20:02	KM	09/15/23 07:20	OP49101	ECJ121
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-47-8	4-Chloroaniline	0.57	5.0	0.34	ug/l	J
123-91-1	1,4-Dioxane	16.3	1.0	0.66	ug/l	
91-20-3	Naphthalene	ND	1.0	0.23	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	67%		28-118%
321-60-8	2-Fluorobiphenyl	73%		34-116%
1718-51-0	Terphenyl-d14	37%		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		
Lab Sample ID:	JD72646-5	**Date Sampled:**	09/11/23
Matrix:	AQ - Ground Water	**Date Received:**	09/13/23
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	4M118794.D	1	09/16/23 08:38	RS	09/15/23 10:10	OP49101A	E4M5559
Run #2							

	Initial Volume	Final Volume
Run #1	1000 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	101%		23-127%
321-60-8	2-Fluorobiphenyl	84%		23-114%
1718-51-0	Terphenyl-d14	42%		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
Lab Sample ID: JD72646-5
Matrix: AQ - Ground Water
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Date Sampled: 09/11/23
Date Received: 09/13/23
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	09/15/23	09/19/23	ND	SW846 6010D [2]	SW846 3010A [3]
Arsenic	14.5	3.0	2.8	ug/l	1	09/15/23	09/19/23	ND	SW846 6010D [2]	SW846 3010A [3]
Cadmium	ND	3.0	1.0	ug/l	1	09/15/23	09/19/23	ND	SW846 6010D [2]	SW846 3010A [3]
Chromium	2.7 J	10	2.0	ug/l	1	09/15/23	09/19/23	ND	SW846 6010D [2]	SW846 3010A [3]
Iron	34400	100	32	ug/l	1	09/15/23	09/19/23	ND	SW846 6010D [2]	SW846 3010A [3]
Lead	ND	3.0	1.8	ug/l	1	09/15/23	09/19/23	ND	SW846 6010D [2]	SW846 3010A [3]
Manganese	171	15	1.4	ug/l	1	09/15/23	09/19/23	ND	SW846 6010D [2]	SW846 3010A [3]
Mercury	ND	0.20	0.095	ug/l	1	09/15/23	09/18/23	LM	SW846 7470A [1]	SW846 7470A [4]

(1) Instrument QC Batch: MA54778
(2) Instrument QC Batch: MA54789
(3) Prep QC Batch: MP41910
(4) Prep QC Batch: MP41958

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		
Lab Sample ID:	JD72646-5A	**Date Sampled:**	09/11/23
Matrix:	AQ - Ground Water	**Date Received:**	09/13/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	**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	2Q3463.D	1	09/23/23 14:09	PC	09/22/23 03:00	OP49266	T2Q78
Run #2							

	Initial Volume	Final Volume
Run #1	537 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	0.124	0.0074	0.00087	ug/l	
2706-90-3	Perfluoropentanoic acid	0.0309	0.0037	0.00068	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0019	0.00027	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0116	0.0019	0.00047	ug/l	
335-67-1	Perfluorooctanoic acid	0.0672	0.0019	0.00070	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0019	0.00037	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0019	0.00058	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0019	0.00051	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0019	0.00072	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0019	0.00074	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0019	0.00071	ug/l	
PERFLUOROALKYL SULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	0.0096	0.0019	0.00061	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0019	0.00094	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0133	0.0019	0.0010	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0019	0.00091	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0319	0.0019	0.00040	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0019	0.0013	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0019	0.0010	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0019	0.00037	ug/l	
FLUOROTELOMER SULFONIC ACIDS						
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0074	0.0021	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0074	0.00085	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0074	0.0014	ug/l	
PERFLUOROOCTANE SULFONAMIDES						
754-91-6	PFOSA	ND	0.0019	0.00064	ug/l	
31506-32-8	MeFOSA	ND	0.0019	0.00060	ug/l	
4151-50-2	EtFOSA	ND	0.0019	0.00049	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:	SUMP-4-FD		
Lab Sample ID:	JD72646-5A	**Date Sampled:**	09/11/23
Matrix:	AQ - Ground Water	**Date Received:**	09/13/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	0.0019	0.00047	ug/l	
2991-50-6	EtFOSAA	0.0013	0.0019	0.00085	ug/l	J
PERFLUOROOCTANE SULFONAMIDO ETHANOLS						
24448-09-7	MeFOSE	ND	0.019	0.0026	ug/l	
1691-99-2	EtFOSE	ND	0.019	0.0035	ug/l	
PER and POLYFLUOROETHER CARBOXYLIC ACIDS						
13252-13-6	HFPO-DA (GenX)	ND	0.0074	0.0017	ug/l	
919005-14-4	ADONA	ND	0.0074	0.0011	ug/l	
377-73-1	PFMPA	ND	0.0037	0.00028	ug/l	
863090-89-5	PFMBA	ND	0.0037	0.00052	ug/l	
151772-58-6	NFDHA	ND	0.0037	0.0012	ug/l	
PER and POLYFLUOROETHER SULFONIC ACIDS						
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0074	0.0023	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0074	0.0017	ug/l	
113507-82-7	PFEESA	ND	0.0037	0.00025	ug/l	
FLUOROTELOMER CARBOXYLIC ACIDS						
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0093	0.0023	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.047	0.0066	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.047	0.0058	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	14%		5-130%
	13C5-PFPeA	61%		40-130%
	13C5-PFHxA	91%		40-130%
	13C4-PFHpA	96%		40-130%
	13C8-PFOA	93%		40-130%
	13C9-PFNA	101%		40-130%
	13C6-PFDA	90%		40-130%
	13C7-PFUnDA	92%		30-130%
	13C2-PFDoDA	90%		10-130%
	13C2-PFTeDA	78%		10-130%
	13C3-PFBS	96%		40-135%
	13C3-PFHxS	93%		40-130%

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		
Lab Sample ID:	JD72646-5A	**Date Sampled:**	09/11/23
Matrix:	AQ - Ground Water	**Date Received:**	09/13/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	101%		40-130%
	13C8-FOSA	87%		40-130%
	d3-MeFOSA	76%		10-130%
	d5-EtFOSA	73%		10-130%
	d3-MeFOSAA	91%		40-170%
	d5-EtFOSAA	93%		25-135%
	d7-MeFOSE	85%		10-130%
	d9-EtFOSE	85%		10-130%
	13C2-4:2FTS	194%		40-200%
	13C2-6:2FTS	126%		40-200%
	13C2-8:2FTS	105%		40-300%
	13C3-HFPO-DA	49%		40-130%

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		
Lab Sample ID:	JD72646-5R	**Date Sampled:**	09/11/23
Matrix:	AQ - Ground Water	**Date Received:**	09/13/23
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]	L358884R.D	1	09/15/23 03:49	NW	n/a	n/a	VL10927
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	1.3	1.0	0.51	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		80-120%
17060-07-0	1,2-Dichloroethane-D4	94%		80-120%
2037-26-5	Toluene-D8	104%		80-120%
460-00-4	4-Bromofluorobenzene	95%		82-114%

(a) (pH= 6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time.

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		
Lab Sample ID:	JD72646-6	**Date Sampled:**	09/11/23
Matrix:	AQ - Ground Water	**Date Received:**	09/13/23
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	CJ2468.D	1	09/15/23 20:22	KM	09/15/23 07:20	OP49101	ECJ121
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-47-8	4-Chloroaniline	4.9	5.0	0.34	ug/l	J
123-91-1	1,4-Dioxane	12.5	1.0	0.66	ug/l	
91-20-3	Naphthalene	ND	1.0	0.23	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	58%		28-118%
321-60-8	2-Fluorobiphenyl	64%		34-116%
1718-51-0	Terphenyl-d14	34%		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		
Lab Sample ID:	JD72646-6	**Date Sampled:**	09/11/23
Matrix:	AQ - Ground Water	**Date Received:**	09/13/23
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	4M118795.D	1	09/16/23 09:00	RS	09/15/23 10:10	OP49101A	E4M5559
Run #2							

	Initial Volume	Final Volume
Run #1	1000 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	87%		23-127%
321-60-8	2-Fluorobiphenyl	72%		23-114%
1718-51-0	Terphenyl-d14	39%		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
Lab Sample ID: JD72646-6
Matrix: AQ - Ground Water
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Date Sampled: 09/11/23
Date Received: 09/13/23
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	09/15/23	09/19/23	ND	SW846 6010D [2]	SW846 3010A [3]
Arsenic	16.2	3.0	2.8	ug/l	1	09/15/23	09/19/23	ND	SW846 6010D [2]	SW846 3010A [3]
Cadmium	ND	3.0	1.0	ug/l	1	09/15/23	09/19/23	ND	SW846 6010D [2]	SW846 3010A [3]
Chromium	6.5 J	10	2.0	ug/l	1	09/15/23	09/19/23	ND	SW846 6010D [2]	SW846 3010A [3]
Iron	16400	100	32	ug/l	1	09/15/23	09/19/23	ND	SW846 6010D [2]	SW846 3010A [3]
Lead	ND	3.0	1.8	ug/l	1	09/15/23	09/19/23	ND	SW846 6010D [2]	SW846 3010A [3]
Manganese	550	15	1.4	ug/l	1	09/15/23	09/19/23	ND	SW846 6010D [2]	SW846 3010A [3]
Mercury	ND	0.20	0.095	ug/l	1	09/15/23	09/18/23	LM	SW846 7470A [1]	SW846 7470A [4]

(1) Instrument QC Batch: MA54778
(2) Instrument QC Batch: MA54789
(3) Prep QC Batch: MP41910
(4) Prep QC Batch: MP41958

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		
Lab Sample ID:	JD72646-6A	**Date Sampled:**	09/11/23
Matrix:	AQ - Ground Water	**Date Received:**	09/13/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	**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	2Q3464.D	1	09/23/23 14:23	PC	09/22/23 03:00	OP49266	T2Q78
Run #2							

	Initial Volume	Final Volume
Run #1	512 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	0.346	0.0078	0.00091	ug/l	
2706-90-3	Perfluoropentanoic acid	0.0260	0.0039	0.00071	ug/l	
307-24-4	Perfluorohexanoic acid	0.0320	0.0020	0.00028	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0172	0.0020	0.00049	ug/l	
335-67-1	Perfluorooctanoic acid	0.226	0.0020	0.00073	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00039	ug/l	
335-76-2	Perfluorodecanoic acid	0.0035	0.0020	0.00061	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.00054	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.00075	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.00077	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.00074	ug/l	
PERFLUOROALKYL SULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	0.0140	0.0020	0.00064	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	0.0115	0.0020	0.00099	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0168	0.0020	0.0011	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.00096	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0319	0.0020	0.00042	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.0014	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0020	0.00039	ug/l	
FLUOROTELOMER SULFONIC ACIDS						
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0078	0.0022	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0078	0.00089	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0078	0.0014	ug/l	
PERFLUOROOCTANE SULFONAMIDES						
754-91-6	PFOSA	ND	0.0020	0.00067	ug/l	
31506-32-8	MeFOSA	ND	0.0020	0.00063	ug/l	
4151-50-2	EtFOSA	ND	0.0020	0.00052	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:	SUMP-COMP		
Lab Sample ID:	JD72646-6A	**Date Sampled:**	09/11/23
Matrix:	AQ - Ground Water	**Date Received:**	09/13/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	0.0020	0.00050	ug/l	
2991-50-6	EtFOSAA	0.00097	0.0020	0.00089	ug/l	J
PERFLUOROOCTANE SULFONAMIDO ETHANOLS						
24448-09-7	MeFOSE	ND	0.020	0.0027	ug/l	
1691-99-2	EtFOSE	ND	0.020	0.0037	ug/l	
PER and POLYFLUOROETHER CARBOXYLIC ACIDS						
13252-13-6	HFPO-DA (GenX)	ND	0.0078	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0078	0.0012	ug/l	
377-73-1	PFMPA	ND	0.0039	0.00029	ug/l	
863090-89-5	PFMBA	ND	0.0039	0.00055	ug/l	
151772-58-6	NFDHA	ND	0.0039	0.0013	ug/l	
PER and POLYFLUOROETHER SULFONIC ACIDS						
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0078	0.0024	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0078	0.0018	ug/l	
113507-82-7	PFEESA	ND	0.0039	0.00026	ug/l	
FLUOROTELOMER CARBOXYLIC ACIDS						
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0098	0.0024	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.049	0.0070	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.049	0.0060	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	13%		5-130%
	13C5-PFPeA	52%		40-130%
	13C5-PFHxA	88%		40-130%
	13C4-PFHpA	96%		40-130%
	13C8-PFOA	89%		40-130%
	13C9-PFNA	93%		40-130%
	13C6-PFDA	100%		40-130%
	13C7-PFUnDA	100%		30-130%
	13C2-PFDoDA	100%		10-130%
	13C2-PFTeDA	77%		10-130%
	13C3-PFBS	83%		40-135%
	13C3-PFHxS	90%		40-130%

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		
Lab Sample ID:	JD72646-6A	**Date Sampled:**	09/11/23
Matrix:	AQ - Ground Water	**Date Received:**	09/13/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	99%		40-130%
	13C8-FOSA	104%		40-130%
	d3-MeFOSA	78%		10-130%
	d5-EtFOSA	75%		10-130%
	d3-MeFOSAA	96%		40-170%
	d5-EtFOSAA	93%		25-135%
	d7-MeFOSE	89%		10-130%
	d9-EtFOSE	84%		10-130%
	13C2-4:2FTS	161%		40-200%
	13C2-6:2FTS	137%		40-200%
	13C2-8:2FTS	89%		40-300%
	13C3-HFPO-DA	51%		40-130%

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		
Lab Sample ID:	JD72646-7	**Date Sampled:**	09/11/23
Matrix:	AQ - Ground Water	**Date Received:**	09/13/23
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]	L358885.D	1	09/15/23 04:12	NW	n/a	n/a	VL10927
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	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		80-120%
17060-07-0	1,2-Dichloroethane-D4	94%		80-120%
2037-26-5	Toluene-D8	105%		80-120%
460-00-4	4-Bromofluorobenzene	99%		82-114%

(a) (pH= 6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time.

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
Lab Sample ID: JD72646-7 **Date Sampled:** 09/11/23
Matrix: AQ - Ground Water **Date Received:** 09/13/23
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	CJ2469.D	1	09/15/23 20:41	KM	09/15/23 07:20	OP49101	ECJ121
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-47-8	4-Chloroaniline	ND	5.0	0.34	ug/l	
91-20-3	Naphthalene	ND	1.0	0.23	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	46%		28-118%
321-60-8	2-Fluorobiphenyl	48%		34-116%
1718-51-0	Terphenyl-d14	43%		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		
Lab Sample ID:	JD72646-7	**Date Sampled:**	09/11/23
Matrix:	AQ - Ground Water	**Date Received:**	09/13/23
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	4M118796.D	1	09/16/23 09:22	RS	09/15/23 10:10	OP49101A	E4M5559
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

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	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	69%		23-127%
321-60-8	2-Fluorobiphenyl	57%		23-114%
1718-51-0	Terphenyl-d14	48% [a]		10-121%

(a) Outside of program requirements.

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
Lab Sample ID: JD72646-7
Matrix: AQ - Ground Water
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Date Sampled: 09/11/23
Date Received: 09/13/23
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	09/14/23	09/15/23	ND	SW846 6010D [1]	SW846 3010A [3]
Arsenic	ND	3.0	2.8	ug/l	1	09/14/23	09/15/23	ND	SW846 6010D [1]	SW846 3010A [3]
Cadmium	ND	3.0	1.0	ug/l	1	09/14/23	09/15/23	ND	SW846 6010D [1]	SW846 3010A [3]
Chromium	ND	10	2.0	ug/l	1	09/14/23	09/15/23	ND	SW846 6010D [1]	SW846 3010A [3]
Iron	138	100	32	ug/l	1	09/14/23	09/15/23	ND	SW846 6010D [1]	SW846 3010A [3]
Lead	ND	3.0	1.8	ug/l	1	09/14/23	09/15/23	ND	SW846 6010D [1]	SW846 3010A [3]
Manganese	35.6	15	1.4	ug/l	1	09/14/23	09/15/23	ND	SW846 6010D [1]	SW846 3010A [3]
Mercury	ND	0.20	0.095	ug/l	1	09/15/23	09/18/23	LM	SW846 7470A [2]	SW846 7470A [4]

(1) Instrument QC Batch: MA54775
(2) Instrument QC Batch: MA54778
(3) Prep QC Batch: MP41901
(4) Prep QC Batch: MP41958

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		
Lab Sample ID:	JD72646-7A	**Date Sampled:**	09/11/23
Matrix:	AQ - Ground Water	**Date Received:**	09/13/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	**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	2Q3465.D	1	09/23/23 14:38	PC	09/22/23 03:00	OP49266	T2Q78
Run #2							

	Initial Volume	Final Volume
Run #1	543 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	0.0053	0.0074	0.00086	ug/l	J
2706-90-3	Perfluoropentanoic acid	0.0012	0.0037	0.00067	ug/l	J
307-24-4	Perfluorohexanoic acid	0.0024	0.0018	0.00027	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0012	0.0018	0.00046	ug/l	J
335-67-1	Perfluorooctanoic acid	0.0049	0.0018	0.00069	ug/l	
375-95-1	Perfluorononanoic acid	0.0010	0.0018	0.00037	ug/l	J
335-76-2	Perfluorodecanoic acid	ND	0.0018	0.00057	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0018	0.00051	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0018	0.00071	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0018	0.00073	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0018	0.00070	ug/l	
PERFLUOROALKYL SULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	0.0053	0.0018	0.00061	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0018	0.00093	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0040	0.0018	0.0010	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0018	0.00090	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0232	0.0018	0.00040	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0018	0.0013	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0018	0.0010	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0018	0.00037	ug/l	
FLUOROTELOMER SULFONIC ACIDS						
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0074	0.0021	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0074	0.00084	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0074	0.0013	ug/l	
PERFLUOROOCTANE SULFONAMIDES						
754-91-6	PFOSA	ND	0.0018	0.00064	ug/l	
31506-32-8	MeFOSA	ND	0.0018	0.00059	ug/l	
4151-50-2	EtFOSA	ND	0.0018	0.00049	ug/l	

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		
Lab Sample ID:	JD72646-7A	**Date Sampled:**	09/11/23
Matrix:	AQ - Ground Water	**Date Received:**	09/13/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	0.0018	0.00047	ug/l	
2991-50-6	EtFOSAA	ND	0.0018	0.00084	ug/l	
PERFLUOROOCTANE SULFONAMIDO ETHANOLS						
24448-09-7	MeFOSE	ND	0.018	0.0026	ug/l	
1691-99-2	EtFOSE	ND	0.018	0.0035	ug/l	
PER and POLYFLUOROETHER CARBOXYLIC ACIDS						
13252-13-6	HFPO-DA (GenX)	ND	0.0074	0.0017	ug/l	
919005-14-4	ADONA	ND	0.0074	0.0011	ug/l	
377-73-1	PFMPA	ND	0.0037	0.00028	ug/l	
863090-89-5	PFMBA	ND	0.0037	0.00052	ug/l	
151772-58-6	NFDHA	ND	0.0037	0.0012	ug/l	
PER and POLYFLUOROETHER SULFONIC ACIDS						
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0074	0.0022	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0074	0.0017	ug/l	
113507-82-7	PFEESA	ND	0.0037	0.00025	ug/l	
FLUOROTELOMER CARBOXYLIC ACIDS						
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.0092	0.0022	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.046	0.0066	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.046	0.0057	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	58%		5-130%
	13C5-PFPeA	108%		40-130%
	13C5-PFHxA	108%		40-130%
	13C4-PFHpA	107%		40-130%
	13C8-PFOA	93%		40-130%
	13C9-PFNA	94%		40-130%
	13C6-PFDA	86%		40-130%
	13C7-PFUnDA	78%		30-130%
	13C2-PFDoDA	72%		10-130%
	13C2-PFTeDA	67%		10-130%
	13C3-PFBS	108%		40-135%
	13C3-PFHxS	118%		40-130%

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		
Lab Sample ID:	JD72646-7A	**Date Sampled:**	09/11/23
Matrix:	AQ - Ground Water	**Date Received:**	09/13/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	102%		40-130%
	13C8-FOSA	89%		40-130%
	d3-MeFOSA	60%		10-130%
	d5-EtFOSA	59%		10-130%
	d3-MeFOSAA	80%		40-170%
	d5-EtFOSAA	74%		25-135%
	d7-MeFOSE	73%		10-130%
	d9-EtFOSE	68%		10-130%
	13C2-4:2FTS	120%		40-200%
	13C2-6:2FTS	88%		40-200%
	13C2-8:2FTS	71%		40-300%
	13C3-HFPO-DA	87%		40-130%

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		
Lab Sample ID:	JD72646-7R	**Date Sampled:**	09/11/23
Matrix:	AQ - Ground Water	**Date Received:**	09/13/23
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]	L358885R.D	1	09/15/23 04:12	NW	n/a	n/a	VL10927
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
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	109%		80-120%
17060-07-0	1,2-Dichloroethane-D4	94%		80-120%
2037-26-5	Toluene-D8	105%		80-120%
460-00-4	4-Bromofluorobenzene	99%		82-114%

(a) (pH= 6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time.

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		
Lab Sample ID:	JD72646-8	**Date Sampled:**	09/11/23
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/13/23
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	L358877.D	1	09/15/23 01:08	NW	n/a	n/a	VL10927
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	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		80-120%
17060-07-0	1,2-Dichloroethane-D4	94%		80-120%
2037-26-5	Toluene-D8	105%		80-120%
460-00-4	4-Bromofluorobenzene	95%		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		
Lab Sample ID:	JD72646-8R	**Date Sampled:**	09/11/23
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/13/23
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	L358877R.D	1	09/15/23 01:08	NW	n/a	n/a	VL10927
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
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	109%		80-120%
17060-07-0	1,2-Dichloroethane-D4	94%		80-120%
2037-26-5	Toluene-D8	105%		80-120%
460-00-4	4-Bromofluorobenzene	95%		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		
Lab Sample ID:	JD72646-9	**Date Sampled:**	09/11/23
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/13/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	**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	2Q3289.D	1	09/21/23 10:37	PC	09/18/23 03:51	OP49152	T2Q75
Run #2							

	Initial Volume	Final Volume
Run #1	500 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	ND	0.0080	0.00093	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	0.00073	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	0.00029	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.00055	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.00077	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.00079	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.00076	ug/l	
PERFLUOROALKYL SULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	0.00066	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.00098	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.0014	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0020	0.00040	ug/l	
FLUOROTELOMER SULFONIC ACIDS						
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0080	0.0023	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	0.00091	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0015	ug/l	
PERFLUOROOCTANE SULFONAMIDES						
754-91-6	PFOSA	ND	0.0020	0.00069	ug/l	
31506-32-8	MeFOSA	ND	0.0020	0.00064	ug/l	
4151-50-2	EtFOSA	ND	0.0020	0.00053	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:	TRIP BLANK 2		
Lab Sample ID:	JD72646-9	**Date Sampled:**	09/11/23
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/13/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	0.0020	0.00051	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	0.00091	ug/l	
PERFLUOROOCTANE SULFONAMIDO ETHANOLS						
24448-09-7	MeFOSE	ND	0.020	0.0028	ug/l	
1691-99-2	EtFOSE	ND	0.020	0.0038	ug/l	
PER and POLYFLUOROETHER CARBOXYLIC ACIDS						
13252-13-6	HFPO-DA (GenX)	ND	0.0080	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0080	0.0012	ug/l	
377-73-1	PFMPA	ND	0.0040	0.00030	ug/l	
863090-89-5	PFMBA	ND	0.0040	0.00056	ug/l	
151772-58-6	NFDHA	ND	0.0040	0.0013	ug/l	
PER and POLYFLUOROETHER SULFONIC ACIDS						
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0024	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0018	ug/l	
113507-82-7	PFEESA	ND	0.0040	0.00027	ug/l	
FLUOROTELOMER CARBOXYLIC ACIDS						
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.010	0.0024	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.050	0.0071	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.050	0.0062	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	78%		5-130%
	13C5-PFPeA	77%		40-130%
	13C5-PFHxA	80%		40-130%
	13C4-PFHpA	76%		40-130%
	13C8-PFOA	79%		40-130%
	13C9-PFNA	76%		40-130%
	13C6-PFDA	72%		40-130%
	13C7-PFUnDA	80%		30-130%
	13C2-PFDoDA	71%		10-130%
	13C2-PFTeDA	59%		10-130%
	13C3-PFBS	83%		40-135%
	13C3-PFHxS	90%		40-130%

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
Lab Sample ID: JD72646-9 **Date Sampled:** 09/11/23
Matrix: AQ - Trip Blank Water **Date Received:** 09/13/23
Method: EPA DRAFT 1633 EPA 1633 DRAFT **Percent Solids:** n/a
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	65%		40-130%
	13C8-FOSA	71%		40-130%
	d3-MeFOSA	58%		10-130%
	d5-EtFOSA	55%		10-130%
	d3-MeFOSAA	67%		40-170%
	d5-EtFOSAA	76%		25-135%
	d7-MeFOSE	57%		10-130%
	d9-EtFOSE	57%		10-130%
	13C2-4:2FTS	90%		40-200%
	13C2-6:2FTS	92%		40-200%
	13C2-8:2FTS	94%		40-300%
	13C3-HFPO-DA	81%		40-130%

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:	FIELD BLANK		
Lab Sample ID:	JD72646-10	**Date Sampled:**	09/11/23
Matrix:	AQ - Field Blank Water	**Date Received:**	09/13/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	**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	2Q3466.D	1	09/23/23 14:52	PC	09/22/23 03:00	OP49266	T2Q78
Run #2							

	Initial Volume	Final Volume
Run #1	497 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	ND	0.0080	0.00094	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	0.00073	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	0.00029	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.00055	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.00077	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.00079	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.00076	ug/l	
PERFLUOROALKYL SULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	0.00066	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.00099	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.0014	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0020	0.00040	ug/l	
FLUOROTELOMER SULFONIC ACIDS						
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0080	0.0023	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	0.00092	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0015	ug/l	
PERFLUOROOCTANE SULFONAMIDES						
754-91-6	PFOSA	ND	0.0020	0.00069	ug/l	
31506-32-8	MeFOSA	ND	0.0020	0.00064	ug/l	
4151-50-2	EtFOSA	ND	0.0020	0.00053	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:	FIELD BLANK		
Lab Sample ID:	JD72646-10	**Date Sampled:**	09/11/23
Matrix:	AQ - Field Blank Water	**Date Received:**	09/13/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	0.0020	0.00051	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	0.00092	ug/l	
PERFLUOROOCTANE SULFONAMIDO ETHANOLS						
24448-09-7	MeFOSE	ND	0.020	0.0028	ug/l	
1691-99-2	EtFOSE	ND	0.020	0.0038	ug/l	
PER and POLYFLUOROETHER CARBOXYLIC ACIDS						
13252-13-6	HFPO-DA (GenX)	ND	0.0080	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0080	0.0012	ug/l	
377-73-1	PFMPA	ND	0.0040	0.00030	ug/l	
863090-89-5	PFMBA	ND	0.0040	0.00056	ug/l	
151772-58-6	NFDHA	ND	0.0040	0.0013	ug/l	
PER and POLYFLUOROETHER SULFONIC ACIDS						
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0025	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0018	ug/l	
113507-82-7	PFEESA	ND	0.0040	0.00027	ug/l	
FLUOROTELOMER CARBOXYLIC ACIDS						
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.010	0.0024	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.050	0.0072	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.050	0.0062	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	103%		5-130%
	13C5-PFPeA	108%		40-130%
	13C5-PFHxA	106%		40-130%
	13C4-PFHpA	104%		40-130%
	13C8-PFOA	102%		40-130%
	13C9-PFNA	106%		40-130%
	13C6-PFDA	99%		40-130%
	13C7-PFUnDA	104%		30-130%
	13C2-PFDoDA	99%		10-130%
	13C2-PFTeDA	84%		10-130%
	13C3-PFBS	107%		40-135%
	13C3-PFHxS	99%		40-130%

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:	FIELD BLANK		
Lab Sample ID:	JD72646-10	**Date Sampled:**	09/11/23
Matrix:	AQ - Field Blank Water	**Date Received:**	09/13/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	**Percent Solids:**	n/a
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	106%		40-130%
	13C8-FOSA	95%		40-130%
	d3-MeFOSA	73%		10-130%
	d5-EtFOSA	79%		10-130%
	d3-MeFOSAA	94%		40-170%
	d5-EtFOSAA	91%		25-135%
	d7-MeFOSE	90%		10-130%
	d9-EtFOSE	87%		10-130%
	13C2-4:2FTS	92%		40-200%
	13C2-6:2FTS	82%		40-200%
	13C2-8:2FTS	102%		40-300%
	13C3-HFPO-DA	97%		40-130%

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
- QC Evaluation: Honeywell Limits

P/N

JD72646

SGS Laboratories
2236 Route 130
Dayton, NJ 08810
(732) 239-0200

Honeywell

Chain of Custody / Analysis Request

Save with QC Check: Gray Cells Required | More Columns | Print Short COC | Print Expanded COC

AESI Ref: 45181.67563
COC#: 091123-Allift
Page 1 of 1

Sampling Co.:	Jacobs	Pricing Source (RFP, eAuction, etc)	RFP2019	HW Site Name	Buffalo Allift Landfill	Task Type	OM&M
		Email of person receiving EDD	EQUIS	Location of Site	579 Tifft Street, Buffalo NY	WBS Code	6400
Reporting Information (DocuSign First Signer)	Name: Jacobs	Sampler(s) names	Benjamin Hendry - 315-806-4029	Analytical Group Name		Lab Proj # (SDG):	
	Address: 1563 Willis Ave.	PO #	HW PO # A001457165	Preservative	1	Lab Location ID	ACTD
	City, State, Zip: Syracuse, NY 13204	Analysis Turnaround Time (calendar days):	Standard TAT			HW Site R-Code	R31030
	Contact; email: Mike Fay, michael.fay@jacobs.com	Consultant	Jacobs			Sampling Program	Annual
Billing Information (DocuSign Second Signer)	Co. Name: Honeywell	Laboratory Contact	Jadon Schiller			Authorized User:	Honeywell
	Address: 301 Plainfield Road, Suite 330	Report Tier Level	2			Lab Parent ID	SGS
	City, State, Zip: Syracuse, NY 13202	Full Report and EDD TAT (calendar days)	TAT (days)			Text & Excel File Drive	Excel & Text File Order
	HW RM email: Shane.Blauvelt@honeywell.com	Honeywell RM Name	Shane Blauvelt (SRS)			[redacted]	

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	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Medium	# of Cont.	Composite (Y, N)	Field Filtered Sample (Y, N)	EPA 8260 - Benzene, chlorobenzene, ethylbenzene, xylenes, 1,2-dichloroethane, 1,2-dichlorobenzene, (NF VIAs)	EPA 1633	EPA 8270 Naphthalene, 4-chloroaniline	EPA 8270 SIM, 1,4-dioxane	EPA 6010, 6020, 7470, Antimony, arsenic, cadmium, chromium, iron, lead, manganese, mercury	Sampling Method (rt_sample_method)	Lab Sample Numbers
	Units										N	N	4	3					
1	Sump-1	5.71	5.60	1 Sump-1	09-11-2023	1257	REG	GW	Water	7	N	N	4	3					E14
2	Sump-2	9.88	9.42	2 Sump-2	09-11-2023	1412	REG	GW	Water	7	N	N	4	3					A18
3	Sump-3	8.11	8.27	3 Sump-3	09-11-2023	1622	REG	GW	Water	7	N	N	4	3					
4	Sump-4	6.69	6.94	4 Sump-4	09-11-2023	1738	REG	GW	Water	10	N	N	4	3	2	1			
5	Sump-4	6.69	6.94	4 Sump-4-MS	09-11-2023	1738	MS	WQ	Water	10	N	N	4	3	2	1			
6	Sump-4	6.69	6.94	4 Sump-4-MSD	09-11-2023	1738	MSD	WQ	Water	10	N	N	4	3	2	1			
7	Sump-4	6.69	6.94	5 Sump-4-FD	09-11-2023	1738	FD	WQ	Water	10	N	N	4	3	2	1			
8	N/A	---	---	6 Sump-Comp	09-11-2023	1845	REG	GW	Water	6	Y	N		3	2	1			
9	MW-2	6.74	8.94	7 MW-2	09-11-2023	1141	REG	GW	Water	10	N	N	4	3	2	1			
10	N/A	---	---	8 Trip Blank	09-11-2023	---	TB	WQ	Water	2	N	N	2						
11	N/A	---	---	9 Trip Blank 2	09-11-2023	---	TB	WQ	Water	3	N	N		3					
12	N/A	---	---	10 Field Blank	09-11-2023	1500	FB	WQ	Water	3	N	N		3					

Initial Assessment [redacted]

Label Verification

[redacted]

SEE SPECIFIC ANALYSES ABOVE
For COC questions, contact sampler

Relinquished by	Company: Jacobs	Received by	Company		Condition		Custody Seals Intact
[signature]	Date/Time: 09-11-23/1645	FEDEX	Date/Time		Cooler Temp.	CTP 5.0° 4.7	
Relinquished by	Company	Received by	Company		Condition		Custody Seals Intact
	Date/Time	FED	Date/Time		Cooler Temp.		Lab Quote #

Preservatives: (Other; Specify):

0 (None); 1 (4 Deg C); 2 (4C HCl-Na2SO3 (pH<2)); 3 (4C HNO3); 4 (4C HNO3 (pH<2)); 5 (4C none); 6 (4CH2SO4pH<2)Na2S2O3); 7 (4CNaOH(pH>12)&AscAci); 8 (ASCACI); 9 (BrCl); 10 (DI H2O); 11 (EDTA); 12 (H2O); 13 (H2SO4 (pH<2)); 14 (H2SO4 (pH<2), 4 DegC); 15 (H3PO4); 16 (HCl); 17 (HCl (pH<2)); 18 (HCl (pH<2), 4 Deg C); 19 (HCL, 4 Deg C); 20 (HNO3 (pH<2)); 21 (HNO3 (pH<2), 4 Deg C); 22 (MCAA,Na2SO3); 23 (Methanol); 24 (Na2SO3); 25 (Na2SO4); 26 (Na3PO4); 27 (NaHSO4); 28 (NaOH); 29 (NaOH (pH>12)); 30 (NaOH (pH>12), 4 DegC); 31 (NaOH, Zn Acetate); 32 (Nitric Acid, 4 Deg C); 33 (Other); 34 (Zn Acetate); sp (Special);

FedEx Tracking #

JR 40

5.1 5

JD72646: Chain of Custody
Page 1 of 4

SGS Sample Receipt Summary

Job Number: JD72646 **Client:** HONEYWELL **Project:** R31030

Date / Time Received: 9/13/2023 10:05:00 AM **Delivery Method:** FEDEX **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (5.0); Cooler 2: (4.7);

Cooler Temps (Corrected) °C: Cooler 1: (4.7); Cooler 2: (4.4);

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 40		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	2		

Quality Control Preservatio	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. -4 Received one 950ml EX bottle broken.

Responded to by: Jadon Schiller

Response Date: 9/13/23

okay to proceed with limited volume.

Job Change Order: JD72646

Requested Date:	9/28/2023	**Received Date:**	9/13/2023
Account Name:	Honeywell International Inc. OMM	**Due Date:**	9/28/2023
Project Description:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Bu	**Deliverable:**	COMMBN
C/O Initiated By:	MICHELLE_ **PM:** JBS	**TAT (Days):**	1

Sample #: JD72646-1 thru -5, -7, -8 **Dept:**

Client ID: **TAT:** 1

Change: Relog/retrieve for VR826014DCB

Above Changes Per: Ben Hendry **Date/Time:** 9/28/2023

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

QC Evaluation: Honeywell Limits

Job Number: JD72646
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/11/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
VL10927	SW846 8260D						
VL10927-BS	71-43-2	Benzene	BSP	REC	83	%	70-130
VL10927-BS	108-90-7	Chlorobenzene	BSP	REC	93	%	70-130
VL10927-BS	95-50-1	1,2-Dichlorobenzene	BSP	REC	90	%	70-130
VL10927-BS	106-46-7	1,4-Dichlorobenzene	BSP	REC	92	%	70-130
VL10927-BS	100-41-4	Ethylbenzene	BSP	REC	86	%	70-130
VL10927-BS	1330-20-7	Xylene (total)	BSP	REC	90	%	70-130
VL10927-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	108	%	70-130
VL10927-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	89	%	70-130
VL10927-BS	2037-26-5	Toluene-D8	BSP	SURR	96	%	70-130
VL10927-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	98	%	70-130
JD72646-4MS	71-43-2	Benzene	MS	REC	95	%	70-130
JD72646-4MS	108-90-7	Chlorobenzene	MS	REC	90	%	70-130
JD72646-4MS	95-50-1	1,2-Dichlorobenzene	MS	REC	95	%	70-130
JD72646-4MS	106-46-7	1,4-Dichlorobenzene	MS	REC	98	%	70-130
JD72646-4MS	100-41-4	Ethylbenzene	MS	REC	92	%	70-130
JD72646-4MS	1330-20-7	Xylene (total)	MS	REC	99	%	70-130
JD72646-4MS	1868-53-7	Dibromofluoromethane	MS	SURR	109	%	70-130
JD72646-4MS	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	87	%	70-130
JD72646-4MS	2037-26-5	Toluene-D8	MS	SURR	95	%	70-130
JD72646-4MS	460-00-4	4-Bromofluorobenzene	MS	SURR	99	%	70-130
JD72646-4MSD	71-43-2	Benzene	MSD	REC	91	%	70-130
JD72646-4MSD	71-43-2	Benzene	MSD	RPD	4	%	30
JD72646-4MSD	108-90-7	Chlorobenzene	MSD	REC	84	%	70-130
JD72646-4MSD	108-90-7	Chlorobenzene	MSD	RPD	3	%	30
JD72646-4MSD	95-50-1	1,2-Dichlorobenzene	MSD	REC	92	%	70-130
JD72646-4MSD	95-50-1	1,2-Dichlorobenzene	MSD	RPD	3	%	30
JD72646-4MSD	106-46-7	1,4-Dichlorobenzene	MSD	REC	96	%	70-130
JD72646-4MSD	106-46-7	1,4-Dichlorobenzene	MSD	RPD	2	%	30
JD72646-4MSD	100-41-4	Ethylbenzene	MSD	REC	89	%	70-130
JD72646-4MSD	100-41-4	Ethylbenzene	MSD	RPD	4	%	30
JD72646-4MSD	1330-20-7	Xylene (total)	MSD	REC	95	%	70-130
JD72646-4MSD	1330-20-7	Xylene (total)	MSD	RPD	3	%	30
JD72646-4MSD	1868-53-7	Dibromofluoromethane	MSD	SURR	107	%	70-130
JD72646-4MSD	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	87	%	70-130
JD72646-4MSD	2037-26-5	Toluene-D8	MSD	SURR	95	%	70-130
JD72646-4MSD	460-00-4	4-Bromofluorobenzene	MSD	SURR	99	%	70-130
VL10927-MB	1868-53-7	Dibromofluoromethane	MB	SURR	108	%	70-130
VL10927-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	91	%	70-130
VL10927-MB	2037-26-5	Toluene-D8	MB	SURR	107	%	70-130
VL10927-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	99	%	70-130
JD72646-1	1868-53-7	Dibromofluoromethane	SAMP	SURR	112	%	70-130
JD72646-1	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	92	%	70-130

* Sample used for QC is not from job JD72646

QC Evaluation: Honeywell Limits

Job Number: JD72646
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/11/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD72646-1	2037-26-5	Toluene-D8	SAMP	SURR	103	%	70-130
JD72646-1	460-00-4	4-Bromofluorobenzene	SAMP	SURR	98	%	70-130
JD72646-1R	1868-53-7	Dibromofluoromethane	SAMP	SURR	112	%	70-130
JD72646-1R	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	92	%	70-130
JD72646-1R	2037-26-5	Toluene-D8	SAMP	SURR	103	%	70-130
JD72646-1R	460-00-4	4-Bromofluorobenzene	SAMP	SURR	98	%	70-130
JD72646-2	1868-53-7	Dibromofluoromethane	SAMP	SURR	113	%	70-130
JD72646-2	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	97	%	70-130
JD72646-2	2037-26-5	Toluene-D8	SAMP	SURR	104	%	70-130
JD72646-2	460-00-4	4-Bromofluorobenzene	SAMP	SURR	94	%	70-130
JD72646-2R	1868-53-7	Dibromofluoromethane	SAMP	SURR	113	%	70-130
JD72646-2R	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	97	%	70-130
JD72646-2R	2037-26-5	Toluene-D8	SAMP	SURR	104	%	70-130
JD72646-2R	460-00-4	4-Bromofluorobenzene	SAMP	SURR	94	%	70-130
JD72646-3	1868-53-7	Dibromofluoromethane	SAMP	SURR	110	%	70-130
JD72646-3	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	94	%	70-130
JD72646-3	2037-26-5	Toluene-D8	SAMP	SURR	103	%	70-130
JD72646-3	460-00-4	4-Bromofluorobenzene	SAMP	SURR	98	%	70-130
JD72646-3R	1868-53-7	Dibromofluoromethane	SAMP	SURR	110	%	70-130
JD72646-3R	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	94	%	70-130
JD72646-3R	2037-26-5	Toluene-D8	SAMP	SURR	103	%	70-130
JD72646-3R	460-00-4	4-Bromofluorobenzene	SAMP	SURR	98	%	70-130
JD72646-4	1868-53-7	Dibromofluoromethane	SAMP	SURR	109	%	70-130
JD72646-4	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	94	%	70-130
JD72646-4	2037-26-5	Toluene-D8	SAMP	SURR	105	%	70-130
JD72646-4	460-00-4	4-Bromofluorobenzene	SAMP	SURR	100	%	70-130
JD72646-4R	1868-53-7	Dibromofluoromethane	SAMP	SURR	109	%	70-130
JD72646-4R	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	94	%	70-130
JD72646-4R	2037-26-5	Toluene-D8	SAMP	SURR	105	%	70-130
JD72646-4R	460-00-4	4-Bromofluorobenzene	SAMP	SURR	100	%	70-130
JD72646-5	1868-53-7	Dibromofluoromethane	SAMP	SURR	109	%	70-130
JD72646-5	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	94	%	70-130
JD72646-5	2037-26-5	Toluene-D8	SAMP	SURR	104	%	70-130
JD72646-5	460-00-4	4-Bromofluorobenzene	SAMP	SURR	95	%	70-130
JD72646-5R	1868-53-7	Dibromofluoromethane	SAMP	SURR	109	%	70-130
JD72646-5R	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	94	%	70-130
JD72646-5R	2037-26-5	Toluene-D8	SAMP	SURR	104	%	70-130
JD72646-5R	460-00-4	4-Bromofluorobenzene	SAMP	SURR	95	%	70-130
JD72646-7	1868-53-7	Dibromofluoromethane	SAMP	SURR	109	%	70-130
JD72646-7	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	94	%	70-130
JD72646-7	2037-26-5	Toluene-D8	SAMP	SURR	105	%	70-130
JD72646-7	460-00-4	4-Bromofluorobenzene	SAMP	SURR	99	%	70-130
JD72646-7R	1868-53-7	Dibromofluoromethane	SAMP	SURR	109	%	70-130
JD72646-7R	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	94	%	70-130
JD72646-7R	2037-26-5	Toluene-D8	SAMP	SURR	105	%	70-130

* Sample used for QC is not from job JD72646

QC Evaluation: Honeywell Limits

Job Number: JD72646
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/11/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD72646-7R	460-00-4	4-Bromofluorobenzene	SAMP	SURR	99	%	70-130
JD72646-8	1868-53-7	Dibromofluoromethane	SAMP	SURR	109	%	70-130
JD72646-8	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	94	%	70-130
JD72646-8	2037-26-5	Toluene-D8	SAMP	SURR	105	%	70-130
JD72646-8	460-00-4	4-Bromofluorobenzene	SAMP	SURR	95	%	70-130
JD72646-8R	1868-53-7	Dibromofluoromethane	SAMP	SURR	109	%	70-130
JD72646-8R	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	94	%	70-130
JD72646-8R	2037-26-5	Toluene-D8	SAMP	SURR	105	%	70-130
JD72646-8R	460-00-4	4-Bromofluorobenzene	SAMP	SURR	95	%	70-130
OP49101	SW846 8270E						
OP49101-BS1	106-47-8	4-Chloroaniline	BSP	REC	53	%	40-140
OP49101-BS1	123-91-1	1,4-Dioxane	BSP	REC	31	%	40-140
OP49101-BS1	91-20-3	Naphthalene	BSP	REC	47	%	40-140
OP49101-BS1	4165-60-0	Nitrobenzene-d5	BSP	SURR	64	%	30-130
OP49101-BS1	321-60-8	2-Fluorobiphenyl	BSP	SURR	63	%	30-130
OP49101-BS1	1718-51-0	Terphenyl-d14	BSP	SURR	69	%	30-130
OP49101-MS	106-47-8	4-Chloroaniline	MS	REC	39	%	40-140
OP49101-MS	123-91-1	1,4-Dioxane	MS	REC	65	%	40-140
OP49101-MS	91-20-3	Naphthalene	MS	REC	56	%	40-140
OP49101-MS	4165-60-0	Nitrobenzene-d5	MS	SURR	66	%	30-130
OP49101-MS	321-60-8	2-Fluorobiphenyl	MS	SURR	67	%	30-130
OP49101-MS	1718-51-0	Terphenyl-d14	MS	SURR	50	%	30-130
OP49101-MSD	106-47-8	4-Chloroaniline	MSD	REC	41	%	40-140
OP49101-MSD	106-47-8	4-Chloroaniline	MSD	RPD	5	%	20
OP49101-MSD	123-91-1	1,4-Dioxane	MSD	REC	63	%	40-140
OP49101-MSD	123-91-1	1,4-Dioxane	MSD	RPD	3	%	20
OP49101-MSD	91-20-3	Naphthalene	MSD	REC	56	%	40-140
OP49101-MSD	91-20-3	Naphthalene	MSD	RPD	1	%	20
OP49101-MSD	4165-60-0	Nitrobenzene-d5	MSD	SURR	69	%	30-130
OP49101-MSD	321-60-8	2-Fluorobiphenyl	MSD	SURR	68	%	30-130
OP49101-MSD	1718-51-0	Terphenyl-d14	MSD	SURR	39	%	30-130
OP49101-MB1	4165-60-0	Nitrobenzene-d5	MB	SURR	52	%	30-130
OP49101-MB1	321-60-8	2-Fluorobiphenyl	MB	SURR	46	%	30-130
OP49101-MB1	1718-51-0	Terphenyl-d14	MB	SURR	58	%	30-130
JD72646-4	4165-60-0	Nitrobenzene-d5	SAMP	SURR	58	%	30-130
JD72646-4	321-60-8	2-Fluorobiphenyl	SAMP	SURR	64	%	30-130
JD72646-4	1718-51-0	Terphenyl-d14	SAMP	SURR	40	%	30-130
JD72646-5	4165-60-0	Nitrobenzene-d5	SAMP	SURR	67	%	30-130
JD72646-5	321-60-8	2-Fluorobiphenyl	SAMP	SURR	73	%	30-130
JD72646-5	1718-51-0	Terphenyl-d14	SAMP	SURR	37	%	30-130
JD72646-6	4165-60-0	Nitrobenzene-d5	SAMP	SURR	58	%	30-130
JD72646-6	321-60-8	2-Fluorobiphenyl	SAMP	SURR	64	%	30-130
JD72646-6	1718-51-0	Terphenyl-d14	SAMP	SURR	34	%	30-130

* Sample used for QC is not from job JD72646

QC Evaluation: Honeywell Limits

Job Number: JD72646
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 09/11/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD72646-7	4165-60-0	Nitrobenzene-d5	SAMP	SURR	46	%	30-130
JD72646-7	321-60-8	2-Fluorobiphenyl	SAMP	SURR	48	%	30-130
JD72646-7	1718-51-0	Terphenyl-d14	SAMP	SURR	43	%	30-130

* Sample used for QC is not from job JD72646

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: JD72646
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
VL10927-MB	L358871.D	1	09/14/23	NW	n/a	n/a	VL10927

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD72646-1, JD72646-2, JD72646-3, JD72646-4, JD72646-5, JD72646-7, JD72646-8, JD72646-1R, JD72646-2R, JD72646-3R, JD72646-4R, JD72646-5R, JD72646-7R, JD72646-8R

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	108%	80-120%
17060-07-0	1,2-Dichloroethane-D4	91%	80-120%
2037-26-5	Toluene-D8	107%	80-120%
460-00-4	4-Bromofluorobenzene	99%	82-114%

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

Blank Spike Summary

Job Number: JD72646
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
VL10927-BS	L358869.D	1	09/14/23	NW	n/a	n/a	VL10927

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD72646-1, JD72646-2, JD72646-3, JD72646-4, JD72646-5, JD72646-7, JD72646-8, JD72646-1R, JD72646-2R, JD72646-3R, JD72646-4R, JD72646-5R, JD72646-7R, JD72646-8R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	41.7	83	80-115
108-90-7	Chlorobenzene	50	46.4	93	80-115
95-50-1	1,2-Dichlorobenzene	50	45.0	90	81-117
106-46-7	1,4-Dichlorobenzene	50	46.2	92	80-114
100-41-4	Ethylbenzene	50	42.9	86	78-116
1330-20-7	Xylene (total)	150	135	90	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	108%	80-120%
17060-07-0	1,2-Dichloroethane-D4	89%	80-120%
2037-26-5	Toluene-D8	96%	80-120%
460-00-4	4-Bromofluorobenzene	98%	82-114%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD72646
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
JD72646-4MS [a]	L358874.D	1	09/14/23	NW	n/a	n/a	VL10927
JD72646-4MSD [a]	L358875.D	1	09/15/23	NW	n/a	n/a	VL10927
JD72646-4 [a]	L358872.D	1	09/14/23	NW	n/a	n/a	VL10927

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD72646-1, JD72646-2, JD72646-3, JD72646-4, JD72646-5, JD72646-7, JD72646-8, JD72646-1R, JD72646-2R, JD72646-3R, JD72646-4R, JD72646-5R, JD72646-7R, JD72646-8R

CAS No.	Compound	JD72646-4 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	1.2		50	48.7	95	50	46.9	91	4	49-137/12
108-90-7	Chlorobenzene	71.2		50	116	90	50	113	84	3	68-123/12
95-50-1	1,2-Dichlorobenzene	ND		50	47.4	95	50	45.8	92	3	74-119/12
106-46-7	1,4-Dichlorobenzene	1.4		50	50.5	98	50	49.4	96	2	72-117/12
100-41-4	Ethylbenzene	ND		50	46.2	92	50	44.3	89	4	37-144/12
1330-20-7	Xylene (total)	ND		150	148	99	150	143	95	3	38-147/12

CAS No.	Surrogate Recoveries	MS	MSD	JD72646-4	Limits
1868-53-7	Dibromofluoromethane	109%	107%	109%	80-120%
17060-07-0	1,2-Dichloroethane-D4	87%	87%	94%	80-120%
2037-26-5	Toluene-D8	95%	95%	105%	80-120%
460-00-4	4-Bromofluorobenzene	99%	99%	100%	82-114%

(a) (pH= 6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time.

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JD72646
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: VL10881-BFB
Lab File ID: L357755.D
Instrument ID: GCMSL
Injection Date: 07/27/23
Injection Time: 21:17

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	11315	19.4		Pass
75	30.0 - 60.0% of mass 95	29059	49.9		Pass
95	Base peak, 100% relative abundance	58280	100.0		Pass
96	5.0 - 9.0% of mass 95	3849	6.60		Pass
173	Less than 2.0% of mass 174	245	0.42	(0.60) [a]	Pass
174	50.0 - 120.0% of mass 95	40813	70.0		Pass
175	5.0 - 9.0% of mass 174	3072	5.27	(7.53) [a]	Pass
176	95.0 - 101.0% of mass 174	41032	70.4	(100.5) [a]	Pass
177	5.0 - 9.0% of mass 176	2787	4.78	(6.79) [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
VL10881-IC10881	L357757.D	07/27/23	22:03	00:46	Initial cal 0.2
VL10881-IC10881	L357758.D	07/27/23	22:27	01:10	Initial cal 0.5
VL10881-IC10881	L357759.D	07/27/23	22:50	01:33	Initial cal 1
VL10881-IC10881	L357760.D	07/27/23	23:13	01:56	Initial cal 2
VL10881-IC10881	L357761.D	07/27/23	23:36	02:19	Initial cal 4
VL10881-IC10881	L357762.D	07/28/23	00:00	02:43	Initial cal 8
VL10881-IC10881	L357763.D	07/28/23	00:23	03:06	Initial cal 20
VL10881-ICC10881	L357764.D	07/28/23	00:46	03:29	Initial cal 50
VL10881-IC10881	L357765.D	07/28/23	01:10	03:53	Initial cal 100
VL10881-IC10881	L357766.D	07/28/23	01:33	04:16	Initial cal 200
VL10881-ICV10881	L357769.D	07/28/23	02:42	05:25	Initial cal verification 50
VL10881-ICV10881	L357770.D	07/28/23	03:06	05:49	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JD72646
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: VL10926-BFB
Lab File ID: L358839.D
Instrument ID: GCMSL
Injection Date: 09/14/23
Injection Time: 10:03

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	10204	17.0		Pass
75	30.0 - 60.0% of mass 95	30035	49.9		Pass
95	Base peak, 100% relative abundance	60163	100.0		Pass
96	5.0 - 9.0% of mass 95	3549	5.90		Pass
173	Less than 2.0% of mass 174	133	0.22	(0.30) [a]	Pass
174	50.0 - 120.0% of mass 95	44437	73.9		Pass
175	5.0 - 9.0% of mass 174	3361	5.59	(7.56) [a]	Pass
176	95.0 - 101.0% of mass 174	42389	70.5	(95.4) [a]	Pass
177	5.0 - 9.0% of mass 176	2925	4.86	(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
VL10926-CC10881	L358840.D	09/14/23	10:35	00:32	Continuing cal 20
VL10926-BS	L358840A.D	09/14/23	10:35	00:32	Blank Spike
VL10926-MB	L358841.D	09/14/23	11:12	01:09	Method Blank
ZZZZZZ	L358842.D	09/14/23	11:45	01:42	(unrelated sample)
ZZZZZZ	L358843.D	09/14/23	12:08	02:05	(unrelated sample)
JD72599-3	L358844.D	09/14/23	12:31	02:28	(used for QC only; not part of job JD72646)
ZZZZZZ	L358846.D	09/14/23	13:17	03:14	(unrelated sample)
ZZZZZZ	L358847.D	09/14/23	13:40	03:37	(unrelated sample)
ZZZZZZ	L358848.D	09/14/23	14:03	04:00	(unrelated sample)
ZZZZZZ	L358849.D	09/14/23	14:26	04:23	(unrelated sample)
ZZZZZZ	L358850.D	09/14/23	14:49	04:46	(unrelated sample)
ZZZZZZ	L358851.D	09/14/23	15:12	05:09	(unrelated sample)
ZZZZZZ	L358853.D	09/14/23	15:57	05:54	(unrelated sample)
ZZZZZZ	L358854.D	09/14/23	16:20	06:17	(unrelated sample)
JD72599-3MS	L358855.D	09/14/23	16:43	06:40	Matrix Spike
JD72599-3MSD	L358856.D	09/14/23	17:06	07:03	Matrix Spike Duplicate
ZZZZZZ	L358857.D	09/14/23	17:29	07:26	(unrelated sample)
ZZZZZZ	L358858.D	09/14/23	17:52	07:49	(unrelated sample)
ZZZZZZ	L358859.D	09/14/23	18:15	08:12	(unrelated sample)
ZZZZZZ	L358860.D	09/14/23	18:38	08:35	(unrelated sample)
ZZZZZZ	L358861.D	09/14/23	19:01	08:58	(unrelated sample)
ZZZZZZ	L358862.D	09/14/23	19:24	09:21	(unrelated sample)
ZZZZZZ	L358863.D	09/14/23	19:47	09:44	(unrelated sample)
ZZZZZZ	L358864.D	09/14/23	20:10	10:07	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD72646
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample:	VL10926-BFB	**Injection Date:**	09/14/23
Lab File ID:	L358839.D	**Injection Time:**	10:03
Instrument ID:	GCMSL		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VL10927-CC10881	L358867.D	09/14/23	21:19	11:16	Continuing cal 50
VL10927-CC10881	L358868.D	09/14/23	21:42	11:39	Continuing cal 1
VL10927-BS	L358869.D	09/14/23	22:05	12:02	Blank Spike
VL10927-MB	L358871.D	09/14/23	22:50	12:47	Method Blank
JD72646-4	L358872.D	09/14/23	23:13	13:10	SUMP-4
JD72646-4R	L358872R.D	09/14/23	23:13	13:10	SUMP-4
ZZZZZZ	L358873.D	09/14/23	23:36	13:33	(unrelated sample)
JD72646-4MS	L358874.D	09/14/23	23:59	13:56	Matrix Spike
JD72646-4MSD	L358875.D	09/15/23	00:22	14:19	Matrix Spike Duplicate
JD72646-8R	L358877R.D	09/15/23	01:08	15:05	TRIP BLANK
JD72646-8	L358877.D	09/15/23	01:08	15:05	TRIP BLANK
ZZZZZZ	L358878.D	09/15/23	01:31	15:28	(unrelated sample)
ZZZZZZ	L358879.D	09/15/23	01:54	15:51	(unrelated sample)
ZZZZZZ	L358880.D	09/15/23	02:17	16:14	(unrelated sample)
JD72646-1R	L358881R.D	09/15/23	02:40	16:37	SUMP-1
JD72646-1	L358881.D	09/15/23	02:40	16:37	SUMP-1
JD72646-2R	L358882R.D	09/15/23	03:03	17:00	SUMP-2
JD72646-2	L358882.D	09/15/23	03:03	17:00	SUMP-2
JD72646-3R	L358883R.D	09/15/23	03:26	17:23	SUMP-3
JD72646-3	L358883.D	09/15/23	03:26	17:23	SUMP-3
JD72646-5R	L358884R.D	09/15/23	03:49	17:46	SUMP-4-FD
JD72646-5	L358884.D	09/15/23	03:49	17:46	SUMP-4-FD
JD72646-7	L358885.D	09/15/23	04:12	18:09	MW-2
JD72646-7R	L358885R.D	09/15/23	04:12	18:09	MW-2
ZZZZZZ	L358886.D	09/15/23	04:35	18:32	(unrelated sample)
ZZZZZZ	L358887.D	09/15/23	04:58	18:55	(unrelated sample)
ZZZZZZ	L358888.D	09/15/23	05:21	19:18	(unrelated sample)
ZZZZZZ	L358889.D	09/15/23	05:44	19:41	(unrelated sample)
ZZZZZZ	L358890.D	09/15/23	06:07	20:04	(unrelated sample)
ZZZZZZ	L358891.D	09/15/23	06:30	20:27	(unrelated sample)
ZZZZZZ	L358892.D	09/15/23	06:53	20:50	(unrelated sample)

Surrogate Recovery Summary

Job Number: JD72646
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
JD72646-1	L358881.D	112	92	103	98
JD72646-2	L358882.D	113	97	104	94
JD72646-3	L358883.D	110	94	103	98
JD72646-4	L358872.D	109	94	105	100
JD72646-5	L358884.D	109	94	104	95
JD72646-7	L358885.D	109	94	105	99
JD72646-8	L358877.D	109	94	105	95
JD72646-1R	L358881R.D	112	92	103	98
JD72646-2R	L358882R.D	113	97	104	94
JD72646-3R	L358883R.D	110	94	103	98
JD72646-4R	L358872R.D	109	94	105	100
JD72646-5R	L358884R.D	109	94	104	95
JD72646-7R	L358885R.D	109	94	105	99
JD72646-8R	L358877R.D	109	94	105	95
JD72646-4MS	L358874.D	109	87	95	99
JD72646-4MSD	L358875.D	107	87	95	99
VL10927-BS	L358869.D	108	89	96	98
VL10927-MB	L358871.D	108	91	107	99

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: JD72646
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
OP49101-MB1	CJ2455.D	1	09/15/23	KM	09/15/23	OP49101	ECJ121

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD72646-4, JD72646-5, JD72646-6, JD72646-7

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
4165-60-0	Nitrobenzene-d5	52%	28-118%
321-60-8	2-Fluorobiphenyl	46%	34-116%
1718-51-0	Terphenyl-d14	58%	10-127%

Method Blank Summary

Job Number: JD72646
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
OP49101A-MB1	4M118780.D	1	09/16/23	RS	09/15/23	OP49101A	E4M5559

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD72646-4, JD72646-5, JD72646-6, JD72646-7

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	68%	23-127%
321-60-8	2-Fluorobiphenyl	49% [a]	23-114%
1718-51-0	Terphenyl-d14	64%	10-121%

(a) Outside of program requirements.

Instrument Blank

Job Number: JD72646
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
T2Q75-IBLK	2Q3211.D	1	09/20/23	PC	n/a	n/a	T2Q75

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

JD72646-9

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0080	0.00093	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	0.00073	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	0.00029	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.00055	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.00077	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.00079	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.00076	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	0.00066	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.00098	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.0014	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0020	0.00040	ug/l	
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0080	0.0023	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	0.00091	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0015	ug/l	
754-91-6	PFOSA	ND	0.0020	0.00069	ug/l	
31506-32-8	MeFOSA	ND	0.0020	0.00064	ug/l	
4151-50-2	EtFOSA	ND	0.0020	0.00053	ug/l	
2355-31-9	MeFOSAA	ND	0.0020	0.00051	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	0.00091	ug/l	
24448-09-7	MeFOSE	ND	0.020	0.0028	ug/l	
1691-99-2	EtFOSE	ND	0.020	0.0038	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0080	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0080	0.0012	ug/l	
377-73-1	PFMPA	ND	0.0040	0.00030	ug/l	
863090-89-5	PFMBA	ND	0.0040	0.00056	ug/l	
151772-58-6	NFDHA	ND	0.0040	0.0013	ug/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0024	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0018	ug/l	

Instrument Blank

Job Number: JD72646
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
T2Q75-IBLK	2Q3211.D	1	09/20/23	PC	n/a	n/a	T2Q75

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

JD72646-9

CAS No.	Compound	Result	RL	MDL	Units	Q
113507-82-7	PFEESA	ND	0.0040	0.00027	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.010	0.0024	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.050	0.0071	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.050	0.0062	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	125%	5-130%
	13C5-PFPeA	125%	40-130%
	13C5-PFHxA	126%	40-130%
	13C4-PFHpA	124%	40-130%
	13C8-PFOA	122%	40-130%
	13C9-PFNA	129%	40-130%
	13C6-PFDA	118%	40-130%
	13C7-PFUnDA	130%	30-130%
	13C2-PFDoDA	128%	10-130%
	13C2-PFTeDA	122%	10-130%
	13C3-PFBS	106%	40-135%
	13C3-PFHxS	113%	40-130%
	13C8-PFOS	116%	40-130%
	13C8-FOSA	120%	40-130%
	d3-MeFOSA	122%	10-130%
	d5-EtFOSA	113%	10-130%
	d3-MeFOSAA	129%	40-170%
	d5-EtFOSAA	120%	25-135%
	d7-MeFOSE	117%	10-130%
	d9-EtFOSE	121%	10-130%
	13C2-4:2FTS	149%	40-200%
	13C2-6:2FTS	134%	40-200%
	13C2-8:2FTS	129%	40-300%
	13C3-HFPO-DA	122%	40-130%

Instrument Blank

Job Number: JD72646
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
T2Q75-ICCB	2Q3282.D	1	09/21/23	PC	n/a	n/a	T2Q75

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

JD72646-9

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0080	0.00093	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	0.00073	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	0.00029	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.00055	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.00077	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.00079	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.00076	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	0.00066	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.00098	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.0014	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0020	0.00040	ug/l	
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0080	0.0023	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	0.00091	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0015	ug/l	
754-91-6	PFOSA	ND	0.0020	0.00069	ug/l	
31506-32-8	MeFOSA	ND	0.0020	0.00064	ug/l	
4151-50-2	EtFOSA	ND	0.0020	0.00053	ug/l	
2355-31-9	MeFOSAA	ND	0.0020	0.00051	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	0.00091	ug/l	
24448-09-7	MeFOSE	ND	0.020	0.0028	ug/l	
1691-99-2	EtFOSE	ND	0.020	0.0038	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0080	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0080	0.0012	ug/l	
377-73-1	PFMPA	ND	0.0040	0.00030	ug/l	
863090-89-5	PFMBA	ND	0.0040	0.00056	ug/l	
151772-58-6	NFDHA	ND	0.0040	0.0013	ug/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0024	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0018	ug/l	

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Job Number: JD72646
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
T2Q75-ICCB	2Q3282.D	1	09/21/23	PC	n/a	n/a	T2Q75

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

JD72646-9

CAS No.	Compound	Result	RL	MDL	Units	Q
113507-82-7	PFEESA	ND	0.0040	0.00027	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.010	0.0024	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.050	0.0071	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.050	0.0062	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	124%	5-130%
	13C5-PFPeA	125%	40-130%
	13C5-PFHxA	126%	40-130%
	13C4-PFHpA	126%	40-130%
	13C8-PFOA	135%* [a]	40-130%
	13C9-PFNA	113%	40-130%
	13C6-PFDA	129%	40-130%
	13C7-PFUnDA	134%* [a]	30-130%
	13C2-PFDoDA	121%	10-130%
	13C2-PFTeDA	116%	10-130%
	13C3-PFBS	120%	40-135%
	13C3-PFHxS	117%	40-130%
	13C8-PFOS	118%	40-130%
	13C8-FOSA	115%	40-130%
	d3-MeFOSA	112%	10-130%
	d5-EtFOSA	124%	10-130%
	d3-MeFOSAA	114%	40-170%
	d5-EtFOSAA	123%	25-135%
	d7-MeFOSE	117%	10-130%
	d9-EtFOSE	116%	10-130%
	13C2-4:2FTS	129%	40-200%
	13C2-6:2FTS	128%	40-200%
	13C2-8:2FTS	158%	40-300%
	13C3-HFPO-DA	128%	40-130%

(a) Outside of control limits, but within reasonable method recovery limits.

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Job Number: JD72646
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
T2Q78-ICCB	2Q3443.D	1	09/23/23	PC	n/a	n/a	T2Q78

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

JD72646-1A, JD72646-2A

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0080	0.00093	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	0.00073	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	0.00029	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.00055	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.00077	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.00079	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.00076	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	0.00066	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.00098	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.0014	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0020	0.00040	ug/l	
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0080	0.0023	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	0.00091	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0015	ug/l	
754-91-6	PFOSA	ND	0.0020	0.00069	ug/l	
31506-32-8	MeFOSA	ND	0.0020	0.00064	ug/l	
4151-50-2	EtFOSA	ND	0.0020	0.00053	ug/l	
2355-31-9	MeFOSAA	ND	0.0020	0.00051	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	0.00091	ug/l	
24448-09-7	MeFOSE	ND	0.020	0.0028	ug/l	
1691-99-2	EtFOSE	ND	0.020	0.0038	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0080	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0080	0.0012	ug/l	
377-73-1	PFMPA	ND	0.0040	0.00030	ug/l	
863090-89-5	PFMBA	ND	0.0040	0.00056	ug/l	
151772-58-6	NFDHA	ND	0.0040	0.0013	ug/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0024	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0018	ug/l	

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Job Number: JD72646
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
T2Q78-ICCB	2Q3443.D	1	09/23/23	PC	n/a	n/a	T2Q78

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

JD72646-1A, JD72646-2A

CAS No.	Compound	Result	RL	MDL	Units	Q
113507-82-7	PFEESA	ND	0.0040	0.00027	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.010	0.0024	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.050	0.0071	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.050	0.0062	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	99%	5-130%
	13C5-PFPeA	104%	40-130%
	13C5-PFHxA	103%	40-130%
	13C4-PFHpA	102%	40-130%
	13C8-PFOA	97%	40-130%
	13C9-PFNA	103%	40-130%
	13C6-PFDA	83%	40-130%
	13C7-PFUnDA	91%	30-130%
	13C2-PFDoDA	88%	10-130%
	13C2-PFTeDA	87%	10-130%
	13C3-PFBS	104%	40-135%
	13C3-PFHxS	107%	40-130%
	13C8-PFOS	99%	40-130%
	13C8-FOSA	103%	40-130%
	d3-MeFOSA	93%	10-130%
	d5-EtFOSA	98%	10-130%
	d3-MeFOSAA	101%	40-170%
	d5-EtFOSAA	98%	25-135%
	d7-MeFOSE	103%	10-130%
	d9-EtFOSE	104%	10-130%
	13C2-4:2FTS	118%	40-200%
	13C2-6:2FTS	98%	40-200%
	13C2-8:2FTS	119%	40-300%
	13C3-HFPO-DA	87%	40-130%

Method Blank Summary

Job Number: JD72646
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
OP49152-MB	2Q3266.D	1	09/21/23	PC	09/18/23	OP49152	T2Q75

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

JD72646-9

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0080	0.00093	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	0.00073	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	0.00029	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.00055	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.00077	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.00079	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.00076	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	0.00066	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.00098	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.0014	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0020	0.00040	ug/l	
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0080	0.0023	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	0.00091	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0015	ug/l	
754-91-6	PFOSA	ND	0.0020	0.00069	ug/l	
31506-32-8	MeFOSA	ND	0.0020	0.00064	ug/l	
4151-50-2	EtFOSA	ND	0.0020	0.00053	ug/l	
2355-31-9	MeFOSAA	ND	0.0020	0.00051	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	0.00091	ug/l	
24448-09-7	MeFOSE	ND	0.020	0.0028	ug/l	
1691-99-2	EtFOSE	ND	0.020	0.0038	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0080	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0080	0.0012	ug/l	
377-73-1	PFMPA	ND	0.0040	0.00030	ug/l	
863090-89-5	PFMBA	ND	0.0040	0.00056	ug/l	
151772-58-6	NFDHA	ND	0.0040	0.0013	ug/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0024	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0018	ug/l	

Method Blank Summary

Job Number: JD72646
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
OP49152-MB	2Q3266.D	1	09/21/23	PC	09/18/23	OP49152	T2Q75

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

JD72646-9

CAS No.	Compound	Result	RL	MDL	Units	Q
113507-82-7	PFEESA	ND	0.0040	0.00027	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.010	0.0024	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.050	0.0071	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.050	0.0062	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	79%	5-130%
	13C5-PFPeA	78%	40-130%
	13C5-PFHxA	75%	40-130%
	13C4-PFHpA	78%	40-130%
	13C8-PFOA	78%	40-130%
	13C9-PFNA	78%	40-130%
	13C6-PFDA	73%	40-130%
	13C7-PFUnDA	79%	30-130%
	13C2-PFDoDA	69%	10-130%
	13C2-PFTeDA	69%	10-130%
	13C3-PFBS	79%	40-135%
	13C3-PFHxS	82%	40-130%
	13C8-PFOS	73%	40-130%
	13C8-FOSA	66%	40-130%
	d3-MeFOSA	57%	10-130%
	d5-EtFOSA	56%	10-130%
	d3-MeFOSAA	75%	40-170%
	d5-EtFOSAA	77%	25-135%
	d7-MeFOSE	55%	10-130%
	d9-EtFOSE	59%	10-130%
	13C2-4:2FTS	103%	40-200%
	13C2-6:2FTS	91%	40-200%
	13C2-8:2FTS	92%	40-300%
	13C3-HFPO-DA	79%	40-130%

Method Blank Summary

Job Number: JD72646
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
OP49266-MB	2Q3449.D	1	09/23/23	PC	09/22/23	OP49266	T2Q78

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

JD72646-10, JD72646-1A, JD72646-2A, JD72646-3A, JD72646-4A, JD72646-5A, JD72646-6A, JD72646-7A

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0080	0.00093	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	0.00073	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	0.00029	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.00055	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.00077	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.00079	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.00076	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	0.00066	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.00098	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.0014	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0020	0.00040	ug/l	
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0080	0.0023	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	0.00091	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0015	ug/l	
754-91-6	PFOSA	ND	0.0020	0.00069	ug/l	
31506-32-8	MeFOSA	ND	0.0020	0.00064	ug/l	
4151-50-2	EtFOSA	ND	0.0020	0.00053	ug/l	
2355-31-9	MeFOSAA	ND	0.0020	0.00051	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	0.00091	ug/l	
24448-09-7	MeFOSE	ND	0.020	0.0028	ug/l	
1691-99-2	EtFOSE	ND	0.020	0.0038	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0080	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0080	0.0012	ug/l	
377-73-1	PFMPA	ND	0.0040	0.00030	ug/l	
863090-89-5	PFMBA	ND	0.0040	0.00056	ug/l	
151772-58-6	NFDHA	ND	0.0040	0.0013	ug/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0024	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0018	ug/l	

Method Blank Summary

Job Number: JD72646
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
OP49266-MB	2Q3449.D	1	09/23/23	PC	09/22/23	OP49266	T2Q78

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

JD72646-10, JD72646-1A, JD72646-2A, JD72646-3A, JD72646-4A, JD72646-5A, JD72646-6A, JD72646-7A

CAS No.	Compound	Result	RL	MDL	Units	Q
113507-82-7	PFEESA	ND	0.0040	0.00027	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.010	0.0024	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.050	0.0071	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.050	0.0062	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	107%	5-130%
	13C5-PFPeA	105%	40-130%
	13C5-PFHxA	108%	40-130%
	13C4-PFHpA	110%	40-130%
	13C8-PFOA	111%	40-130%
	13C9-PFNA	102%	40-130%
	13C6-PFDA	101%	40-130%
	13C7-PFUnDA	112%	30-130%
	13C2-PFDoDA	107%	10-130%
	13C2-PFTeDA	91%	10-130%
	13C3-PFBS	112%	40-135%
	13C3-PFHxS	117%	40-130%
	13C8-PFOS	106%	40-130%
	13C8-FOSA	87%	40-130%
	d3-MeFOSA	83%	10-130%
	d5-EtFOSA	84%	10-130%
	d3-MeFOSAA	100%	40-170%
	d5-EtFOSAA	96%	25-135%
	d7-MeFOSE	90%	10-130%
	d9-EtFOSE	89%	10-130%
	13C2-4:2FTS	104%	40-200%
	13C2-6:2FTS	109%	40-200%
	13C2-8:2FTS	108%	40-300%
	13C3-HFPO-DA	94%	40-130%

Instrument Blank

Job Number: JD72646
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
T2Q77-ICCB	2Q3382.D	1	09/22/23	PC	n/a	n/a	T2Q77

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

T2Q77-RT

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0080	0.00093	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	0.00073	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	0.00029	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.00055	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.00077	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.00079	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.00076	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	0.00066	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.00098	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.0014	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0020	0.00040	ug/l	
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0080	0.0023	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	0.00091	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0015	ug/l	
754-91-6	PFOSA	ND	0.0020	0.00069	ug/l	
31506-32-8	MeFOSA	ND	0.0020	0.00064	ug/l	
4151-50-2	EtFOSA	ND	0.0020	0.00053	ug/l	
2355-31-9	MeFOSAA	ND	0.0020	0.00051	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	0.00091	ug/l	
24448-09-7	MeFOSE	ND	0.020	0.0028	ug/l	
1691-99-2	EtFOSE	ND	0.020	0.0038	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0080	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0080	0.0012	ug/l	
377-73-1	PFMPA	ND	0.0040	0.00030	ug/l	
863090-89-5	PFMBA	ND	0.0040	0.00056	ug/l	
151772-58-6	NFDHA	ND	0.0040	0.0013	ug/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0024	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0018	ug/l	

Instrument Blank

Job Number: JD72646
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
T2Q77-ICCB	2Q3382.D	1	09/22/23	PC	n/a	n/a	T2Q77

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

T2Q77-RT

CAS No.	Compound	Result	RL	MDL	Units	Q
113507-82-7	PFEESA	ND	0.0040	0.00027	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.010	0.0024	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.050	0.0071	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.050	0.0062	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	126%	5-130%
	13C5-PFPeA	123%	40-130%
	13C5-PFHxA	128%	40-130%
	13C4-PFHpA	121%	40-130%
	13C8-PFOA	125%	40-130%
	13C9-PFNA	121%	40-130%
	13C6-PFDA	129%	40-130%
	13C7-PFUnDA	137%* [a]	30-130%
	13C2-PFDoDA	117%	10-130%
	13C2-PFTeDA	130%	10-130%
	13C3-PFBS	140%* [a]	40-135%
	13C3-PFHxS	142%* [a]	40-130%
	13C8-PFOS	116%	40-130%
	13C8-FOSA	116%	40-130%
	d3-MeFOSA	114%	10-130%
	d5-EtFOSA	119%	10-130%
	d3-MeFOSAA	127%	40-170%
	d5-EtFOSAA	124%	25-135%
	d7-MeFOSE	123%	10-130%
	d9-EtFOSE	123%	10-130%
	13C2-4:2FTS	130%	40-200%
	13C2-6:2FTS	120%	40-200%
	13C2-8:2FTS	139%	40-300%
	13C3-HFPO-DA	116%	40-130%

(a) Outside of control limits, but within reasonable method recovery limits.

Blank Spike Summary

Job Number: JD72646
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
OP49101-BS1	CJ2456.D	1	09/15/23	KM	09/15/23	OP49101	ECJ121

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD72646-4, JD72646-5, JD72646-6, JD72646-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
106-47-8	4-Chloroaniline	50	26.7	53	10-100
123-91-1	1,4-Dioxane	50	15.7	31	10-88
91-20-3	Naphthalene	50	23.7	47	37-112

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	64%	28-118%
321-60-8	2-Fluorobiphenyl	63%	34-116%
1718-51-0	Terphenyl-d14	69%	10-127%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD72646
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
OP49101A-BS12	4M118781.D	1	09/16/23	RS	09/15/23	OP49101A	E4M5559

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD72646-4, JD72646-5, JD72646-6, JD72646-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
123-91-1	1,4-Dioxane	1	0.319	32	10-70

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	96%	23-127%
321-60-8	2-Fluorobiphenyl	64%	23-114%
1718-51-0	Terphenyl-d14	79%	10-121%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD72646
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
OP49152-LLBS	2Q3267.D	1	09/21/23	PC	09/18/23	OP49152	T2Q75

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

JD72646-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-22-4	Perfluorobutanoic acid	0.016	0.0153	96	70-140
2706-90-3	Perfluoropentanoic acid	0.008	0.0080	100	65-135
307-24-4	Perfluorohexanoic acid	0.004	0.0042	105	70-145
375-85-9	Perfluoroheptanoic acid	0.004	0.0046	115	70-150
335-67-1	Perfluorooctanoic acid	0.004	0.0037	93	70-150
375-95-1	Perfluorononanoic acid	0.004	0.0044	110	70-150
335-76-2	Perfluorodecanoic acid	0.004	0.0040	100	70-140
2058-94-8	Perfluoroundecanoic acid	0.004	0.0049	123	70-145
307-55-1	Perfluorododecanoic acid	0.004	0.0044	110	70-140
72629-94-8	Perfluorotridecanoic acid	0.004	0.0042	105	65-140
376-06-7	Perfluorotetradecanoic acid	0.004	0.0036	90	60-140
375-73-5	Perfluorobutanesulfonic acid	0.00355	0.0048	135	60-145
2706-91-4	Perfluoropentanesulfonic acid	0.00376	0.0043	114	65-140
355-46-4	Perfluorohexanesulfonic acid	0.00366	0.0042	115	65-145
375-92-8	Perfluoroheptanesulfonic acid	0.00381	0.0043	113	70-150
1763-23-1	Perfluorooctanesulfonic acid	0.00371	0.0043	116	55-150
68259-12-1	Perfluorononanesulfonic acid	0.00385	0.0044	114	65-145
335-77-3	Perfluorodecanesulfonic acid	0.00386	0.0041	106	60-145
79780-39-5	Perfluorododecanesulfonic aci	0.00388	0.0043	111	50-145
757124-72-4	4:2 Fluorotelomer sulfonate	0.015	0.0157	105	70-145
27619-97-2	6:2 Fluorotelomer sulfonate	0.0152	0.0141	93	65-155
39108-34-4	8:2 Fluorotelomer sulfonate	0.0154	0.0148	96	60-150
754-91-6	PFOSA	0.008	0.0079	99	70-145
31506-32-8	MeFOSA	0.008	0.0076	95	60-150
4151-50-2	EtFOSA	0.008	0.0080	100	65-145
2355-31-9	MeFOSAA	0.004	0.0031	78	50-140
2991-50-6	EtFOSAA	0.004	0.0034	85	70-145
24448-09-7	MeFOSE	0.02	0.0193	97	70-145
1691-99-2	EtFOSE	0.02	0.0187	94	70-135
13252-13-6	HFPO-DA (GenX)	0.016	0.0174	109	70-140
919005-14-4	ADONA	0.0151	0.0164	108	65-145
377-73-1	PFMPA	0.008	0.0081	101	55-140
863090-89-5	PFMBA	0.008	0.0078	98	60-150
151772-58-6	NFDHA	0.008	0.0073	91	50-150
756426-58-1	9Cl-PF3ONS (F-53B Major)	0.015	0.0146	98	70-155
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	0.0151	0.0138	91	50-150

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD72646
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
OP49152-LLBS	2Q3267.D	1	09/21/23	PC	09/18/23	OP49152	T2Q75

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

JD72646-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
113507-82-7	PFEESA	0.00712	0.0089	125	70-140
356-02-5	3:3 Fluorotelomer carboxylate	0.02	0.0209	105	65-130
914637-49-3	5:3 Fluorotelomer carboxylate	0.1	0.101	101	70-135
812-70-4	7:3 Fluorotelomer carboxylate	0.1	0.0888	89	50-145

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	81%	5-130%
	13C5-PFPeA	75%	40-130%
	13C5-PFHxA	73%	40-130%
	13C4-PFHpA	79%	40-130%
	13C8-PFOA	79%	40-130%
	13C9-PFNA	74%	40-130%
	13C6-PFDA	72%	40-130%
	13C7-PFUnDA	76%	30-130%
	13C2-PFDoDA	67%	10-130%
	13C2-PFTeDA	65%	10-130%
	13C3-PFBS	73%	40-135%
	13C3-PFHxS	78%	40-130%
	13C8-PFOS	64%	40-130%
	13C8-FOSA	68%	40-130%
	d3-MeFOSA	55%	10-130%
	d5-EtFOSA	58%	10-130%
	d3-MeFOSAA	74%	40-170%
	d5-EtFOSAA	69%	25-135%
	d7-MeFOSE	63%	10-130%
	d9-EtFOSE	64%	10-130%
	13C2-4:2FTS	84%	40-200%
	13C2-6:2FTS	76%	40-200%
	13C2-8:2FTS	91%	40-300%
	13C3-HFPO-DA	79%	40-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD72646
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
OP49266-LLBS	2Q3450.D	1	09/23/23	PC	09/22/23	OP49266	T2Q78

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

JD72646-10, JD72646-1A, JD72646-2A, JD72646-3A, JD72646-4A, JD72646-5A, JD72646-6A, JD72646-7A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-22-4	Perfluorobutanoic acid	0.016	0.0165	103	70-140
2706-90-3	Perfluoropentanoic acid	0.008	0.0083	104	65-135
307-24-4	Perfluorohexanoic acid	0.004	0.0041	103	70-145
375-85-9	Perfluoroheptanoic acid	0.004	0.0040	100	70-150
335-67-1	Perfluorooctanoic acid	0.004	0.0038	95	70-150
375-95-1	Perfluorononanoic acid	0.004	0.0045	113	70-150
335-76-2	Perfluorodecanoic acid	0.004	0.0039	98	70-140
2058-94-8	Perfluoroundecanoic acid	0.004	0.0040	100	70-145
307-55-1	Perfluorododecanoic acid	0.004	0.0034	85	70-140
72629-94-8	Perfluorotridecanoic acid	0.004	0.0037	93	65-140
376-06-7	Perfluorotetradecanoic acid	0.004	0.0040	100	60-140
375-73-5	Perfluorobutanesulfonic acid	0.00355	0.0042	118	60-145
2706-91-4	Perfluoropentanesulfonic acid	0.00376	0.0035	93	65-140
355-46-4	Perfluorohexanesulfonic acid	0.00366	0.0042	115	65-145
375-92-8	Perfluoroheptanesulfonic acid	0.00381	0.0037	97	70-150
1763-23-1	Perfluorooctanesulfonic acid	0.00371	0.0052	140	55-150
68259-12-1	Perfluorononanesulfonic acid	0.00385	0.0048	125	65-145
335-77-3	Perfluorodecanesulfonic acid	0.00386	0.0039	101	60-145
79780-39-5	Perfluorododecanesulfonic aci	0.00388	0.0035	90	50-145
757124-72-4	4:2 Fluorotelomer sulfonate	0.015	0.0151	101	70-145
27619-97-2	6:2 Fluorotelomer sulfonate	0.0152	0.0149	98	65-155
39108-34-4	8:2 Fluorotelomer sulfonate	0.0154	0.0195	127	60-150
754-91-6	PFOSA	0.008	0.0085	106	70-145
31506-32-8	MeFOSA	0.008	0.0192	240* [a]	60-150
4151-50-2	EtFOSA	0.008	0.0089	111	65-145
2355-31-9	MeFOSAA	0.004	0.0041	103	50-140
2991-50-6	EtFOSAA	0.004	0.0041	103	70-145
24448-09-7	MeFOSE	0.02	0.0104	52* [b]	70-145
1691-99-2	EtFOSE	0.02	0.0207	104	70-135
13252-13-6	HFPO-DA (GenX)	0.016	0.0177	111	70-140
919005-14-4	ADONA	0.0151	0.0180	119	65-145
377-73-1	PFMPA	0.008	0.0082	103	55-140
863090-89-5	PFMBA	0.008	0.0085	106	60-150
151772-58-6	NFDHA	0.008	0.0073	91	50-150
756426-58-1	9Cl-PF3ONS (F-53B Major)	0.015	0.0167	112	70-155
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	0.0151	0.0146	97	50-150

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD72646
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
OP49266-LLBS	2Q3450.D	1	09/23/23	PC	09/22/23	OP49266	T2Q78

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

JD72646-10, JD72646-1A, JD72646-2A, JD72646-3A, JD72646-4A, JD72646-5A, JD72646-6A, JD72646-7A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
113507-82-7	PFEESA	0.00712	0.0080	112	70-140
356-02-5	3:3 Fluorotelomer carboxylate	0.02	0.0203	102	65-130
914637-49-3	5:3 Fluorotelomer carboxylate	0.1	0.0918	92	70-135
812-70-4	7:3 Fluorotelomer carboxylate	0.1	0.0926	93	50-145

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	105%	5-130%
	13C5-PFPeA	111%	40-130%
	13C5-PFHxA	113%	40-130%
	13C4-PFHpA	111%	40-130%
	13C8-PFOA	101%	40-130%
	13C9-PFNA	101%	40-130%
	13C6-PFDA	101%	40-130%
	13C7-PFUnDA	102%	30-130%
	13C2-PFDoDA	105%	10-130%
	13C2-PFTeDA	88%	10-130%
	13C3-PFBS	117%	40-135%
	13C3-PFHxS	104%	40-130%
	13C8-PFOS	91%	40-130%
	13C8-FOSA	93%	40-130%
	d3-MeFOSA	78%	10-130%
	d5-EtFOSA	80%	10-130%
	d3-MeFOSAA	96%	40-170%
	d5-EtFOSAA	89%	25-135%
	d7-MeFOSE	87%	10-130%
	d9-EtFOSE	83%	10-130%
	13C2-4:2FTS	114%	40-200%
	13C2-6:2FTS	119%	40-200%
	13C2-8:2FTS	113%	40-300%
	13C3-HFPO-DA	99%	40-130%

(a) Outside control limits.
(b) Outside of control limits, but within reasonable method recovery limits.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD72646
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
OP49266-BS	2Q3451.D	1	09/23/23	PC	09/22/23	OP49266	T2Q78

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

JD72646-10, JD72646-1A, JD72646-2A, JD72646-3A, JD72646-4A, JD72646-5A, JD72646-6A, JD72646-7A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-22-4	Perfluorobutanoic acid	0.1	0.111	111	70-140
2706-90-3	Perfluoropentanoic acid	0.05	0.0581	116	65-135
307-24-4	Perfluorohexanoic acid	0.025	0.0276	110	70-145
375-85-9	Perfluoroheptanoic acid	0.025	0.0292	117	70-150
335-67-1	Perfluorooctanoic acid	0.025	0.0309	124	70-150
375-95-1	Perfluorononanoic acid	0.025	0.0268	107	70-150
335-76-2	Perfluorodecanoic acid	0.025	0.0278	111	70-140
2058-94-8	Perfluoroundecanoic acid	0.025	0.0273	109	70-145
307-55-1	Perfluorododecanoic acid	0.025	0.0295	118	70-140
72629-94-8	Perfluorotridecanoic acid	0.025	0.0274	110	65-140
376-06-7	Perfluorotetradecanoic acid	0.025	0.0291	116	60-140
375-73-5	Perfluorobutanesulfonic acid	0.0222	0.0297	134	60-145
2706-91-4	Perfluoropentanesulfonic acid	0.0235	0.0286	122	65-140
355-46-4	Perfluorohexanesulfonic acid	0.0229	0.0345	151* [a]	65-145
375-92-8	Perfluoroheptanesulfonic acid	0.0238	0.0370	155* [a]	70-150
1763-23-1	Perfluorooctanesulfonic acid	0.0232	0.0275	119	55-150
68259-12-1	Perfluorononanesulfonic acid	0.0241	0.0364	151* [a]	65-145
335-77-3	Perfluorodecanesulfonic acid	0.0241	0.0272	113	60-145
79780-39-5	Perfluorododecanesulfonic aci	0.0243	0.0278	115	50-145
757124-72-4	4:2 Fluorotelomer sulfonate	0.0938	0.0996	106	70-145
27619-97-2	6:2 Fluorotelomer sulfonate	0.095	0.140	147	65-155
39108-34-4	8:2 Fluorotelomer sulfonate	0.096	0.120	125	60-150
754-91-6	PFOSA	0.05	0.0646	129	70-145
31506-32-8	MeFOSA	0.05	0.152	304* [b]	60-150
4151-50-2	EtFOSA	0.05	0.0649	130	65-145
2355-31-9	MeFOSAA	0.025	0.0262	105	50-140
2991-50-6	EtFOSAA	0.025	0.0304	122	70-145
24448-09-7	MeFOSE	0.125	0.0659	53* [a]	70-145
1691-99-2	EtFOSE	0.125	0.145	116	70-135
13252-13-6	HFPO-DA (GenX)	0.1	0.107	107	70-140
919005-14-4	ADONA	0.0945	0.118	125	65-145
377-73-1	PFMPA	0.05	0.0588	118	55-140
863090-89-5	PFMBA	0.05	0.0600	120	60-150
151772-58-6	NFDHA	0.05	0.0580	116	50-150
756426-58-1	9Cl-PF3ONS (F-53B Major)	0.0935	0.121	129	70-155
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	0.0945	0.118	125	50-150

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD72646
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
OP49266-BS	2Q3451.D	1	09/23/23	PC	09/22/23	OP49266	T2Q78

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

JD72646-10, JD72646-1A, JD72646-2A, JD72646-3A, JD72646-4A, JD72646-5A, JD72646-6A, JD72646-7A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
113507-82-7	PFEESA	0.0445	0.0570	128	70-140
356-02-5	3:3 Fluorotelomer carboxylate	0.125	0.152	122	65-130
914637-49-3	5:3 Fluorotelomer carboxylate	0.625	0.742	119	70-135
812-70-4	7:3 Fluorotelomer carboxylate	0.625	0.709	113	50-145

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	106%	5-130%
	13C5-PFPeA	104%	40-130%
	13C5-PFHxA	107%	40-130%
	13C4-PFHpA	107%	40-130%
	13C8-PFOA	107%	40-130%
	13C9-PFNA	115%	40-130%
	13C6-PFDA	106%	40-130%
	13C7-PFUnDA	119%	30-130%
	13C2-PFDoDA	105%	10-130%
	13C2-PFTeDA	100%	10-130%
	13C3-PFBS	117%	40-135%
	13C3-PFHxS	100%	40-130%
	13C8-PFOS	104%	40-130%
	13C8-FOSA	90%	40-130%
	d3-MeFOSA	77%	10-130%
	d5-EtFOSA	81%	10-130%
	d3-MeFOSAA	104%	40-170%
	d5-EtFOSAA	94%	25-135%
	d7-MeFOSE	90%	10-130%
	d9-EtFOSE	94%	10-130%
	13C2-4:2FTS	121%	40-200%
	13C2-6:2FTS	103%	40-200%
	13C2-8:2FTS	126%	40-300%
	13C3-HFPO-DA	103%	40-130%

(a) Outside of control limits, but within reasonable method recovery limits.
(b) Outside control limits.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD72646
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
OP49152-BS	2Q3268.D	1	09/21/23	PC	09/18/23	OP49152	T2Q75
OP49152-BSD	2Q3269.D	1	09/21/23	PC	09/18/23	OP49152	T2Q75

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

JD72646-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
375-22-4	Perfluorobutanoic acid	0.1	0.0908	91	0.0888	89	2	70-140/30
2706-90-3	Perfluoropentanoic acid	0.05	0.0483	97	0.0467	93	3	65-135/30
307-24-4	Perfluorohexanoic acid	0.025	0.0253	101	0.0235	94	7	70-145/30
375-85-9	Perfluoroheptanoic acid	0.025	0.0230	92	0.0255	102	10	70-150/30
335-67-1	Perfluorooctanoic acid	0.025	0.0237	95	0.0227	91	4	70-150/30
375-95-1	Perfluorononanoic acid	0.025	0.0231	92	0.0261	104	12	70-150/30
335-76-2	Perfluorodecanoic acid	0.025	0.0237	95	0.0246	98	4	70-140/30
2058-94-8	Perfluoroundecanoic acid	0.025	0.0212	85	0.0231	92	9	70-145/30
307-55-1	Perfluorododecanoic acid	0.025	0.0263	105	0.0249	100	5	70-140/30
72629-94-8	Perfluorotridecanoic acid	0.025	0.0230	92	0.0253	101	10	65-140/30
376-06-7	Perfluorotetradecanoic acid	0.025	0.0250	100	0.0226	90	10	60-140/30
375-73-5	Perfluorobutanesulfonic acid	0.0222	0.0256	115	0.0218	98	16	60-145/30
2706-91-4	Perfluoropentanesulfonic acid	0.0235	0.0244	104	0.0213	91	14	65-140/30
355-46-4	Perfluorohexanesulfonic acid	0.0229	0.0274	120	0.0210	92	26	65-145/30
375-92-8	Perfluoroheptanesulfonic acid	0.0238	0.0252	106	0.0221	93	13	70-150/30
1763-23-1	Perfluorooctanesulfonic acid	0.0232	0.0288	124	0.0275	119	5	55-150/30
68259-12-1	Perfluorononanesulfonic acid	0.0241	0.0240	100	0.0234	97	3	65-145/30
335-77-3	Perfluorodecanesulfonic acid	0.0241	0.0221	92	0.0270	112	20	60-145/30
79780-39-5	Perfluorododecanesulfonic aci	0.0243	0.0230	95	0.0229	94	0	50-145/30
757124-72-4	4:2 Fluorotelomer sulfonate	0.0938	0.0916	98	0.0913	97	0	70-145/30
27619-97-2	6:2 Fluorotelomer sulfonate	0.095	0.0829	87	0.104	109	23	65-155/30
39108-34-4	8:2 Fluorotelomer sulfonate	0.096	0.0839	87	0.103	107	20	60-150/30
754-91-6	PFOSA	0.05	0.0481	96	0.0461	92	4	70-145/30
31506-32-8	MeFOSA	0.05	0.0482	96	0.0488	98	1	60-150/30
4151-50-2	EtFOSA	0.05	0.0492	98	0.0474	95	4	65-145/30
2355-31-9	MeFOSAA	0.025	0.0248	99	0.0225	90	10	50-140/30
2991-50-6	EtFOSAA	0.025	0.0260	104	0.0231	92	12	70-145/30
24448-09-7	MeFOSE	0.125	0.125	100	0.118	94	6	70-145/30
1691-99-2	EtFOSE	0.125	0.122	98	0.119	95	2	70-135/30
13252-13-6	HFPO-DA (GenX)	0.1	0.0948	95	0.0982	98	4	70-140/30
919005-14-4	ADONA	0.0945	0.0958	101	0.0969	103	1	65-145/30
377-73-1	PFMPA	0.05	0.0489	98	0.0465	93	5	55-140/30
863090-89-5	PFMBA	0.05	0.0498	100	0.0479	96	4	60-150/30
151772-58-6	NFDHA	0.05	0.0566	113	0.0487	97	15	50-150/30
756426-58-1	9Cl-PF3ONS (F-53B Major)	0.0935	0.0944	101	0.0960	103	2	70-155/30
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	0.0945	0.0881	93	0.0931	99	6	50-150/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD72646
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
OP49152-BS	2Q3268.D	1	09/21/23	PC	09/18/23	OP49152	T2Q75
OP49152-BSD	2Q3269.D	1	09/21/23	PC	09/18/23	OP49152	T2Q75

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

JD72646-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
113507-82-7	PFEESA	0.0445	0.0510	115	0.0482	108	6	70-140/30
356-02-5	3:3 Fluorotelomer carboxylate	0.125	0.117	94	0.116	93	1	65-130/30
914637-49-3	5:3 Fluorotelomer carboxylate	0.625	0.596	95	0.595	95	0	70-135/30
812-70-4	7:3 Fluorotelomer carboxylate	0.625	0.558	89	0.560	90	0	50-145/30

CAS No.	ID Standard Recoveries	BSP	BSD	Limits
	13C4-PFBA	79%	79%	5-130%
	13C5-PFPeA	75%	77%	40-130%
	13C5-PFHxA	75%	76%	40-130%
	13C4-PFHpA	78%	73%	40-130%
	13C8-PFOA	80%	74%	40-130%
	13C9-PFNA	82%	74%	40-130%
	13C6-PFDA	82%	81%	40-130%
	13C7-PFUnDA	88%	73%	30-130%
	13C2-PFDoDA	72%	73%	10-130%
	13C2-PFTeDA	63%	72%	10-130%
	13C3-PFBS	74%	79%	40-135%
	13C3-PFHxS	73%	86%	40-130%
	13C8-PFOS	67%	72%	40-130%
	13C8-FOSA	66%	72%	40-130%
	d3-MeFOSA	55%	56%	10-130%
	d5-EtFOSA	56%	59%	10-130%
	d3-MeFOSAA	76%	77%	40-170%
	d5-EtFOSAA	69%	76%	25-135%
	d7-MeFOSE	57%	60%	10-130%
	d9-EtFOSE	61%	63%	10-130%
	13C2-4:2FTS	86%	80%	40-200%
	13C2-6:2FTS	95%	76%	40-200%
	13C2-8:2FTS	94%	75%	40-300%
	13C3-HFPO-DA	80%	79%	40-130%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JD72646
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
OP49152-MS	2Q3270.D	1	09/21/23	PC	09/18/23	OP49152	T2Q75
JD72415-1	2Q3273.D	1	09/21/23	PC	09/18/23	OP49152	T2Q75

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

JD72646-9

CAS No.	Compound	JD72415-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
375-22-4	Perfluorobutanoic acid	ND		0.1	0.0900	90	70-140
2706-90-3	Perfluoropentanoic acid	ND		0.05	0.0470	94	65-135
307-24-4	Perfluorohexanoic acid	ND		0.025	0.0231	92	70-145
375-85-9	Perfluoroheptanoic acid	ND		0.025	0.0240	96	70-150
335-67-1	Perfluorooctanoic acid	ND		0.025	0.0239	96	70-150
375-95-1	Perfluorononanoic acid	ND		0.025	0.0242	97	70-150
335-76-2	Perfluorodecanoic acid	ND		0.025	0.0240	96	70-140
2058-94-8	Perfluoroundecanoic acid	ND		0.025	0.0218	87	70-145
307-55-1	Perfluorododecanoic acid	ND		0.025	0.0225	90	70-140
72629-94-8	Perfluorotridecanoic acid	ND		0.025	0.0225	90	65-140
376-06-7	Perfluorotetradecanoic acid	ND		0.025	0.0240	96	60-140
375-73-5	Perfluorobutanesulfonic acid	ND		0.0222	0.0226	102	60-145
2706-91-4	Perfluoropentanesulfonic acid	ND		0.0235	0.0245	104	65-140
355-46-4	Perfluorohexanesulfonic acid	ND		0.0229	0.0271	119	65-145
375-92-8	Perfluoroheptanesulfonic acid	ND		0.0238	0.0251	105	70-150
1763-23-1	Perfluorooctanesulfonic acid	ND		0.0232	0.0215	93	55-150
68259-12-1	Perfluorononanesulfonic acid	ND		0.0241	0.0196	81	65-145
335-77-3	Perfluorodecanesulfonic acid	ND		0.0241	0.0216	90	60-145
79780-39-5	Perfluorododecanesulfonic aci	ND		0.0243	0.0172	71	50-145
757124-72-4	4:2 Fluorotelomer sulfonate	ND		0.0938	0.0725	77	70-145
27619-97-2	6:2 Fluorotelomer sulfonate	ND		0.095	0.0847	89	65-155
39108-34-4	8:2 Fluorotelomer sulfonate	ND		0.096	0.0834	87	60-150
754-91-6	PFOSA	ND		0.05	0.0462	92	70-145
31506-32-8	MeFOSA	ND		0.05	0.0478	96	60-150
4151-50-2	EtFOSA	ND		0.05	0.0450	90	65-145
2355-31-9	MeFOSAA	ND		0.025	0.0224	90	50-140
2991-50-6	EtFOSAA	ND		0.025	0.0220	88	70-145
24448-09-7	MeFOSE	ND		0.125	0.109	87	70-145
1691-99-2	EtFOSE	ND		0.125	0.118	94	70-135
13252-13-6	HFPO-DA (GenX)	ND		0.1	0.0822	82	70-140
919005-14-4	ADONA	ND		0.0945	0.0805	85	65-145
377-73-1	PFMPA	ND		0.05	0.0466	93	55-140
863090-89-5	PFMBA	ND		0.05	0.0479	96	60-150
151772-58-6	NFDHA	ND		0.05	0.0461	92	50-150
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND		0.0935	0.0795	85	70-155
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND		0.0945	0.0783	83	50-150

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JD72646
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
OP49152-MS	2Q3270.D	1	09/21/23	PC	09/18/23	OP49152	T2Q75
JD72415-1	2Q3273.D	1	09/21/23	PC	09/18/23	OP49152	T2Q75

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

JD72646-9

CAS No.	Compound	JD72415-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
113507-82-7	PFEESA	ND		0.0445	0.0472	106	70-140
356-02-5	3:3 Fluorotelomer carboxylate	ND		0.125	0.116	93	65-130
914637-49-3	5:3 Fluorotelomer carboxylate	ND		0.625	0.576	92	70-135
812-70-4	7:3 Fluorotelomer carboxylate	ND		0.625	0.537	86	50-145

CAS No.	ID Standard Recoveries	MS	JD72415-1	Limits
	13C4-PFBA	79%	78%	5-130%
	13C5-PFPeA	80%	78%	40-130%
	13C5-PFHxA	82%	82%	40-130%
	13C4-PFHpA	76%	74%	40-130%
	13C8-PFOA	77%	76%	40-130%
	13C9-PFNA	80%	82%	40-130%
	13C6-PFDA	73%	68%	40-130%
	13C7-PFUnDA	74%	71%	30-130%
	13C2-PFDoDA	67%	68%	10-130%
	13C2-PFTeDA	61%	57%	10-130%
	13C3-PFBS	79%	71%	40-135%
	13C3-PFHxS	84%	79%	40-130%
	13C8-PFOS	86%	70%	40-130%
	13C8-FOSA	75%	75%	40-130%
	d3-MeFOSA	59%	51%	10-130%
	d5-EtFOSA	59%	57%	10-130%
	d3-MeFOSAA	78%	74%	40-170%
	d5-EtFOSAA	76%	75%	25-135%
	d7-MeFOSE	66%	62%	10-130%
	d9-EtFOSE	63%	62%	10-130%
	13C2-4:2FTS	109%	77%	40-200%
	13C2-6:2FTS	96%	83%	40-200%
	13C2-8:2FTS	104%	91%	40-300%
	13C3-HFPO-DA	95%	81%	40-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD72646
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
OP49101-MS	CJ2457.D	1	09/15/23	KM	09/15/23	OP49101	ECJ121
OP49101-MSD	CJ2458.D	1	09/15/23	KM	09/15/23	OP49101	ECJ121
JD72646-4	CJ2466.D	1	09/15/23	KM	09/15/23	OP49101	ECJ121

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD72646-4, JD72646-5, JD72646-6, JD72646-7

CAS No.	Compound	JD72646-4 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	0.65	J	50	20.2	39	50	21.2	41	5	10-114/90
123-91-1	1,4-Dioxane	16.2		50	32.5	65	50	31.4	63	3	10-141/50
91-20-3	Naphthalene	ND		50	27.9	56	50	28.1	56	1	10-158/50

CAS No.	Surrogate Recoveries	MS	MSD	JD72646-4	Limits
4165-60-0	Nitrobenzene-d5	66%	69%	58%	28-118%
321-60-8	2-Fluorobiphenyl	67%	68%	64%	34-116%
1718-51-0	Terphenyl-d14	50%	39%	40%	10-127%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD72646
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
OP49101A-MSA	4M118797.D	1	09/16/23	RS	09/15/23	OP49101A	E4M5559
OP49101A-MSDA	4M118798.D	1	09/16/23	RS	09/15/23	OP49101A	E4M5559
JD72646-4	4M118793.D	1	09/16/23	RS	09/15/23	OP49101A	E4M5559

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD72646-4, JD72646-5, JD72646-6, JD72646-7

CAS No.	Compound	JD72646-4 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	21.1	E	1	20.8	-30* [a]	1	20.1	-100* [a]	3	10-94/81

CAS No.	Surrogate Recoveries	MS	MSD	JD72646-4	Limits
4165-60-0	Nitrobenzene-d5	85%	87%	87%	23-127%
321-60-8	2-Fluorobiphenyl	70%	71%	72%	23-114%
1718-51-0	Terphenyl-d14	37%	34%	47%	10-121%

(a) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD72646
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
OP49266-MS	2Q3452.D	1	09/23/23	PC	09/22/23	OP49266	T2Q78
OP49266-MSD	2Q3453.D	1	09/23/23	PC	09/22/23	OP49266	T2Q78
JD72646-4A	2Q3462.D	1	09/23/23	PC	09/22/23	OP49266	T2Q78

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

JD72646-10, JD72646-1A, JD72646-2A, JD72646-3A, JD72646-4A, JD72646-5A, JD72646-6A, JD72646-7A

CAS No.	Compound	JD72646-4A 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	0.137		0.1	0.265	128	0.101	0.284	146* a	7	70-140/30
2706-90-3	Perfluoropentanoic acid	0.0170		0.05	0.0802	126	0.0505	0.0813	127	1	65-135/30
307-24-4	Perfluorohexanoic acid	ND		0.025	0.0507	203* a	0.0253	0.0626	248* a	21	70-145/30
375-85-9	Perfluoroheptanoic acid	0.0144		0.025	0.0414	108	0.0253	0.0460	125	11	70-150/30
335-67-1	Perfluorooctanoic acid	0.0736		0.025	0.0986	100	0.0253	0.117	172* b	17	70-150/30
375-95-1	Perfluorononanoic acid	ND		0.025	0.0298	119	0.0253	0.0326	129	9	70-150/30
335-76-2	Perfluorodecanoic acid	ND		0.025	0.0275	110	0.0253	0.0316	125	14	70-140/30
2058-94-8	Perfluoroundecanoic acid	ND		0.025	0.0260	104	0.0253	0.0325	129	22	70-145/30
307-55-1	Perfluorododecanoic acid	ND		0.025	0.0292	117	0.0253	0.0292	116	0	70-140/30
72629-94-8	Perfluorotridecanoic acid	ND		0.025	0.0256	102	0.0253	0.0263	104	3	65-140/30
376-06-7	Perfluorotetradecanoic acid	ND		0.025	0.0269	108	0.0253	0.0312	124	15	60-140/30
375-73-5	Perfluorobutanesulfonic acid	0.0100		0.0222	0.0385	129	0.0224	0.0410	138	6	60-145/30
2706-91-4	Perfluoropentanesulfonic acid	0.0089		0.0235	0.0376	122	0.0238	0.0375	120	0	65-140/30
355-46-4	Perfluorohexanesulfonic acid	0.0178		0.0229	0.0368	83	0.0231	0.0382	88	4	65-145/30
375-92-8	Perfluoroheptanesulfonic acid	ND		0.0238	0.0274	115	0.0241	0.0281	117	3	70-150/30
1763-23-1	Perfluorooctanesulfonic acid	0.0369		0.0232	0.0711	147	0.0234	0.0829	196* a	15	55-150/30
68259-12-1	Perfluorononanesulfonic acid	ND		0.0241	0.0333	138	0.0243	0.0363	149* c	9	65-145/30
335-77-3	Perfluorodecanesulfonic acid	ND		0.0241	0.0252	104	0.0244	0.0306	126	19	60-145/30
79780-39-5	Perfluorododecanesulfonic aci	ND		0.0243	0.0244	101	0.0245	0.0268	109	9	50-145/30
757124-72-4	4:2 Fluorotelomer sulfonate	ND		0.0938	0.0823	88	0.0947	0.106	112	25	70-145/30
27619-97-2	6:2 Fluorotelomer sulfonate	ND		0.095	0.150	158* d	0.096	0.118	123	24	65-155/30
39108-34-4	8:2 Fluorotelomer sulfonate	ND		0.096	0.121	126	0.097	0.138	142	13	60-150/30
754-91-6	PFOSA	ND		0.05	0.0637	127	0.0505	0.0637	126	0	70-145/30
31506-32-8	MeFOSA	ND		0.05	0.148	296* e	0.0505	0.155	307* c	5	60-150/30
4151-50-2	EtFOSA	ND		0.05	0.0585	117	0.0505	0.0669	132	13	65-145/30
2355-31-9	MeFOSAA	ND		0.025	0.0259	104	0.0253	0.0295	117	13	50-140/30
2991-50-6	EtFOSAA	ND		0.025	0.0300	120	0.0253	0.0336	133	11	70-145/30
24448-09-7	MeFOSE	ND		0.125	0.0607	49* c	0.126	0.0699	55* d	14	70-145/30
1691-99-2	EtFOSE	ND		0.125	0.139	111	0.126	0.152	120	9	70-135/30
13252-13-6	HFPO-DA (GenX)	ND		0.1	0.107	107	0.101	0.125	124	16	70-140/30
919005-14-4	ADONA	ND		0.0945	0.175	185* a	0.0955	0.219	229* c	22	65-145/30
377-73-1	PFMPA	ND		0.05	0.0201	40* a	0.0505	0.0189	37* c	6	55-140/30
863090-89-5	PFMBA	ND		0.05	0.0672	134	0.0505	0.0760	150	12	60-150/30
151772-58-6	NFDHA	ND		0.05	0.0282	56	0.0505	0.0301	60	7	50-150/30
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND		0.0935	0.181	194* a	0.0944	0.211	223* c	15	70-155/30
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND		0.0945	0.157	166* a	0.0955	0.191	200* c	20	50-150/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD72646
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
OP49266-MS	2Q3452.D	1	09/23/23	PC	09/22/23	OP49266	T2Q78
OP49266-MSD	2Q3453.D	1	09/23/23	PC	09/22/23	OP49266	T2Q78
JD72646-4A	2Q3462.D	1	09/23/23	PC	09/22/23	OP49266	T2Q78

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

JD72646-10, JD72646-1A, JD72646-2A, JD72646-3A, JD72646-4A, JD72646-5A, JD72646-6A, JD72646-7A

CAS No.	Compound	JD72646-4A ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
113507-82-7	PFEESA	ND		0.0445	0.0458	103	0.0449	0.0507	113	10	70-140/30
356-02-5	3:3 Fluorotelomer carboxylate	ND		0.125	0.0465	37* [a]	0.126	0.0450	36* [c]	3	65-130/30
914637-49-3	5:3 Fluorotelomer carboxylate	ND		0.625	0.860	138* [a]	0.631	0.958	152* [d]	11	70-135/30
812-70-4	7:3 Fluorotelomer carboxylate	ND		0.625	0.748	120	0.631	0.919	146* [d]	21	50-145/30

CAS No.	ID Standard Recoveries	MS	MSD	JD72646-4A	Limits
	13C4-PFBA	21%	15%	14%	5-130%
	13C5-PFPeA	77%	62%	62%	40-130%
	13C5-PFHxA	110%	100%	105%	40-130%
	13C4-PFHpA	106%	104%	107%	40-130%
	13C8-PFOA	106%	101%	98%	40-130%
	13C9-PFNA	101%	84%	106%	40-130%
	13C6-PFDA	105%	91%	103%	40-130%
	13C7-PFUnDA	105%	94%	102%	30-130%
	13C2-PFDoDA	99%	93%	98%	10-130%
	13C2-PFTeDA	88%	77%	82%	10-130%
	13C3-PFBS	120%	102%	96%	40-135%
	13C3-PFHxS	127%	117%	93%	40-130%
	13C8-PFOS	94%	93%	106%	40-130%
	13C8-FOSA	87%	95%	94%	40-130%
	d3-MeFOSA	74%	82%	82%	10-130%
	d5-EtFOSA	75%	78%	88%	10-130%
	d3-MeFOSAA	103%	101%	105%	40-170%
	d5-EtFOSAA	96%	89%	94%	25-135%
	d7-MeFOSE	89%	88%	95%	10-130%
	d9-EtFOSE	85%	85%	91%	10-130%
	13C2-4:2FTS	260%* [c]	182%	202%* [c]	40-200%
	13C2-6:2FTS	125%	158%	133%	40-200%
	13C2-8:2FTS	118%	98%	93%	40-300%
	13C3-HFPO-DA	61%	52%	58%	40-130%

(a) Outside control limits possible due to matrix interference. Refer to blank spike.
(b) Outside control limits due to high level in sample relative to spike amount.
(c) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD72646
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
OP49266-MS	2Q3452.D	1	09/23/23	PC	09/22/23	OP49266	T2Q78
OP49266-MSD	2Q3453.D	1	09/23/23	PC	09/22/23	OP49266	T2Q78
JD72646-4A	2Q3462.D	1	09/23/23	PC	09/22/23	OP49266	T2Q78

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

JD72646-10, JD72646-1A, JD72646-2A, JD72646-3A, JD72646-4A, JD72646-5A, JD72646-6A, JD72646-7A

(d) Outside of control limits, but within reasonable method recovery limits.
(e) Outside control limits.

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JD72646
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: E4M5485-DFTPP
Lab File ID: 4M117421.D
Instrument ID: GCMS4M
Injection Date: 07/12/23
Injection Time: 09:13

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	16147	40.7		Pass
68	Less than 2.0% of mass 69	196	0.49	(1.41) [a]	Pass
69	Mass 69 relative abundance	13890	35.0		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	18497	46.6		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	39661	100.0		Pass
199	5.0 - 9.0% of mass 198	2658	6.70		Pass
275	10.0 - 30.0% of mass 198	11412	28.8		Pass
365	1.0 - 100.0% of mass 198	1646	4.15		Pass
441	Present, but less than mass 443	5867	14.8	(84.8) [b]	Pass
442	40.0 - 100.0% of mass 198	37412	94.3		Pass
443	17.0 - 23.0% of mass 442	6919	17.4	(18.5) [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
E4M5485-IC5485	4M117422.D	07/12/23	09:27	00:14	Initial cal 0.5
E4M5485-ICC5485	4M117425.D	07/12/23	11:31	02:18	Initial cal 1
E4M5485-IC5485	4M117426.D	07/12/23	11:56	02:43	Initial cal 0.01
E4M5485-IC5485	4M117427.D	07/12/23	12:19	03:06	Initial cal 0.02
E4M5485-IC5485	4M117429.D	07/12/23	13:05	03:52	Initial cal 0.1
E4M5485-IC5485	4M117430.D	07/12/23	13:29	04:16	Initial cal 0.2
E4M5485-IC5485	4M117431.D	07/12/23	13:54	04:41	Initial cal 2.5
E4M5485-IC5485	4M117432.D	07/12/23	14:19	05:06	Initial cal 5
E4M5485-IC5485	4M117436.D	07/12/23	16:41	07:28	Initial cal 0.05
E4M5485-ICV5485	4M117437.D	07/12/23	17:38	08:25	Initial cal verification 5

Instrument Performance Check (DFTPP)

Job Number: JD72646
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: E4M5486-DFTPP
Lab File ID: 4M117439.D
Instrument ID: GCMS4M
Injection Date: 07/13/23
Injection Time: 08:49

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	28533	41.7		Pass
68	Less than 2.0% of mass 69	355	0.52	(1.43) [a]	Pass
69	Mass 69 relative abundance	24848	36.3		Pass
70	Less than 2.0% of mass 69	72	0.11	(0.29) [a]	Pass
127	40.0 - 60.0% of mass 198	33243	48.6		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	68451	100.0		Pass
199	5.0 - 9.0% of mass 198	4677	6.83		Pass
275	10.0 - 30.0% of mass 198	19735	28.8		Pass
365	1.0 - 100.0% of mass 198	2702	3.95		Pass
441	Present, but less than mass 443	9480	13.8	(79.7) [b]	Pass
442	40.0 - 100.0% of mass 198	59859	87.4		Pass
443	17.0 - 23.0% of mass 442	11893	17.4	(19.9) [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
E4M5486-ICV5485	4M117441.D	07/13/23	09:26	00:37	Initial cal verification 1
E4M5486-CC5485	4M117442.D	07/13/23	09:58	01:09	Continuing cal 1
OP47694A-MB1	4M117444.D	07/13/23	10:44	01:55	Method Blank
OP47694A-BS12	4M117445.D	07/13/23	11:07	02:18	Blank Spike
OP47694A-BSD12	4M117446.D	07/13/23	11:31	02:42	Blank Spike Duplicate
OP47695C-MB1	4M117447.D	07/13/23	11:54	03:05	Method Blank
OP47695C-BS12	4M117448.D	07/13/23	12:18	03:29	Blank Spike
OP47695C-BSD12	4M117449.D	07/13/23	12:42	03:53	Blank Spike Duplicate
OP47745A-MB1	4M117450.D	07/13/23	13:06	04:17	Method Blank
OP47745A-BS12	4M117451.D	07/13/23	13:31	04:42	Blank Spike
OP47745A-BSD12	4M117452.D	07/13/23	13:55	05:06	Blank Spike Duplicate
OP47384A-MSA	4M117453.D	07/13/23	14:18	05:29	Matrix Spike
ZZZZZZ	4M117454.D	07/13/23	14:42	05:53	(unrelated sample)
ZZZZZZ	4M117455.D	07/13/23	15:06	06:17	(unrelated sample)
ZZZZZZ	4M117456.D	07/13/23	15:30	06:41	(unrelated sample)
JD68970-3	4M117457.D	07/13/23	15:54	07:05	(used for QC only; not part of job JD72646)
ZZZZZZ	4M117458.D	07/13/23	16:18	07:29	(unrelated sample)
ZZZZZZ	4M117459.D	07/13/23	16:44	07:55	(unrelated sample)
ZZZZZZ	4M117460.D	07/13/23	17:09	08:20	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JD72646
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: E4M5486-DFTPP
Lab File ID: 4M117439.D
Instrument ID: GCMS4M
Injection Date: 07/13/23
Injection Time: 08:49

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	4M117461.D	07/13/23	17:33	08:44	(unrelated sample)
ZZZZZZ	4M117462.D	07/13/23	17:57	09:08	(unrelated sample)
ZZZZZZ	4M117463.D	07/13/23	18:21	09:32	(unrelated sample)
ZZZZZZ	4M117464.D	07/13/23	18:45	09:56	(unrelated sample)
ZZZZZZ	4M117465.D	07/13/23	19:09	10:20	(unrelated sample)
ZZZZZZ	4M117466.D	07/13/23	19:32	10:43	(unrelated sample)
JD69018-2	4M117467.D	07/13/23	19:56	11:07	(used for QC only; not part of job JD72646)
OP47745A-MSA	4M117468.D	07/13/23	20:19	11:30	Matrix Spike
OP47745A-MSDA	4M117469.D	07/13/23	20:42	11:53	Matrix Spike Duplicate
E4M5487-CC5485	4M117471.D	07/14/23	01:38	16:49	Continuing cal 0.5
OP47779A-MB1	4M117473.D	07/14/23	03:04	18:15	Method Blank
OP47779A-BS12	4M117474.D	07/14/23	03:27	18:38	Blank Spike
OP47779A-BSD12	4M117475.D	07/14/23	03:49	19:00	Blank Spike Duplicate
OP47766A-MB1	4M117476.D	07/14/23	04:11	19:22	Method Blank
OP47766A-BS12	4M117477.D	07/14/23	04:34	19:45	Blank Spike
OP47766A-BSD12	4M117478.D	07/14/23	04:56	20:07	Blank Spike Duplicate
ZZZZZZ	4M117479.D	07/14/23	05:18	20:29	(unrelated sample)
ZZZZZZ	4M117480.D	07/14/23	05:41	20:52	(unrelated sample)
ZZZZZZ	4M117481.D	07/14/23	06:03	21:14	(unrelated sample)
ZZZZZZ	4M117482.D	07/14/23	06:26	21:37	(unrelated sample)
ZZZZZZ	4M117483.D	07/14/23	06:48	21:59	(unrelated sample)
ZZZZZZ	4M117484.D	07/14/23	07:11	22:22	(unrelated sample)
ZZZZZZ	4M117485.D	07/14/23	07:34	22:45	(unrelated sample)
ZZZZZZ	4M117486.D	07/14/23	07:57	23:08	(unrelated sample)
ZZZZZZ	4M117487.D	07/14/23	08:20	23:31	(unrelated sample)
ZZZZZZ	4M117488.D	07/14/23	08:43	23:54	(unrelated sample)
ZZZZZZ	4M117489.D	07/14/23	09:06	24:17	(unrelated sample)
ZZZZZZ	4M117490.D	07/14/23	09:31	24:42	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JD72646
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: ECJ107-DFTPP
Lab File ID: CJ2111.D
Instrument ID: GCMSCJ
Injection Date: 08/24/23
Injection Time: 21:59

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	97003	32.2		Pass
68	Less than 2.0% of mass 69	1906	0.63	(1.95) [a]	Pass
69	Mass 69 relative abundance	97643	32.5		Pass
70	Less than 2.0% of mass 69	483	0.16	(0.49) [a]	Pass
127	40.0 - 60.0% of mass 198	138347	46.0		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	300827	100.0		Pass
199	5.0 - 9.0% of mass 198	20939	6.96		Pass
275	10.0 - 30.0% of mass 198	74384	24.7		Pass
365	1.0 - 100.0% of mass 198	9309	3.09		Pass
441	Present, but less than mass 443	42899	14.3	(77.9) [b]	Pass
442	40.0 - 100.0% of mass 198	279253	92.8		Pass
443	17.0 - 23.0% of mass 442	55101	18.3	(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
ECJ107-ICC107	CJ2112.D	08/24/23	23:51	01:52	Initial cal 50
ECJ107-IC107	CJ2113.D	08/25/23	00:10	02:11	Initial cal 100
ECJ107-IC107	CJ2114.D	08/25/23	00:30	02:31	Initial cal 80
ECJ107-IC107	CJ2115.D	08/25/23	00:51	02:52	Initial cal 25
ECJ107-IC107	CJ2116.D	08/25/23	01:11	03:12	Initial cal 10
ECJ107-IC107	CJ2117.D	08/25/23	01:31	03:32	Initial cal 5
ECJ107-IC107	CJ2118.D	08/25/23	01:51	03:52	Initial cal 2
ECJ107-IC107	CJ2119.D	08/25/23	02:11	04:12	Initial cal 1
ECJ107-ICV107	CJ2120.D	08/25/23	02:32	04:33	Initial cal verification 50
ECJ107-ICV107	CJ2121.D	08/25/23	02:52	04:53	Initial cal verification 50
ECJ107-ICV107	CJ2122.D	08/25/23	03:12	05:13	Initial cal verification 50
ECJ107-ICV107	CJ2123.D	08/25/23	03:32	05:33	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD72646
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: ECJ108-DFTPP
Lab File ID: CJ2125.D
Instrument ID: GCMSCJ
Injection Date: 08/29/23
Injection Time: 14:13

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	103614	34.3		Pass
68	Less than 2.0% of mass 69	1897	0.63	(1.80) [a]	Pass
69	Mass 69 relative abundance	105472	34.9		Pass
70	Less than 2.0% of mass 69	670	0.22	(0.64) [a]	Pass
127	40.0 - 60.0% of mass 198	142867	47.3		Pass
197	Less than 1.0% of mass 198	1307	0.43		Pass
198	Base peak, 100% relative abundance	301952	100.0		Pass
199	5.0 - 9.0% of mass 198	20788	6.88		Pass
275	10.0 - 30.0% of mass 198	73821	24.4		Pass
365	1.0 - 100.0% of mass 198	9495	3.14		Pass
441	Present, but less than mass 443	41769	13.8	(77.4) [b]	Pass
442	40.0 - 100.0% of mass 198	273648	90.6		Pass
443	17.0 - 23.0% of mass 442	53940	17.9	(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
ECJ108-ICC108	CJ2126.D	08/29/23	14:27	00:14	Initial cal 50
ECJ108-IC108	CJ2127.D	08/29/23	14:47	00:34	Initial cal 100
ECJ108-IC108	CJ2128.D	08/29/23	15:08	00:55	Initial cal 80
ECJ108-IC108	CJ2129.D	08/29/23	15:28	01:15	Initial cal 25
ECJ108-IC108	CJ2130.D	08/29/23	15:48	01:35	Initial cal 10
ECJ108-IC108	CJ2131.D	08/29/23	16:08	01:55	Initial cal 5
ECJ108-IC108	CJ2132.D	08/29/23	16:29	02:16	Initial cal 2
ECJ108-IC108	CJ2133.D	08/29/23	16:49	02:36	Initial cal 1
ECJ108-ICV108	CJ2134.D	08/29/23	17:09	02:56	Initial cal verification 50

Surrogate Recovery Summary

Job Number: JD72646
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
JD72646-4	CJ2466.D	58	64	40
JD72646-5	CJ2467.D	67	73	37
JD72646-6	CJ2468.D	58	64	34
JD72646-7	CJ2469.D	46	48	43
OP49101-BS1	CJ2456.D	64	63	69
OP49101-MB1	CJ2455.D	52	46	58
OP49101-MS	CJ2457.D	66	67	50
OP49101-MSD	CJ2458.D	69	68	39

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	28-118%
S2 = 2-Fluorobiphenyl	34-116%
S3 = Terphenyl-d14	10-127%

Isotope Dilution Standard Recovery Summary

Job Number: JD72646
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Method: EPA DRAFT 1633 **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
JD72646-9	2Q3289.D	78	77	80	76	79	76	72	80
JD72646-10	2Q3466.D	103	108	106	104	102	106	99	104
JD72646-1A	2Q3457.D	25	90	102	103	104	104	89	101
JD72646-2A	2Q3458.D	5	27* [a]	89	105	103	104	107	108
JD72646-3A	2Q3461.D	16	58	105	107	104	95	104	92
JD72646-4A	2Q3462.D	14	62	105	107	98	106	103	102
JD72646-5A	2Q3463.D	14	61	91	96	93	101	90	92
JD72646-6A	2Q3464.D	13	52	88	96	89	93	100	100
JD72646-7A	2Q3465.D	58	108	108	107	93	94	86	78
OP49152-BS	2Q3268.D	79	75	75	78	80	82	82	88
OP49152-BSD	2Q3269.D	79	77	76	73	74	74	81	73
OP49152-LLBS	2Q3267.D	81	75	73	79	79	74	72	76
OP49152-MB	2Q3266.D	79	78	75	78	78	78	73	79
OP49152-MS	2Q3270.D	79	80	82	76	77	80	73	74
OP49266-BS	2Q3451.D	106	104	107	107	107	115	106	119
OP49266-LLBS	2Q3450.D	105	111	113	111	101	101	101	102
OP49266-MB	2Q3449.D	107	105	108	110	111	102	101	112
OP49266-MS	2Q3452.D	21	77	110	106	106	101	105	105
OP49266-MSD	2Q3453.D	15	62	100	104	101	84	91	94
T2Q75-IBLK	2Q3211.D	125	125	126	124	122	129	118	130
T2Q75-ICCB	2Q3282.D	124	125	126	126	135* [a]	113	129	134* [a]
T2Q78-ICCB	2Q3443.D	99	104	103	102	97	103	83	91

Isotope Dilution Standards	Recovery Limits
S1 = 13C4-PFBA	5-130%
S2 = 13C5-PFPeA	40-130%
S3 = 13C5-PFHxA	40-130%
S4 = 13C4-PFHpA	40-130%
S5 = 13C8-PFOA	40-130%
S6 = 13C9-PFNA	40-130%
S7 = 13C6-PFDA	40-130%
S8 = 13C7-PFUnDA	30-130%

(a) Outside of control limits, but within reasonable method recovery limits.

Isotope Dilution Standard Recovery Summary

Job Number: JD72646
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Method: EPA DRAFT 1633 **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
JD72646-9	2Q3289.D	71	59	83	90	65	71	58	55
JD72646-10	2Q3466.D	99	84	107	99	106	95	73	79
JD72646-1A	2Q3457.D	84	62	101	93	108	97	84	82
JD72646-2A	2Q3458.D	99	80	86	94	116	105	92	82
JD72646-3A	2Q3461.D	91	71	103	112	109	99	78	71
JD72646-4A	2Q3462.D	98	82	96	93	106	94	82	88
JD72646-5A	2Q3463.D	90	78	96	93	101	87	76	73
JD72646-6A	2Q3464.D	100	77	83	90	99	104	78	75
JD72646-7A	2Q3465.D	72	67	108	118	102	89	60	59
OP49152-BS	2Q3268.D	72	63	74	73	67	66	55	56
OP49152-BSD	2Q3269.D	73	72	79	86	72	72	56	59
OP49152-LLBS	2Q3267.D	67	65	73	78	64	68	55	58
OP49152-MB	2Q3266.D	69	69	79	82	73	66	57	56
OP49152-MS	2Q3270.D	67	61	79	84	86	75	59	59
OP49266-BS	2Q3451.D	105	100	117	100	104	90	77	81
OP49266-LLBS	2Q3450.D	105	88	117	104	91	93	78	80
OP49266-MB	2Q3449.D	107	91	112	117	106	87	83	84
OP49266-MS	2Q3452.D	99	88	120	127	94	87	74	75
OP49266-MSD	2Q3453.D	93	77	102	117	93	95	82	78
T2Q75-IBLK	2Q3211.D	128	122	106	113	116	120	122	113
T2Q75-ICCB	2Q3282.D	121	116	120	117	118	115	112	124
T2Q78-ICCB	2Q3443.D	88	87	104	107	99	103	93	98

Isotope Dilution Standards	Recovery Limits
S9 = 13C2-PFDoDA	10-130%
S10 = 13C2-PFTeDA	10-130%
S11 = 13C3-PFBS	40-135%
S12 = 13C3-PFHxS	40-130%
S13 = 13C8-PFOS	40-130%
S14 = 13C8-FOSA	40-130%
S15 = d3-MeFOSA	10-130%
S16 = d5-EtFOSA	10-130%

Isotope Dilution Standard Recovery Summary

Job Number: JD72646
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Method: EPA DRAFT 1633 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S17	S18	S19	S20	S21	S22	S23	S24
JD72646-9	2Q3289.D	67	76	57	57	90	92	94	81
JD72646-10	2Q3466.D	94	91	90	87	92	82	102	97
JD72646-1A	2Q3457.D	105	91	89	80	194	111	112	67
JD72646-2A	2Q3458.D	120	120	107	96	38* [a]	136	133	47
JD72646-3A	2Q3461.D	95	89	91	85	190	118	84	58
JD72646-4A	2Q3462.D	105	94	95	91	202* [a]	133	93	58
JD72646-5A	2Q3463.D	91	93	85	85	194	126	105	49
JD72646-6A	2Q3464.D	96	93	89	84	161	137	89	51
JD72646-7A	2Q3465.D	80	74	73	68	120	88	71	87
OP49152-BS	2Q3268.D	76	69	57	61	86	95	94	80
OP49152-BSD	2Q3269.D	77	76	60	63	80	76	75	79
OP49152-LLBS	2Q3267.D	74	69	63	64	84	76	91	79
OP49152-MB	2Q3266.D	75	77	55	59	103	91	92	79
OP49152-MS	2Q3270.D	78	76	66	63	109	96	104	95
OP49266-BS	2Q3451.D	104	94	90	94	121	103	126	103
OP49266-LLBS	2Q3450.D	96	89	87	83	114	119	113	99
OP49266-MB	2Q3449.D	100	96	90	89	104	109	108	94
OP49266-MS	2Q3452.D	103	96	89	85	260* [a]	125	118	61
OP49266-MSD	2Q3453.D	101	89	88	85	182	158	98	52
T2Q75-IBLK	2Q3211.D	129	120	117	121	149	134	129	122
T2Q75-ICCB	2Q3282.D	114	123	117	116	129	128	158	128
T2Q78-ICCB	2Q3443.D	101	98	103	104	118	98	119	87

Isotope Dilution Standards	Recovery Limits
S17 = d3-MeFOSAA	40-170%
S18 = d5-EtFOSAA	25-135%
S19 = d7-MeFOSE	10-130%
S20 = d9-EtFOSE	10-130%
S21 = 13C2-4:2FTS	40-200%
S22 = 13C2-6:2FTS	40-200%
S23 = 13C2-8:2FTS	40-300%
S24 = 13C3-HFPO-DA	40-130%

(a) Outside control limits due to matrix interference.

Surrogate Recovery Summary

Job Number: JD72646
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
JD72646-4	4M118793.D	87	72	47
JD72646-5	4M118794.D	101	84	42
JD72646-6	4M118795.D	87	72	39
JD72646-7	4M118796.D	69	57	48 [a]
OP49101A-BS12	4M118781.D	96	64	79
OP49101A-MB1	4M118780.D	68	49 [a]	64
OP49101A-MSA	4M118797.D	85	70	37
OP49101A-MSDA	4M118798.D	87	71	34

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	23-127%
S2 = 2-Fluorobiphenyl	23-114%
S3 = Terphenyl-d14	10-121%

(a) Outside of program requirements.

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: JD72646
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP41901
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/14/23

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	17	150		
Antimony	6.0	1.7	4.7	0.50	<6.0
Arsenic	3.0	2.1	2.8	-0.70	<3.0
Barium	200	.8	13		
Beryllium	1.0	.3	.5		
Bismuth	20	2.3	8.6		
Boron	100	2.3	10		
Cadmium	3.0	.3	1	0.0	<3.0
Calcium	5000	6.6	99		
Cerium	100				
Chromium	10	.3	2	0.30	<10
Cobalt	50	.4	2.6		
Copper	10	.8	5.9		
Iron	100	5.3	32	1.0	<100
Lead	3.0	1.1	1.8	-0.50	<3.0
Lithium	50	4.8	7.3		
Magnesium	5000	32	140		
Manganese	15	.1	1.4	0.0	<15
Molybdenum	20	.6	3.6		
Nickel	10	.4	1.7		
Phosphorus	50	1.2	18		
Potassium	10000	77	200		
Selenium	10	3.2	4.9		
Silicon	200	1.7	32		
Silver	10	1	6.1		
Sodium	10000	34	570		
Strontium	10	.3	2.7		
Sulfur	50	3	45		
Thallium	10	1.8	1.8		
Tin	10	.8	3.7		
Titanium	10	.5	2.5		
Tungsten	50	2.6	40		
Vanadium	50	.6	1.8		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD72646
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP41901
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/14/23

Metal	RL	IDL	MDL	MB raw	final
Zinc	20	.1	6.9		
Zirconium	10	.3	4.1		

Associated samples MP41901: JD72646-7

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: JD72646
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP41901
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/14/23

Metal	JD72489-1 Original	MS	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	anr				
Antimony	0.0	1970	2000	98.5	75-125
Arsenic	7.2	1980	2000	98.6	75-125
Barium	anr				
Beryllium	anr				
Bismuth					
Boron					
Cadmium	0.0	1960	2000	98.0	75-125
Calcium	anr				
Cerium					
Chromium	13.2	1920	2000	95.3	75-125
Cobalt	anr				
Copper	anr				
Iron	3710	27600	25000	95.6	75-125
Lead	8.0	1990	2000	99.1	75-125
Lithium					
Magnesium	anr				
Manganese	1290	3280	2000	99.5	75-125
Molybdenum					
Nickel	anr				
Phosphorus					
Potassium	anr				
Selenium	anr				
Silicon					
Silver	anr				
Sodium	anr				
Strontium					
Sulfur					
Thallium	anr				
Tin					
Titanium					
Tungsten					
Vanadium	anr				

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD72646
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP41901
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/14/23

Metal	JD72489-1 Original MS	Spikelot MPSPK2	% Rec	QC Limits
Zinc	anr			
Zirconium				

Associated samples MP41901: JD72646-7

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: JD72646
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP41901
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/14/23

Metal	JD72489-1 Original	MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	0.0	1940	2000	97.0	1.5	20
Arsenic	7.2	1950	2000	97.1	1.5	20
Barium	anr					
Beryllium	anr					
Bismuth						
Boron						
Cadmium	0.0	1930	2000	96.5	1.5	20
Calcium	anr					
Cerium						
Chromium	13.2	1890	2000	93.8	1.6	20
Cobalt	anr					
Copper	anr					
Iron	3710	27200	25000	94.0	1.5	20
Lead	8.0	1960	2000	97.6	1.5	20
Lithium						
Magnesium	anr					
Manganese	1290	3190	2000	95.0	2.8	20
Molybdenum						
Nickel	anr					
Phosphorus						
Potassium	anr					
Selenium	anr					
Silicon						
Silver	anr					
Sodium	anr					
Strontium						
Sulfur						
Thallium	anr					
Tin						
Titanium						
Tungsten						
Vanadium	anr					

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD72646
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP41901 Methods: SW846 6010D
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 09/14/23

Metal	JD72489-1 Original MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Zinc	anr				
Zirconium					

Associated samples MP41901: JD72646-7

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: JD72646
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP41901
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/14/23

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	anr			
Antimony	1930	2000	96.5	80-120
Arsenic	1910	2000	95.5	80-120
Barium	anr			
Beryllium	anr			
Bismuth				
Boron				
Cadmium	1910	2000	95.5	80-120
Calcium	anr			
Cerium				
Chromium	1900	2000	95.0	80-120
Cobalt	anr			
Copper	anr			
Iron	24600	25000	98.4	80-120
Lead	1950	2000	97.5	80-120
Lithium				
Magnesium	anr			
Manganese	1930	2000	96.5	80-120
Molybdenum				
Nickel	anr			
Phosphorus				
Potassium	anr			
Selenium	anr			
Silicon				
Silver	anr			
Sodium	anr			
Strontium				
Sulfur				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium	anr			

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD72646
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP41901
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/14/23

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Zinc	anr			
Zirconium				

Associated samples MP41901: JD72646-7

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

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD72646
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP41901
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/14/23

Metal	JD72489-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	0.00	0.00	NC	0-10
Arsenic	7.20	0.00	100.0(a)	0-10
Barium	anr			
Beryllium	anr			
Bismuth				
Boron				
Cadmium	0.00	0.00	NC	0-10
Calcium	anr			
Cerium				
Chromium	13.2	13.6	3.0	0-10
Cobalt	anr			
Copper	anr			
Iron	3710	3910	5.5	0-10
Lead	8.00	5.70	28.8 (a)	0-10
Lithium				
Magnesium	anr			
Manganese	1290	1350	4.3	0-10
Molybdenum				
Nickel	anr			
Phosphorus				
Potassium	anr			
Selenium	anr			
Silicon				
Silver	anr			
Sodium	anr			
Strontium				
Sulfur				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium	anr			

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD72646
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP41901
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/14/23

Metal	JD72489-1 Original SDL 1:5	%DIF	QC Limits
Zinc	anr		
Zirconium			

Associated samples MP41901: JD72646-7

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: JD72646
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP41910
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/15/23

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	17	150		
Antimony	6.0	1.7	4.7	0.0	<6.0
Arsenic	3.0	2.1	2.8	0.0	<3.0
Barium	200	.8	13		
Beryllium	1.0	.3	.5		
Bismuth	20	2.3	8.6		
Boron	100	2.3	10		
Cadmium	3.0	.3	1	0.10	<3.0
Calcium	5000	6.6	99		
Cerium	100				
Chromium	10	.3	2	0.0	<10
Cobalt	50	.4	2.6		
Copper	10	.8	5.9		
Iron	100	5.3	32	2.4	<100
Lead	3.0	1.1	1.8	0.20	<3.0
Lithium	50	4.8	7.3		
Magnesium	5000	32	140		
Manganese	15	.1	1.4	0.10	<15
Molybdenum	20	.6	3.6		
Nickel	10	.4	1.7		
Phosphorus	50	1.2	18		
Potassium	10000	77	200		
Selenium	10	3.2	4.9		
Silicon	200	1.7	32		
Silver	10	1	6.1		
Sodium	10000	34	570		
Strontium	10	.3	2.7		
Sulfur	50	3	45		
Thallium	10	1.8	1.8		
Tin	10	.8	3.7		
Titanium	10	.5	2.5		
Tungsten	50	2.6	40		
Vanadium	50	.6	1.8		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD72646
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP41910
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/15/23

Metal	RL	IDL	MDL	MB raw	final
Zinc	20	.1	6.9		
Zirconium	10	.3	4.1		

Associated samples MP41910: JD72646-4, JD72646-5, JD72646-6

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: JD72646
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP41910
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/15/23

Metal	JD72646-4 Original	MS	Spikelot MPSPK2	% Rec	QC Limits
Aluminum					
Antimony	0.0	1800	2000	90.0	75-125
Arsenic	15.3	1830	2000	90.7	75-125
Barium					
Beryllium					
Bismuth					
Boron					
Cadmium	0.50	1720	2000	86.0	75-125
Cerium					
Chromium	2.9	1700	2000	84.9	75-125
Cobalt					
Copper					
Iron	35000	55600	25000	82.4	75-125
Lead	0.0	1690	2000	84.5	75-125
Lithium					
Magnesium	anr				
Manganese	171	1880	2000	85.5	75-125
Molybdenum					
Nickel					
Phosphorus					
Potassium					
Selenium					
Silicon					
Silver					
Sodium	anr				
Strontium					
Sulfur					
Thallium					
Tin					
Titanium					
Tungsten					
Vanadium					
Zinc					

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD72646
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP41910
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/15/23

Metal	JD72646-4 Original MS	Spikelot MPSPK2	% Rec	QC Limits
Zirconium				

Associated samples MP41910: JD72646-4, JD72646-5, JD72646-6

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: JD72646
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP41910
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/15/23

Metal	JD72646-4 Original	MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	0.0	1870	2000	93.5	3.8	20
Arsenic	15.3	1910	2000	94.7	4.3	20
Barium						
Beryllium						
Bismuth						
Boron						
Cadmium	0.50	1810	2000	90.5	5.1	20
Cerium						
Chromium	2.9	1790	2000	89.4	5.2	20
Cobalt						
Copper						
Iron	35000	59000	25000	96.0	5.9	20
Lead	0.0	1780	2000	89.0	5.2	20
Lithium						
Magnesium	anr					
Manganese	171	1970	2000	90.0	4.7	20
Molybdenum						
Nickel						
Phosphorus						
Potassium						
Selenium						
Silicon						
Silver						
Sodium	anr					
Strontium						
Sulfur						
Thallium						
Tin						
Titanium						
Tungsten						
Vanadium						
Zinc						

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD72646
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP41910
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/15/23

Metal	JD72646-4 Original MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Zirconium					

Associated samples MP41910: JD72646-4, JD72646-5, JD72646-6

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: JD72646
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP41910
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/15/23

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum				
Antimony	1790	2000	89.5	80-120
Arsenic	1780	2000	89.0	80-120
Barium				
Beryllium				
Bismuth				
Boron				
Cadmium	1680	2000	84.0	80-120
Calcium				
Cerium				
Chromium	1730	2000	86.5	80-120
Cobalt				
Copper				
Iron	23600	25000	94.4	80-120
Lead	1720	2000	86.0	80-120
Lithium				
Magnesium	anr			
Manganese	1760	2000	88.0	80-120
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium	anr			
Strontium				
Sulfur				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium				

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD72646
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP41910
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/15/23

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Zinc				
Zirconium				

Associated samples MP41910: JD72646-4, JD72646-5, JD72646-6

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

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD72646
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP41910
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/15/23

Metal	JD72646-4 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	0.00	0.00	NC	0-10
Arsenic	15.3	18.7	22.2 (a)	0-10
Barium				
Beryllium				
Bismuth				
Boron				
Cadmium	0.500	0.00	100.0(a)	0-10
Calcium				
Cerium				
Chromium	2.90	3.40	17.2 (a)	0-10
Cobalt				
Copper				
Iron	35000	37400	6.8	0-10
Lead	0.00	0.00	NC	0-10
Lithium				
Magnesium	anr			
Manganese	171	187	9.6	0-10
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium	anr			
Strontium				
Sulfur				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium				

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD72646
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP41910 Methods: SW846 6010D
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 09/15/23

	JD72646-4		QC
Metal	Original SDL 1:5	%DIF	Limits
Zinc			
Zirconium			

Associated samples MP41910: JD72646-4, JD72646-5, JD72646-6

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: JD72646
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP41958 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 09/15/23

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.024	.095	-0.014	<0.20

Associated samples MP41958: JD72646-4, JD72646-5, JD72646-6, JD72646-7

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: JD72646
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP41958
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 09/15/23

Metal	JD72646-4 Original	MS	Spikelot HGPW3	% Rec	QC Limits
Mercury	0.0	2.0	2	100.0	75-125

Associated samples MP41958: JD72646-4, JD72646-5, JD72646-6, JD72646-7

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: JD72646
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP41958 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 09/15/23

Metal	JD72646-4 Original	MSD	Spikelot HGPW3	% Rec	MSD RPD	QC Limit
Mercury	0.0	1.8	2	90.0	10.5	20

Associated samples MP41958: JD72646-4, JD72646-5, JD72646-6, JD72646-7

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: JD72646
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP41958
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 09/15/23

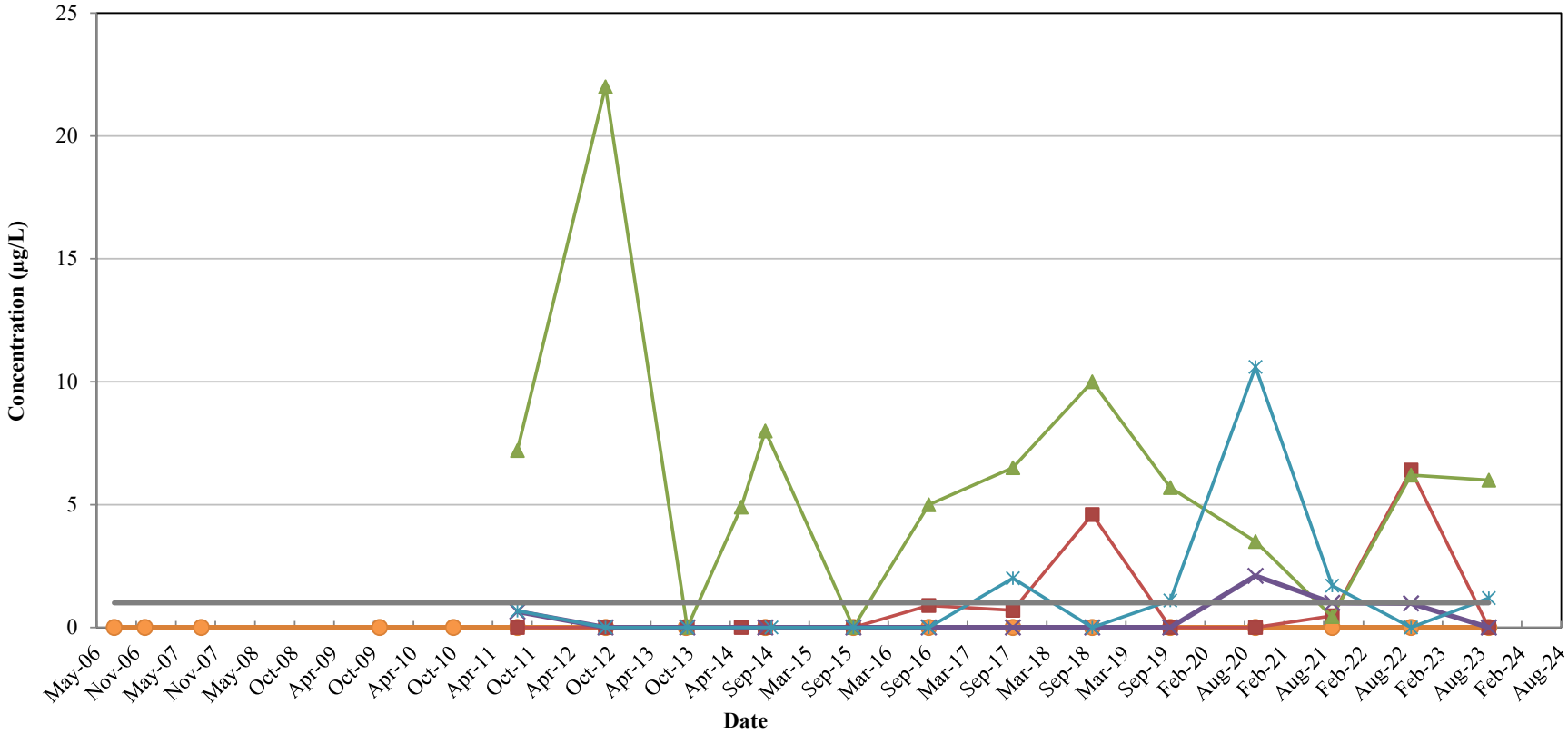
Metal	BSP Result	Spikelot HGPW3	% Rec	QC Limits
Mercury	1.9	2	95.0	80-120

Associated samples MP41958: JD72646-4, JD72646-5, JD72646-6, JD72646-7

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

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:

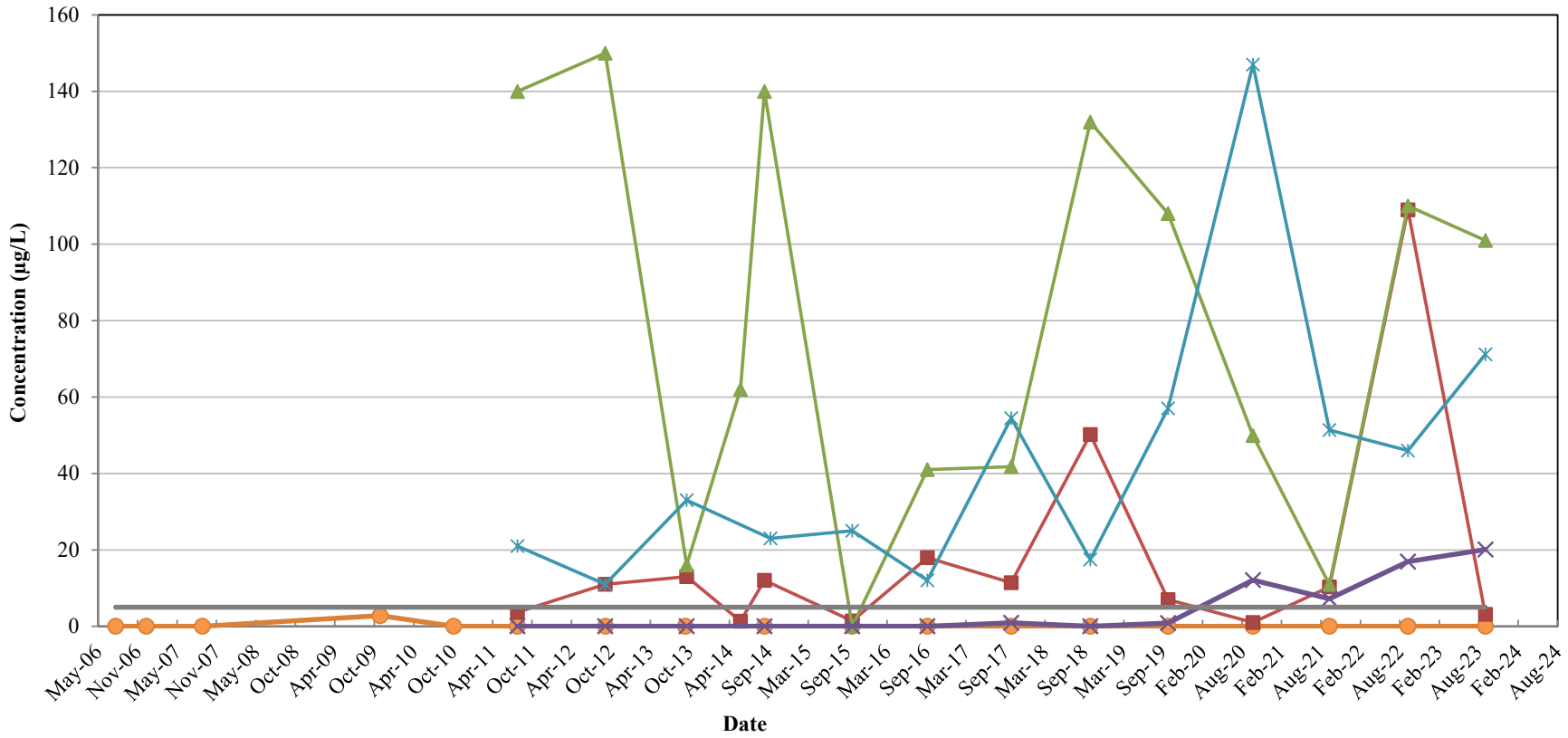
Benzene Concentration Trends

LOCATION:

Honeywell Altift Landfill
Buffalo NY, Site No. 915054

MACTEC

PREPARED	RTB	FIGURE
CHECKED BY	BJR	
PROJECT#	3616236277	1
DATE	3-13-24	



Notes:

µg/L = micrograms per liter

MW-02 Sump 1 Sump 2

Sump 3 Sump 4 NYSDEC Standard

TITLE:

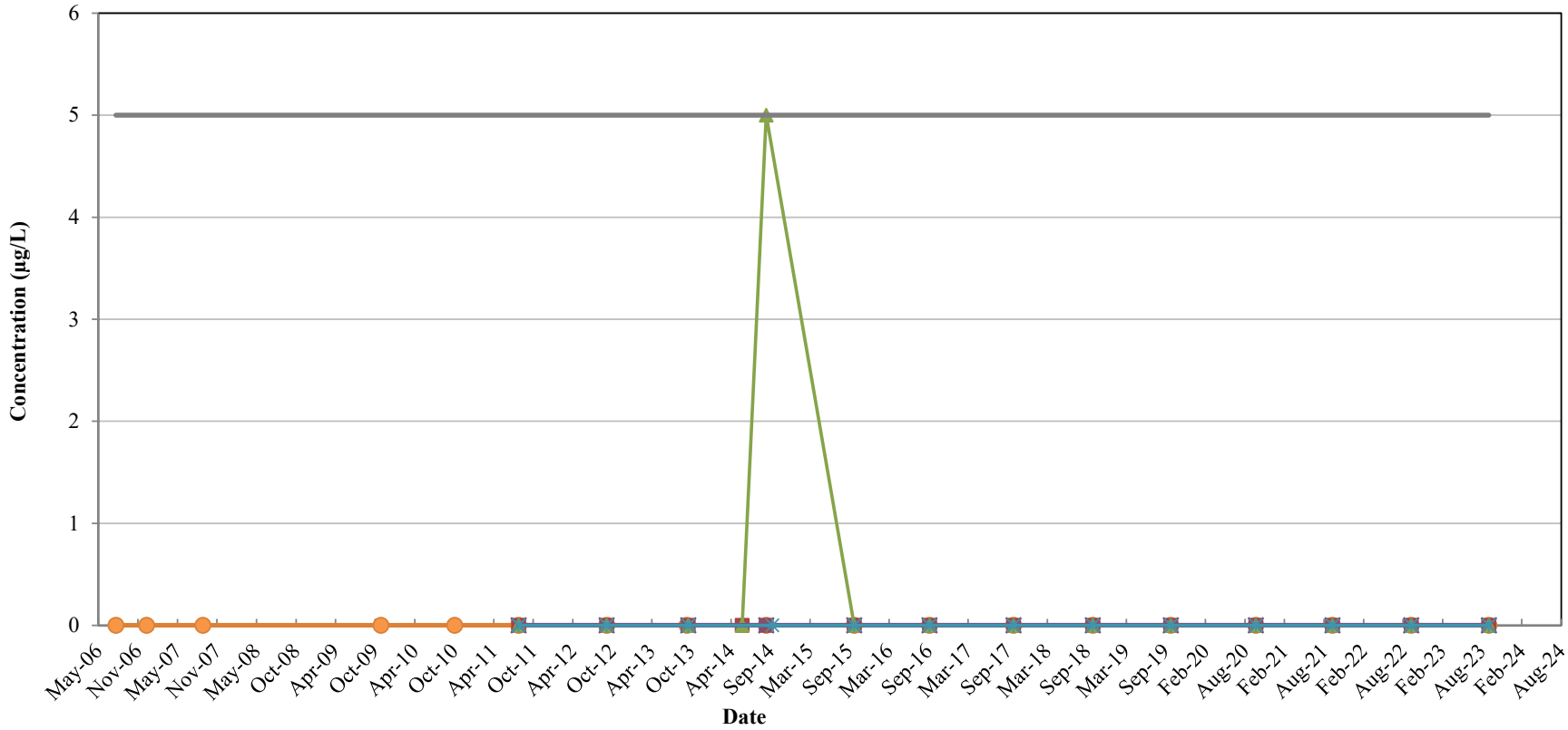
Chlorobenzene Concentration Trends

LOCATION:

Honeywell Altift Landfill
Buffalo NY, Site No. 915054

MACTEC

PREPARED	RTB	FIGURE
CHECKED BY	BJR	
PROJECT#	3616236277	2
DATE	3-13-24	



Notes:

µg/L = micrograms per liter

MW-02 Sump 1 Sump 2

Sump 3 Sump 4 NYSDEC Standard

TITLE:

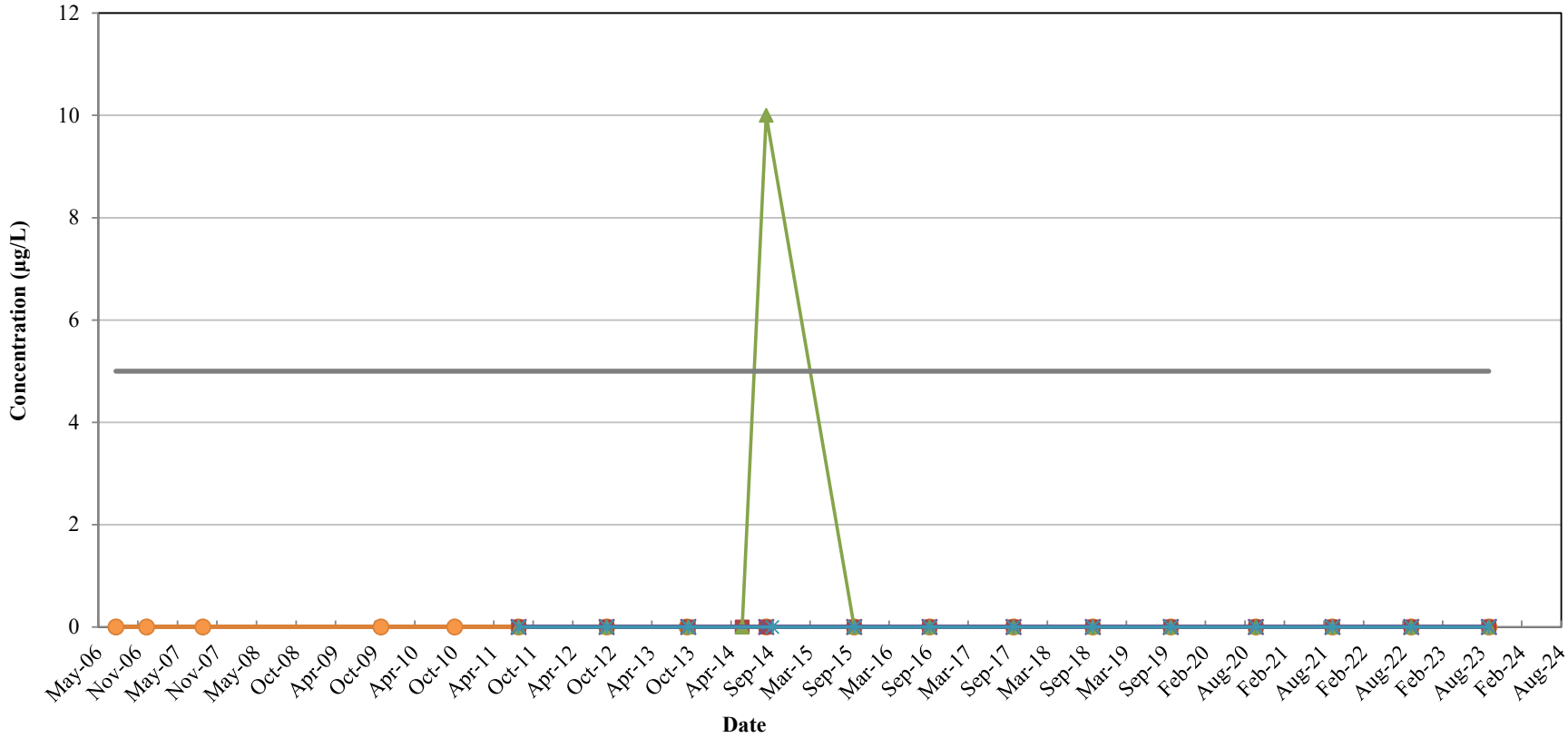
Ethylbenzene Concentration Trends

LOCATION:

Honeywell Altift Landfill
Buffalo NY, Site No. 915054

MACTEC

PREPARED	RTB	FIGURE
CHECKED BY	BJR	
PROJECT#	3616236277	3
DATE	3-13-24	



Notes:

µg/L = micrograms per liter

MW-02 Sump 1 Sump 2

Sump 3 Sump 4 NYSDEC Standard

TITLE:

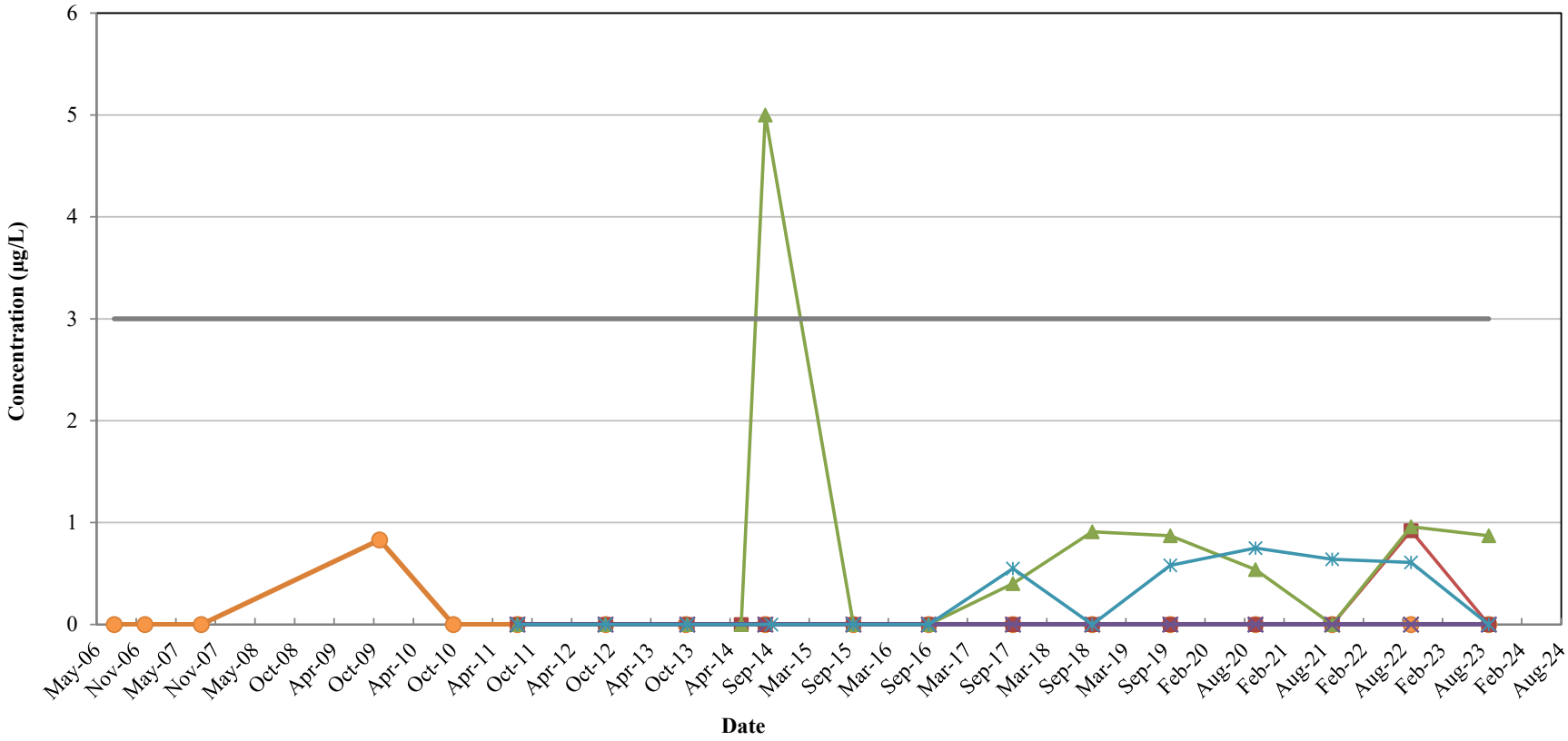
Total Xylenes Concentration Trends

LOCATION:

Honeywell Altift Landfill
Buffalo NY, Site No. 915054

MACTEC

PREPARED	RTB	FIGURE
CHECKED BY	BJR	
PROJECT#	3616236277	4
DATE	3-13-24	



Notes:

µg/L = micrograms per liter

MW-02 Sump 1 Sump 2

Sump 3 Sump 4 NYSDEC Standard

TITLE:

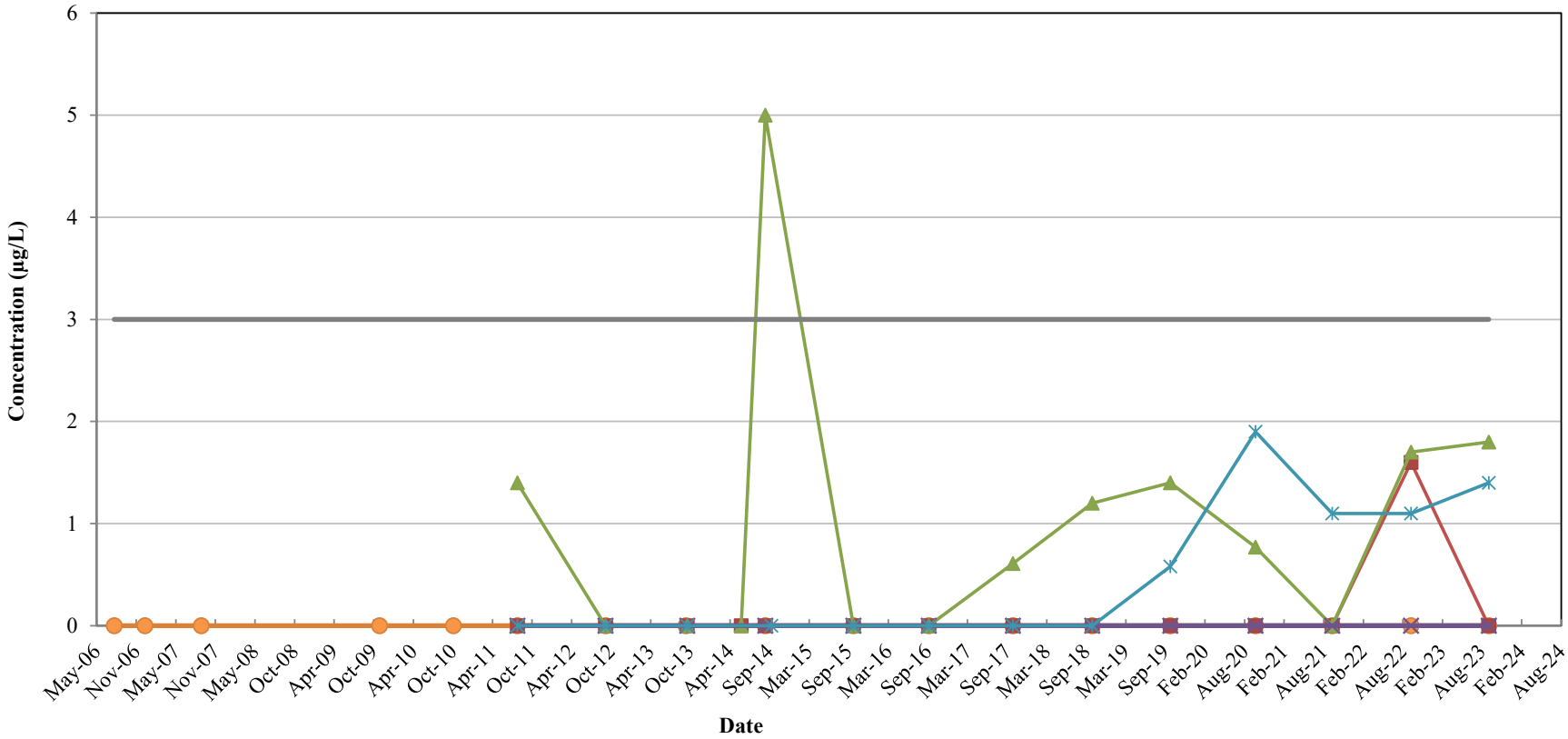
1,2-dichlorobenzene Concentration Trends

LOCATION:

Honeywell Altift Landfill
Buffalo NY, Site No. 915054

MACTEC

PREPARED	RTB	FIGURE
CHECKED BY	BJR	
PROJECT#	3616236277	5
DATE	3-13-24	



Notes:

µg/L = micrograms per liter

MW-02 Sump 1 Sump 2

Sump 3 Sump 4 NYSDEC Standard

TITLE:

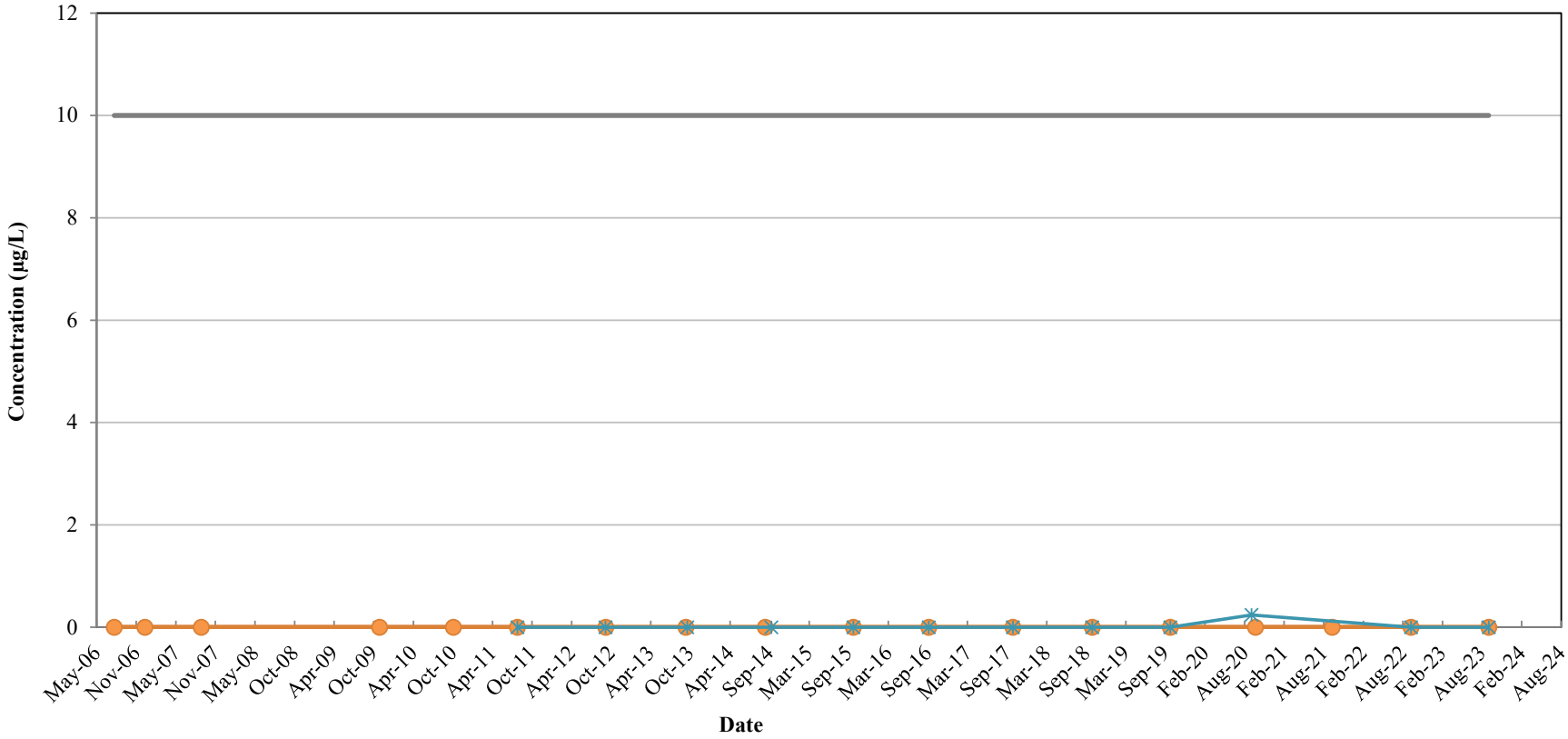
1,4-dichlorobenzene Concentration Trends

LOCATION:

Honeywell Altift Landfill
Buffalo NY, Site No. 915054

MACTEC

PREPARED	RTB	FIGURE
CHECKED BY	BJR	
PROJECT#	3616236277	6
DATE	3-13-24	



Notes:

µg/L = micrograms per liter

MW-02 Sump 1 Sump 2

Sump 3 Sump 4 NYSDEC Standard

TITLE:

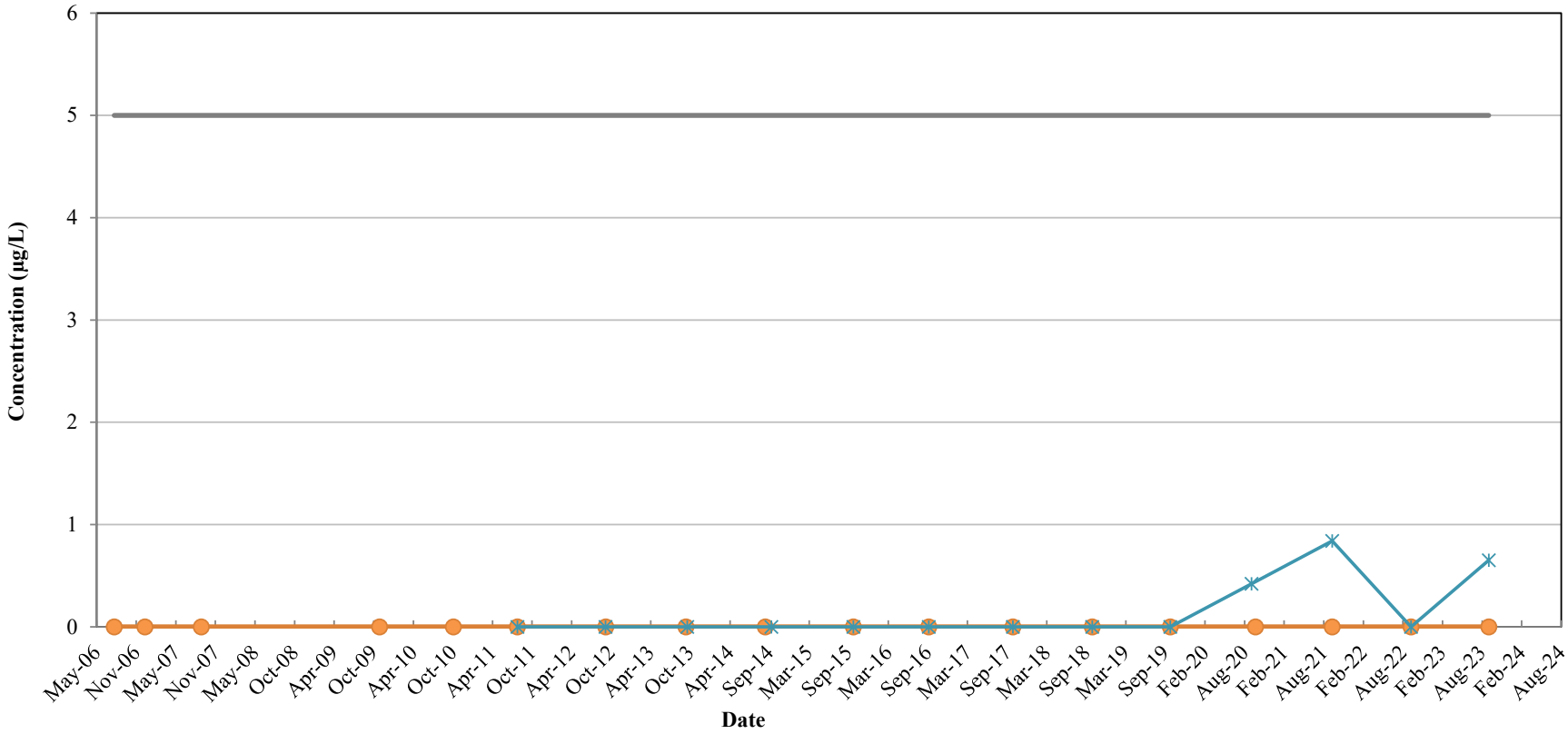
Naphthalene Concentration Trends

LOCATION:

Honeywell Altift Landfill
Buffalo NY, Site No. 915054

MACTEC

PREPARED	RTB	FIGURE
CHECKED BY	BJR	
PROJECT#	3616236277	7
DATE	3-13-24	



Notes:

µg/L = micrograms per liter

MW-02 Sump 1 Sump 2

Sump 3 Sump 4 NYSDEC Standard

TITLE:

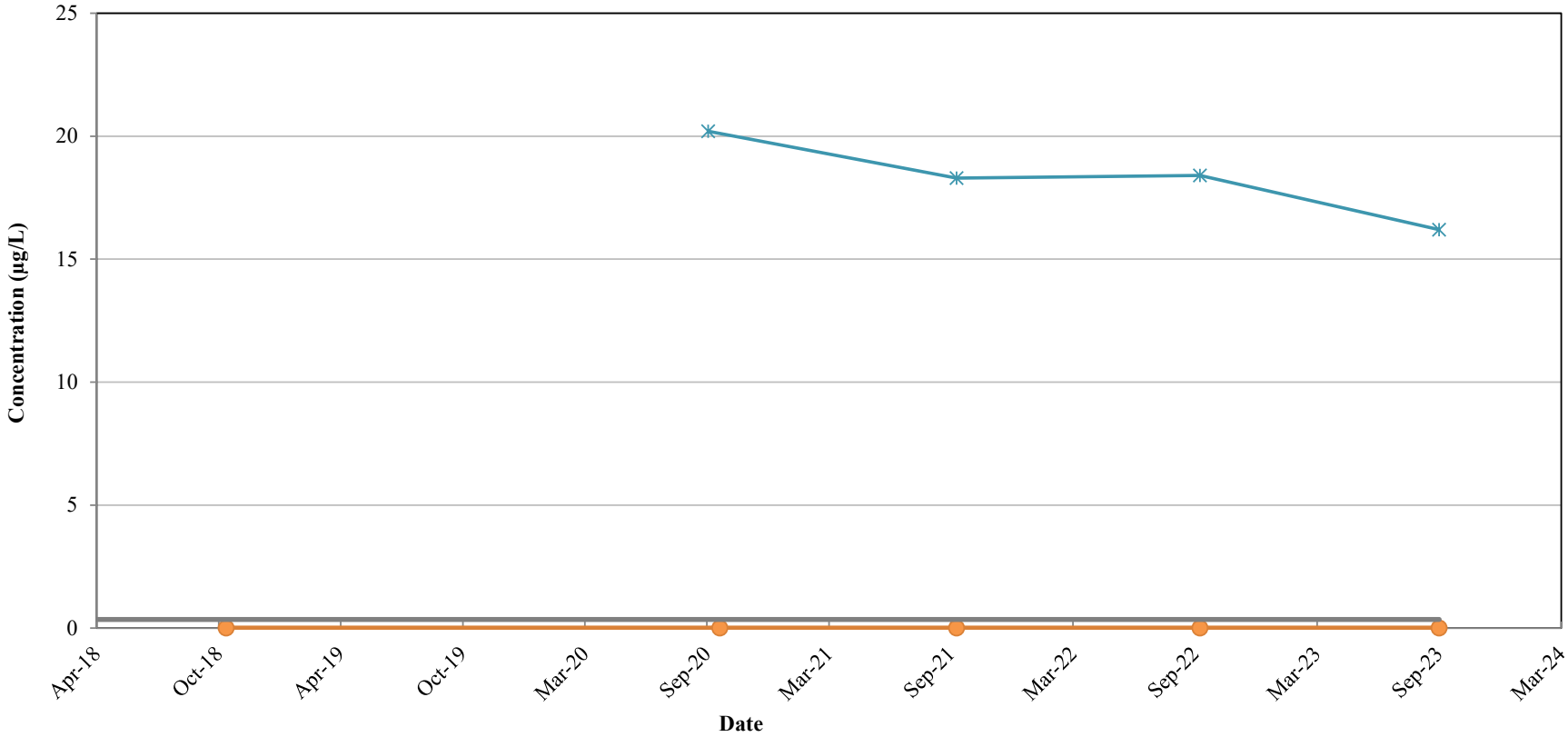
4-Chloroaniline Concentration Trends

LOCATION:

Honeywell Altift Landfill
Buffalo NY, Site No. 915054

MACTEC

PREPARED	RTB	FIGURE
CHECKED BY	BJR	
PROJECT#	3616236277	8
DATE	3-13-24	



Notes:

µg/L = micrograms per liter

MW-02 Sump 1 Sump 2

Sump 3 Sump 4 NYSDEC Standard

TITLE:

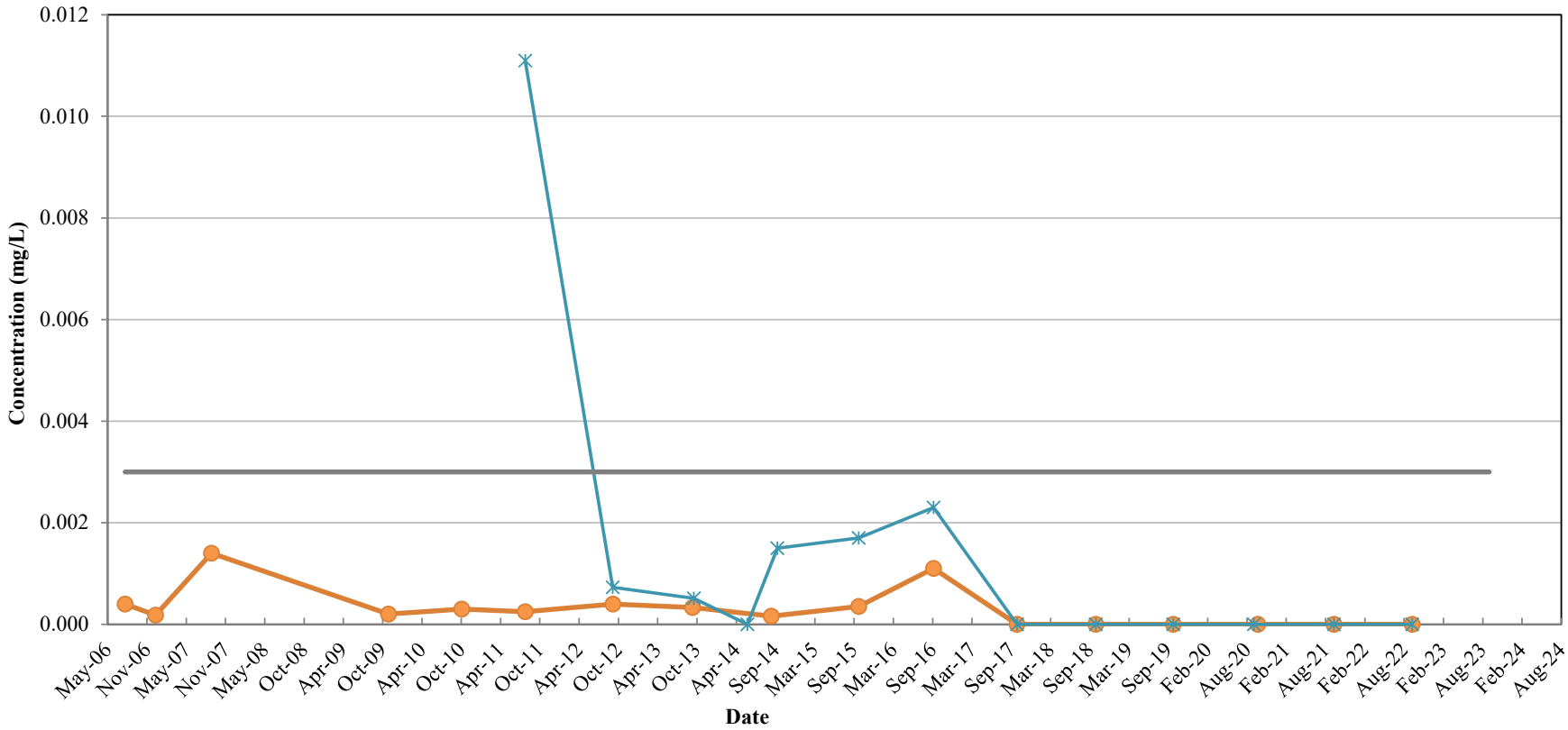
1,4-dioxane Concentration Trends

LOCATION:

Honeywell Altift Landfill
Buffalo NY, Site No. 915054

MACTEC

PREPARED	RTB	FIGURE
CHECKED BY	BJR	
PROJECT#	3616236277	9
DATE	3-13-24	



Notes:

mg/L = miligrams per liter

MW-02 Sump 1 Sump 2 Sump 3 Sump 4 NYSDEC Standard

TITLE:

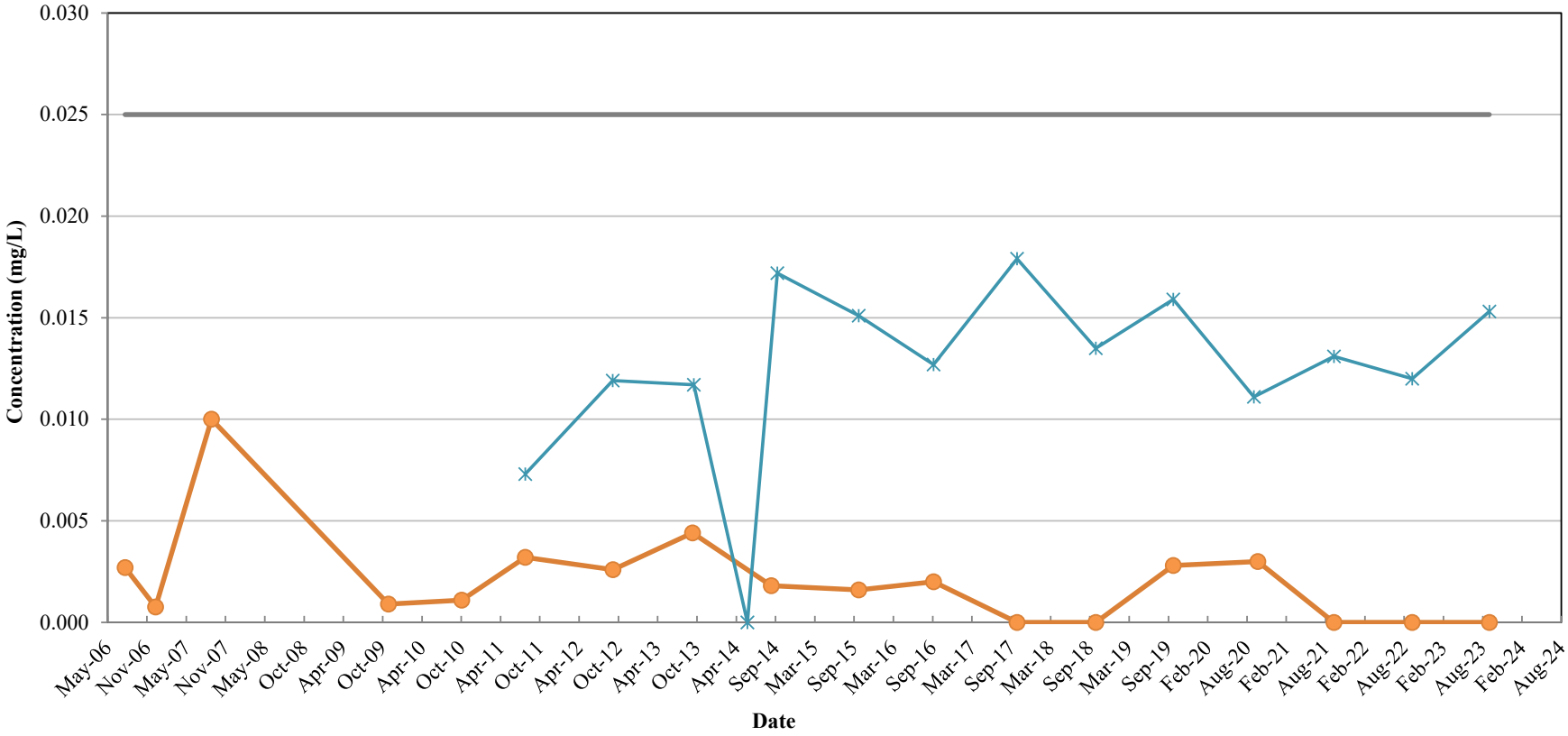
Antimony Concentration Trends

LOCATION:

Honeywell Altift Landfill
Buffalo NY, Site No. 915054

MACTEC

PREPARED	RTB	FIGURE
CHECKED BY	BJR	
PROJECT#	3616236277	10
DATE	3-13-24	



Notes:

mg/L = miligrams per liter

MW-02 Sump 1 Sump 2 Sump 3 Sump 4 NYSDEC Standard

TITLE:

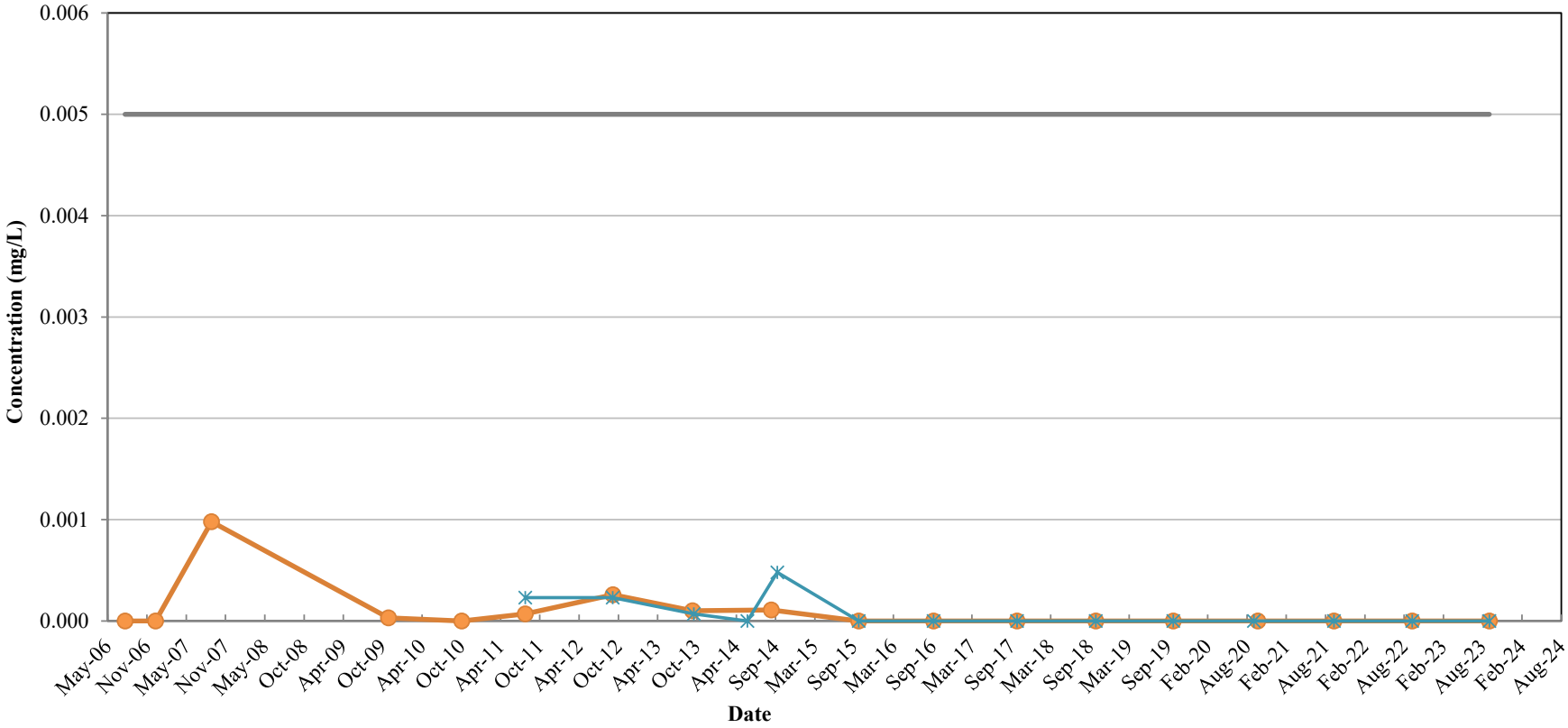
Arsenic Concentration Trends

LOCATION:

Honeywell Altift Landfill
Buffalo NY, Site No. 915054

MACTEC

PREPARED	RTB	FIGURE
CHECKED BY	BJR	
PROJECT#	3616236277	11
DATE	3-13-24	



Notes:

mg/L = miligrams per liter

MW-02 Sump 1 Sump 2

Sump 3 Sump 4 NYSDEC Standard

TITLE:

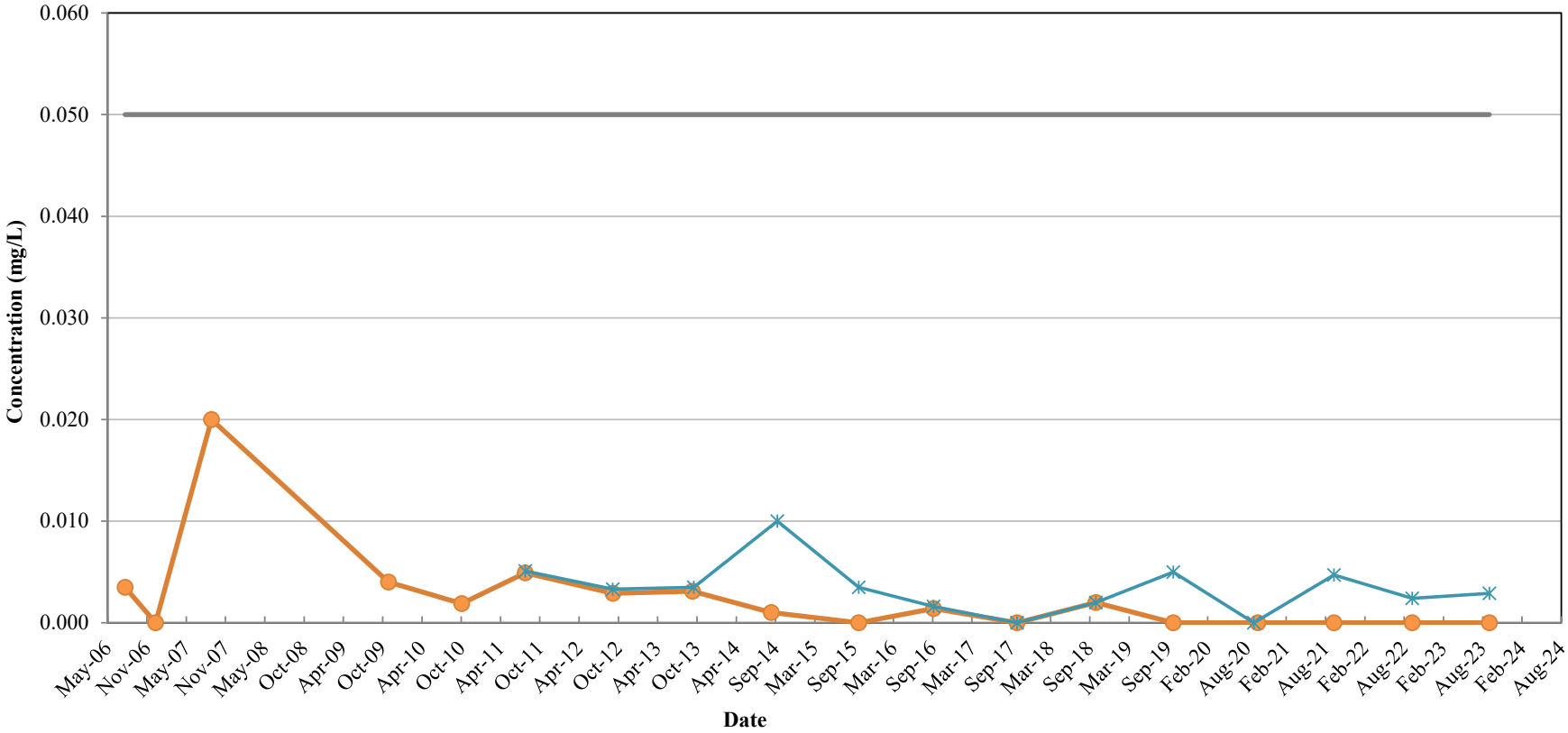
Cadmium Concentration Trends

LOCATION:

Honeywell Altift Landfill
Buffalo NY, Site No. 915054

MACTEC

PREPARED	RTB	FIGURE
CHECKED BY	BJR	
PROJECT#	3616236277	12
DATE	3-13-24	



Notes:

mg/L = miligrams per liter

MW-02 Sump 1 Sump 2

Sump 3 Sump 4 NYSDEC Standard

TITLE:

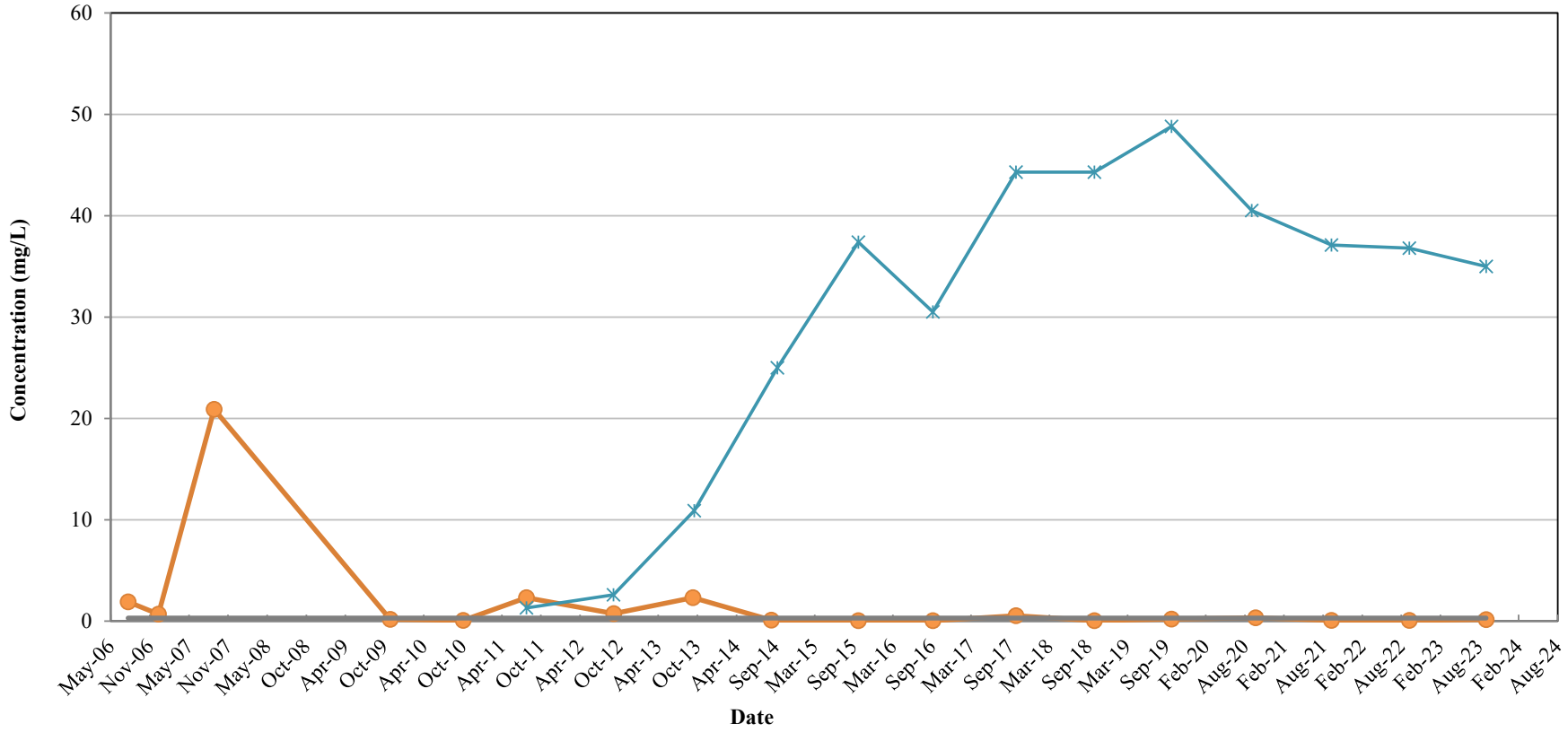
Chromium Concentration Trends

LOCATION:

Honeywell Altift Landfill
Buffalo NY, Site No. 915054

MACTEC

PREPARED	RTB	FIGURE
CHECKED BY	BJR	
PROJECT#	3616236277	13
DATE	3-13-24	



Notes:

mg/L = miligrams per liter

MW-02 Sump 1 Sump 2

Sump 3 Sump 4 NYSDEC Standard

TITLE:

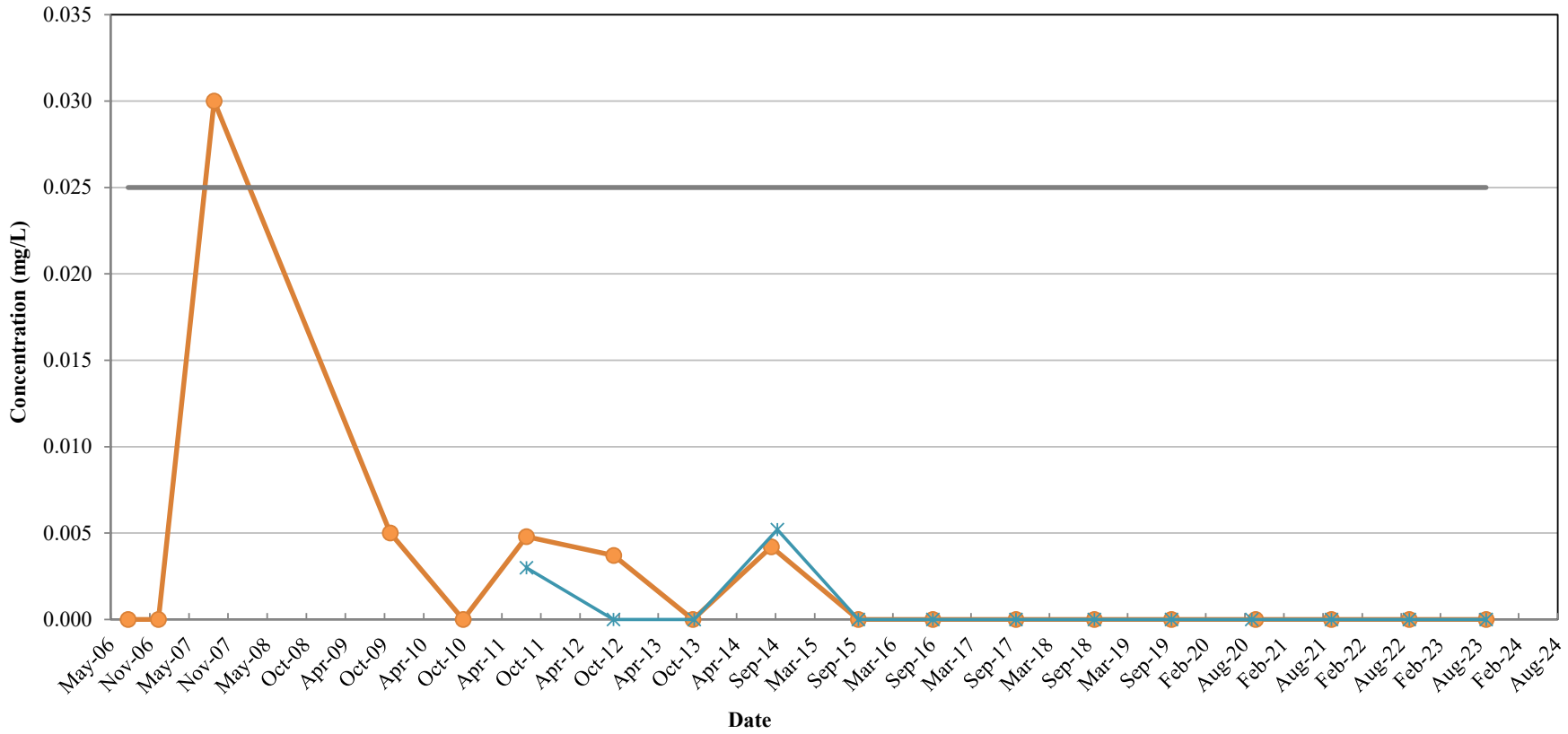
Iron Concentration Trends

LOCATION:

Honeywell Altift Landfill
Buffalo NY, Site No. 915054

MACTEC

PREPARED	RTB	FIGURE
CHECKED BY	BJR	
PROJECT#	3616236277	14
DATE	3-13-24	



Notes:

mg/L = miligrams per liter

MW-02 Sump 1 Sump 2

Sump 3 Sump 4 NYSDEC Standard

TITLE:

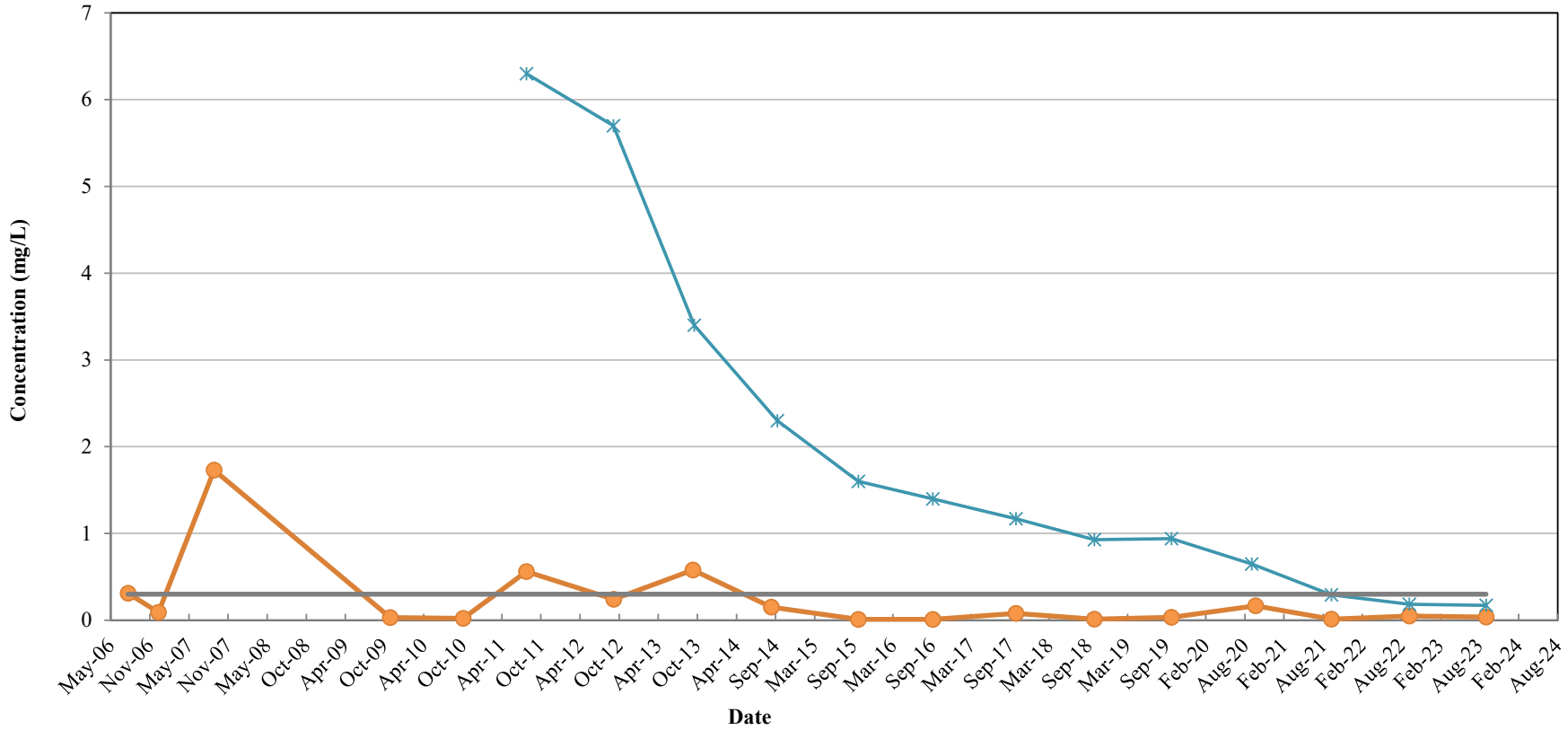
Lead Concentration Trends

LOCATION:

Honeywell Altift Landfill
Buffalo NY, Site No. 915054

MACTEC

PREPARED	RTB	FIGURE
CHECKED BY	BJR	
PROJECT#	3616236277	15
DATE	3-13-24	



Notes:

mg/L = miligrams per liter

MW-02 Sump 1 Sump 2
Sump 3 Sump 4 NYSDEC Standard

TITLE:

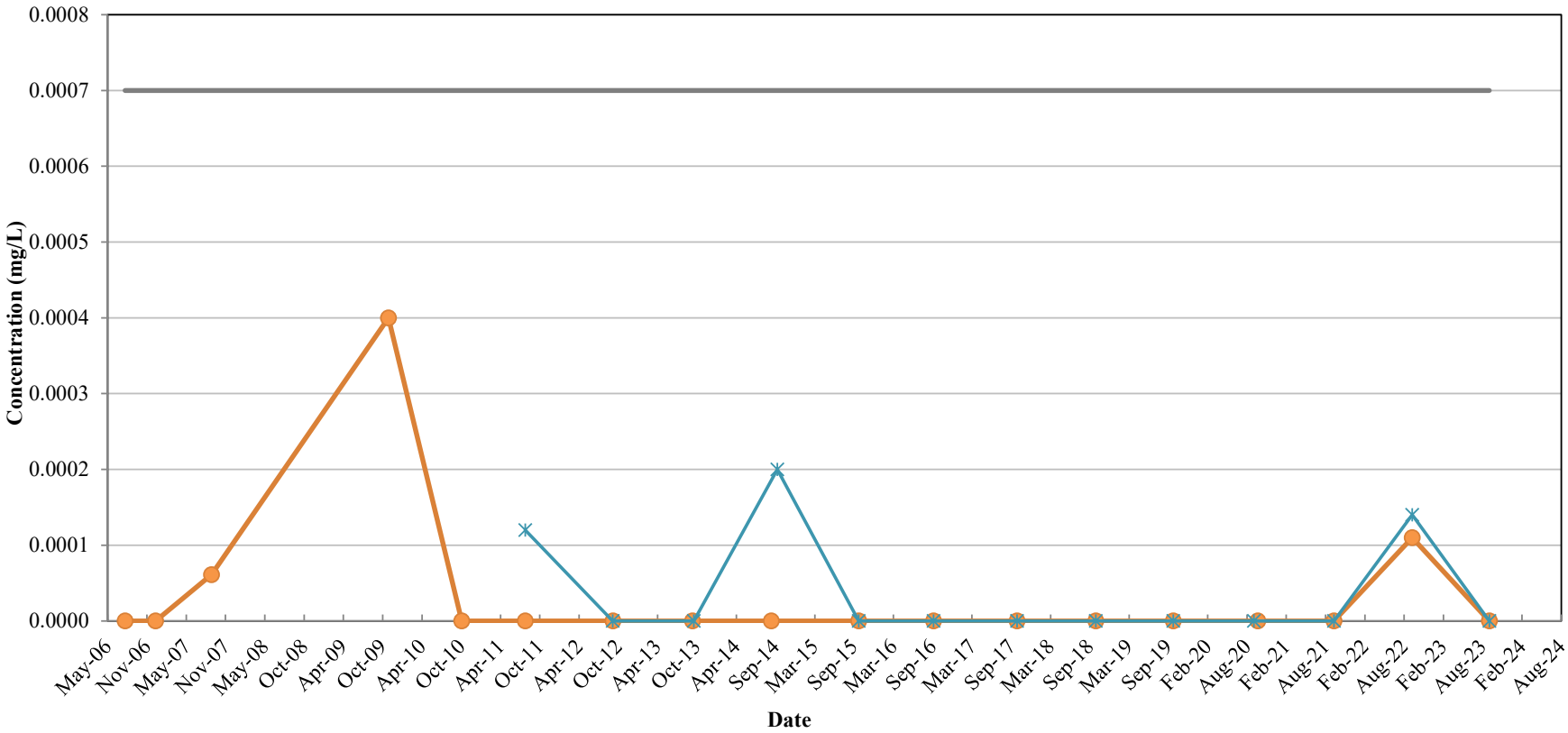
Manganese Concentration Trends

LOCATION:

Honeywell Altift Landfill
Buffalo NY, Site No. 915054

MACTEC

PREPARED	RTB	FIGURE
CHECKED BY	BJR	
PROJECT#	3616236277	16
DATE	3-13-24	



Notes:

mg/L = miligrams per liter

MW-02 Sump 1 Sump 2

Sump 3 Sump 4 NYSDEC Standard

TITLE:

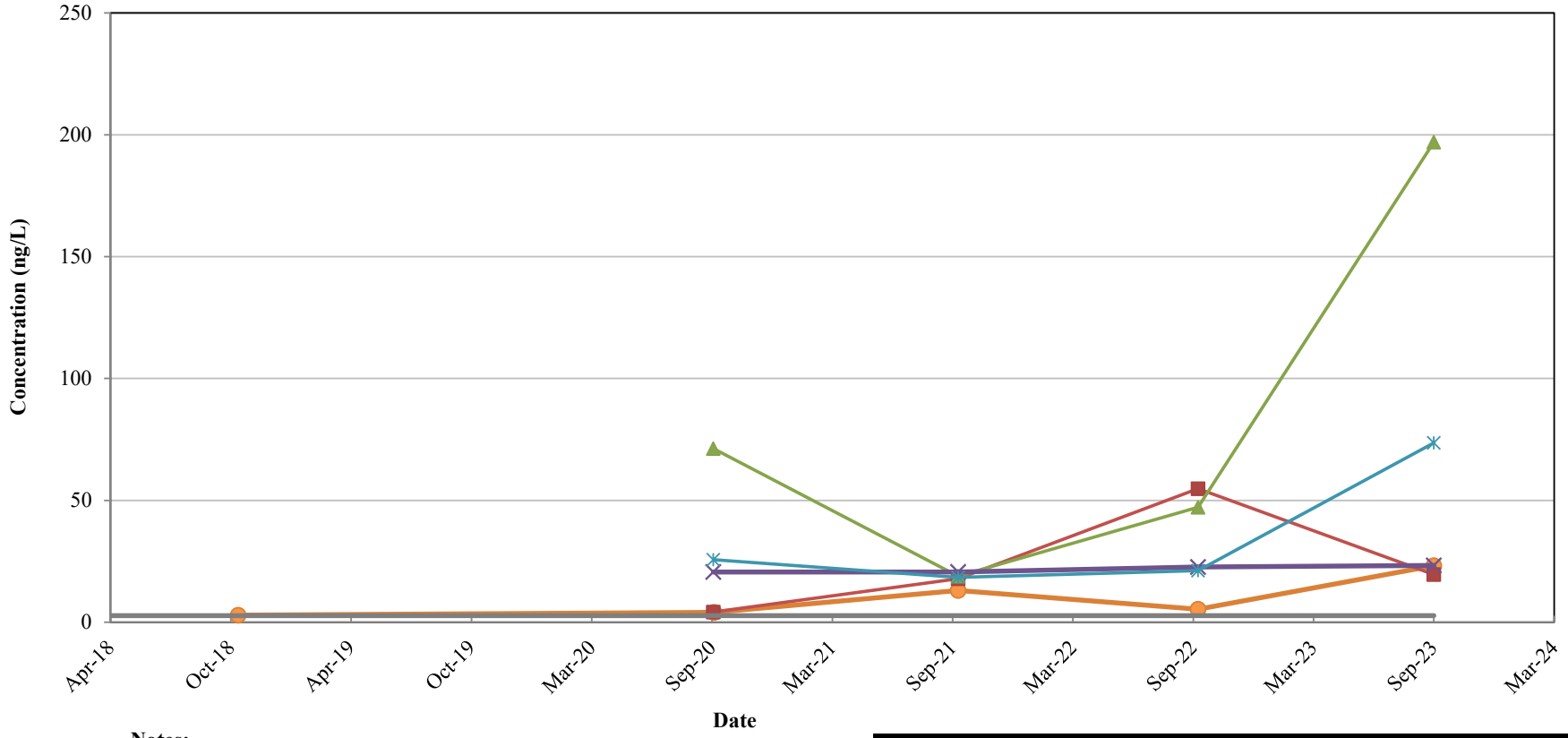
Mercury Concentration Trends

LOCATION:

Honeywell Altift Landfill
Buffalo NY, Site No. 915054

MACTEC

PREPARED	RTB	FIGURE
CHECKED BY	BJR	
PROJECT#	3616236277	17
DATE	3-13-24	



Notes:

ng/L = nanograms per liter

MW-02 Sump 1 Sump 2

Sump 3 Sump 4 NYSDEC Standard

TITLE:

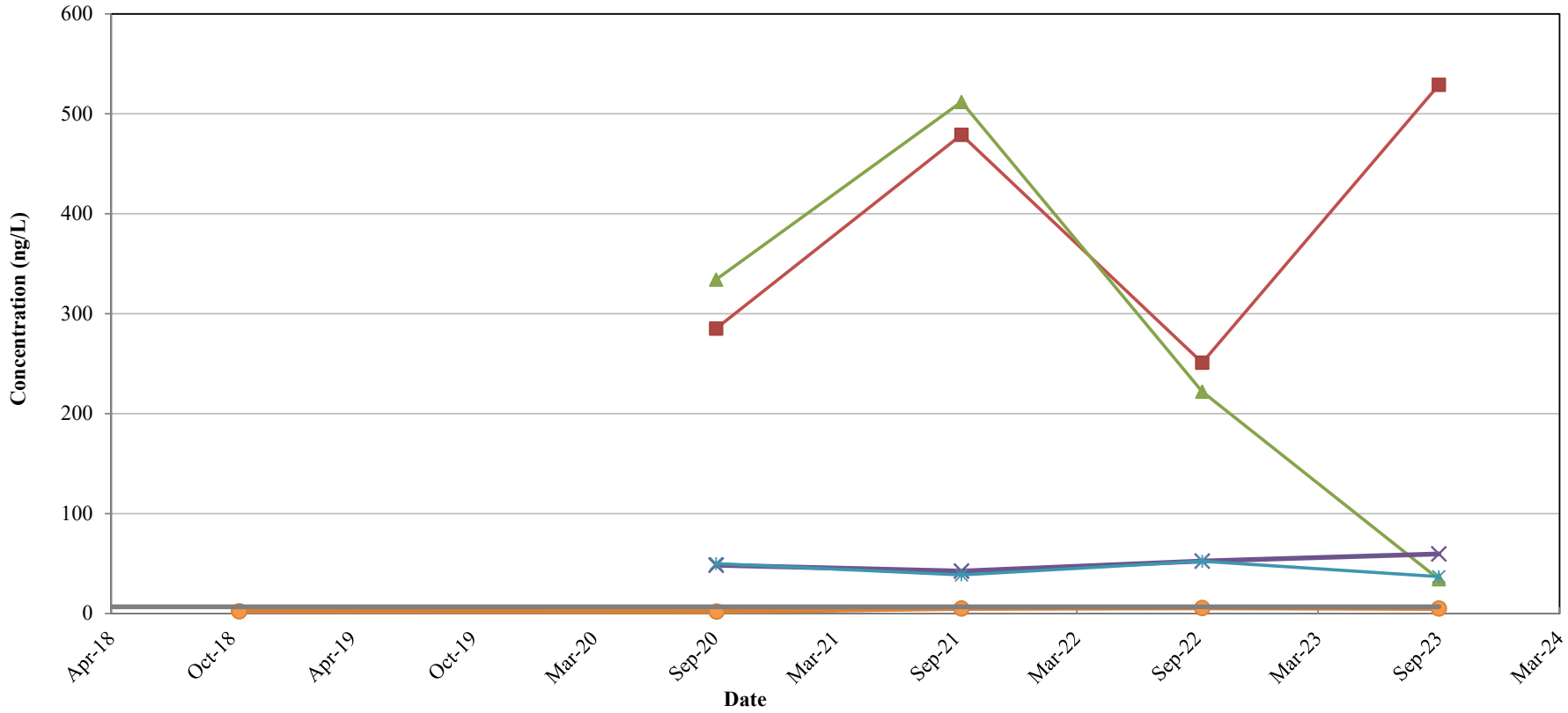
Perfluorooctane sulfonic acid (PFOS) Concentration Trends

LOCATION:

Honeywell Altift Landfill
Buffalo NY, Site No. 915054

MACTEC

PREPARED	RTB	FIGURE
CHECKED BY	BJR	
PROJECT#	3616236277	18
DATE	3-13-24	



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	FIGURE
CHECKED BY	BJR	
PROJECT#	3616236277	19
DATE	3-13-24	

ATTACHMENT B.9

LANDFILL GAS MONITORING RESULTS

TABLE 2
Landfill Gas Monitoring Data - 2021 through 2024
2023/2024 Annual OM&M Report
Alltift Landfill/Ramco Steel Site

Location:	2021 - 4/8/2021					2022 - 5/2/2022					2023 - 3/8/2023					2024 - 3/27/2024				
	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%	21.4%	78.6%	1.0%	0.7%	3.3%	13.4%	82.6%	0.1%	0%	0%	20.9%	79.1%	0%	0%	0.1%	18.9%	81.0%	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%	0%	0%	20.9%	79.1%	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%	0.1%	0.1%	20.7%	79.1%	0.02%
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%	0%	0%	21.0%	79.0%	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%	0%	0%	20.9%	79.1%	0%
Ground #3	0%	0%	20.8%	79%	0.1%	0%	0.0%	21.0%	79%	0%	0%	0%	20.9%	79.1%	0%	0%	0.1%	20.9%	79.0%	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%	0%	0.1%	20.9%	79.0%	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%	0%	0%	20.9%	79.1%	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%	0%	0%	20.9%	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%	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%	0%	0%	20.9%	79.1%	0%

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.
*Denotes LEL CH_4 values presented are calculated, as the instrument used did not provide this parameter value.

Created By:HTS/BL 4/9/2024
Checked By:RTB 4/19/2024

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? 50-100

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 10 sieve? no

Does it contain less than 10%, by weight, material that would pass a size 100 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:

One representative composite sample was collected for SVOCs, inorganics, and pesticides/PCB analyses. One representative composite sample was collected for PFAS analysis. Two (2) discrete samples were collected and analyzed for VOCs.

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.

- JD70494 - "ALLTIFT-080123-WES" - SVOC, PCBs, inorganics, pesticides, PFAS, and 1st VOC results
- JD74719 - "ALLTIFT-101223-WES" - 2nd VOC results

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, 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 and analytical reports (JD70494, JD74719).

The information provided on this form is accurate and complete.

	10/5/23
Signature	Date
Michael Fay	
Print Name	
Jacobs	
Firm	

				Client Sample ID:	ALLTIFT-080123-WES	ALLTIFT-101223-WES				
				Lab Sample ID:	JD70494-1	JD74719-1				
				Matrix:	Soil	Soil				
				Sample Date:	8/1/2023	10/12/2023				
Method Name	Analysis	Analyte	Type	Unit			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
SW846 8081B	GC/LC Semi-volatiles	4,4'-DDD	REG	ug/kg	4		14000		NC	NC
SW846 8081B	GC/LC Semi-volatiles	4,4'-DDE	REG	ug/kg	18.8		17000		NC	NC
SW846 8081B	GC/LC Semi-volatiles	4,4'-DDT	REG	ug/kg	9.5		47000		NC	NC
SW846 8081B	GC/LC Semi-volatiles	Aldrin	REG	ug/kg	ND		190		NC	NC
SW846 8082A	GC/LC Semi-volatiles	Aroclor 1016	REG	ug/kg	ND		1000		NC	NC
SW846 8082A	GC/LC Semi-volatiles	Aroclor 1221	REG	ug/kg	ND		1000		NC	NC
SW846 8082A	GC/LC Semi-volatiles	Aroclor 1232	REG	ug/kg	ND		1000		NC	NC
SW846 8082A	GC/LC Semi-volatiles	Aroclor 1242	REG	ug/kg	ND		1000		NC	NC
SW846 8082A	GC/LC Semi-volatiles	Aroclor 1248	REG	ug/kg	ND		1000		NC	NC
SW846 8082A	GC/LC Semi-volatiles	Aroclor 1254	REG	ug/kg	95.7		1000		NC	NC
SW846 8082A	GC/LC Semi-volatiles	Aroclor 1260	REG	ug/kg	39.4		1000		NC	NC
SW846 8082A	GC/LC Semi-volatiles	Aroclor 1262	REG	ug/kg	ND		1000		NC	NC
SW846 8082A	GC/LC Semi-volatiles	Aroclor 1268	REG	ug/kg	ND		1000		NC	NC
SW846 8081B	GC/LC Semi-volatiles	Dieldrin	REG	ug/kg	3.8		100		NC	NC
SW846 8081B	GC/LC Semi-volatiles	Endosulfan sulfate	REG	ug/kg	ND		200000		NC	NC
SW846 8081B	GC/LC Semi-volatiles	Endosulfan-I	REG	ug/kg	2.6		102000		NC	NC
SW846 8081B	GC/LC Semi-volatiles	Endosulfan-II	REG	ug/kg	ND		102000		NC	NC
SW846 8081B	GC/LC Semi-volatiles	Endrin	REG	ug/kg	ND		60		NC	NC
SW846 8081B	GC/LC Semi-volatiles	Endrin aldehyde	REG	ug/kg	ND		NC		NC	NC
SW846 8081B	GC/LC Semi-volatiles	Endrin ketone	REG	ug/kg	ND		NC		NC	NC
SW846 8081B	GC/LC Semi-volatiles	Heptachlor	REG	ug/kg	ND		380		NC	NC
SW846 8081B	GC/LC Semi-volatiles	Heptachlor epoxide	REG	ug/kg	7.8		NC		NC	NC
SW846 8081B	GC/LC Semi-volatiles	Methoxychlor	REG	ug/kg	ND		NC		NC	NC
SW846 8081B	GC/LC Semi-volatiles	Toxaphene	REG	ug/kg	ND		NC		NC	NC
SW846 8081B	GC/LC Semi-volatiles	alpha-BHC	REG	ug/kg	ND		20		NC	NC
SW846 8081B	GC/LC Semi-volatiles	alpha-Chlordane	REG	ug/kg	46.4		2900		NC	NC
SW846 8081B	GC/LC Semi-volatiles	beta-BHC	REG	ug/kg	ND		90		NC	NC
SW846 8081B	GC/LC Semi-volatiles	delta-BHC	REG	ug/kg	ND		250		NC	NC
SW846 8081B	GC/LC Semi-volatiles	gamma-BHC (Lindane)	REG	ug/kg	ND		100		NC	NC
SW846 8081B	GC/LC Semi-volatiles	gamma-Chlordane	REG	ug/kg	16.2		NC		NC	NC
SW846 9012B/LACHAT	General Chemistry	Cyanide	REG	mg/kg	0.21 J		27		NC	NC
SM2540 G 18TH ED MOD	General Chemistry	Solids, Percent	REG	%	85.3	86.6	NC		NC	NC
SW846 8270E	MS Semi-volatiles	1,1'-Biphenyl	REG	ug/kg	5.3 J		NC		NC	NC
SW846 8270E	MS Semi-volatiles	1,2,4,5-Tetrachlorobenzene	REG	ug/kg	ND		NC		NC	NC
SW846 8270E	MS Semi-volatiles	1,4-Dioxane	REG	ug/kg	ND		100		NC	NC
EPA DRAFT 1633	MS Semi-volatiles	11Cl-PF3OUdS (F-53B Minor)	REG	ug/kg	ND		NC		NC	NC
SW846 8270E	MS Semi-volatiles	2,2'-Oxybis(1-chloropropane)	REG	ug/kg	ND		NC		NC	NC
SW846 8270E	MS Semi-volatiles	2,3,4,6-Tetrachlorophenol	REG	ug/kg	ND		NC		NC	NC
SW846 8270E	MS Semi-volatiles	2,4,5-Trichlorophenol	REG	ug/kg	ND		NC		NC	NC
SW846 8270E	MS Semi-volatiles	2,4,6-Trichlorophenol	REG	ug/kg	ND		NC		NC	NC
SW846 8270E	MS Semi-volatiles	2,4-Dichlorophenol	REG	ug/kg	ND		NC		NC	NC
SW846 8270E	MS Semi-volatiles	2,4-Dimethylphenol	REG	ug/kg	ND		NC		NC	NC
SW846 8270E	MS Semi-volatiles	2,4-Dinitrophenol	REG	ug/kg	ND		NC		NC	NC
SW846 8270E	MS Semi-volatiles	2,4-Dinitrotoluene	REG	ug/kg	ND		NC		NC	NC
SW846 8270E	MS Semi-volatiles	2,6-Dinitrotoluene	REG	ug/kg	ND		NC		NC	NC
SW846 8270E	MS Semi-volatiles	2-Chloronaphthalene	REG	ug/kg	ND		NC		NC	NC
SW846 8270E	MS Semi-volatiles	2-Chlorophenol	REG	ug/kg	ND		NC		NC	NC
SW846 8270E	MS Semi-volatiles	2-Methylnaphthalene	REG	ug/kg	10.8 J		NC		NC	NC
SW846 8270E	MS Semi-volatiles	2-Methylphenol	REG	ug/kg	ND		330		NC	NC
SW846 8270E	MS Semi-volatiles	2-Nitroaniline	REG	ug/kg	ND		NC		NC	NC
SW846 8270E	MS Semi-volatiles	2-Nitrophenol	REG	ug/kg	ND		NC		NC	NC
SW846 8270E	MS Semi-volatiles	3&4-Methylphenol	REG	ug/kg	ND		330		NC	NC
SW846 8270E	MS Semi-volatiles	3,3'-Dichlorobenzidine	REG	ug/kg	ND		NC		NC	NC
SW846 8270E	MS Semi-volatiles	3-Nitroaniline	REG	ug/kg	ND		NC		NC	NC
EPA DRAFT 1633	MS Semi-volatiles	3:3 Fluorotelomer carboxylate	REG	ug/kg	ND		NC		NC	NC
SW846 8270E	MS Semi-volatiles	4,6-Dinitro-o-cresol	REG	ug/kg	ND		NC		NC	NC
SW846 8270E	MS Semi-volatiles	4-Bromophenyl phenyl ether	REG	ug/kg	ND		NC		NC	NC
SW846 8270E	MS Semi-volatiles	4-Chloro-3-methyl phenol	REG	ug/kg	ND		NC		NC	NC
SW846 8270E	MS Semi-volatiles	4-Chloroaniline	REG	ug/kg	ND		NC		NC	NC
SW846 8270E	MS Semi-volatiles	4-Chlorophenyl phenyl ether	REG	ug/kg	ND		NC		NC	NC
SW846 8270E	MS Semi-volatiles	4-Nitroaniline	REG	ug/kg	ND		NC		NC	NC
SW846 8270E	MS Semi-volatiles	4-Nitrophenol	REG	ug/kg	ND		NC		NC	NC
EPA DRAFT 1633	MS Semi-volatiles	4:2 Fluorotelomer sulfonate	REG	ug/kg	ND [f]		NC		NC	NC
EPA DRAFT 1633	MS Semi-volatiles	5:3 Fluorotelomer carboxylate	REG	ug/kg	ND		NC		NC	NC
EPA DRAFT 1633	MS Semi-volatiles	6:2 Fluorotelomer sulfonate	REG	ug/kg	ND [g]			NC	NC	NC
EPA DRAFT 1633	MS Semi-volatiles	7:3 Fluorotelomer carboxylate	REG	ug/kg	ND		NC		NC	NC
EPA DRAFT 1633	MS Semi-volatiles	8:2 Fluorotelomer sulfonate	REG	ug/kg	ND [f]			NC	NC	NC
EPA DRAFT 1633	MS Semi-volatiles	9Cl-PF3ONS (F-53B Major)	REG	ug/kg	ND [g]		NC		NC	NC
EPA DRAFT 1633	MS Semi-volatiles	ADONA	REG	ug/kg	ND [g]		NC		NC	NC
SW846 8270E	MS Semi-volatiles	Acenaphthene	REG	ug/kg	ND		98000		NC	NC
SW846 8270E	MS Semi-volatiles	Acenaphthylene	REG	ug/kg	ND		107000		NC	NC
SW846 8270E	MS Semi-volatiles	Acetophenone	REG	ug/kg	ND		NC		NC	NC
SW846 8270E	MS Semi-volatiles	Anthracene	REG	ug/kg	35.2 J		500000		NC	NC
SW846 8270E	MS Semi-volatiles	Atrazine	REG	ug/kg	ND		NC		NC	NC
SW846 8270E	MS Semi-volatiles	Benzaldehyde	REG	ug/kg	ND		NC		NC	NC
SW846 8270E	MS Semi-volatiles	Benzo(a)anthracene	REG	ug/kg	184		1000		NC	NC
SW846 8270E	MS Semi-volatiles	Benzo(a)pyrene	REG	ug/kg	209		1000		NC	NC
SW846 8270E	MS Semi-volatiles	Benzo(b)fluoranthene	REG	ug/kg	269		1700		NC	NC
SW846 8270E	MS Semi-volatiles	Benzo(g,h,i)perylene	REG	ug/kg	108		500000		NC	NC
SW846 8270E	MS Semi-volatiles	Benzo(k)fluoranthene	REG	ug/kg	103		1700		NC	NC
SW846 8270E	MS Semi-volatiles	Butyl benzyl phthalate	REG	ug/kg	ND		NC		NC	NC
SW846 8270E	MS Semi-volatiles	Caprolactam	REG	ug/kg	ND		NC		NC	NC
SW846 8270E	MS Semi-volatiles	Carbazole	REG	ug/kg	21.2 J		NC		NC	NC
SW846 8270E	MS Semi-volatiles	Chrysene	REG	ug/kg	213		1000		NC	NC
SW846 8270E	MS Semi-volatiles	Di-n-butyl phthalate	REG	ug/kg	32.5 J		NC		NC	NC
SW846 8270E	MS Semi-volatiles	Di-n-octyl phthalate	REG	ug/kg	ND		NC		NC	NC
SW846 8270E	MS Semi-volatiles	Dibenzo(a,h)anthracene	REG	ug/kg	38.1 J		560		NC	NC
SW846 8270E	MS Semi-volatiles	Dibenzofuran	REG	ug/kg	ND		210000		NC	NC
SW846 8270E	MS Semi-volatiles	Diethyl phthalate	REG	ug/kg	ND		NC		NC	NC
SW846 8270E	MS Semi-volatiles	Dimethyl phthalate	REG	ug/kg	ND		NC		NC	NC
EPA DRAFT 1633	MS Semi-volatiles	EtFOSA	REG	ug/kg	ND			NC	NC	NC
EPA DRAFT 1633	MS Semi-volatiles	EtFOSAA	REG	ug/kg	ND			NC	NC	NC
EPA DRAFT 1633	MS Semi-volatiles	EtFOSE	REG	ug/kg	ND			NC	NC	NC
SW846 8270E	MS Semi-volatiles	Fluoranthene	REG	ug/kg	454		500000		NC	NC

Method Name	Analysis	Analyte	Type	Unit			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
SW846 8270E	MS Semi-volatiles	Fluorene	REG	ug/kg	ND		386000		NC	NC
EPA DRAFT 1633	MS Semi-volatiles	HFPO-DA (GenX)	REG	ug/kg	ND		NC		NC	NC
SW846 8270E	MS Semi-volatiles	Hexachlorobenzene	REG	ug/kg	ND		3200		NC	NC
SW846 8270E	MS Semi-volatiles	Hexachlorobutadiene	REG	ug/kg	ND		NC		NC	NC
SW846 8270E	MS Semi-volatiles	Hexachlorocyclopentadiene	REG	ug/kg	ND		NC		NC	NC
SW846 8270E	MS Semi-volatiles	Hexachloroethane	REG	ug/kg	ND		NC		NC	NC
SW846 8270E	MS Semi-volatiles	Indeno(1,2,3-cd)pyrene	REG	ug/kg	132		5600		NC	NC
SW846 8270E	MS Semi-volatiles	Isophorone	REG	ug/kg	ND		NC		NC	NC
EPA DRAFT 1633	MS Semi-volatiles	MeFOSA	REG	ug/kg	ND		NC		NC	NC
EPA DRAFT 1633	MS Semi-volatiles	MeFOSAA	REG	ug/kg	ND			NC	NC	NC
EPA DRAFT 1633	MS Semi-volatiles	MeFOSE	REG	ug/kg	ND		NC		NC	NC
SW846 8270E	MS Semi-volatiles	N-Nitroso-di-n-propylamine	REG	ug/kg	ND		NC		NC	NC
SW846 8270E	MS Semi-volatiles	N-Nitrosodiphenylamine	REG	ug/kg	ND		NC		NC	NC
EPA DRAFT 1633	MS Semi-volatiles	NFDHA	REG	ug/kg	ND		NC		NC	NC
SW846 8270E	MS Semi-volatiles	Naphthalene	REG	ug/kg	25.2 JB		12000		NC	NC
SW846 8270E	MS Semi-volatiles	Nitrobenzene	REG	ug/kg	ND		NC		69000	140000
EPA DRAFT 1633	MS Semi-volatiles	PFEESA	REG	ug/kg	ND			NC	NC	NC
EPA DRAFT 1633	MS Semi-volatiles	PFMBA	REG	ug/kg	ND			NC	NC	NC
EPA DRAFT 1633	MS Semi-volatiles	PFMPA	REG	ug/kg	ND			NC	NC	NC
EPA DRAFT 1633	MS Semi-volatiles	PFOSA	REG	ug/kg	ND			NC	NC	NC
SW846 8270E	MS Semi-volatiles	Pentachlorophenol	REG	ug/kg	ND		800		NC	NC
EPA DRAFT 1633	MS Semi-volatiles	Perfluorobutanesulfonic acid	REG	ug/kg	ND			NC	NC	NC
EPA DRAFT 1633	MS Semi-volatiles	Perfluorobutanoic acid	REG	ug/kg	ND			NC	NC	NC
EPA DRAFT 1633	MS Semi-volatiles	Perfluorodecanesulfonic acid	REG	ug/kg	ND			NC	NC	NC
EPA DRAFT 1633	MS Semi-volatiles	Perfluorodecanoic acid	REG	ug/kg	ND			NC	NC	NC
EPA DRAFT 1633	MS Semi-volatiles	Perfluorododecanesulfonic acid	REG	ug/kg	ND			NC	NC	NC
EPA DRAFT 1633	MS Semi-volatiles	Perfluorododecanoic acid	REG	ug/kg	ND			NC	NC	NC
EPA DRAFT 1633	MS Semi-volatiles	Perfluoroheptanesulfonic acid	REG	ug/kg	ND			NC	NC	NC
EPA DRAFT 1633	MS Semi-volatiles	Perfluoroheptanoic acid	REG	ug/kg	ND			NC	NC	NC
EPA DRAFT 1633	MS Semi-volatiles	Perfluorohexanesulfonic acid	REG	ug/kg	ND			NC	NC	NC
EPA DRAFT 1633	MS Semi-volatiles	Perfluorohexanoic acid	REG	ug/kg	0.12 J			NC	NC	NC
EPA DRAFT 1633	MS Semi-volatiles	Perfluorononanesulfonic acid	REG	ug/kg	ND			NC	NC	NC
EPA DRAFT 1633	MS Semi-volatiles	Perfluorononanoic acid	REG	ug/kg	0.13 J			NC	NC	NC
EPA DRAFT 1633	MS Semi-volatiles	Perfluorooctanesulfonic acid	REG	ug/kg	1.8			440	NC	NC
EPA DRAFT 1633	MS Semi-volatiles	Perfluorooctanoic acid	REG	ug/kg	0.5			500	NC	NC
EPA DRAFT 1633	MS Semi-volatiles	Perfluoropentanesulfonic acid	REG	ug/kg	ND			NC	NC	NC
EPA DRAFT 1633	MS Semi-volatiles	Perfluoropentanoic acid	REG	ug/kg	ND			NC	NC	NC
EPA DRAFT 1633	MS Semi-volatiles	Perfluorotetradecanoic acid	REG	ug/kg	ND			NC	NC	NC
EPA DRAFT 1633	MS Semi-volatiles	Perfluorotridecanoic acid	REG	ug/kg	ND			NC	NC	NC
EPA DRAFT 1633	MS Semi-volatiles	Perfluoroundecanoic acid	REG	ug/kg	ND			NC	NC	NC
SW846 8270E	MS Semi-volatiles	Phenanthrene	REG	ug/kg	135		500000		NC	NC
SW846 8270E	MS Semi-volatiles	Phenol	REG	ug/kg	ND		330		NC	NC
SW846 8270E	MS Semi-volatiles	Pyrene	REG	ug/kg	397		500000		NC	NC
SW846 8270E	MS Semi-volatiles	bis(2-Chloroethoxy)methane	REG	ug/kg	ND		NC		NC	NC
SW846 8270E	MS Semi-volatiles	bis(2-Chloroethyl)ether	REG	ug/kg	ND		NC		NC	NC
SW846 8270E	MS Semi-volatiles	bis(2-Ethylhexyl)phthalate	REG	ug/kg	20.6 J		NC		NC	NC
SW846 8260D	MS Volatiles	1,1,1-Trichloroethane	REG	ug/kg	ND		680		NC	NC
SW846 8260D	MS Volatiles	1,1,2,2-Tetrachloroethane	REG	ug/kg	ND		NC		NC	NC
SW846 8260D	MS Volatiles	1,1,2-Trichloroethane	REG	ug/kg	ND		NC		NC	NC
SW846 8260D	MS Volatiles	1,1-Dichloroethane	REG	ug/kg	ND		270		NC	NC
SW846 8260D	MS Volatiles	1,1-Dichloroethene	REG	ug/kg	ND		330		NC	NC
SW846 8260D	MS Volatiles	1,2,3-Trichlorobenzene	REG	ug/kg	ND		NC		NC	NC
SW846 8260D	MS Volatiles	1,2,4-Trichlorobenzene	REG	ug/kg	ND		NC		NC	NC
SW846 8260D	MS Volatiles	1,2-Dibromo-3-chloropropane	REG	ug/kg	ND		NC		NC	NC
SW846 8260D	MS Volatiles	1,2-Dibromoethane	REG	ug/kg	ND		NC		NC	NC
SW846 8260D	MS Volatiles	1,2-Dichlorobenzene	REG	ug/kg	ND		1100		NC	NC
SW846 8260D	MS Volatiles	1,2-Dichloroethane	REG	ug/kg	ND		20		NC	NC
SW846 8260D	MS Volatiles	1,2-Dichloropropane	REG	ug/kg	ND		NC		NC	NC
SW846 8260D	MS Volatiles	1,3-Dichlorobenzene	REG	ug/kg	ND		2400		NC	NC
SW846 8260D	MS Volatiles	1,4-Dichlorobenzene	REG	ug/kg	ND		1800		NC	NC
SW846 8260D	MS Volatiles	2-Butanone (MEK)	REG	ug/kg	ND		120		NC	NC
SW846 8260D	MS Volatiles	2-Hexanone	REG	ug/kg	ND		NC		NC	NC
SW846 8260D	MS Volatiles	4-Methyl-2-pentanone(MIBK)	REG	ug/kg	ND		NC		NC	NC
SW846 8260D	MS Volatiles	Acetone	REG	ug/kg	ND	ND	50		NC	NC
SW846 8260D	MS Volatiles	Benzene	REG	ug/kg	ND	ND	60		NC	NC
SW846 8260D	MS Volatiles	Bromochloromethane	REG	ug/kg	ND	ND	NC		NC	NC
SW846 8260D	MS Volatiles	Bromodichloromethane	REG	ug/kg	ND	ND	NC		NC	NC
SW846 8260D	MS Volatiles	Bromoform	REG	ug/kg	ND	ND	NC		NC	NC
SW846 8260D	MS Volatiles	Bromomethane	REG	ug/kg	ND	ND	NC		NC	NC
SW846 8260D	MS Volatiles	Carbon disulfide	REG	ug/kg	ND	ND	NC		NC	NC
SW846 8260D	MS Volatiles	Carbon tetrachloride	REG	ug/kg	ND	ND	760		NC	NC
SW846 8260D	MS Volatiles	Chlorobenzene	REG	ug/kg	ND	ND	1100		NC	NC
SW846 8260D	MS Volatiles	Chloroethane	REG	ug/kg	ND	ND	NC		NC	NC
SW846 8260D	MS Volatiles	Chloroform	REG	ug/kg	ND	ND	370		NC	NC
SW846 8260D	MS Volatiles	Chloromethane	REG	ug/kg	ND	ND	NC		NC	NC
SW846 8260D	MS Volatiles	Cyclohexane	REG	ug/kg	ND	ND	NC		NC	NC
SW846 8260D	MS Volatiles	Dibromochloromethane	REG	ug/kg	ND	ND	NC		NC	NC
SW846 8260D	MS Volatiles	Dichlorodifluoromethane	REG	ug/kg	ND	ND	NC		NC	NC
SW846 8260D	MS Volatiles	Ethylbenzene	REG	ug/kg	ND	ND	1000		NC	NC
SW846 8260D	MS Volatiles	Freon 113	REG	ug/kg	ND	ND	NC		NC	NC
SW846 8260D	MS Volatiles	Isopropylbenzene	REG	ug/kg	ND	ND	NC		NC	NC
SW846 8260D	MS Volatiles	Methyl Acetate	REG	ug/kg	ND	ND	NC		NC	NC
SW846 8260D	MS Volatiles	Methyl Tert Butyl Ether	REG	ug/kg	ND	ND	930		NC	NC
SW846 8260D	MS Volatiles	Methylcyclohexane	REG	ug/kg	ND	ND	NC		NC	NC
SW846 8260D	MS Volatiles	Methylene chloride	REG	ug/kg	ND	ND	50		NC	NC
SW846 8260D	MS Volatiles	Styrene	REG	ug/kg	ND	ND	NC		NC	NC
SW846 8260D	MS Volatiles	Tetrachloroethene	REG	ug/kg	ND	ND	1300		NC	NC
SW846 8260D	MS Volatiles	Toluene	REG	ug/kg	ND	ND	700		NC	NC
SW846 8260D	MS Volatiles	Trichloroethene	REG	ug/kg	ND	ND	470		NC	NC
SW846 8260D	MS Volatiles	Trichlorofluoromethane	REG	ug/kg	ND	ND	NC		NC	NC
SW846 8260D	MS Volatiles	Vinyl chloride	REG	ug/kg	ND	ND	20		NC	NC
SW846 8260D	MS Volatiles	Xylene (total)	REG	ug/kg	ND	ND	1600		NC	NC
SW846 8260D	MS Volatiles	cis-1,2-Dichloroethene	REG	ug/kg	ND	ND	250		NC	NC
SW846 8260D	MS Volatiles	cis-1,3-Dichloropropene	REG	ug/kg	ND	ND	NC		NC	NC
SW846 8260D	MS Volatiles	m,p-Xylene	REG	ug/kg	ND	ND	1600		NC	NC
SW846 8260D	MS Volatiles	o-Xylene	REG	ug/kg	ND	ND	1600		NC	NC
SW846 8260D	MS Volatiles	trans-1,2-Dichloroethene	REG	ug/kg	ND	ND	190		NC	NC
SW846 8260D	MS Volatiles	trans-1,3-Dichloropropene	REG	ug/kg	ND	ND	NC		NC	NC

Method Name	Analysis	Analyte	Type	Unit			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
SW846 6010D	Metals Analysis	Aluminum	REG	mg/kg	12000		NC		NC	NC
SW846 6010D	Metals Analysis	Antimony	REG	mg/kg	ND		NC		NC	NC
SW846 6010D	Metals Analysis	Arsenic	REG	mg/kg	5.9		16		NC	NC
SW846 6010D	Metals Analysis	Barium	REG	mg/kg	78.9		400		NC	NC
SW846 6010D	Metals Analysis	Beryllium	REG	mg/kg	0.69		47		NC	NC
SW846 6010D	Metals Analysis	Cadmium	REG	mg/kg	0.46 J		7.5		NC	NC
SW846 6010D	Metals Analysis	Calcium	REG	mg/kg	27700		NC		NC	NC
SW846 6010D	Metals Analysis	Chromium	REG	mg/kg	18.9		19		NC	NC
SW846 6010D	Metals Analysis	Cobalt	REG	mg/kg	7.7		NC		NC	NC
SW846 6010D	Metals Analysis	Copper	REG	mg/kg	25.1		270		NC	NC
SW846 6010D	Metals Analysis	Iron	REG	mg/kg	18200		NC		NC	NC
SW846 6010D	Metals Analysis	Lead	REG	mg/kg	47.2		450		NC	NC
SW846 6010D	Metals Analysis	Magnesium	REG	mg/kg	9980		NC		NC	NC
SW846 6010D	Metals Analysis	Manganese	REG	mg/kg	463		2000		NC	NC
SW846 7471B	Metals Analysis	Mercury	REG	mg/kg	0.092		0.73		NC	NC
SW846 6010D	Metals Analysis	Nickel	REG	mg/kg	19.8		130		NC	NC
SW846 6010D	Metals Analysis	Potassium	REG	mg/kg	1950		NC		NC	NC
SW846 6010D	Metals Analysis	Selenium	REG	mg/kg	1.8 J		4		NC	NC
SW846 6010D	Metals Analysis	Silver	REG	mg/kg	0.58 J		8.3		NC	NC
SW846 6010D	Metals Analysis	Sodium	REG	mg/kg	171 J		NC		NC	NC
SW846 6010D	Metals Analysis	Thallium	REG	mg/kg	ND		NC		NC	NC
SW846 6010D	Metals Analysis	Vanadium	REG	mg/kg	25.3		NC		NC	NC
SW846 6010D	Metals Analysis	Zinc	REG	mg/kg	177		2480		NC	NC

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

HW PO# A001457165

SGS Job Number: JD70494

Sampling Date: 08/01/23



Report to:

WSP USA Environment & Infrastructure Inc
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Portland, ME 04112
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ATTN: Ryan Belcher

Total number of pages in report: **146**

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 unless noted in the narrative, comments or footnotes.

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: JD70494

HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Project No: HW PO# A001457165

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD70494-1	08/01/23	10:00	BH	08/04/23	SO	Soil	ALLTIFT-080123-WES
JD70494-1A	08/01/23	10:00	BH	08/04/23	SO	Soil	ALLTIFT-080123-WES
JD70494-2	08/01/23	11:00	BH	08/04/23	SO	Soil	ALLTIFT-080123-CTS
JD70494-2A	08/01/23	11:00	BH	08/04/23	SO	Soil	ALLTIFT-080123-CTS
JD70494-3	08/01/23	13:00	BH	08/04/23	SO	Soil	ALLTIFT-080123-SS
JD70494-3A	08/01/23	13:00	BH	08/04/23	SO	Soil	ALLTIFT-080123-SS

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:**	JD70494
Site:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY	**Report Date**	8/22/2023 4:58:23 PM

On 08/04/2023, 6 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 4.3 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of JD70494 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: SO **Batch ID:** VI10201

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD70398-1MS, JD70398-2DUP were used as the QC samples indicated.
- VI10201-BSD for trans-1,2-Dichloroethene: Outside in house control limits.
- VI10201-BSD for Isopropylbenzene: Outside in house control limits.
- VI10201-BSD for Styrene: Outside in house control limits.
- JD70494-3 for Acetone: Associated CCV outside of control limits high, sample was ND.
- VI10201-BSD for Trichloroethene: Outside in house control limits.
- JD70494-1 for 2-Butanone (MEK): Associated CCV outside of control limits high, sample was ND.
- JD70494-1 for 2-Hexanone: Associated CCV outside of control limits high, sample was ND.
- JD70494-1 for Acetone: Associated CCV outside of control limits high, sample was ND.
- JD70494-2 for 2-Butanone (MEK): Associated CCV outside of control limits high, sample was ND.
- JD70494-2 for 2-Hexanone: Associated CCV outside of control limits high, sample was ND.
- JD70494-2 for Acetone: Associated CCV outside of control limits high, sample was ND.
- JD70494-3 for 2-Butanone (MEK): Associated CCV outside of control limits high, sample was ND.
- JD70494-3 for 2-Hexanone: Associated CCV outside of control limits high, sample was ND.
- VI10201-BSD for m,p-Xylene: Outside in house control limits.

MS Semi-volatiles By Method EPA DRAFT 1633

Matrix: SO **Batch ID:** F:OP98332

- The data for EPA DRAFT 1633 meets quality control requirements.
- JD70494-3A: Analysis performed at SGS Orlando, FL.
- JD70494-1A: Analysis performed at SGS Orlando, FL.
- JD70494-2A: Analysis performed at SGS Orlando, FL.
- JD70494-1A for 6:2 Fluorotelomer sulfonate: Associated BS outside control limits high, sample was ND.
- JD70494-1A for 4:2 Fluorotelomer sulfonate: Associated Low Level BS outside of control limits high, sample was ND.
- JD70494-2A for 6:2 Fluorotelomer sulfonate: Associated BS outside control limits high, sample was ND.
- JD70494-2A for 4:2 Fluorotelomer sulfonate: Associated Low Level BS outside of control limits high, sample was ND.
- JD70494-3A for 4:2 Fluorotelomer sulfonate: Associated Low Level BS outside of control limits high, sample was ND.
- JD70494-3A for 6:2 Fluorotelomer sulfonate: Associated BS outside control limits high, sample was ND.

MS Semi-volatiles By Method SW846 8270E

Matrix: SO **Batch ID:** OP48277

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) JD70539-2MS, JD70539-2MSD were used as the QC samples indicated.
- Sample(s) JD70494-1, JD70494-2, JD70494-3 have compound(s) reported with a “B” qualifier, indicating analyte is found in the associated method blank. Detected in the Method blank but below the reporting limit level.
- JD70494-2 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD70494-3 for 4-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD70494-3 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD70494-3 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD70494-3 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD70494-3 for 2,4-Dinitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD70494-2 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD70494-2 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD70494-2 for 2,4-Dinitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD70494-1 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD70494-1 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD70494-1 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD70494-1 for 4-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD70494-2 for 4-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD70494-1 for 2,4-Dinitrophenol: Associated CCV outside of control limits high, sample was ND.

GC/LC Semi-volatiles By Method SW846 8081B

Matrix: SO **Batch ID:** OP48280

- All samples were extracted 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) JD70539-1MS, JD70539-1MSD, OP48280-MSMSD were used as the QC samples indicated.
- The RPD(s) for the MS and MSD recoveries of Endrin are outside control limits for sample OP48280-MSD. Probable cause due to sample homogeneity.
- OP48280-BS1 for alpha-BHC: Reported from the 1st signal. Internal standard outside the limits on the 2nd signal.
- OP48280-BS1 for Aldrin: Reported from the 1st signal. Internal standard outside the limits on the 2nd signal.
- OP48280-BS1 for 4,4'-DDT: Reported from the 1st signal. Internal standard outside the limits on the 2nd signal.
- OP48280-BS1 for 4,4'-DDE: Reported from the 1st signal. Internal standard outside the limits on the 2nd signal.
- OP48280-BS1 for Endrin aldehyde: Reported from the 1st signal. Internal standard outside the limits on the 2nd signal.
- OP48280-BS1 for beta-BHC: Reported from the 1st signal. Internal standard outside the limits on the 2nd signal.
- OP48280-BS1 for 4,4'-DDD: Reported from the 1st signal. Internal standard outside the limits on the 2nd signal.
- OP48280-BS1 for Endosulfan-I: Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.
- OP48280-BS1 for delta-BHC: Reported from the 1st signal. Internal standard outside the limits on the 2nd signal.
- OP48280-BS1 for Endosulfan-II: Reported from the 1st signal. Internal standard outside the limits on the 2nd signal.
- JD70494-3 for Endrin: More than 40 % RPD for detected concentrations between the two GC columns.
- JD70494-3 for Dieldrin: More than 40 % RPD for detected concentrations between the two GC columns.
- JD70494-1 for Heptachlor epoxide: More than 40 % RPD for detected concentrations between the two GC columns.
- JD70494-1 for gamma-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JD70494-1 for alpha-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- OP48280-BS1 for gamma-Chlordane: Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.
- JD70494-3 for 4,4'-DDD: More than 40 % RPD for detected concentrations between the two GC columns.
- OP48280-BS1 for alpha-Chlordane: Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.
- OP48280-BS1 for Methoxychlor: Reported from the 1st signal. Internal standard outside the limits on the 2nd signal.
- OP48280-BS1 for Heptachlor: Reported from the 1st signal. Internal standard outside the limits on the 2nd signal.
- OP48280-BS1 for gamma-BHC (Lindane): Reported from the 1st signal. Internal standard outside the limits on the 2nd signal.
- OP48280-BS1 for Endrin ketone: Reported from the 1st signal. Internal standard outside the limits on the 2nd signal.
- OP48280-BS1 for Endrin: Reported from the 1st signal. Internal standard outside the limits on the 2nd signal.
- OP48280-BS1 for Endosulfan sulfate: Reported from the 1st signal. Internal standard outside the limits on the 2nd signal.
- OP48280-BS1 for Dieldrin: Reported from the 1st signal. Internal standard outside the limits on the 2nd signal.
- OP48280-BS1 for Heptachlor epoxide: Reported from the 1st signal. The %D of the CCV on the 2nd 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:** OP48281

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) JD70494-1MS, JD70494-1MSD, OP48281-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- OP48281-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.
- JD70494-1 for Aroclor 1260: Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.

Metals Analysis By Method SW846 6010D

Matrix: SO **Batch ID:** MP41178

- 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) JD70484-1MSD, JD70484-1SDL, JD70484-1MSD were used as the QC samples for the metals analysis.
- The matrix spike (MS) recovery(s) of Antimony, Magnesium, Potassium are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- The matrix spike duplicate (MSD) recovery(s) of Antimony, Manganese, Potassium are outside control limits. Probable cause due to matrix interference.
- The matrix spike (MS) recovery(s) of Calcium, Aluminum, Iron are outside control limits. Ca high. Needs post spike for Sb
- The RPD(s) for the MS and MSD recoveries of Magnesium are outside control limits for sample MP41178-S2. High rpd due to possible sample nonhomogeneity.
- The serial dilution RPD(s) for Arsenic, Beryllium, Cadmium, Selenium, Silver, Sodium, Zinc are outside control limits for sample MP41178-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- JD70494-2 for Thallium: Elevated detection limit due to dilution required for high interfering element.
- JD70494-2 for Cadmium: Elevated detection limit due to dilution required for high interfering element.
- MP41178-S1 for Calcium: Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- JD70494-2 for Silver: Elevated detection limit due to dilution required for high interfering element.
- JD70494-2 for Selenium: Elevated detection limit due to dilution required for high interfering element.
- JD70494-2 for Manganese: Elevated detection limit due to dilution required for high interfering element.
- JD70494-2 for Copper: Elevated detection limit due to dilution required for high interfering element.
- JD70494-2 for Arsenic: Elevated detection limit due to dilution required for high interfering element.

Metals Analysis By Method SW846 7471B

Matrix: SO **Batch ID:** MP41218

- 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) JD70471-1MS, JD70471-1MSD were used as the QC samples for the metals analysis.

General Chemistry By Method SM2540 G 18TH ED MOD

Matrix: SO **Batch ID:** GN44475

- Sample(s) JD70356-1DUP were used as the QC samples for the Solids, Percent analysis.

General Chemistry By Method SW846 9012B/LACHAT

Matrix: SO **Batch ID:** GP48525

- All samples were prepared 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) JD70494-1MS, JD70540-7DUP were used as the QC samples for the Cyanide 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:** JD70494

Site: HWINJOMM: HLAME: 30130-Alltift Landfill, 579 Tifft Street, **Report Date:** 8/22/2023 12:39:07

On 08/08/2023, 3 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 1.6 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. - Orlando Job Number of JD70494 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 DRAFT 1633

Matrix: SO **Batch ID:** OP98332

Sample(s) FC8334-2MS, FC8334-2MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for 4:2 Fluorotelomer sulfonate, 6:2 Fluorotelomer sulfonate, 8:2 Fluorotelomer sulfonate, 9Cl-PF3ONS (F-53B Major), ADONA are outside control limits.

Matrix Spike Recovery(s) for 11Cl-PF3OUdS (F-53B Minor), 9Cl-PF3ONS (F-53B Major), ADONA, EtFOSAA are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 11Cl-PF3OUdS (F-53B Minor), 4:2 Fluorotelomer sulfonate, 8:2 Fluorotelomer sulfonate, 9Cl-PF3ONS (F-53B Major), ADONA, EtFOSAA are outside control limits. Probable cause is due to matrix interference.

JD70494-1A for 9Cl-PF3ONS (F-53B Major): Associated BS outside control limits high, sample was ND.

JD70494-2A for 9Cl-PF3ONS (F-53B Major): Associated BS outside control limits high, sample was ND.

JD70494-2A for ADONA: Associated BS outside control limits high, sample was ND.

JD70494-3A for 9Cl-PF3ONS (F-53B Major): Associated BS outside control limits high, sample was ND.

JD70494-3A for ADONA: Associated BS outside control limits high, sample was ND.

JD70494-1A for ADONA: Associated BS outside control limits high, sample was ND.

JD70494-1A for 4:2 Fluorotelomer sulfonate: Associated Low Level BS outside of control limits high, sample was ND.

JD70494-2A for 4:2 Fluorotelomer sulfonate: Associated Low Level BS outside of control limits high, sample was ND.

JD70494-3A for 4:2 Fluorotelomer sulfonate: Associated Low Level BS outside of control limits high, sample was ND.

JD70494-1A for 6:2 Fluorotelomer sulfonate: Associated BS outside control limits high, sample was ND.

JD70494-2A for 6:2 Fluorotelomer sulfonate: Associated BS outside control limits high, sample was ND.

JD70494-3A for 6:2 Fluorotelomer sulfonate: Associated BS outside control limits high, sample was ND.

JD70494-1A for 8:2 Fluorotelomer sulfonate: Associated Low Level BS outside of control limits high, sample was ND.

JD70494-3A for 8:2 Fluorotelomer sulfonate: Associated Low Level BS outside of control limits high, sample was ND.

JD70494-2A for 8:2 Fluorotelomer sulfonate: Associated Low Level BS outside of control limits high, sample was ND.

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: JD70494
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 08/01/23

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD70494-1	**ALLTIFT-080123-WES**					
Anthracene		35.2 J	39	24	ug/kg	SW846 8270E
Benzo(a)anthracene		184	39	11	ug/kg	SW846 8270E
Benzo(a)pyrene		209	39	18	ug/kg	SW846 8270E
Benzo(b)fluoranthene		269	39	17	ug/kg	SW846 8270E
Benzo(g,h,i)perylene		108	39	19	ug/kg	SW846 8270E
Benzo(k)fluoranthene		103	39	18	ug/kg	SW846 8270E
1,1'-Biphenyl		5.3 J	78	5.3	ug/kg	SW846 8270E
Carbazole		21.2 J	78	5.6	ug/kg	SW846 8270E
Chrysene		213	39	12	ug/kg	SW846 8270E
Dibenzo(a,h)anthracene		38.1 J	39	17	ug/kg	SW846 8270E
Di-n-butyl phthalate		32.5 J	78	6.3	ug/kg	SW846 8270E
bis(2-Ethylhexyl)phthalate		20.6 J	78	9.1	ug/kg	SW846 8270E
Fluoranthene		454	39	17	ug/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene		132	39	18	ug/kg	SW846 8270E
2-Methylnaphthalene		10.8 J	39	8.8	ug/kg	SW846 8270E
Naphthalene [a]		25.2 JB	39	11	ug/kg	SW846 8270E
Phenanthrene		135	39	13	ug/kg	SW846 8270E
Pyrene		397	39	12	ug/kg	SW846 8270E
alpha-Chlordane [b]		46.4	0.74	0.60	ug/kg	SW846 8081B
gamma-Chlordane [b]		16.2	0.74	0.33	ug/kg	SW846 8081B
Dieldrin		3.8	0.74	0.51	ug/kg	SW846 8081B
4,4'-DDD		4.0	0.74	0.68	ug/kg	SW846 8081B
4,4'-DDE		18.8	0.74	0.65	ug/kg	SW846 8081B
4,4'-DDT		9.5	0.74	0.65	ug/kg	SW846 8081B
Endosulfan-I		2.6	0.74	0.42	ug/kg	SW846 8081B
Heptachlor epoxide [b]		7.8	0.74	0.52	ug/kg	SW846 8081B
Aroclor 1254		95.7	37	20	ug/kg	SW846 8082A
Aroclor 1260 [c]		39.4	37	16	ug/kg	SW846 8082A
Aluminum		12000	59	9.5	mg/kg	SW846 6010D
Arsenic		5.9	2.4	0.33	mg/kg	SW846 6010D
Barium		78.9	24	2.2	mg/kg	SW846 6010D
Beryllium		0.69	0.24	0.095	mg/kg	SW846 6010D
Cadmium		0.46 J	0.59	0.083	mg/kg	SW846 6010D
Calcium		27700	1200	49	mg/kg	SW846 6010D
Chromium		18.9	1.2	0.44	mg/kg	SW846 6010D
Cobalt		7.7	5.9	0.33	mg/kg	SW846 6010D
Copper		25.1	3.0	0.99	mg/kg	SW846 6010D
Iron		18200	59	23	mg/kg	SW846 6010D
Lead		47.2	2.4	0.49	mg/kg	SW846 6010D
Magnesium		9980	590	16	mg/kg	SW846 6010D
Manganese		463	1.8	0.49	mg/kg	SW846 6010D
Mercury		0.092	0.036	0.016	mg/kg	SW846 7471B
Nickel		19.8	4.7	0.41	mg/kg	SW846 6010D

Summary of Hits

Job Number: JD70494
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 08/01/23

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Potassium		1950	1200	38	mg/kg	SW846 6010D
Selenium		1.8 J	2.4	0.77	mg/kg	SW846 6010D
Silver		0.58 J	0.59	0.20	mg/kg	SW846 6010D
Sodium		171 J	1200	92	mg/kg	SW846 6010D
Vanadium		25.3	5.9	0.22	mg/kg	SW846 6010D
Zinc		177	5.9	2.7	mg/kg	SW846 6010D
Cyanide		0.21 J	0.27	0.14	mg/kg	SW846 9012B/LACHAT
JD70494-1A	**ALLTIFT-080123-WES**					
Perfluorohexanoic acid [d]		0.12 J	0.23	0.12	ug/kg	EPA DRAFT 1633
Perfluorooctanoic acid [d]		0.50	0.23	0.12	ug/kg	EPA DRAFT 1633
Perfluorononanoic acid [d]		0.13 J	0.23	0.13	ug/kg	EPA DRAFT 1633
Perfluorooctanesulfonic acid [d]		1.8	0.23	0.12	ug/kg	EPA DRAFT 1633
JD70494-2	**ALLTIFT-080123-CTS**					
3&4-Methylphenol		40.7 J	74	30	ug/kg	SW846 8270E
Anthracene		51.0	37	23	ug/kg	SW846 8270E
Benzo(a)anthracene		182	37	10	ug/kg	SW846 8270E
Benzo(a)pyrene		207	37	17	ug/kg	SW846 8270E
Benzo(b)fluoranthene		263	37	16	ug/kg	SW846 8270E
Benzo(g,h,i)perylene		115	37	18	ug/kg	SW846 8270E
Benzo(k)fluoranthene		111	37	17	ug/kg	SW846 8270E
Butyl benzyl phthalate		45.6 J	74	9.0	ug/kg	SW846 8270E
Carbazole		47.4 J	74	5.3	ug/kg	SW846 8270E
Chrysene		240	37	12	ug/kg	SW846 8270E
Dibenzo(a,h)anthracene		40.0	37	16	ug/kg	SW846 8270E
Fluoranthene		636	37	16	ug/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene		137	37	17	ug/kg	SW846 8270E
Naphthalene [a]		15.7 JB	37	10	ug/kg	SW846 8270E
Phenanthrene		300	37	12	ug/kg	SW846 8270E
Pyrene		454	37	12	ug/kg	SW846 8270E
4,4'-DDD		1.6	0.71	0.65	ug/kg	SW846 8081B
4,4'-DDE		2.5	0.71	0.62	ug/kg	SW846 8081B
4,4'-DDT		2.0	0.71	0.63	ug/kg	SW846 8081B
Aluminum		14600	55	8.9	mg/kg	SW846 6010D
Arsenic [e]		6.5	4.4	0.62	mg/kg	SW846 6010D
Barium		71.0	22	2.1	mg/kg	SW846 6010D
Beryllium		0.73	0.22	0.089	mg/kg	SW846 6010D
Cadmium [e]		0.54 J	1.1	0.15	mg/kg	SW846 6010D
Calcium		12100	550	23	mg/kg	SW846 6010D
Chromium		22.3	1.1	0.41	mg/kg	SW846 6010D
Cobalt		10	5.5	0.31	mg/kg	SW846 6010D
Copper [e]		18.2	5.5	1.9	mg/kg	SW846 6010D

Summary of Hits

Job Number: JD70494
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 08/01/23

Lab Sample ID / Client Sample ID / Analyte	Result/ Qual	RL	MDL	Units	Method
Iron	23100	110	42	mg/kg	SW846 6010D
Lead	50.1	2.2	0.45	mg/kg	SW846 6010D
Magnesium	4120	550	15	mg/kg	SW846 6010D
Manganese [e]	478	3.3	0.91	mg/kg	SW846 6010D
Mercury	0.057	0.030	0.013	mg/kg	SW846 7471B
Nickel	25.6	4.4	0.39	mg/kg	SW846 6010D
Potassium	1650	1100	35	mg/kg	SW846 6010D
Silver [e]	0.48 J	1.1	0.38	mg/kg	SW846 6010D
Sodium	94.9 J	1100	86	mg/kg	SW846 6010D
Vanadium	28.0	5.5	0.21	mg/kg	SW846 6010D
Zinc	110	5.5	2.5	mg/kg	SW846 6010D
JD70494-2A ALLTIFT-080123-CTS					
Perfluorooctanoic acid [d]	0.30	0.22	0.11	ug/kg	EPA DRAFT 1633
Perfluorooctanesulfonic acid [d]	0.63	0.22	0.11	ug/kg	EPA DRAFT 1633
JD70494-3 ALLTIFT-080123-SS					
3&4-Methylphenol	410	97	40	ug/kg	SW846 8270E
Phenol	304	97	25	ug/kg	SW846 8270E
Acetophenone	74.8 J	240	10	ug/kg	SW846 8270E
Anthracene	66.6	48	30	ug/kg	SW846 8270E
Benzo(a)anthracene	189	48	14	ug/kg	SW846 8270E
Benzo(a)pyrene	245	48	22	ug/kg	SW846 8270E
Benzo(b)fluoranthene	377	48	21	ug/kg	SW846 8270E
Benzo(g,h,i)perylene	168	48	24	ug/kg	SW846 8270E
Benzo(k)fluoranthene	137	48	23	ug/kg	SW846 8270E
1,1'-Biphenyl	15.9 J	97	6.6	ug/kg	SW846 8270E
Benzaldehyde	474	240	12	ug/kg	SW846 8270E
Carbazole	37.2 J	97	7.0	ug/kg	SW846 8270E
Chrysene	281	48	15	ug/kg	SW846 8270E
Dibenzo(a,h)anthracene	54.0	48	21	ug/kg	SW846 8270E
Dibenzofuran	32.9 J	97	20	ug/kg	SW846 8270E
Fluoranthene	390	48	22	ug/kg	SW846 8270E
Fluorene	24.7 J	48	22	ug/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene	172	48	23	ug/kg	SW846 8270E
2-Methylnaphthalene	86.6	48	11	ug/kg	SW846 8270E
Naphthalene [a]	182 B	48	14	ug/kg	SW846 8270E
Phenanthrene	170	48	16	ug/kg	SW846 8270E
Pyrene	286	48	16	ug/kg	SW846 8270E
delta-BHC	5.5	0.92	0.88	ug/kg	SW846 8081B
Dieldrin [b]	3.3	0.92	0.63	ug/kg	SW846 8081B
4,4'-DDD [b]	7.0	4.6	4.2	ug/kg	SW846 8081B
4,4'-DDE	19.6	0.92	0.81	ug/kg	SW846 8081B

Summary of Hits

Job Number: JD70494
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 08/01/23

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
4,4'-DDT		5.7	0.92	0.82	ug/kg	SW846 8081B
Endrin [b]		5.4	0.92	0.71	ug/kg	SW846 8081B
Aroclor 1254		38.8 J	46	25	ug/kg	SW846 8082A
Aluminum		11000	74	12	mg/kg	SW846 6010D
Arsenic		6.8	3.0	0.42	mg/kg	SW846 6010D
Barium		91.5	30	2.8	mg/kg	SW846 6010D
Beryllium		0.76	0.30	0.12	mg/kg	SW846 6010D
Cadmium		0.56 J	0.74	0.10	mg/kg	SW846 6010D
Calcium		41600	1500	62	mg/kg	SW846 6010D
Chromium		39.9	1.5	0.55	mg/kg	SW846 6010D
Cobalt		7.5	7.4	0.42	mg/kg	SW846 6010D
Copper		31.5	3.7	1.2	mg/kg	SW846 6010D
Iron		18100	74	28	mg/kg	SW846 6010D
Lead		51.7	3.0	0.61	mg/kg	SW846 6010D
Magnesium		10800	740	20	mg/kg	SW846 6010D
Manganese		764	2.2	0.61	mg/kg	SW846 6010D
Mercury		0.058	0.047	0.021	mg/kg	SW846 7471B
Nickel		19.2	5.9	0.52	mg/kg	SW846 6010D
Potassium		5610	1500	47	mg/kg	SW846 6010D
Selenium		2.1 J	3.0	0.96	mg/kg	SW846 6010D
Silver		0.68 J	0.74	0.25	mg/kg	SW846 6010D
Sodium		365 J	1500	120	mg/kg	SW846 6010D
Vanadium		25.3	7.4	0.28	mg/kg	SW846 6010D
Zinc		165	7.4	3.4	mg/kg	SW846 6010D
Cyanide		0.48	0.31	0.16	mg/kg	SW846 9012B/LACHAT
JD70494-3A	**ALLTIFT-080123-SS**					
Perfluorohexanoic acid [d]		0.16 J	0.29	0.14	ug/kg	EPA DRAFT 1633
Perfluorooctanoic acid [d]		0.43	0.29	0.14	ug/kg	EPA DRAFT 1633
Perfluorodecanoic acid [d]		0.15 J	0.29	0.14	ug/kg	EPA DRAFT 1633
Perfluorooctanesulfonic acid [d]		0.61	0.29	0.14	ug/kg	EPA DRAFT 1633

(a) Detected in the Method blank but below the reporting limit level.
(b) More than 40 % RPD for detected concentrations between the two GC columns.
(c) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.
(d) Analysis performed at SGS Orlando, FL.
(e) Elevated detection limit due to dilution required for high interfering element.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	ALLTIFT-080123-WES		
Lab Sample ID:	JD70494-1	**Date Sampled:**	08/01/23
Matrix:	SO - Soil	**Date Received:**	08/04/23
Method:	SW846 8260D	**Percent Solids:**	85.3
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I251264.D	1	08/05/23 17:44	PS	n/a	n/a	VI10201
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	12	4.9	ug/kg	
71-43-2	Benzene	ND	0.59	0.53	ug/kg	
74-97-5	Bromochloromethane	ND	5.9	0.66	ug/kg	
75-27-4	Bromodichloromethane	ND	2.3	0.50	ug/kg	
75-25-2	Bromoform	ND	5.9	1.6	ug/kg	
74-83-9	Bromomethane	ND	5.9	0.90	ug/kg	
78-93-3	2-Butanone (MEK) [a]	ND	12	2.8	ug/kg	
75-15-0	Carbon disulfide	ND	2.3	0.63	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.3	0.72	ug/kg	
108-90-7	Chlorobenzene	ND	2.3	0.54	ug/kg	
75-00-3	Chloroethane	ND	5.9	0.69	ug/kg	
67-66-3	Chloroform	ND	2.3	0.61	ug/kg	
74-87-3	Chloromethane	ND	5.9	2.3	ug/kg	
110-82-7	Cyclohexane	ND	2.3	0.77	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.3	0.81	ug/kg	
124-48-1	Dibromochloromethane	ND	2.3	0.66	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.49	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.2	0.64	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.2	0.58	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.2	0.58	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.9	0.85	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.2	0.58	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.55	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.2	0.77	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.2	0.98	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.2	0.72	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.3	0.55	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	0.56	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	0.54	ug/kg	
100-41-4	Ethylbenzene	ND	1.2	0.53	ug/kg	
76-13-1	Freon 113	ND	5.9	3.1	ug/kg	
591-78-6	2-Hexanone [a]	ND	5.9	2.5	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-080123-WES		
Lab Sample ID:	JD70494-1	**Date Sampled:**	08/01/23
Matrix:	SO - Soil	**Date Received:**	08/04/23
Method:	SW846 8260D	**Percent Solids:**	85.3
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	2.3	1.7	ug/kg	
79-20-9	Methyl Acetate	ND	5.9	1.6	ug/kg	
108-87-2	Methylcyclohexane	ND	2.3	1.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.55	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.9	2.7	ug/kg	
75-09-2	Methylene chloride	ND	5.9	3.1	ug/kg	
100-42-5	Styrene	ND	2.3	0.47	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	0.70	ug/kg	
127-18-4	Tetrachloroethene	ND	2.3	0.68	ug/kg	
108-88-3	Toluene	ND	1.2	0.62	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.9	2.9	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.9	2.9	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.3	0.57	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.3	0.65	ug/kg	
79-01-6	Trichloroethene	ND	1.2	0.89	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.9	0.80	ug/kg	
75-01-4	Vinyl chloride	ND	2.3	0.56	ug/kg	
	m,p-Xylene	ND	1.2	1.1	ug/kg	
95-47-6	o-Xylene	ND	1.2	0.54	ug/kg	
1330-20-7	Xylene (total)	ND	1.2	0.54	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		80-124%
17060-07-0	1,2-Dichloroethane-D4	112%		75-133%
2037-26-5	Toluene-D8	101%		79-125%
460-00-4	4-Bromofluorobenzene	95%		58-148%

(a) 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:	ALLTIFT-080123-WES		
Lab Sample ID:	JD70494-1	**Date Sampled:**	08/01/23
Matrix:	SO - Soil	**Date Received:**	08/04/23
Method:	SW846 8270E SW846 3546	**Percent Solids:**	85.3
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6P511492.D	1	08/07/23 22:02	KM	08/06/23 12:53	OP48277	E6P3966
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 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	78	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	69	ug/kg	
51-28-5	2,4-Dinitrophenol [a]	ND	190	150	ug/kg	
534-52-1	4,6-Dinitro-o-cresol [a]	ND	190	42	ug/kg	
95-48-7	2-Methylphenol	ND	78	25	ug/kg	
	3&4-Methylphenol	ND	78	32	ug/kg	
88-75-5	2-Nitrophenol [a]	ND	190	26	ug/kg	
100-02-7	4-Nitrophenol	ND	390	100	ug/kg	
87-86-5	Pentachlorophenol	ND	160	37	ug/kg	
108-95-2	Phenol	ND	78	20	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	190	26	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	39	13	ug/kg	
208-96-8	Acenaphthylene	ND	39	20	ug/kg	
98-86-2	Acetophenone	ND	190	8.4	ug/kg	
120-12-7	Anthracene	35.2	39	24	ug/kg	J
1912-24-9	Atrazine	ND	78	17	ug/kg	
56-55-3	Benzo(a)anthracene	184	39	11	ug/kg	
50-32-8	Benzo(a)pyrene	209	39	18	ug/kg	
205-99-2	Benzo(b)fluoranthene	269	39	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	108	39	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	103	39	18	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	78	15	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	78	9.5	ug/kg	
92-52-4	1,1'-Biphenyl	5.3	78	5.3	ug/kg	J
100-52-7	Benzaldehyde	ND	190	9.7	ug/kg	
91-58-7	2-Chloronaphthalene	ND	78	9.3	ug/kg	
106-47-8	4-Chloroaniline	ND	190	14	ug/kg	
86-74-8	Carbazole	21.2	78	5.6	ug/kg	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:	ALLTIFT-080123-WES		
Lab Sample ID:	JD70494-1	**Date Sampled:**	08/01/23
Matrix:	SO - Soil	**Date Received:**	08/04/23
Method:	SW846 8270E SW846 3546	**Percent Solids:**	85.3
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	ND	78	15	ug/kg	
218-01-9	Chrysene	213	39	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	78	8.3	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	78	17	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	78	14	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	78	13	ug/kg	
121-14-2	2,4-Dinitrotoluene [a]	ND	39	12	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	39	20	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	78	32	ug/kg	
123-91-1	1,4-Dioxane	ND	39	26	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	38.1	39	17	ug/kg	J
132-64-9	Dibenzofuran	ND	78	16	ug/kg	
84-74-2	Di-n-butyl phthalate	32.5	78	6.3	ug/kg	J
117-84-0	Di-n-octyl phthalate	ND	78	9.7	ug/kg	
84-66-2	Diethyl phthalate	ND	78	8.3	ug/kg	
131-11-3	Dimethyl phthalate	ND	78	6.9	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	20.6	78	9.1	ug/kg	J
206-44-0	Fluoranthene	454	39	17	ug/kg	
86-73-7	Fluorene	ND	39	18	ug/kg	
118-74-1	Hexachlorobenzene	ND	78	9.9	ug/kg	
87-68-3	Hexachlorobutadiene	ND	39	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	390	16	ug/kg	
67-72-1	Hexachloroethane	ND	190	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	132	39	18	ug/kg	
78-59-1	Isophorone	ND	78	8.3	ug/kg	
91-57-6	2-Methylnaphthalene	10.8	39	8.8	ug/kg	J
88-74-4	2-Nitroaniline	ND	190	9.2	ug/kg	
99-09-2	3-Nitroaniline	ND	190	9.7	ug/kg	
100-01-6	4-Nitroaniline [a]	ND	190	10	ug/kg	
91-20-3	Naphthalene [b]	25.2	39	11	ug/kg	JB
98-95-3	Nitrobenzene	ND	78	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	78	11	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	14	ug/kg	
85-01-8	Phenanthrene	135	39	13	ug/kg	
129-00-0	Pyrene	397	39	12	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	9.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	28%		10-99%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ALLTIFT-080123-WES		
Lab Sample ID:	JD70494-1	**Date Sampled:**	08/01/23
Matrix:	SO - Soil	**Date Received:**	08/04/23
Method:	SW846 8270E SW846 3546	**Percent Solids:**	85.3
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	31%		10-96%
118-79-6	2,4,6-Tribromophenol	36%		10-123%
4165-60-0	Nitrobenzene-d5	26%		10-109%
321-60-8	2-Fluorobiphenyl	32%		11-109%
1718-51-0	Terphenyl-d14	34%		10-120%

(a) Associated CCV outside of control limits high, sample was ND.
(b) Detected in the Method blank but below the reporting limit level.

Report of Analysis

Client Sample ID:	ALLTIFT-080123-WES		
Lab Sample ID:	JD70494-1	**Date Sampled:**	08/01/23
Matrix:	SO - Soil	**Date Received:**	08/04/23
Method:	SW846 8081B SW846 3546	**Percent Solids:**	85.3
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G92764.D	1	08/07/23 21:19	MLC	08/07/23 08:10	OP48280	G6G3407
Run #2							

	Initial Weight	Final Volume
Run #1	15.9 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.74	0.61	ug/kg	
319-84-6	alpha-BHC	ND	0.74	0.60	ug/kg	
319-85-7	beta-BHC	ND	0.74	0.67	ug/kg	
319-86-8	delta-BHC	ND	0.74	0.71	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.74	0.54	ug/kg	
5103-71-9	alpha-Chlordane [a]	46.4	0.74	0.60	ug/kg	
5103-74-2	gamma-Chlordane [a]	16.2	0.74	0.33	ug/kg	
60-57-1	Dieldrin	3.8	0.74	0.51	ug/kg	
72-54-8	4,4'-DDD	4.0	0.74	0.68	ug/kg	
72-55-9	4,4'-DDE	18.8	0.74	0.65	ug/kg	
50-29-3	4,4'-DDT	9.5	0.74	0.65	ug/kg	
72-20-8	Endrin	ND	0.74	0.57	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.74	0.58	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.74	0.42	ug/kg	
959-98-8	Endosulfan-I	2.6	0.74	0.42	ug/kg	
33213-65-9	Endosulfan-II	ND	0.74	0.46	ug/kg	
76-44-8	Heptachlor	ND	0.74	0.64	ug/kg	
1024-57-3	Heptachlor epoxide [a]	7.8	0.74	0.52	ug/kg	
72-43-5	Methoxychlor	ND	1.5	0.59	ug/kg	
53494-70-5	Endrin ketone	ND	0.74	0.53	ug/kg	
8001-35-2	Toxaphene	ND	18	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	112%		13-162%
877-09-8	Tetrachloro-m-xylene	72%		13-162%
2051-24-3	Decachlorobiphenyl	85%		10-180%
2051-24-3	Decachlorobiphenyl	90%		10-180%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
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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-080123-WES		
Lab Sample ID:	JD70494-1	**Date Sampled:**	08/01/23
Matrix:	SO - Soil	**Date Received:**	08/04/23
Method:	SW846 8082A SW846 3546	**Percent Solids:**	85.3
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2504867.D	1	08/09/23 08:05	RK	08/07/23 08:10	OP48281	GXX8266
Run #2							

	Initial Weight	Final Volume
Run #1	15.9 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	95.7	37	20	ug/kg	
11096-82-5	Aroclor 1260 [a]	39.4	37	16	ug/kg	
11100-14-4	Aroclor 1268	ND	37	32	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	88%		10-174%
877-09-8	Tetrachloro-m-xylene	89%		10-174%
2051-24-3	Decachlorobiphenyl	77%		10-195%
2051-24-3	Decachlorobiphenyl	84%		10-195%

(a) Reported from the 1st signal. The %D of the CCV on the 2nd 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-080123-WES
Lab Sample ID: JD70494-1
Matrix: SO - Soil
Date Sampled: 08/01/23
Date Received: 08/04/23
Percent Solids: 85.3
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	12000	59	9.5	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Antimony	ND	2.4	0.49	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Arsenic	5.9	2.4	0.33	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Barium	78.9	24	2.2	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Beryllium	0.69	0.24	0.095	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Cadmium	0.46 J	0.59	0.083	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Calcium	27700	1200	49	mg/kg	2	08/05/23	08/10/23	ND	SW846 6010D [3]	SW846 3050B [4]
Chromium	18.9	1.2	0.44	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Cobalt	7.7	5.9	0.33	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Copper	25.1	3.0	0.99	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Iron	18200	59	23	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Lead	47.2	2.4	0.49	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Magnesium	9980	590	16	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Manganese	463	1.8	0.49	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Mercury	0.092	0.036	0.016	mg/kg	1	08/07/23	08/08/23	CB	SW846 7471B [1]	SW846 7471B [5]
Nickel	19.8	4.7	0.41	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Potassium	1950	1200	38	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Selenium	1.8 J	2.4	0.77	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Silver	0.58 J	0.59	0.20	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Sodium	171 J	1200	92	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Thallium	ND	1.2	0.69	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Vanadium	25.3	5.9	0.22	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Zinc	177	5.9	2.7	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA54559
(2) Instrument QC Batch: MA54571
(3) Instrument QC Batch: MA54589
(4) Prep QC Batch: MP41178
(5) Prep QC Batch: MP41218

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

Report of Analysis

Client Sample ID: ALLTIFT-080123-WES
Lab Sample ID: JD70494-1
Matrix: SO - Soil
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Date Sampled: 08/01/23
Date Received: 08/04/23
Percent Solids: 85.3

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.21 J	0.27	0.14	mg/kg	1	08/08/23 14:06	JD	SW846 9012B/LACHAT
Solids, Percent	85.3			%	1	08/05/23 13:00	MK	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-080123-WES
Lab Sample ID: JD70494-1A **Date Sampled:** 08/01/23
Matrix: SO - Soil **Date Received:** 08/04/23
Method: EPA DRAFT 1633 EPA 1633 DRAFT **Percent Solids:** 85.3
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	4Q49055.D	1	08/17/23 18:17	AFL	08/09/23 11:30	F:OP98332	F:S4Q718
Run #2							

	Initial Weight	Final Volume
Run #1	5.04 g	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	ND	0.93	0.58	ug/kg	
2706-90-3	Perfluoropentanoic acid	ND	0.47	0.12	ug/kg	
307-24-4	Perfluorohexanoic acid	0.12	0.23	0.12	ug/kg	J
375-85-9	Perfluoroheptanoic acid	ND	0.23	0.12	ug/kg	
335-67-1	Perfluorooctanoic acid	0.50	0.23	0.12	ug/kg	
375-95-1	Perfluorononanoic acid	0.13	0.23	0.13	ug/kg	J
335-76-2	Perfluorodecanoic acid	ND	0.23	0.12	ug/kg	
2058-94-8	Perfluoroundecanoic acid	ND	0.23	0.15	ug/kg	
307-55-1	Perfluorododecanoic acid	ND	0.23	0.12	ug/kg	
72629-94-8	Perfluorotridecanoic acid	ND	0.23	0.12	ug/kg	
376-06-7	Perfluorotetradecanoic acid	ND	0.23	0.12	ug/kg	
PERFLUOROALKYL SULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	ND	0.23	0.12	ug/kg	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.23	0.18	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	0.23	0.18	ug/kg	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.23	0.17	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	1.8	0.23	0.12	ug/kg	
68259-12-1	Perfluorononanesulfonic acid	ND	0.23	0.21	ug/kg	
335-77-3	Perfluorodecanesulfonic acid	ND	0.23	0.17	ug/kg	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.23	0.17	ug/kg	
FLUOROTELOMER SULFONIC ACIDS						
757124-72-4	4:2 Fluorotelomer sulfonate [b]	ND	0.93	0.47	ug/kg	
27619-97-2	6:2 Fluorotelomer sulfonate [c]	ND	0.93	0.47	ug/kg	
39108-34-4	8:2 Fluorotelomer sulfonate [b]	ND	0.93	0.70	ug/kg	
PERFLUOROOCTANE SULFONAMIDES						
754-91-6	PFOSA	ND	0.23	0.12	ug/kg	
31506-32-8	MeFOSA	ND	0.23	0.16	ug/kg	
4151-50-2	EtFOSA	ND	0.23	0.12	ug/kg	

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-080123-WES		
Lab Sample ID:	JD70494-1A	**Date Sampled:**	08/01/23
Matrix:	SO - Soil	**Date Received:**	08/04/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	**Percent Solids:**	85.3
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	0.23	0.18	ug/kg	
2991-50-6	EtFOSAA	ND	0.23	0.23	ug/kg	
PERFLUOROOCTANE SULFONAMIDO ETHANOLS						
24448-09-7	MeFOSE	ND	2.3	1.2	ug/kg	
1691-99-2	EtFOSE	ND	2.3	1.2	ug/kg	
PER and POLYFLUOROETHER CARBOXYLIC ACIDS						
13252-13-6	HFPO-DA (GenX)	ND	0.93	0.34	ug/kg	
919005-14-4	ADONA [c]	ND	0.93	0.39	ug/kg	
377-73-1	PFMPA	ND	0.47	0.23	ug/kg	
863090-89-5	PFMBA	ND	0.47	0.23	ug/kg	
151772-58-6	NFDHA	ND	0.47	0.28	ug/kg	
PER and POLYFLUOROETHER SULFONIC ACIDS						
756426-58-1	9Cl-PF3ONS (F-53B Major) [c]	ND	0.93	0.51	ug/kg	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.93	0.47	ug/kg	
113507-82-7	PFEESA	ND	0.47	0.23	ug/kg	
FLUOROTELOMER CARBOXYLIC ACIDS						
356-02-5	3:3 Fluorotelomer carboxylate	ND	1.2	0.59	ug/kg	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	5.8	1.3	ug/kg	
812-70-4	7:3 Fluorotelomer carboxylate	ND	5.8	1.5	ug/kg	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	97%		20-150%
	13C5-PFPeA	94%		20-150%
	13C5-PFHxA	99%		20-150%
	13C4-PFHpA	99%		20-150%
	13C8-PFOA	97%		20-150%
	13C9-PFNA	89%		20-150%
	13C6-PFDA	103%		20-150%
	13C7-PFUnDA	112%		20-150%
	13C2-PFDoDA	106%		20-150%
	13C2-PFTeDA	108%		20-150%
	13C3-PFBS	95%		20-150%
	13C3-PFHxS	90%		20-150%

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-080123-WES		
Lab Sample ID:	JD70494-1A	**Date Sampled:**	08/01/23
Matrix:	SO - Soil	**Date Received:**	08/04/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	**Percent Solids:**	85.3
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	91%		20-150%
	13C8-FOSA	87%		20-150%
	d3-MeFOSA	74%		20-150%
	d5-EtFOSA	66%		20-150%
	d3-MeFOSAA	107%		20-150%
	d5-EtFOSAA	115%		20-150%
	d7-MeFOSE	59%		20-150%
	d9-EtFOSE	55%		20-150%
	13C2-4:2FTS	90%		20-180%
	13C2-6:2FTS	98%		20-180%
	13C2-8:2FTS	88%		20-180%
	13C3-HFPO-DA	77%		20-150%

(a) Analysis performed at SGS Orlando, FL.
(b) Associated Low Level BS outside of control limits high, sample was ND.
(c) Associated BS outside 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:	ALLTIFT-080123-CTS		
Lab Sample ID:	JD70494-2	**Date Sampled:**	08/01/23
Matrix:	SO - Soil	**Date Received:**	08/04/23
Method:	SW846 8260D	**Percent Solids:**	89.5
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I251265.D	1	08/05/23 18:06	PS	n/a	n/a	VI10201
Run #2							

	Initial Weight
Run #1	4.2 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	13	5.5	ug/kg	
71-43-2	Benzene	ND	0.67	0.61	ug/kg	
74-97-5	Bromochloromethane	ND	6.7	0.74	ug/kg	
75-27-4	Bromodichloromethane	ND	2.7	0.57	ug/kg	
75-25-2	Bromoform	ND	6.7	1.8	ug/kg	
74-83-9	Bromomethane	ND	6.7	1.0	ug/kg	
78-93-3	2-Butanone (MEK) [a]	ND	13	3.2	ug/kg	
75-15-0	Carbon disulfide	ND	2.7	0.71	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.7	0.82	ug/kg	
108-90-7	Chlorobenzene	ND	2.7	0.61	ug/kg	
75-00-3	Chloroethane	ND	6.7	0.79	ug/kg	
67-66-3	Chloroform	ND	2.7	0.69	ug/kg	
74-87-3	Chloromethane	ND	6.7	2.6	ug/kg	
110-82-7	Cyclohexane	ND	2.7	0.87	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.7	0.92	ug/kg	
124-48-1	Dibromochloromethane	ND	2.7	0.74	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.3	0.56	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.3	0.73	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.3	0.66	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.3	0.66	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.7	0.97	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.3	0.66	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.3	0.63	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.3	0.87	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.3	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.3	0.81	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.7	0.63	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.7	0.63	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.7	0.61	ug/kg	
100-41-4	Ethylbenzene	ND	1.3	0.60	ug/kg	
76-13-1	Freon 113	ND	6.7	3.6	ug/kg	
591-78-6	2-Hexanone [a]	ND	6.7	2.8	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-080123-CTS		
Lab Sample ID:	JD70494-2	**Date Sampled:**	08/01/23
Matrix:	SO - Soil	**Date Received:**	08/04/23
Method:	SW846 8260D	**Percent Solids:**	89.5
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	2.7	1.9	ug/kg	
79-20-9	Methyl Acetate	ND	6.7	1.8	ug/kg	
108-87-2	Methylcyclohexane	ND	2.7	1.2	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.3	0.62	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.7	3.0	ug/kg	
75-09-2	Methylene chloride	ND	6.7	3.5	ug/kg	
100-42-5	Styrene	ND	2.7	0.53	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.7	0.80	ug/kg	
127-18-4	Tetrachloroethene	ND	2.7	0.77	ug/kg	
108-88-3	Toluene	ND	1.3	0.70	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.7	3.3	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.7	3.3	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.7	0.64	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.7	0.74	ug/kg	
79-01-6	Trichloroethene	ND	1.3	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.7	0.91	ug/kg	
75-01-4	Vinyl chloride	ND	2.7	0.64	ug/kg	
	m,p-Xylene	ND	1.3	1.2	ug/kg	
95-47-6	o-Xylene	ND	1.3	0.61	ug/kg	
1330-20-7	Xylene (total)	ND	1.3	0.61	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	117%		80-124%
17060-07-0	1,2-Dichloroethane-D4	112%		75-133%
2037-26-5	Toluene-D8	100%		79-125%
460-00-4	4-Bromofluorobenzene	95%		58-148%

(a) 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: ALLTIFT-080123-CTS
Lab Sample ID: JD70494-2 **Date Sampled:** 08/01/23
Matrix: SO - Soil **Date Received:** 08/04/23
Method: SW846 8270E SW846 3546 **Percent Solids:** 89.5
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6P511493.D	1	08/07/23 22:27	KM	08/06/23 12:53	OP48277	E6P3966
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 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	74	18	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	23	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	31	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	66	ug/kg	
51-28-5	2,4-Dinitrophenol [a]	ND	180	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol [a]	ND	180	39	ug/kg	
95-48-7	2-Methylphenol	ND	74	24	ug/kg	
	3&4-Methylphenol	40.7	74	30	ug/kg	J
88-75-5	2-Nitrophenol [a]	ND	180	24	ug/kg	
100-02-7	4-Nitrophenol	ND	370	98	ug/kg	
87-86-5	Pentachlorophenol	ND	150	35	ug/kg	
108-95-2	Phenol	ND	74	19	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	180	24	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	28	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	22	ug/kg	
83-32-9	Acenaphthene	ND	37	13	ug/kg	
208-96-8	Acenaphthylene	ND	37	19	ug/kg	
98-86-2	Acetophenone	ND	180	7.9	ug/kg	
120-12-7	Anthracene	51.0	37	23	ug/kg	
1912-24-9	Atrazine	ND	74	16	ug/kg	
56-55-3	Benzo(a)anthracene	182	37	10	ug/kg	
50-32-8	Benzo(a)pyrene	207	37	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	263	37	16	ug/kg	
191-24-2	Benzo(g,h,i)perylene	115	37	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	111	37	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	74	14	ug/kg	
85-68-7	Butyl benzyl phthalate	45.6	74	9.0	ug/kg	J
92-52-4	1,1'-Biphenyl	ND	74	5.1	ug/kg	
100-52-7	Benzaldehyde	ND	180	9.1	ug/kg	
91-58-7	2-Chloronaphthalene	ND	74	8.8	ug/kg	
106-47-8	4-Chloroaniline	ND	180	13	ug/kg	
86-74-8	Carbazole	47.4	74	5.3	ug/kg	J

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-080123-CTS		
Lab Sample ID:	JD70494-2	**Date Sampled:**	08/01/23
Matrix:	SO - Soil	**Date Received:**	08/04/23
Method:	SW846 8270E SW846 3546	**Percent Solids:**	89.5
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	ND	74	15	ug/kg	
218-01-9	Chrysene	240	37	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	74	7.9	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	74	16	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	74	13	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	74	12	ug/kg	
121-14-2	2,4-Dinitrotoluene [a]	ND	37	11	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	37	19	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	74	31	ug/kg	
123-91-1	1,4-Dioxane	ND	37	24	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	40.0	37	16	ug/kg	
132-64-9	Dibenzofuran	ND	74	15	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	74	6.0	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	74	9.2	ug/kg	
84-66-2	Diethyl phthalate	ND	74	7.9	ug/kg	
131-11-3	Dimethyl phthalate	ND	74	6.6	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	74	8.6	ug/kg	
206-44-0	Fluoranthene	636	37	16	ug/kg	
86-73-7	Fluorene	ND	37	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	74	9.3	ug/kg	
87-68-3	Hexachlorobutadiene	ND	37	15	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	370	15	ug/kg	
67-72-1	Hexachloroethane	ND	180	18	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	137	37	17	ug/kg	
78-59-1	Isophorone	ND	74	7.9	ug/kg	
91-57-6	2-Methylnaphthalene	ND	37	8.3	ug/kg	
88-74-4	2-Nitroaniline	ND	180	8.7	ug/kg	
99-09-2	3-Nitroaniline	ND	180	9.2	ug/kg	
100-01-6	4-Nitroaniline [a]	ND	180	9.6	ug/kg	
91-20-3	Naphthalene [b]	15.7	37	10	ug/kg	JB
98-95-3	Nitrobenzene	ND	74	14	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	74	11	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	13	ug/kg	
85-01-8	Phenanthrene	300	37	12	ug/kg	
129-00-0	Pyrene	454	37	12	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	9.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	22%		10-99%

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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-080123-CTS		
Lab Sample ID:	JD70494-2	**Date Sampled:**	08/01/23
Matrix:	SO - Soil	**Date Received:**	08/04/23
Method:	SW846 8270E SW846 3546	**Percent Solids:**	89.5
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	23%		10-96%
118-79-6	2,4,6-Tribromophenol	28%		10-123%
4165-60-0	Nitrobenzene-d5	20%		10-109%
321-60-8	2-Fluorobiphenyl	24%		11-109%
1718-51-0	Terphenyl-d14	25%		10-120%

(a) Associated CCV outside of control limits high, sample was ND.
(b) Detected in the Method blank but below the reporting limit level.

Report of Analysis

Client Sample ID: ALLTIFT-080123-CTS
Lab Sample ID: JD70494-2
Matrix: SO - Soil
Method: SW846 8081B SW846 3546
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Date Sampled: 08/01/23
Date Received: 08/04/23
Percent Solids: 89.5

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G92765.D	1	08/07/23 21:37	MLC	08/07/23 08:10	OP48280	G6G3407
Run #2	4G9733002.D	5	08/10/23 15:14	MLC	08/07/23 08:10	OP48280	G4G120

	Initial Weight	Final Volume
Run #1	15.7 g	10.0 ml
Run #2	15.7 g	10.0 ml

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.71	0.59	ug/kg	
319-84-6	alpha-BHC	ND	0.71	0.58	ug/kg	
319-85-7	beta-BHC	ND	0.71	0.64	ug/kg	
319-86-8	delta-BHC	ND	0.71	0.68	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.71	0.52	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.71	0.57	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.71	0.32	ug/kg	
60-57-1	Dieldrin	ND [a]	3.6	2.4	ug/kg	
72-54-8	4,4'-DDD	1.6	0.71	0.65	ug/kg	
72-55-9	4,4'-DDE	2.5	0.71	0.62	ug/kg	
50-29-3	4,4'-DDT	2.0	0.71	0.63	ug/kg	
72-20-8	Endrin	ND	0.71	0.55	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.71	0.56	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.71	0.40	ug/kg	
959-98-8	Endosulfan-I	ND	0.71	0.41	ug/kg	
33213-65-9	Endosulfan-II	ND	0.71	0.44	ug/kg	
76-44-8	Heptachlor	ND	0.71	0.61	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.71	0.50	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.57	ug/kg	
53494-70-5	Endrin ketone	ND	0.71	0.51	ug/kg	
8001-35-2	Toxaphene	ND	18	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	135%	123%	13-162%
877-09-8	Tetrachloro-m-xylene	89%	130%	13-162%
2051-24-3	Decachlorobiphenyl	90%	108%	10-180%
2051-24-3	Decachlorobiphenyl	101%	165%	10-180%

(a) Result is from Run# 2

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-080123-CTS		
Lab Sample ID:	JD70494-2	**Date Sampled:**	08/01/23
Matrix:	SO - Soil	**Date Received:**	08/04/23
Method:	SW846 8082A SW846 3546	**Percent Solids:**	89.5
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2504868.D	1	08/09/23 08:31	RK	08/07/23 08:10	OP48281	GXX8266
Run #2							

	Initial Weight	Final Volume
Run #1	15.7 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	17	ug/kg	
11104-28-2	Aroclor 1221	ND	36	22	ug/kg	
11141-16-5	Aroclor 1232	ND	36	23	ug/kg	
53469-21-9	Aroclor 1242	ND	36	15	ug/kg	
12672-29-6	Aroclor 1248	ND	36	32	ug/kg	
11097-69-1	Aroclor 1254	ND	36	19	ug/kg	
11096-82-5	Aroclor 1260	ND	36	15	ug/kg	
11100-14-4	Aroclor 1268	ND	36	31	ug/kg	
37324-23-5	Aroclor 1262	ND	36	23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	100%		10-174%
877-09-8	Tetrachloro-m-xylene	103%		10-174%
2051-24-3	Decachlorobiphenyl	89%		10-195%
2051-24-3	Decachlorobiphenyl	91%		10-195%

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-080123-CTS
Lab Sample ID: JD70494-2
Matrix: SO - Soil
Date Sampled: 08/01/23
Date Received: 08/04/23
Percent Solids: 89.5
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	14600	55	8.9	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Antimony	ND	2.2	0.45	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Arsenic [a]	6.5	4.4	0.62	mg/kg	2	08/05/23	08/10/23	ND	SW846 6010D [3]	SW846 3050B [4]
Barium	71.0	22	2.1	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Beryllium	0.73	0.22	0.089	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Cadmium [a]	0.54 J	1.1	0.15	mg/kg	2	08/05/23	08/10/23	ND	SW846 6010D [3]	SW846 3050B [4]
Calcium	12100	550	23	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Chromium	22.3	1.1	0.41	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Cobalt	10	5.5	0.31	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Copper [a]	18.2	5.5	1.9	mg/kg	2	08/05/23	08/10/23	ND	SW846 6010D [3]	SW846 3050B [4]
Iron	23100	110	42	mg/kg	2	08/05/23	08/10/23	ND	SW846 6010D [3]	SW846 3050B [4]
Lead	50.1	2.2	0.45	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Magnesium	4120	550	15	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Manganese [a]	478	3.3	0.91	mg/kg	2	08/05/23	08/10/23	ND	SW846 6010D [3]	SW846 3050B [4]
Mercury	0.057	0.030	0.013	mg/kg	1	08/07/23	08/08/23	CB	SW846 7471B [1]	SW846 7471B [5]
Nickel	25.6	4.4	0.39	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Potassium	1650	1100	35	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Selenium [a]	ND	4.4	1.4	mg/kg	2	08/05/23	08/10/23	ND	SW846 6010D [3]	SW846 3050B [4]
Silver [a]	0.48 J	1.1	0.38	mg/kg	2	08/05/23	08/10/23	ND	SW846 6010D [3]	SW846 3050B [4]
Sodium	94.9 J	1100	86	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Thallium [a]	ND	2.2	1.3	mg/kg	2	08/05/23	08/10/23	ND	SW846 6010D [3]	SW846 3050B [4]
Vanadium	28.0	5.5	0.21	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Zinc	110	5.5	2.5	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA54559
(2) Instrument QC Batch: MA54571
(3) Instrument QC Batch: MA54589
(4) Prep QC Batch: MP41178
(5) Prep QC Batch: MP41218

(a) Elevated detection limit due to dilution required for high interfering element.

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

Report of Analysis

Client Sample ID:	ALLTIFT-080123-CTS		
Lab Sample ID:	JD70494-2	**Date Sampled:**	08/01/23
Matrix:	SO - Soil	**Date Received:**	08/04/23
		Percent Solids:	89.5
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	ND	0.24	0.12	mg/kg	1	08/08/23 14:07	JD	SW846 9012B/LACHAT
Solids, Percent	89.5			%	1	08/05/23 13:00	MK	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-080123-CTS
Lab Sample ID: JD70494-2A **Date Sampled:** 08/01/23
Matrix: SO - Soil **Date Received:** 08/04/23
Method: EPA DRAFT 1633 EPA 1633 DRAFT **Percent Solids:** 89.5
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	4Q49056.D	1	08/17/23 18:31	AFL	08/09/23 11:30	F:OP98332	F:S4Q718
Run #2							

	Initial Weight	Final Volume
Run #1	5.05 g	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	ND	0.89	0.55	ug/kg	
2706-90-3	Perfluoropentanoic acid	ND	0.44	0.11	ug/kg	
307-24-4	Perfluorohexanoic acid	ND	0.22	0.11	ug/kg	
375-85-9	Perfluoroheptanoic acid	ND	0.22	0.11	ug/kg	
335-67-1	Perfluorooctanoic acid	0.30	0.22	0.11	ug/kg	
375-95-1	Perfluorononanoic acid	ND	0.22	0.13	ug/kg	
335-76-2	Perfluorodecanoic acid	ND	0.22	0.11	ug/kg	
2058-94-8	Perfluoroundecanoic acid	ND	0.22	0.15	ug/kg	
307-55-1	Perfluorododecanoic acid	ND	0.22	0.11	ug/kg	
72629-94-8	Perfluorotridecanoic acid	ND	0.22	0.11	ug/kg	
376-06-7	Perfluorotetradecanoic acid	ND	0.22	0.11	ug/kg	
PERFLUOROALKYL SULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	ND	0.22	0.11	ug/kg	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.22	0.17	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	0.22	0.18	ug/kg	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.22	0.16	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	0.63	0.22	0.11	ug/kg	
68259-12-1	Perfluorononanesulfonic acid	ND	0.22	0.20	ug/kg	
335-77-3	Perfluorodecanesulfonic acid	ND	0.22	0.16	ug/kg	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.22	0.17	ug/kg	
FLUOROTELOMER SULFONIC ACIDS						
757124-72-4	4:2 Fluorotelomer sulfonate [b]	ND	0.89	0.44	ug/kg	
27619-97-2	6:2 Fluorotelomer sulfonate [c]	ND	0.89	0.44	ug/kg	
39108-34-4	8:2 Fluorotelomer sulfonate [b]	ND	0.89	0.66	ug/kg	
PERFLUOROOCTANE SULFONAMIDES						
754-91-6	PFOSA	ND	0.22	0.11	ug/kg	
31506-32-8	MeFOSA	ND	0.22	0.15	ug/kg	
4151-50-2	EtFOSA	ND	0.22	0.11	ug/kg	

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-080123-CTS		
Lab Sample ID:	JD70494-2A	**Date Sampled:**	08/01/23
Matrix:	SO - Soil	**Date Received:**	08/04/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	**Percent Solids:**	89.5
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	0.22	0.17	ug/kg	
2991-50-6	EtFOSAA	ND	0.22	0.22	ug/kg	
PERFLUOROOCTANE SULFONAMIDO ETHANOLS						
24448-09-7	MeFOSE	ND	2.2	1.1	ug/kg	
1691-99-2	EtFOSE	ND	2.2	1.1	ug/kg	
PER and POLYFLUOROETHER CARBOXYLIC ACIDS						
13252-13-6	HFPO-DA (GenX)	ND	0.89	0.32	ug/kg	
919005-14-4	ADONA [c]	ND	0.89	0.37	ug/kg	
377-73-1	PFMPA	ND	0.44	0.22	ug/kg	
863090-89-5	PFMBA	ND	0.44	0.22	ug/kg	
151772-58-6	NFDHA	ND	0.44	0.27	ug/kg	
PER and POLYFLUOROETHER SULFONIC ACIDS						
756426-58-1	9Cl-PF3ONS (F-53B Major) [c]	ND	0.89	0.49	ug/kg	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.89	0.44	ug/kg	
113507-82-7	PFEESA	ND	0.44	0.22	ug/kg	
FLUOROTELOMER CARBOXYLIC ACIDS						
356-02-5	3:3 Fluorotelomer carboxylate	ND	1.1	0.56	ug/kg	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	5.5	1.3	ug/kg	
812-70-4	7:3 Fluorotelomer carboxylate	ND	5.5	1.4	ug/kg	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	94%		20-150%
	13C5-PFPeA	93%		20-150%
	13C5-PFHxA	96%		20-150%
	13C4-PFHpA	98%		20-150%
	13C8-PFOA	95%		20-150%
	13C9-PFNA	86%		20-150%
	13C6-PFDA	102%		20-150%
	13C7-PFUnDA	106%		20-150%
	13C2-PFDoDA	100%		20-150%
	13C2-PFTeDA	101%		20-150%
	13C3-PFBS	92%		20-150%
	13C3-PFHxS	92%		20-150%

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-080123-CTS		
Lab Sample ID:	JD70494-2A	**Date Sampled:**	08/01/23
Matrix:	SO - Soil	**Date Received:**	08/04/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	**Percent Solids:**	89.5
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	90%		20-150%
	13C8-FOSA	90%		20-150%
	d3-MeFOSA	71%		20-150%
	d5-EtFOSA	69%		20-150%
	d3-MeFOSAA	100%		20-150%
	d5-EtFOSAA	106%		20-150%
	d7-MeFOSE	62%		20-150%
	d9-EtFOSE	57%		20-150%
	13C2-4:2FTS	85%		20-180%
	13C2-6:2FTS	88%		20-180%
	13C2-8:2FTS	83%		20-180%
	13C3-HFPO-DA	77%		20-150%

(a) Analysis performed at SGS Orlando, FL.
(b) Associated Low Level BS outside of control limits high, sample was ND.
(c) Associated BS outside 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:	ALLTIFT-080123-SS		
Lab Sample ID:	JD70494-3	**Date Sampled:**	08/01/23
Matrix:	SO - Soil	**Date Received:**	08/04/23
Method:	SW846 8260D	**Percent Solids:**	68.8
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I251266.D	1	08/05/23 18:28	PS	n/a	n/a	VI10201
Run #2							

	Initial Weight
Run #1	4.5 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	16	6.7	ug/kg	
71-43-2	Benzene	ND	0.81	0.73	ug/kg	
74-97-5	Bromochloromethane	ND	8.1	0.90	ug/kg	
75-27-4	Bromodichloromethane	ND	3.2	0.69	ug/kg	
75-25-2	Bromoform	ND	8.1	2.2	ug/kg	
74-83-9	Bromomethane	ND	8.1	1.2	ug/kg	
78-93-3	2-Butanone (MEK) [a]	ND	16	3.9	ug/kg	
75-15-0	Carbon disulfide	ND	3.2	0.86	ug/kg	
56-23-5	Carbon tetrachloride	ND	3.2	1.0	ug/kg	
108-90-7	Chlorobenzene	ND	3.2	0.74	ug/kg	
75-00-3	Chloroethane	ND	8.1	0.95	ug/kg	
67-66-3	Chloroform	ND	3.2	0.84	ug/kg	
74-87-3	Chloromethane	ND	8.1	3.2	ug/kg	
110-82-7	Cyclohexane	ND	3.2	1.1	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.2	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	3.2	0.90	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.6	0.68	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.6	0.88	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.6	0.80	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.6	0.80	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	8.1	1.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.6	0.80	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.6	0.76	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.6	1.1	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.6	1.4	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.6	0.99	ug/kg	
78-87-5	1,2-Dichloropropane	ND	3.2	0.76	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	3.2	0.77	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	3.2	0.74	ug/kg	
100-41-4	Ethylbenzene	ND	1.6	0.73	ug/kg	
76-13-1	Freon 113	ND	8.1	4.3	ug/kg	
591-78-6	2-Hexanone [a]	ND	8.1	3.4	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-080123-SS		
Lab Sample ID:	JD70494-3	**Date Sampled:**	08/01/23
Matrix:	SO - Soil	**Date Received:**	08/04/23
Method:	SW846 8260D	**Percent Solids:**	68.8
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	3.2	2.3	ug/kg	
79-20-9	Methyl Acetate	ND	8.1	2.2	ug/kg	
108-87-2	Methylcyclohexane	ND	3.2	1.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.6	0.76	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	8.1	3.7	ug/kg	
75-09-2	Methylene chloride	ND	8.1	4.2	ug/kg	
100-42-5	Styrene	ND	3.2	0.65	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.2	0.97	ug/kg	
127-18-4	Tetrachloroethene	ND	3.2	0.94	ug/kg	
108-88-3	Toluene	ND	1.6	0.85	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	8.1	4.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	8.1	4.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	3.2	0.78	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	3.2	0.89	ug/kg	
79-01-6	Trichloroethene	ND	1.6	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	8.1	1.1	ug/kg	
75-01-4	Vinyl chloride	ND	3.2	0.78	ug/kg	
	m,p-Xylene	ND	1.6	1.4	ug/kg	
95-47-6	o-Xylene	ND	1.6	0.74	ug/kg	
1330-20-7	Xylene (total)	ND	1.6	0.74	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	118%		80-124%
17060-07-0	1,2-Dichloroethane-D4	113%		75-133%
2037-26-5	Toluene-D8	102%		79-125%
460-00-4	4-Bromofluorobenzene	101%		58-148%

(a) 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: ALLTIFT-080123-SS
Lab Sample ID: JD70494-3 **Date Sampled:** 08/01/23
Matrix: SO - Soil **Date Received:** 08/04/23
Method: SW846 8270E SW846 3546 **Percent Solids:** 68.8
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6P511494.D	1	08/07/23 22:51	KM	08/06/23 12:53	OP48277	E6P3966
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 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	97	24	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	240	30	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	240	41	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	240	86	ug/kg	
51-28-5	2,4-Dinitrophenol [a]	ND	240	180	ug/kg	
534-52-1	4,6-Dinitro-o-cresol [a]	ND	240	52	ug/kg	
95-48-7	2-Methylphenol	ND	97	31	ug/kg	
	3&4-Methylphenol	410	97	40	ug/kg	
88-75-5	2-Nitrophenol [a]	ND	240	32	ug/kg	
100-02-7	4-Nitrophenol	ND	480	130	ug/kg	
87-86-5	Pentachlorophenol	ND	190	45	ug/kg	
108-95-2	Phenol	304	97	25	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	240	32	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	240	36	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	240	29	ug/kg	
83-32-9	Acenaphthene	ND	48	17	ug/kg	
208-96-8	Acenaphthylene	ND	48	25	ug/kg	
98-86-2	Acetophenone	74.8	240	10	ug/kg	J
120-12-7	Anthracene	66.6	48	30	ug/kg	
1912-24-9	Atrazine	ND	97	21	ug/kg	
56-55-3	Benzo(a)anthracene	189	48	14	ug/kg	
50-32-8	Benzo(a)pyrene	245	48	22	ug/kg	
205-99-2	Benzo(b)fluoranthene	377	48	21	ug/kg	
191-24-2	Benzo(g,h,i)perylene	168	48	24	ug/kg	
207-08-9	Benzo(k)fluoranthene	137	48	23	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	97	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	97	12	ug/kg	
92-52-4	1,1'-Biphenyl	15.9	97	6.6	ug/kg	J
100-52-7	Benzaldehyde	474	240	12	ug/kg	
91-58-7	2-Chloronaphthalene	ND	97	12	ug/kg	
106-47-8	4-Chloroaniline	ND	240	17	ug/kg	
86-74-8	Carbazole	37.2	97	7.0	ug/kg	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:	ALLTIFT-080123-SS		
Lab Sample ID:	JD70494-3	**Date Sampled:**	08/01/23
Matrix:	SO - Soil	**Date Received:**	08/04/23
Method:	SW846 8270E SW846 3546	**Percent Solids:**	68.8
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	ND	97	19	ug/kg	
218-01-9	Chrysene	281	48	15	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	97	10	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	97	21	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	97	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	97	16	ug/kg	
121-14-2	2,4-Dinitrotoluene [a]	ND	48	15	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	48	24	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	97	40	ug/kg	
123-91-1	1,4-Dioxane	ND	48	32	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	54.0	48	21	ug/kg	
132-64-9	Dibenzofuran	32.9	97	20	ug/kg	J
84-74-2	Di-n-butyl phthalate	ND	97	7.9	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	97	12	ug/kg	
84-66-2	Diethyl phthalate	ND	97	10	ug/kg	
131-11-3	Dimethyl phthalate	ND	97	8.6	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	97	11	ug/kg	
206-44-0	Fluoranthene	390	48	22	ug/kg	
86-73-7	Fluorene	24.7	48	22	ug/kg	J
118-74-1	Hexachlorobenzene	ND	97	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	48	19	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	480	19	ug/kg	
67-72-1	Hexachloroethane	ND	240	24	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	172	48	23	ug/kg	
78-59-1	Isophorone	ND	97	10	ug/kg	
91-57-6	2-Methylnaphthalene	86.6	48	11	ug/kg	
88-74-4	2-Nitroaniline	ND	240	11	ug/kg	
99-09-2	3-Nitroaniline	ND	240	12	ug/kg	
100-01-6	4-Nitroaniline [a]	ND	240	13	ug/kg	
91-20-3	Naphthalene [b]	182	48	14	ug/kg	B
98-95-3	Nitrobenzene	ND	97	19	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	97	14	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	240	18	ug/kg	
85-01-8	Phenanthrene	170	48	16	ug/kg	
129-00-0	Pyrene	286	48	16	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	240	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	33%		10-99%

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-080123-SS		
Lab Sample ID:	JD70494-3	**Date Sampled:**	08/01/23
Matrix:	SO - Soil	**Date Received:**	08/04/23
Method:	SW846 8270E SW846 3546	**Percent Solids:**	68.8
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	32%		10-96%
118-79-6	2,4,6-Tribromophenol	26%		10-123%
4165-60-0	Nitrobenzene-d5	21%		10-109%
321-60-8	2-Fluorobiphenyl	40%		11-109%
1718-51-0	Terphenyl-d14	32%		10-120%

(a) Associated CCV outside of control limits high, sample was ND.
(b) Detected in the Method blank but below the reporting limit level.

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-080123-SS		
Lab Sample ID:	JD70494-3	**Date Sampled:**	08/01/23
Matrix:	SO - Soil	**Date Received:**	08/04/23
Method:	SW846 8081B SW846 3546	**Percent Solids:**	68.8
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G92766.D	1	08/07/23 21:55	MLC	08/07/23 08:10	OP48280	G6G3407
Run #2	4G9733003.D	5	08/10/23 15:30	MLC	08/07/23 08:10	OP48280	G4G120

	Initial Weight	Final Volume
Run #1	15.8 g	10.0 ml
Run #2	15.8 g	10.0 ml

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.92	0.76	ug/kg	
319-84-6	alpha-BHC	ND	0.92	0.75	ug/kg	
319-85-7	beta-BHC	ND	0.92	0.83	ug/kg	
319-86-8	delta-BHC	5.5	0.92	0.88	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.92	0.68	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.92	0.74	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.92	0.42	ug/kg	
60-57-1	Dieldrin [a]	3.3	0.92	0.63	ug/kg	
72-54-8	4,4'-DDD [a]	7.0 [b]	4.6	4.2	ug/kg	
72-55-9	4,4'-DDE	19.6	0.92	0.81	ug/kg	
50-29-3	4,4'-DDT	5.7	0.92	0.82	ug/kg	
72-20-8	Endrin [a]	5.4	0.92	0.71	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.92	0.72	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.92	0.52	ug/kg	
959-98-8	Endosulfan-I	ND	0.92	0.53	ug/kg	
33213-65-9	Endosulfan-II	ND	0.92	0.57	ug/kg	
76-44-8	Heptachlor	ND	0.92	0.79	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.92	0.64	ug/kg	
72-43-5	Methoxychlor	ND	1.8	0.73	ug/kg	
53494-70-5	Endrin ketone	ND	0.92	0.67	ug/kg	
8001-35-2	Toxaphene	ND	23	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	152%	109%	13-162%
877-09-8	Tetrachloro-m-xylene	75%	113%	13-162%
2051-24-3	Decachlorobiphenyl	94%	123%	10-180%
2051-24-3	Decachlorobiphenyl	92%	148%	10-180%

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Result is from Run# 2

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-080123-SS		
Lab Sample ID:	JD70494-3	**Date Sampled:**	08/01/23
Matrix:	SO - Soil	**Date Received:**	08/04/23
Method:	SW846 8082A SW846 3546	**Percent Solids:**	68.8
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2504873.D	1	08/09/23 10:03	RK	08/07/23 08:10	OP48281	GXX8266
Run #2							

	Initial Weight	Final Volume
Run #1	15.8 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	46	21	ug/kg	
11104-28-2	Aroclor 1221	ND	46	29	ug/kg	
11141-16-5	Aroclor 1232	ND	46	29	ug/kg	
53469-21-9	Aroclor 1242	ND	46	19	ug/kg	
12672-29-6	Aroclor 1248	ND	46	41	ug/kg	
11097-69-1	Aroclor 1254	38.8	46	25	ug/kg	J
11096-82-5	Aroclor 1260	ND	46	20	ug/kg	
11100-14-4	Aroclor 1268	ND	46	40	ug/kg	
37324-23-5	Aroclor 1262	ND	46	30	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	96%		10-174%
877-09-8	Tetrachloro-m-xylene	97%		10-174%
2051-24-3	Decachlorobiphenyl	91%		10-195%
2051-24-3	Decachlorobiphenyl	93%		10-195%

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-080123-SS
Lab Sample ID: JD70494-3
Matrix: SO - Soil
Date Sampled: 08/01/23
Date Received: 08/04/23
Percent Solids: 68.8
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	11000	74	12	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Antimony	ND	3.0	0.61	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Arsenic	6.8	3.0	0.42	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Barium	91.5	30	2.8	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Beryllium	0.76	0.30	0.12	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Cadmium	0.56 J	0.74	0.10	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Calcium	41600	1500	62	mg/kg	2	08/05/23	08/10/23	ND	SW846 6010D [3]	SW846 3050B [4]
Chromium	39.9	1.5	0.55	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Cobalt	7.5	7.4	0.42	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Copper	31.5	3.7	1.2	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Iron	18100	74	28	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Lead	51.7	3.0	0.61	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Magnesium	10800	740	20	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Manganese	764	2.2	0.61	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Mercury	0.058	0.047	0.021	mg/kg	1	08/07/23	08/08/23	CB	SW846 7471B [1]	SW846 7471B [5]
Nickel	19.2	5.9	0.52	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Potassium	5610	1500	47	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Selenium	2.1 J	3.0	0.96	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Silver	0.68 J	0.74	0.25	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Sodium	365 J	1500	120	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Thallium	ND	1.5	0.86	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Vanadium	25.3	7.4	0.28	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]
Zinc	165	7.4	3.4	mg/kg	1	08/05/23	08/08/23	ND	SW846 6010D [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA54559
(2) Instrument QC Batch: MA54571
(3) Instrument QC Batch: MA54589
(4) Prep QC Batch: MP41178
(5) Prep QC Batch: MP41218

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

Report of Analysis

Client Sample ID:	ALLTIFT-080123-SS		
Lab Sample ID:	JD70494-3	**Date Sampled:**	08/01/23
Matrix:	SO - Soil	**Date Received:**	08/04/23
		Percent Solids:	68.8
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.48	0.31	0.16	mg/kg	1	08/08/23 14:08	JD	SW846 9012B/LACHAT
Solids, Percent	68.8			%	1	08/05/23 13:00	MK	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-080123-SS		
Lab Sample ID:	JD70494-3A	**Date Sampled:**	08/01/23
Matrix:	SO - Soil	**Date Received:**	08/04/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	**Percent Solids:**	68.8
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	4Q49059.D	1	08/17/23 19:16	AFL	08/09/23 11:30	F:OP98332	F:S4Q718
Run #2							

	Initial Weight	Final Volume
Run #1	5.02 g	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	ND	1.2	0.72	ug/kg	
2706-90-3	Perfluoropentanoic acid	ND	0.58	0.14	ug/kg	
307-24-4	Perfluorohexanoic acid	0.16	0.29	0.14	ug/kg	J
375-85-9	Perfluoroheptanoic acid	ND	0.29	0.14	ug/kg	
335-67-1	Perfluorooctanoic acid	0.43	0.29	0.14	ug/kg	
375-95-1	Perfluorononanoic acid	ND	0.29	0.17	ug/kg	
335-76-2	Perfluorodecanoic acid	0.15	0.29	0.14	ug/kg	J
2058-94-8	Perfluoroundecanoic acid	ND	0.29	0.19	ug/kg	
307-55-1	Perfluorododecanoic acid	ND	0.29	0.14	ug/kg	
72629-94-8	Perfluorotridecanoic acid	ND	0.29	0.15	ug/kg	
376-06-7	Perfluorotetradecanoic acid	ND	0.29	0.14	ug/kg	
PERFLUOROALKYL SULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	ND	0.29	0.14	ug/kg	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.29	0.23	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	0.29	0.23	ug/kg	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.29	0.21	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	0.61	0.29	0.14	ug/kg	
68259-12-1	Perfluorononanesulfonic acid	ND	0.29	0.26	ug/kg	
335-77-3	Perfluorodecanesulfonic acid	ND	0.29	0.21	ug/kg	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.29	0.22	ug/kg	
FLUOROTELOMER SULFONIC ACIDS						
757124-72-4	4:2 Fluorotelomer sulfonate [b]	ND	1.2	0.58	ug/kg	
27619-97-2	6:2 Fluorotelomer sulfonate [c]	ND	1.2	0.58	ug/kg	
39108-34-4	8:2 Fluorotelomer sulfonate [b]	ND	1.2	0.87	ug/kg	
PERFLUOROOCTANE SULFONAMIDES						
754-91-6	PFOSA	ND	0.29	0.14	ug/kg	
31506-32-8	MeFOSA	ND	0.29	0.20	ug/kg	
4151-50-2	EtFOSA	ND	0.29	0.15	ug/kg	

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-080123-SS
Lab Sample ID: JD70494-3A **Date Sampled:** 08/01/23
Matrix: SO - Soil **Date Received:** 08/04/23
Method: EPA DRAFT 1633 EPA 1633 DRAFT **Percent Solids:** 68.8
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	0.29	0.23	ug/kg	
2991-50-6	EtFOSAA	ND	0.29	0.29	ug/kg	
PERFLUOROOCTANE SULFONAMIDO ETHANOLS						
24448-09-7	MeFOSE	ND	2.9	1.4	ug/kg	
1691-99-2	EtFOSE	ND	2.9	1.4	ug/kg	
PER and POLYFLUOROETHER CARBOXYLIC ACIDS						
13252-13-6	HFPO-DA (GenX)	ND	1.2	0.42	ug/kg	
919005-14-4	ADONA [c]	ND	1.2	0.49	ug/kg	
377-73-1	PFMPA	ND	0.58	0.29	ug/kg	
863090-89-5	PFMBA	ND	0.58	0.29	ug/kg	
151772-58-6	NFDHA	ND	0.58	0.35	ug/kg	
PER and POLYFLUOROETHER SULFONIC ACIDS						
756426-58-1	9Cl-PF3ONS (F-53B Major) [c]	ND	1.2	0.64	ug/kg	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	1.2	0.58	ug/kg	
113507-82-7	PFEESA	ND	0.58	0.29	ug/kg	
FLUOROTELOMER CARBOXYLIC ACIDS						
356-02-5	3:3 Fluorotelomer carboxylate	ND	1.4	0.74	ug/kg	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	7.2	1.7	ug/kg	
812-70-4	7:3 Fluorotelomer carboxylate	ND	7.2	1.8	ug/kg	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	93%		20-150%
	13C5-PFPeA	93%		20-150%
	13C5-PFHxA	96%		20-150%
	13C4-PFHpA	96%		20-150%
	13C8-PFOA	92%		20-150%
	13C9-PFNA	85%		20-150%
	13C6-PFDA	98%		20-150%
	13C7-PFUnDA	108%		20-150%
	13C2-PFDoDA	97%		20-150%
	13C2-PFTeDA	95%		20-150%
	13C3-PFBS	89%		20-150%
	13C3-PFHxS	93%		20-150%

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-080123-SS		
Lab Sample ID:	JD70494-3A	**Date Sampled:**	08/01/23
Matrix:	SO - Soil	**Date Received:**	08/04/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	**Percent Solids:**	68.8
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	89%		20-150%
	13C8-FOSA	79%		20-150%
	d3-MeFOSA	63%		20-150%
	d5-EtFOSA	53%		20-150%
	d3-MeFOSAA	115%		20-150%
	d5-EtFOSAA	130%		20-150%
	d7-MeFOSE	47%		20-150%
	d9-EtFOSE	41%		20-150%
	13C2-4:2FTS	98%		20-180%
	13C2-6:2FTS	109%		20-180%
	13C2-8:2FTS	122%		20-180%
	13C3-HFPO-DA	74%		20-150%

(a) Analysis performed at SGS Orlando, FL.
(b) Associated Low Level BS outside of control limits high, sample was ND.
(c) Associated BS outside 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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- QC Evaluation: Honeywell Limits

SO
SLL

PM

5847375 5375 PREM-II-061723-136 JD70494

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

Honeywell
Chain of Custody / Analysis Request

Save with QC Check Gray Cells Required | More Columns | Less Columns | Print Short COC | Print Expanded COC

Pricing Source (RFP, eAuction, etc)	RFP2019	HW Site Name	Buffalo Alltift Landfill	Task Type	OM&M	AESI Ref:	45141.32968
Email of person receiving EDD	EQUIS	Location of Site	579 Tifft Street, Buffalo NY	WBS Code	6400	COC#	Alltift-080123
Sampler(s) names	Benjamin Hendry	Analytical Group Name				Lab Proj # (SDG):	Page 1 of 1
PO #	HW PO # A001457165	Preservative	0	10	23	0	Lab Location ID: ACTD
Analysis Turnaround Time (calendar days):	Standard TAT						HW Site R-Code: R31030
Consultant	Jacobs						Sampling Program: Non-routine
Laboratory Contact	Jadon Schiller						Authorized User:
Report Tier Level	2						Lab Parent ID: SGS
Full Report and EDD TAT (calendar days)	Standard TAT						Text & Excel File Drive / Excel & Text File Order
Honeywell RM Name	Shane Blauvelt (SRB)						Create Excel Output / Create Text Output

Reporting Information (DocuSign First Signer)
Name: Jacobs
Address: 1563 Willis Ave
City, State, Zip: Syracuse, NY 13204
Contact; email:

Billing Information (DocuSign Second Signer)
Co. Name: Honeywell
Address: 301 Plainfield Road, Suite 330
City, State, Zip: Syracuse, NY 13202
HW RM email:

Sampling Co.: Jacobs

More Rows / Less Rows

	Sample Identification: Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Medium	# of Cont.	Composite (Y, N)	Field Filtered Sample (Y, N)	PAHs - 8270	TCLP+2 x Oil metals - 1311	Sampling Method (rt_sample_method)	Lab Sample Numbers
	Units										N	N	ug/kg	mg/kg		
1	N/A	—	—	Alltift-080123-WES	08-01-2023	1000	SOLID	Soil	REG	5	N	N	1	2		1
2	N/A	—	—	Alltift-080123-CTS	08-01-2023	1100	SOLID	Soil	REG	5	N	N	1	2		2
3	N/A	—	—	Alltift-080123-SS	08-01-2023	1300	SOLID	Soil	REG	5	N	N	1	2		3
4																
5															BI	
6															PS873	
7															14w1	
8															4088	
9																
10															Initial Assessment 2A JK	
11															Label Verification:	
12																

Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Custody Seals Intact
	Jacobs	08-03-23/1630	FEDEX			Cooler Temp	
Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Custody Seals Intact
Fed Ex		8/4/23 10:15				Cooler Temp: 4.6 IR-40	Lab Quote #

Preservatives: (Other; Specify):

0 (None); 1 (4 Deg C); 2 (4C HCl-Na2SO3 (pH<2)); 3 (4C HNO3); 4 (4C HNO3 (pH<2)); 5 (4C none); 6 (4CH2SO4pH<2)Na2S2O3); 7 (4CNaOH(pH>12)&AscAc); 8 (ASCACI); 9 (BrCl); 10 (DI H2O); 11 (EDTA); 12 (H2O); 13 (H2SO4 (pH<2)); 14 (H2SO4 (pH<2), 4 DegC); 15 (H3PO4); 16 (HCl); 17 (HCl (pH<2)); 18 (HCl (pH<2), 4 Deg C); 19 (HCL, 4 Deg C); 20 (HNO3 (pH<2)); 21 (HNO3 (pH<2), 4 Deg C); 22 (MCAA,Na2SO3); 23 (Methanol); 24 (Na2SO3); 25 (Na2SO4); 26 (Na3PO4); 27 (NaHSO4); 28 (NaOH); 29 (NaOH (pH>12)); 30 (NaOH (pH>12, 4 DegC); 31 (NaOH, Zn Acetate); 32 (Nitric Acid; 4 Deg C); 33 (Other); 34 (Zn Acetate); sp (Special).

FedEx Tracking #: [redacted]

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5.1 5

JD70494: Chain of Custody
Page 1 of 3

SGS Sample Receipt Summary

Job Number: JD70494 **Client:** WOOD ENVIRONMENT & INFRASTRUCT **Project:** HLAME: 30130-ALLTIFT LANDFILL, 579 TIFF

Date / Time Received: 8/4/2023 10:15:00 AM **Delivery Method:** Fedex **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (4.6);

Cooler Temps (Corrected) °C: Cooler 1: (4.3);

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 40		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservatio	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). All sample Received 2 x 40mL DiH2O preserved soil vials not frozen and outside of 48 hours from collection date/time.

Responded to by: Jadon Schiller Response Date: 8/4/23

okay to proceed.

QC Evaluation: Honeywell Limits

Job Number: JD70494
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 08/01/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
VI10201	SW846 8260D						
VI10201-BS	67-64-1	Acetone	BSP	REC	122	%	70-130
VI10201-BS	71-43-2	Benzene	BSP	REC	92	%	70-130
VI10201-BS	74-97-5	Bromochloromethane	BSP	REC	98	%	70-130
VI10201-BS	75-27-4	Bromodichloromethane	BSP	REC	93	%	70-130
VI10201-BS	75-25-2	Bromoform	BSP	REC	96	%	70-130
VI10201-BS	74-83-9	Bromomethane	BSP	REC	88	%	70-130
VI10201-BS	78-93-3	2-Butanone (MEK)	BSP	REC	118	%	70-130
VI10201-BS	75-15-0	Carbon disulfide	BSP	REC	82	%	70-130
VI10201-BS	56-23-5	Carbon tetrachloride	BSP	REC	95	%	70-130
VI10201-BS	108-90-7	Chlorobenzene	BSP	REC	89	%	70-130
VI10201-BS	75-00-3	Chloroethane	BSP	REC	95	%	70-130
VI10201-BS	67-66-3	Chloroform	BSP	REC	83	%	70-130
VI10201-BS	74-87-3	Chloromethane	BSP	REC	86	%	70-130
VI10201-BS	110-82-7	Cyclohexane	BSP	REC	95	%	70-130
VI10201-BS	96-12-8	1,2-Dibromo-3-chloropropane	BSP	REC	102	%	70-130
VI10201-BS	124-48-1	Dibromochloromethane	BSP	REC	92	%	70-130
VI10201-BS	106-93-4	1,2-Dibromoethane	BSP	REC	95	%	70-130
VI10201-BS	95-50-1	1,2-Dichlorobenzene	BSP	REC	93	%	70-130
VI10201-BS	541-73-1	1,3-Dichlorobenzene	BSP	REC	91	%	70-130
VI10201-BS	106-46-7	1,4-Dichlorobenzene	BSP	REC	88	%	70-130
VI10201-BS	75-71-8	Dichlorodifluoromethane	BSP	REC	81	%	70-130
VI10201-BS	75-34-3	1,1-Dichloroethane	BSP	REC	97	%	70-130
VI10201-BS	107-06-2	1,2-Dichloroethane	BSP	REC	92	%	70-130
VI10201-BS	75-35-4	1,1-Dichloroethene	BSP	REC	91	%	70-130
VI10201-BS	156-59-2	cis-1,2-Dichloroethene	BSP	REC	95	%	70-130
VI10201-BS	156-60-5	trans-1,2-Dichloroethene	BSP	REC	88	%	70-130
VI10201-BS	78-87-5	1,2-Dichloropropane	BSP	REC	95	%	70-130
VI10201-BS	10061-01-5	cis-1,3-Dichloropropene	BSP	REC	101	%	70-130
VI10201-BS	10061-02-6	trans-1,3-Dichloropropene	BSP	REC	97	%	70-130
VI10201-BS	100-41-4	Ethylbenzene	BSP	REC	91	%	70-130
VI10201-BS	76-13-1	Freon 113	BSP	REC	90	%	70-130
VI10201-BS	591-78-6	2-Hexanone	BSP	REC	120	%	70-130
VI10201-BS	98-82-8	Isopropylbenzene	BSP	REC	97	%	70-130
VI10201-BS	79-20-9	Methyl Acetate	BSP	REC	111	%	70-130
VI10201-BS	108-87-2	Methylcyclohexane	BSP	REC	94	%	70-130
VI10201-BS	1634-04-4	Methyl Tert Butyl Ether	BSP	REC	95	%	70-130
VI10201-BS	108-10-1	4-Methyl-2-pentanone(MIBK)	BSP	REC	108	%	70-130
VI10201-BS	75-09-2	Methylene chloride	BSP	REC	90	%	70-130
VI10201-BS	100-42-5	Styrene	BSP	REC	103	%	70-130
VI10201-BS	79-34-5	1,1,2,2-Tetrachloroethane	BSP	REC	92	%	70-130
VI10201-BS	127-18-4	Tetrachloroethene	BSP	REC	88	%	70-130
VI10201-BS	108-88-3	Toluene	BSP	REC	92	%	70-130

* Sample used for QC is not from job JD70494

QC Evaluation: Honeywell Limits

Job Number: JD70494
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 08/01/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
VI10201-BS	87-61-6	1,2,3-Trichlorobenzene	BSP	REC	79	%	70-130
VI10201-BS	120-82-1	1,2,4-Trichlorobenzene	BSP	REC	84	%	70-130
VI10201-BS	71-55-6	1,1,1-Trichloroethane	BSP	REC	92	%	70-130
VI10201-BS	79-00-5	1,1,2-Trichloroethane	BSP	REC	98	%	70-130
VI10201-BS	79-01-6	Trichloroethene	BSP	REC	88	%	70-130
VI10201-BS	75-69-4	Trichlorofluoromethane	BSP	REC	89	%	70-130
VI10201-BS	75-01-4	Vinyl chloride	BSP	REC	90	%	70-130
VI10201-BS		m,p-Xylene	BSP	REC	95	%	70-130
VI10201-BS	95-47-6	o-Xylene	BSP	REC	101	%	70-130
VI10201-BS	1330-20-7	Xylene (total)	BSP	REC	97	%	70-130
VI10201-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	101	%	70-130
VI10201-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	97	%	70-130
VI10201-BS	2037-26-5	Toluene-D8	BSP	SURR	99	%	70-130
VI10201-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	97	%	70-130
VI10201-BSD	67-64-1	Acetone	BSD	REC	130	%	70-130
VI10201-BSD	67-64-1	Acetone	BSD	RPD	7	%	30
VI10201-BSD	71-43-2	Benzene	BSD	REC	101	%	70-130
VI10201-BSD	71-43-2	Benzene	BSD	RPD	9	%	30
VI10201-BSD	74-97-5	Bromochloromethane	BSD	REC	101	%	70-130
VI10201-BSD	74-97-5	Bromochloromethane	BSD	RPD	3	%	30
VI10201-BSD	75-27-4	Bromodichloromethane	BSD	REC	99	%	70-130
VI10201-BSD	75-27-4	Bromodichloromethane	BSD	RPD	6	%	30
VI10201-BSD	75-25-2	Bromoform	BSD	REC	100	%	70-130
VI10201-BSD	75-25-2	Bromoform	BSD	RPD	4	%	30
VI10201-BSD	74-83-9	Bromomethane	BSD	REC	94	%	70-130
VI10201-BSD	74-83-9	Bromomethane	BSD	RPD	6	%	30
VI10201-BSD	78-93-3	2-Butanone (MEK)	BSD	REC	122	%	70-130
VI10201-BSD	78-93-3	2-Butanone (MEK)	BSD	RPD	3	%	30
VI10201-BSD	75-15-0	Carbon disulfide	BSD	REC	90	%	70-130
VI10201-BSD	75-15-0	Carbon disulfide	BSD	RPD	9	%	30
VI10201-BSD	56-23-5	Carbon tetrachloride	BSD	REC	105	%	70-130
VI10201-BSD	56-23-5	Carbon tetrachloride	BSD	RPD	11	%	30
VI10201-BSD	108-90-7	Chlorobenzene	BSD	REC	96	%	70-130
VI10201-BSD	108-90-7	Chlorobenzene	BSD	RPD	8	%	30
VI10201-BSD	75-00-3	Chloroethane	BSD	REC	106	%	70-130
VI10201-BSD	75-00-3	Chloroethane	BSD	RPD	11	%	30
VI10201-BSD	67-66-3	Chloroform	BSD	REC	89	%	70-130
VI10201-BSD	67-66-3	Chloroform	BSD	RPD	7	%	30
VI10201-BSD	74-87-3	Chloromethane	BSD	REC	91	%	70-130
VI10201-BSD	74-87-3	Chloromethane	BSD	RPD	6	%	30
VI10201-BSD	110-82-7	Cyclohexane	BSD	REC	105	%	70-130
VI10201-BSD	110-82-7	Cyclohexane	BSD	RPD	10	%	30
VI10201-BSD	96-12-8	1,2-Dibromo-3-chloropropane	BSD	REC	101	%	70-130
VI10201-BSD	96-12-8	1,2-Dibromo-3-chloropropane	BSD	RPD	1	%	30
VI10201-BSD	124-48-1	Dibromochloromethane	BSD	REC	99	%	70-130

* Sample used for QC is not from job JD70494

QC Evaluation: Honeywell Limits

Job Number: JD70494
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 08/01/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
VI10201-BSD	124-48-1	Dibromochloromethane	BSD	RPD	7	%	30
VI10201-BSD	106-93-4	1,2-Dibromoethane	BSD	REC	98	%	70-130
VI10201-BSD	106-93-4	1,2-Dibromoethane	BSD	RPD	4	%	30
VI10201-BSD	95-50-1	1,2-Dichlorobenzene	BSD	REC	99	%	70-130
VI10201-BSD	95-50-1	1,2-Dichlorobenzene	BSD	RPD	6	%	30
VI10201-BSD	541-73-1	1,3-Dichlorobenzene	BSD	REC	97	%	70-130
VI10201-BSD	541-73-1	1,3-Dichlorobenzene	BSD	RPD	7	%	30
VI10201-BSD	106-46-7	1,4-Dichlorobenzene	BSD	REC	95	%	70-130
VI10201-BSD	106-46-7	1,4-Dichlorobenzene	BSD	RPD	8	%	30
VI10201-BSD	75-71-8	Dichlorodifluoromethane	BSD	REC	90	%	70-130
VI10201-BSD	75-71-8	Dichlorodifluoromethane	BSD	RPD	11	%	30
VI10201-BSD	75-34-3	1,1-Dichloroethane	BSD	REC	105	%	70-130
VI10201-BSD	75-34-3	1,1-Dichloroethane	BSD	RPD	7	%	30
VI10201-BSD	107-06-2	1,2-Dichloroethane	BSD	REC	96	%	70-130
VI10201-BSD	107-06-2	1,2-Dichloroethane	BSD	RPD	4	%	30
VI10201-BSD	75-35-4	1,1-Dichloroethene	BSD	REC	102	%	70-130
VI10201-BSD	75-35-4	1,1-Dichloroethene	BSD	RPD	11	%	30
VI10201-BSD	156-59-2	cis-1,2-Dichloroethene	BSD	REC	101	%	70-130
VI10201-BSD	156-59-2	cis-1,2-Dichloroethene	BSD	RPD	6	%	30
VI10201-BSD	156-60-5	trans-1,2-Dichloroethene	BSD	REC	98	%	70-130
VI10201-BSD	156-60-5	trans-1,2-Dichloroethene	BSD	RPD	11 [a]	%	30
VI10201-BSD	78-87-5	1,2-Dichloropropane	BSD	REC	103	%	70-130
VI10201-BSD	78-87-5	1,2-Dichloropropane	BSD	RPD	8	%	30
VI10201-BSD	10061-01-5	cis-1,3-Dichloropropene	BSD	REC	108	%	70-130
VI10201-BSD	10061-01-5	cis-1,3-Dichloropropene	BSD	RPD	7	%	30
VI10201-BSD	10061-02-6	trans-1,3-Dichloropropene	BSD	REC	106	%	70-130
VI10201-BSD	10061-02-6	trans-1,3-Dichloropropene	BSD	RPD	9	%	30
VI10201-BSD	100-41-4	Ethylbenzene	BSD	REC	100	%	70-130
VI10201-BSD	100-41-4	Ethylbenzene	BSD	RPD	9	%	30
VI10201-BSD	76-13-1	Freon 113	BSD	REC	99	%	70-130
VI10201-BSD	76-13-1	Freon 113	BSD	RPD	9	%	30
VI10201-BSD	591-78-6	2-Hexanone	BSD	REC	119	%	70-130
VI10201-BSD	591-78-6	2-Hexanone	BSD	RPD	0	%	30
VI10201-BSD	98-82-8	Isopropylbenzene	BSD	REC	110	%	70-130
VI10201-BSD	98-82-8	Isopropylbenzene	BSD	RPD	12 [a]	%	30
VI10201-BSD	79-20-9	Methyl Acetate	BSD	REC	103	%	70-130
VI10201-BSD	79-20-9	Methyl Acetate	BSD	RPD	8	%	30
VI10201-BSD	108-87-2	Methylcyclohexane	BSD	REC	106	%	70-130
VI10201-BSD	108-87-2	Methylcyclohexane	BSD	RPD	12	%	30
VI10201-BSD	1634-04-4	Methyl Tert Butyl Ether	BSD	REC	100	%	70-130
VI10201-BSD	1634-04-4	Methyl Tert Butyl Ether	BSD	RPD	5	%	30
VI10201-BSD	108-10-1	4-Methyl-2-pentanone(MIBK)	BSD	REC	107	%	70-130
VI10201-BSD	108-10-1	4-Methyl-2-pentanone(MIBK)	BSD	RPD	1	%	30
VI10201-BSD	75-09-2	Methylene chloride	BSD	REC	96	%	70-130
VI10201-BSD	75-09-2	Methylene chloride	BSD	RPD	7	%	30

* Sample used for QC is not from job JD70494

QC Evaluation: Honeywell Limits

Job Number: JD70494
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 08/01/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
VI10201-BSD	100-42-5	Styrene	BSD	REC	114	%	70-130
VI10201-BSD	100-42-5	Styrene	BSD	RPD	11 [a]	%	30
VI10201-BSD	79-34-5	1,1,2,2-Tetrachloroethane	BSD	REC	92	%	70-130
VI10201-BSD	79-34-5	1,1,2,2-Tetrachloroethane	BSD	RPD	0	%	30
VI10201-BSD	127-18-4	Tetrachloroethene	BSD	REC	97	%	70-130
VI10201-BSD	127-18-4	Tetrachloroethene	BSD	RPD	10	%	30
VI10201-BSD	108-88-3	Toluene	BSD	REC	100	%	70-130
VI10201-BSD	108-88-3	Toluene	BSD	RPD	8	%	30
VI10201-BSD	87-61-6	1,2,3-Trichlorobenzene	BSD	REC	89	%	70-130
VI10201-BSD	87-61-6	1,2,3-Trichlorobenzene	BSD	RPD	11	%	30
VI10201-BSD	120-82-1	1,2,4-Trichlorobenzene	BSD	REC	93	%	70-130
VI10201-BSD	120-82-1	1,2,4-Trichlorobenzene	BSD	RPD	10	%	30
VI10201-BSD	71-55-6	1,1,1-Trichloroethane	BSD	REC	100	%	70-130
VI10201-BSD	71-55-6	1,1,1-Trichloroethane	BSD	RPD	9	%	30
VI10201-BSD	79-00-5	1,1,2-Trichloroethane	BSD	REC	104	%	70-130
VI10201-BSD	79-00-5	1,1,2-Trichloroethane	BSD	RPD	6	%	30
VI10201-BSD	79-01-6	Trichloroethene	BSD	REC	98	%	70-130
VI10201-BSD	79-01-6	Trichloroethene	BSD	RPD	11 [a]	%	30
VI10201-BSD	75-69-4	Trichlorofluoromethane	BSD	REC	98	%	70-130
VI10201-BSD	75-69-4	Trichlorofluoromethane	BSD	RPD	10	%	30
VI10201-BSD	75-01-4	Vinyl chloride	BSD	REC	100	%	70-130
VI10201-BSD	75-01-4	Vinyl chloride	BSD	RPD	10	%	30
VI10201-BSD		m,p-Xylene	BSD	REC	105	%	70-130
VI10201-BSD		m,p-Xylene	BSD	RPD	11 [a]	%	30
VI10201-BSD	95-47-6	o-Xylene	BSD	REC	112	%	70-130
VI10201-BSD	95-47-6	o-Xylene	BSD	RPD	10	%	30
VI10201-BSD	1330-20-7	Xylene (total)	BSD	REC	107	%	70-130
VI10201-BSD	1330-20-7	Xylene (total)	BSD	RPD	10	%	30
VI10201-BSD	1868-53-7	Dibromofluoromethane	BSD	SURR	98	%	70-130
VI10201-BSD	17060-07-0	1,2-Dichloroethane-D4	BSD	SURR	96	%	70-130
VI10201-BSD	2037-26-5	Toluene-D8	BSD	SURR	98	%	70-130
VI10201-BSD	460-00-4	4-Bromofluorobenzene	BSD	SURR	99	%	70-130
JD70398-1MS*	67-64-1	Acetone	MS	REC	92	%	70-130
JD70398-1MS*	71-43-2	Benzene	MS	REC	108	%	70-130
JD70398-1MS*	74-97-5	Bromochloromethane	MS	REC	105	%	70-130
JD70398-1MS*	75-27-4	Bromodichloromethane	MS	REC	102	%	70-130
JD70398-1MS*	75-25-2	Bromoform	MS	REC	95	%	70-130
JD70398-1MS*	74-83-9	Bromomethane	MS	REC	101	%	70-130
JD70398-1MS*	78-93-3	2-Butanone (MEK)	MS	REC	98	%	70-130
JD70398-1MS*	75-15-0	Carbon disulfide	MS	REC	99	%	70-130
JD70398-1MS*	56-23-5	Carbon tetrachloride	MS	REC	112	%	70-130
JD70398-1MS*	108-90-7	Chlorobenzene	MS	REC	95	%	70-130
JD70398-1MS*	75-00-3	Chloroethane	MS	REC	112	%	70-130
JD70398-1MS*	67-66-3	Chloroform	MS	REC	98	%	70-130
JD70398-1MS*	74-87-3	Chloromethane	MS	REC	105	%	70-130

* Sample used for QC is not from job JD70494

QC Evaluation: Honeywell Limits

Job Number: JD70494
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 08/01/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD70398-1MS*	110-82-7	Cyclohexane	MS	REC	108	%	70-130
JD70398-1MS*	96-12-8	1,2-Dibromo-3-chloropropane	MS	REC	90	%	70-130
JD70398-1MS*	124-48-1	Dibromochloromethane	MS	REC	95	%	70-130
JD70398-1MS*	106-93-4	1,2-Dibromoethane	MS	REC	94	%	70-130
JD70398-1MS*	95-50-1	1,2-Dichlorobenzene	MS	REC	91	%	70-130
JD70398-1MS*	541-73-1	1,3-Dichlorobenzene	MS	REC	91	%	70-130
JD70398-1MS*	106-46-7	1,4-Dichlorobenzene	MS	REC	88	%	70-130
JD70398-1MS*	75-71-8	Dichlorodifluoromethane	MS	REC	97	%	70-130
JD70398-1MS*	75-34-3	1,1-Dichloroethane	MS	REC	115	%	70-130
JD70398-1MS*	107-06-2	1,2-Dichloroethane	MS	REC	97	%	70-130
JD70398-1MS*	75-35-4	1,1-Dichloroethene	MS	REC	110	%	70-130
JD70398-1MS*	156-59-2	cis-1,2-Dichloroethene	MS	REC	109	%	70-130
JD70398-1MS*	156-60-5	trans-1,2-Dichloroethene	MS	REC	105	%	70-130
JD70398-1MS*	78-87-5	1,2-Dichloropropane	MS	REC	109	%	70-130
JD70398-1MS*	10061-01-5	cis-1,3-Dichloropropene	MS	REC	106	%	70-130
JD70398-1MS*	10061-02-6	trans-1,3-Dichloropropene	MS	REC	99	%	70-130
JD70398-1MS*	100-41-4	Ethylbenzene	MS	REC	98	%	70-130
JD70398-1MS*	76-13-1	Freon 113	MS	REC	99	%	70-130
JD70398-1MS*	591-78-6	2-Hexanone	MS	REC	104	%	70-130
JD70398-1MS*	98-82-8	Isopropylbenzene	MS	REC	102	%	70-130
JD70398-1MS*	79-20-9	Methyl Acetate	MS	REC	112	%	70-130
JD70398-1MS*	108-87-2	Methylcyclohexane	MS	REC	94	%	70-130
JD70398-1MS*	1634-04-4	Methyl Tert Butyl Ether	MS	REC	100	%	70-130
JD70398-1MS*	108-10-1	4-Methyl-2-pentanone(MIBK)	MS	REC	102	%	70-130
JD70398-1MS*	75-09-2	Methylene chloride	MS	REC	103	%	70-130
JD70398-1MS*	100-42-5	Styrene	MS	REC	110	%	70-130
JD70398-1MS*	79-34-5	1,1,2,2-Tetrachloroethane	MS	REC	84	%	70-130
JD70398-1MS*	127-18-4	Tetrachloroethene	MS	REC	95	%	70-130
JD70398-1MS*	108-88-3	Toluene	MS	REC	101	%	70-130
JD70398-1MS*	87-61-6	1,2,3-Trichlorobenzene	MS	REC	69	%	70-130
JD70398-1MS*	120-82-1	1,2,4-Trichlorobenzene	MS	REC	71	%	70-130
JD70398-1MS*	71-55-6	1,1,1-Trichloroethane	MS	REC	107	%	70-130
JD70398-1MS*	79-00-5	1,1,2-Trichloroethane	MS	REC	99	%	70-130
JD70398-1MS*	79-01-6	Trichloroethene	MS	REC	106	%	70-130
JD70398-1MS*	75-69-4	Trichlorofluoromethane	MS	REC	106	%	70-130
JD70398-1MS*	75-01-4	Vinyl chloride	MS	REC	112	%	70-130
JD70398-1MS*		m,p-Xylene	MS	REC	102	%	70-130
JD70398-1MS*	95-47-6	o-Xylene	MS	REC	110	%	70-130
JD70398-1MS*	1330-20-7	Xylene (total)	MS	REC	104	%	70-130
JD70398-1MS*	1868-53-7	Dibromofluoromethane	MS	SURR	105	%	70-130
JD70398-1MS*	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	97	%	70-130
JD70398-1MS*	2037-26-5	Toluene-D8	MS	SURR	98	%	70-130
JD70398-1MS*	460-00-4	4-Bromofluorobenzene	MS	SURR	98	%	70-130
JD70398-2DUP*	67-64-1	Acetone	DUP	RPD	0	%	50
JD70398-2DUP*	71-43-2	Benzene	DUP	RPD	0	%	50

* Sample used for QC is not from job JD70494

QC Evaluation: Honeywell Limits

Job Number: JD70494
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 08/01/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD70398-2DUP*	74-97-5	Bromochloromethane	DUP	RPD	0	%	50
JD70398-2DUP*	75-27-4	Bromodichloromethane	DUP	RPD	0	%	50
JD70398-2DUP*	75-25-2	Bromoform	DUP	RPD	0	%	50
JD70398-2DUP*	74-83-9	Bromomethane	DUP	RPD	0	%	50
JD70398-2DUP*	78-93-3	2-Butanone (MEK)	DUP	RPD	0	%	50
JD70398-2DUP*	75-15-0	Carbon disulfide	DUP	RPD	0	%	50
JD70398-2DUP*	56-23-5	Carbon tetrachloride	DUP	RPD	0	%	50
JD70398-2DUP*	108-90-7	Chlorobenzene	DUP	RPD	0	%	50
JD70398-2DUP*	75-00-3	Chloroethane	DUP	RPD	0	%	50
JD70398-2DUP*	67-66-3	Chloroform	DUP	RPD	0	%	50
JD70398-2DUP*	74-87-3	Chloromethane	DUP	RPD	0	%	50
JD70398-2DUP*	110-82-7	Cyclohexane	DUP	RPD	0	%	50
JD70398-2DUP*	96-12-8	1,2-Dibromo-3-chloropropane	DUP	RPD	0	%	50
JD70398-2DUP*	124-48-1	Dibromochloromethane	DUP	RPD	0	%	50
JD70398-2DUP*	106-93-4	1,2-Dibromoethane	DUP	RPD	0	%	50
JD70398-2DUP*	95-50-1	1,2-Dichlorobenzene	DUP	RPD	0	%	50
JD70398-2DUP*	541-73-1	1,3-Dichlorobenzene	DUP	RPD	0	%	50
JD70398-2DUP*	106-46-7	1,4-Dichlorobenzene	DUP	RPD	0	%	50
JD70398-2DUP*	75-71-8	Dichlorodifluoromethane	DUP	RPD	0	%	50
JD70398-2DUP*	75-34-3	1,1-Dichloroethane	DUP	RPD	0	%	50
JD70398-2DUP*	107-06-2	1,2-Dichloroethane	DUP	RPD	0	%	50
JD70398-2DUP*	75-35-4	1,1-Dichloroethene	DUP	RPD	0	%	50
JD70398-2DUP*	156-59-2	cis-1,2-Dichloroethene	DUP	RPD	0	%	50
JD70398-2DUP*	156-60-5	trans-1,2-Dichloroethene	DUP	RPD	0	%	50
JD70398-2DUP*	78-87-5	1,2-Dichloropropane	DUP	RPD	0	%	50
JD70398-2DUP*	10061-01-5	cis-1,3-Dichloropropene	DUP	RPD	0	%	50
JD70398-2DUP*	10061-02-6	trans-1,3-Dichloropropene	DUP	RPD	0	%	50
JD70398-2DUP*	100-41-4	Ethylbenzene	DUP	RPD	0	%	50
JD70398-2DUP*	76-13-1	Freon 113	DUP	RPD	0	%	50
JD70398-2DUP*	591-78-6	2-Hexanone	DUP	RPD	0	%	50
JD70398-2DUP*	98-82-8	Isopropylbenzene	DUP	RPD	0	%	50
JD70398-2DUP*	79-20-9	Methyl Acetate	DUP	RPD	0	%	50
JD70398-2DUP*	108-87-2	Methylcyclohexane	DUP	RPD	0	%	50
JD70398-2DUP*	1634-04-4	Methyl Tert Butyl Ether	DUP	RPD	0	%	50
JD70398-2DUP*	108-10-1	4-Methyl-2-pentanone(MIBK)	DUP	RPD	0	%	50
JD70398-2DUP*	75-09-2	Methylene chloride	DUP	RPD	0	%	50
JD70398-2DUP*	100-42-5	Styrene	DUP	RPD	0	%	50
JD70398-2DUP*	79-34-5	1,1,2,2-Tetrachloroethane	DUP	RPD	0	%	50
JD70398-2DUP*	127-18-4	Tetrachloroethene	DUP	RPD	0	%	50
JD70398-2DUP*	108-88-3	Toluene	DUP	RPD	0	%	50
JD70398-2DUP*	87-61-6	1,2,3-Trichlorobenzene	DUP	RPD	0	%	50
JD70398-2DUP*	120-82-1	1,2,4-Trichlorobenzene	DUP	RPD	0	%	50
JD70398-2DUP*	71-55-6	1,1,1-Trichloroethane	DUP	RPD	0	%	50
JD70398-2DUP*	79-00-5	1,1,2-Trichloroethane	DUP	RPD	0	%	50
JD70398-2DUP*	79-01-6	Trichloroethene	DUP	RPD	0	%	50

* Sample used for QC is not from job JD70494

QC Evaluation: Honeywell Limits

Job Number: JD70494
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 08/01/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD70398-2DUP*	75-69-4	Trichlorofluoromethane	DUP	RPD	0	%	50
JD70398-2DUP*	75-01-4	Vinyl chloride	DUP	RPD	0	%	50
JD70398-2DUP*		m,p-Xylene	DUP	RPD	0	%	50
JD70398-2DUP*	95-47-6	o-Xylene	DUP	RPD	0	%	50
JD70398-2DUP*	1330-20-7	Xylene (total)	DUP	RPD	0	%	50
JD70398-2DUP*	1868-53-7	Dibromofluoromethane	DUP	SURR	114	%	70-130
JD70398-2DUP*	17060-07-0	1,2-Dichloroethane-D4	DUP	SURR	107	%	70-130
JD70398-2DUP*	2037-26-5	Toluene-D8	DUP	SURR	100	%	70-130
JD70398-2DUP*	460-00-4	4-Bromofluorobenzene	DUP	SURR	95	%	70-130
VI10201-MB	1868-53-7	Dibromofluoromethane	MB	SURR	104	%	70-130
VI10201-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	101	%	70-130
VI10201-MB	2037-26-5	Toluene-D8	MB	SURR	101	%	70-130
VI10201-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	95	%	70-130
JD70494-1	1868-53-7	Dibromofluoromethane	SAMP	SURR	115	%	70-130
JD70494-1	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	112	%	70-130
JD70494-1	2037-26-5	Toluene-D8	SAMP	SURR	101	%	70-130
JD70494-1	460-00-4	4-Bromofluorobenzene	SAMP	SURR	95	%	70-130
JD70494-2	1868-53-7	Dibromofluoromethane	SAMP	SURR	117	%	70-130
JD70494-2	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	112	%	70-130
JD70494-2	2037-26-5	Toluene-D8	SAMP	SURR	100	%	70-130
JD70494-2	460-00-4	4-Bromofluorobenzene	SAMP	SURR	95	%	70-130
JD70494-3	1868-53-7	Dibromofluoromethane	SAMP	SURR	118	%	70-130
JD70494-3	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	113	%	70-130
JD70494-3	2037-26-5	Toluene-D8	SAMP	SURR	102	%	70-130
JD70494-3	460-00-4	4-Bromofluorobenzene	SAMP	SURR	101	%	70-130
OP48277	SW846 8270E						
OP48277-BS1	95-57-8	2-Chlorophenol	BSP	REC	62	%	30-130
OP48277-BS1	59-50-7	4-Chloro-3-methyl phenol	BSP	REC	64	%	30-130
OP48277-BS1	120-83-2	2,4-Dichlorophenol	BSP	REC	64	%	30-130
OP48277-BS1	105-67-9	2,4-Dimethylphenol	BSP	REC	62	%	30-130
OP48277-BS1	51-28-5	2,4-Dinitrophenol	BSP	REC	80	%	30-130
OP48277-BS1	534-52-1	4,6-Dinitro-o-cresol	BSP	REC	91	%	30-130
OP48277-BS1	95-48-7	2-Methylphenol	BSP	REC	61	%	30-130
OP48277-BS1		3&4-Methylphenol	BSP	REC	64	%	30-130
OP48277-BS1	88-75-5	2-Nitrophenol	BSP	REC	68	%	30-130
OP48277-BS1	100-02-7	4-Nitrophenol	BSP	REC	60	%	30-130
OP48277-BS1	87-86-5	Pentachlorophenol	BSP	REC	72	%	30-130
OP48277-BS1	108-95-2	Phenol	BSP	REC	60	%	30-130
OP48277-BS1	58-90-2	2,3,4,6-Tetrachlorophenol	BSP	REC	76	%	30-130
OP48277-BS1	95-95-4	2,4,5-Trichlorophenol	BSP	REC	76	%	30-130
OP48277-BS1	88-06-2	2,4,6-Trichlorophenol	BSP	REC	75	%	30-130
OP48277-BS1	83-32-9	Acenaphthene	BSP	REC	69	%	40-140
OP48277-BS1	208-96-8	Acenaphthylene	BSP	REC	70	%	40-140

* Sample used for QC is not from job JD70494

QC Evaluation: Honeywell Limits

Job Number: JD70494
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 08/01/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP48277-BS1	98-86-2	Acetophenone	BSP	REC	57	%	40-140
OP48277-BS1	120-12-7	Anthracene	BSP	REC	74	%	40-140
OP48277-BS1	1912-24-9	Atrazine	BSP	REC	77	%	40-140
OP48277-BS1	56-55-3	Benzo(a)anthracene	BSP	REC	68	%	40-140
OP48277-BS1	50-32-8	Benzo(a)pyrene	BSP	REC	73	%	40-140
OP48277-BS1	205-99-2	Benzo(b)fluoranthene	BSP	REC	70	%	40-140
OP48277-BS1	191-24-2	Benzo(g,h,i)perylene	BSP	REC	76	%	40-140
OP48277-BS1	207-08-9	Benzo(k)fluoranthene	BSP	REC	70	%	40-140
OP48277-BS1	101-55-3	4-Bromophenyl phenyl ether	BSP	REC	74	%	40-140
OP48277-BS1	85-68-7	Butyl benzyl phthalate	BSP	REC	73	%	40-140
OP48277-BS1	92-52-4	1,1'-Biphenyl	BSP	REC	68	%	40-140
OP48277-BS1	100-52-7	Benzaldehyde	BSP	REC	53	%	40-140
OP48277-BS1	91-58-7	2-Chloronaphthalene	BSP	REC	67	%	40-140
OP48277-BS1	106-47-8	4-Chloroaniline	BSP	REC	54	%	40-140
OP48277-BS1	86-74-8	Carbazole	BSP	REC	73	%	40-140
OP48277-BS1	105-60-2	Caprolactam	BSP	REC	64	%	40-140
OP48277-BS1	218-01-9	Chrysene	BSP	REC	73	%	40-140
OP48277-BS1	111-91-1	bis(2-Chloroethoxy)methane	BSP	REC	56	%	40-140
OP48277-BS1	111-44-4	bis(2-Chloroethyl)ether	BSP	REC	55	%	40-140
OP48277-BS1	108-60-1	2,2'-Oxybis(1-chloropropane)	BSP	REC	59	%	40-140
OP48277-BS1	7005-72-3	4-Chlorophenyl phenyl ether	BSP	REC	74	%	40-140
OP48277-BS1	121-14-2	2,4-Dinitrotoluene	BSP	REC	84	%	40-140
OP48277-BS1	606-20-2	2,6-Dinitrotoluene	BSP	REC	83	%	40-140
OP48277-BS1	91-94-1	3,3'-Dichlorobenzidine	BSP	REC	65	%	40-140
OP48277-BS1	123-91-1	1,4-Dioxane	BSP	REC	31	%	40-140
OP48277-BS1	53-70-3	Dibenzo(a,h)anthracene	BSP	REC	76	%	40-140
OP48277-BS1	132-64-9	Dibenzofuran	BSP	REC	71	%	40-140
OP48277-BS1	84-74-2	Di-n-butyl phthalate	BSP	REC	71	%	40-140
OP48277-BS1	117-84-0	Di-n-octyl phthalate	BSP	REC	71	%	40-140
OP48277-BS1	84-66-2	Diethyl phthalate	BSP	REC	72	%	40-140
OP48277-BS1	131-11-3	Dimethyl phthalate	BSP	REC	72	%	40-140
OP48277-BS1	117-81-7	bis(2-Ethylhexyl)phthalate	BSP	REC	71	%	40-140
OP48277-BS1	206-44-0	Fluoranthene	BSP	REC	74	%	40-140
OP48277-BS1	86-73-7	Fluorene	BSP	REC	71	%	40-140
OP48277-BS1	118-74-1	Hexachlorobenzene	BSP	REC	75	%	40-140
OP48277-BS1	87-68-3	Hexachlorobutadiene	BSP	REC	62	%	40-140
OP48277-BS1	77-47-4	Hexachlorocyclopentadiene	BSP	REC	46	%	40-140
OP48277-BS1	67-72-1	Hexachloroethane	BSP	REC	59	%	40-140
OP48277-BS1	193-39-5	Indeno(1,2,3-cd)pyrene	BSP	REC	73	%	40-140
OP48277-BS1	78-59-1	Isophorone	BSP	REC	61	%	40-140
OP48277-BS1	91-57-6	2-Methylnaphthalene	BSP	REC	58	%	40-140
OP48277-BS1	88-74-4	2-Nitroaniline	BSP	REC	67	%	40-140
OP48277-BS1	99-09-2	3-Nitroaniline	BSP	REC	64	%	40-140
OP48277-BS1	100-01-6	4-Nitroaniline	BSP	REC	82	%	40-140
OP48277-BS1	91-20-3	Naphthalene	BSP	REC	62	%	40-140

* Sample used for QC is not from job JD70494

QC Evaluation: Honeywell Limits

Job Number: JD70494
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 08/01/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP48277-BS1	98-95-3	Nitrobenzene	BSP	REC	62	%	40-140
OP48277-BS1	621-64-7	N-Nitroso-di-n-propylamine	BSP	REC	56	%	40-140
OP48277-BS1	86-30-6	N-Nitrosodiphenylamine	BSP	REC	74	%	40-140
OP48277-BS1	85-01-8	Phenanthrene	BSP	REC	71	%	40-140
OP48277-BS1	129-00-0	Pyrene	BSP	REC	65	%	40-140
OP48277-BS1	95-94-3	1,2,4,5-Tetrachlorobenzene	BSP	REC	68	%	40-140
OP48277-BS1	367-12-4	2-Fluorophenol	BSP	SURR	60	%	30-130
OP48277-BS1	4165-62-2	Phenol-d5	BSP	SURR	63	%	30-130
OP48277-BS1	118-79-6	2,4,6-Tribromophenol	BSP	SURR	81	%	30-130
OP48277-BS1	4165-60-0	Nitrobenzene-d5	BSP	SURR	60	%	30-130
OP48277-BS1	321-60-8	2-Fluorobiphenyl	BSP	SURR	68	%	30-130
OP48277-BS1	1718-51-0	Terphenyl-d14	BSP	SURR	73	%	30-130
OP48277-MS*	95-57-8	2-Chlorophenol	MS	REC	54	%	30-130
OP48277-MS*	59-50-7	4-Chloro-3-methyl phenol	MS	REC	49	%	30-130
OP48277-MS*	120-83-2	2,4-Dichlorophenol	MS	REC	52	%	30-130
OP48277-MS*	105-67-9	2,4-Dimethylphenol	MS	REC	41	%	30-130
OP48277-MS*	51-28-5	2,4-Dinitrophenol	MS	REC	45	%	30-130
OP48277-MS*	534-52-1	4,6-Dinitro-o-cresol	MS	REC	59	%	30-130
OP48277-MS*	95-48-7	2-Methylphenol	MS	REC	42	%	30-130
OP48277-MS*		3&4-Methylphenol	MS	REC	44	%	30-130
OP48277-MS*	88-75-5	2-Nitrophenol	MS	REC	57	%	30-130
OP48277-MS*	100-02-7	4-Nitrophenol	MS	REC	40	%	30-130
OP48277-MS*	87-86-5	Pentachlorophenol	MS	REC	52	%	30-130
OP48277-MS*	108-95-2	Phenol	MS	REC	53	%	30-130
OP48277-MS*	58-90-2	2,3,4,6-Tetrachlorophenol	MS	REC	55	%	30-130
OP48277-MS*	95-95-4	2,4,5-Trichlorophenol	MS	REC	57	%	30-130
OP48277-MS*	88-06-2	2,4,6-Trichlorophenol	MS	REC	53	%	30-130
OP48277-MS*	83-32-9	Acenaphthene	MS	REC	52	%	40-140
OP48277-MS*	208-96-8	Acenaphthylene	MS	REC	52	%	40-140
OP48277-MS*	98-86-2	Acetophenone	MS	REC	44	%	40-140
OP48277-MS*	120-12-7	Anthracene	MS	REC	55	%	40-140
OP48277-MS*	1912-24-9	Atrazine	MS	REC	56	%	40-140
OP48277-MS*	56-55-3	Benzo(a)anthracene	MS	REC	50	%	40-140
OP48277-MS*	50-32-8	Benzo(a)pyrene	MS	REC	53	%	40-140
OP48277-MS*	205-99-2	Benzo(b)fluoranthene	MS	REC	49	%	40-140
OP48277-MS*	191-24-2	Benzo(g,h,i)perylene	MS	REC	56	%	40-140
OP48277-MS*	207-08-9	Benzo(k)fluoranthene	MS	REC	56	%	40-140
OP48277-MS*	101-55-3	4-Bromophenyl phenyl ether	MS	REC	57	%	40-140
OP48277-MS*	85-68-7	Butyl benzyl phthalate	MS	REC	53	%	40-140
OP48277-MS*	92-52-4	1,1'-Biphenyl	MS	REC	52	%	40-140
OP48277-MS*	100-52-7	Benzaldehyde	MS	REC	50	%	40-140
OP48277-MS*	91-58-7	2-Chloronaphthalene	MS	REC	52	%	40-140
OP48277-MS*	106-47-8	4-Chloroaniline	MS	REC	36	%	40-140
OP48277-MS*	86-74-8	Carbazole	MS	REC	53	%	40-140
OP48277-MS*	105-60-2	Caprolactam	MS	REC	40	%	40-140

* Sample used for QC is not from job JD70494

QC Evaluation: Honeywell Limits

Job Number: JD70494
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 08/01/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP48277-MS*	218-01-9	Chrysene	MS	REC	54	%	40-140
OP48277-MS*	111-91-1	bis(2-Chloroethoxy)methane	MS	REC	48	%	40-140
OP48277-MS*	111-44-4	bis(2-Chloroethyl)ether	MS	REC	49	%	40-140
OP48277-MS*	108-60-1	2,2'-Oxybis(1-chloropropane)	MS	REC	47	%	40-140
OP48277-MS*	7005-72-3	4-Chlorophenyl phenyl ether	MS	REC	55	%	40-140
OP48277-MS*	121-14-2	2,4-Dinitrotoluene	MS	REC	59	%	40-140
OP48277-MS*	606-20-2	2,6-Dinitrotoluene	MS	REC	62	%	40-140
OP48277-MS*	91-94-1	3,3'-Dichlorobenzidine	MS	REC	35	%	40-140
OP48277-MS*	123-91-1	1,4-Dioxane	MS	REC	30	%	40-140
OP48277-MS*	53-70-3	Dibenzo(a,h)anthracene	MS	REC	56	%	40-140
OP48277-MS*	132-64-9	Dibenzofuran	MS	REC	53	%	40-140
OP48277-MS*	84-74-2	Di-n-butyl phthalate	MS	REC	53	%	40-140
OP48277-MS*	117-84-0	Di-n-octyl phthalate	MS	REC	53	%	40-140
OP48277-MS*	84-66-2	Diethyl phthalate	MS	REC	52	%	40-140
OP48277-MS*	131-11-3	Dimethyl phthalate	MS	REC	54	%	40-140
OP48277-MS*	117-81-7	bis(2-Ethylhexyl)phthalate	MS	REC	52	%	40-140
OP48277-MS*	206-44-0	Fluoranthene	MS	REC	54	%	40-140
OP48277-MS*	86-73-7	Fluorene	MS	REC	54	%	40-140
OP48277-MS*	118-74-1	Hexachlorobenzene	MS	REC	57	%	40-140
OP48277-MS*	87-68-3	Hexachlorobutadiene	MS	REC	51	%	40-140
OP48277-MS*	77-47-4	Hexachlorocyclopentadiene	MS	REC	35	%	40-140
OP48277-MS*	67-72-1	Hexachloroethane	MS	REC	46	%	40-140
OP48277-MS*	193-39-5	Indeno(1,2,3-cd)pyrene	MS	REC	54	%	40-140
OP48277-MS*	78-59-1	Isophorone	MS	REC	48	%	40-140
OP48277-MS*	91-57-6	2-Methylnaphthalene	MS	REC	50	%	40-140
OP48277-MS*	88-74-4	2-Nitroaniline	MS	REC	48	%	40-140
OP48277-MS*	99-09-2	3-Nitroaniline	MS	REC	50	%	40-140
OP48277-MS*	100-01-6	4-Nitroaniline	MS	REC	52	%	40-140
OP48277-MS*	91-20-3	Naphthalene	MS	REC	49	%	40-140
OP48277-MS*	98-95-3	Nitrobenzene	MS	REC	47	%	40-140
OP48277-MS*	621-64-7	N-Nitroso-di-n-propylamine	MS	REC	42	%	40-140
OP48277-MS*	86-30-6	N-Nitrosodiphenylamine	MS	REC	53	%	40-140
OP48277-MS*	85-01-8	Phenanthrene	MS	REC	54	%	40-140
OP48277-MS*	129-00-0	Pyrene	MS	REC	48	%	40-140
OP48277-MS*	95-94-3	1,2,4,5-Tetrachlorobenzene	MS	REC	53	%	40-140
OP48277-MS*	367-12-4	2-Fluorophenol	MS	SURR	53	%	30-130
OP48277-MS*	4165-62-2	Phenol-d5	MS	SURR	58	%	30-130
OP48277-MS*	118-79-6	2,4,6-Tribromophenol	MS	SURR	60	%	30-130
OP48277-MS*	4165-60-0	Nitrobenzene-d5	MS	SURR	47	%	30-130
OP48277-MS*	321-60-8	2-Fluorobiphenyl	MS	SURR	52	%	30-130
OP48277-MS*	1718-51-0	Terphenyl-d14	MS	SURR	50	%	30-130
OP48277-MSD*	95-57-8	2-Chlorophenol	MSD	REC	57	%	30-130
OP48277-MSD*	95-57-8	2-Chlorophenol	MSD	RPD	5	%	30
OP48277-MSD*	59-50-7	4-Chloro-3-methyl phenol	MSD	REC	61	%	30-130
OP48277-MSD*	59-50-7	4-Chloro-3-methyl phenol	MSD	RPD	20	%	30

* Sample used for QC is not from job JD70494

QC Evaluation: Honeywell Limits

Job Number: JD70494
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 08/01/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP48277-MSD*	120-83-2	2,4-Dichlorophenol	MSD	REC	64	%	30-130
OP48277-MSD*	120-83-2	2,4-Dichlorophenol	MSD	RPD	19	%	30
OP48277-MSD*	105-67-9	2,4-Dimethylphenol	MSD	REC	43	%	30-130
OP48277-MSD*	105-67-9	2,4-Dimethylphenol	MSD	RPD	6	%	30
OP48277-MSD*	51-28-5	2,4-Dinitrophenol	MSD	REC	60	%	30-130
OP48277-MSD*	51-28-5	2,4-Dinitrophenol	MSD	RPD	28	%	30
OP48277-MSD*	534-52-1	4,6-Dinitro-o-cresol	MSD	REC	82	%	30-130
OP48277-MSD*	534-52-1	4,6-Dinitro-o-cresol	MSD	RPD	31	%	30
OP48277-MSD*	95-48-7	2-Methylphenol	MSD	REC	46	%	30-130
OP48277-MSD*	95-48-7	2-Methylphenol	MSD	RPD	8	%	30
OP48277-MSD*		3&4-Methylphenol	MSD	REC	45	%	30-130
OP48277-MSD*		3&4-Methylphenol	MSD	RPD	1	%	30
OP48277-MSD*	88-75-5	2-Nitrophenol	MSD	REC	69	%	30-130
OP48277-MSD*	88-75-5	2-Nitrophenol	MSD	RPD	19	%	30
OP48277-MSD*	100-02-7	4-Nitrophenol	MSD	REC	54	%	30-130
OP48277-MSD*	100-02-7	4-Nitrophenol	MSD	RPD	29	%	30
OP48277-MSD*	87-86-5	Pentachlorophenol	MSD	REC	67	%	30-130
OP48277-MSD*	87-86-5	Pentachlorophenol	MSD	RPD	23	%	30
OP48277-MSD*	108-95-2	Phenol	MSD	REC	54	%	30-130
OP48277-MSD*	108-95-2	Phenol	MSD	RPD	1	%	30
OP48277-MSD*	58-90-2	2,3,4,6-Tetrachlorophenol	MSD	REC	70	%	30-130
OP48277-MSD*	58-90-2	2,3,4,6-Tetrachlorophenol	MSD	RPD	23	%	30
OP48277-MSD*	95-95-4	2,4,5-Trichlorophenol	MSD	REC	71	%	30-130
OP48277-MSD*	95-95-4	2,4,5-Trichlorophenol	MSD	RPD	21	%	30
OP48277-MSD*	88-06-2	2,4,6-Trichlorophenol	MSD	REC	66	%	30-130
OP48277-MSD*	88-06-2	2,4,6-Trichlorophenol	MSD	RPD	21	%	30
OP48277-MSD*	83-32-9	Acenaphthene	MSD	REC	64	%	40-140
OP48277-MSD*	83-32-9	Acenaphthene	MSD	RPD	20	%	30
OP48277-MSD*	208-96-8	Acenaphthylene	MSD	REC	63	%	40-140
OP48277-MSD*	208-96-8	Acenaphthylene	MSD	RPD	18	%	30
OP48277-MSD*	98-86-2	Acetophenone	MSD	REC	46	%	40-140
OP48277-MSD*	98-86-2	Acetophenone	MSD	RPD	4	%	30
OP48277-MSD*	120-12-7	Anthracene	MSD	REC	68	%	40-140
OP48277-MSD*	120-12-7	Anthracene	MSD	RPD	19	%	30
OP48277-MSD*	1912-24-9	Atrazine	MSD	REC	69	%	40-140
OP48277-MSD*	1912-24-9	Atrazine	MSD	RPD	20	%	30
OP48277-MSD*	56-55-3	Benzo(a)anthracene	MSD	REC	64	%	40-140
OP48277-MSD*	56-55-3	Benzo(a)anthracene	MSD	RPD	23	%	30
OP48277-MSD*	50-32-8	Benzo(a)pyrene	MSD	REC	66	%	40-140
OP48277-MSD*	50-32-8	Benzo(a)pyrene	MSD	RPD	21	%	30
OP48277-MSD*	205-99-2	Benzo(b)fluoranthene	MSD	REC	61	%	40-140
OP48277-MSD*	205-99-2	Benzo(b)fluoranthene	MSD	RPD	21	%	30
OP48277-MSD*	191-24-2	Benzo(g,h,i)perylene	MSD	REC	71	%	40-140
OP48277-MSD*	191-24-2	Benzo(g,h,i)perylene	MSD	RPD	23	%	30
OP48277-MSD*	207-08-9	Benzo(k)fluoranthene	MSD	REC	72	%	40-140

* Sample used for QC is not from job JD70494

QC Evaluation: Honeywell Limits

Job Number: JD70494
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 08/01/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP48277-MSD*	207-08-9	Benzo(k)fluoranthene	MSD	RPD	25	%	30
OP48277-MSD*	101-55-3	4-Bromophenyl phenyl ether	MSD	REC	72	%	40-140
OP48277-MSD*	101-55-3	4-Bromophenyl phenyl ether	MSD	RPD	22	%	30
OP48277-MSD*	85-68-7	Butyl benzyl phthalate	MSD	REC	70	%	40-140
OP48277-MSD*	85-68-7	Butyl benzyl phthalate	MSD	RPD	26	%	30
OP48277-MSD*	92-52-4	1,1'-Biphenyl	MSD	REC	63	%	40-140
OP48277-MSD*	92-52-4	1,1'-Biphenyl	MSD	RPD	18	%	30
OP48277-MSD*	100-52-7	Benzaldehyde	MSD	REC	52	%	40-140
OP48277-MSD*	100-52-7	Benzaldehyde	MSD	RPD	4	%	30
OP48277-MSD*	91-58-7	2-Chloronaphthalene	MSD	REC	64	%	40-140
OP48277-MSD*	91-58-7	2-Chloronaphthalene	MSD	RPD	20	%	30
OP48277-MSD*	106-47-8	4-Chloroaniline	MSD	REC	45	%	40-140
OP48277-MSD*	106-47-8	4-Chloroaniline	MSD	RPD	21	%	30
OP48277-MSD*	86-74-8	Carbazole	MSD	REC	68	%	40-140
OP48277-MSD*	86-74-8	Carbazole	MSD	RPD	23	%	30
OP48277-MSD*	105-60-2	Caprolactam	MSD	REC	51	%	40-140
OP48277-MSD*	105-60-2	Caprolactam	MSD	RPD	23	%	30
OP48277-MSD*	218-01-9	Chrysene	MSD	REC	69	%	40-140
OP48277-MSD*	218-01-9	Chrysene	MSD	RPD	23	%	30
OP48277-MSD*	111-91-1	bis(2-Chloroethoxy)methane	MSD	REC	58	%	40-140
OP48277-MSD*	111-91-1	bis(2-Chloroethoxy)methane	MSD	RPD	17	%	30
OP48277-MSD*	111-44-4	bis(2-Chloroethyl)ether	MSD	REC	53	%	40-140
OP48277-MSD*	111-44-4	bis(2-Chloroethyl)ether	MSD	RPD	7	%	30
OP48277-MSD*	108-60-1	2,2'-Oxybis(1-chloropropane)	MSD	REC	56	%	40-140
OP48277-MSD*	108-60-1	2,2'-Oxybis(1-chloropropane)	MSD	RPD	16	%	30
OP48277-MSD*	7005-72-3	4-Chlorophenyl phenyl ether	MSD	REC	67	%	40-140
OP48277-MSD*	7005-72-3	4-Chlorophenyl phenyl ether	MSD	RPD	19	%	30
OP48277-MSD*	121-14-2	2,4-Dinitrotoluene	MSD	REC	78	%	40-140
OP48277-MSD*	121-14-2	2,4-Dinitrotoluene	MSD	RPD	26	%	30
OP48277-MSD*	606-20-2	2,6-Dinitrotoluene	MSD	REC	77	%	40-140
OP48277-MSD*	606-20-2	2,6-Dinitrotoluene	MSD	RPD	21	%	30
OP48277-MSD*	91-94-1	3,3'-Dichlorobenzidine	MSD	REC	39	%	40-140
OP48277-MSD*	91-94-1	3,3'-Dichlorobenzidine	MSD	RPD	10	%	30
OP48277-MSD*	123-91-1	1,4-Dioxane	MSD	REC	29	%	40-140
OP48277-MSD*	123-91-1	1,4-Dioxane	MSD	RPD	4	%	30
OP48277-MSD*	53-70-3	Dibenzo(a,h)anthracene	MSD	REC	70	%	40-140
OP48277-MSD*	53-70-3	Dibenzo(a,h)anthracene	MSD	RPD	21	%	30
OP48277-MSD*	132-64-9	Dibenzofuran	MSD	REC	66	%	40-140
OP48277-MSD*	132-64-9	Dibenzofuran	MSD	RPD	21	%	30
OP48277-MSD*	84-74-2	Di-n-butyl phthalate	MSD	REC	66	%	40-140
OP48277-MSD*	84-74-2	Di-n-butyl phthalate	MSD	RPD	22	%	30
OP48277-MSD*	117-84-0	Di-n-octyl phthalate	MSD	REC	69	%	40-140
OP48277-MSD*	117-84-0	Di-n-octyl phthalate	MSD	RPD	25	%	30
OP48277-MSD*	84-66-2	Diethyl phthalate	MSD	REC	66	%	40-140
OP48277-MSD*	84-66-2	Diethyl phthalate	MSD	RPD	23	%	30

* Sample used for QC is not from job JD70494

QC Evaluation: Honeywell Limits

Job Number: JD70494
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 08/01/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP48277-MSD*	131-11-3	Dimethyl phthalate	MSD	REC	67	%	40-140
OP48277-MSD*	131-11-3	Dimethyl phthalate	MSD	RPD	21	%	30
OP48277-MSD*	117-81-7	bis(2-Ethylhexyl)phthalate	MSD	REC	68	%	40-140
OP48277-MSD*	117-81-7	bis(2-Ethylhexyl)phthalate	MSD	RPD	25	%	30
OP48277-MSD*	206-44-0	Fluoranthene	MSD	REC	68	%	40-140
OP48277-MSD*	206-44-0	Fluoranthene	MSD	RPD	22	%	30
OP48277-MSD*	86-73-7	Fluorene	MSD	REC	68	%	40-140
OP48277-MSD*	86-73-7	Fluorene	MSD	RPD	22	%	30
OP48277-MSD*	118-74-1	Hexachlorobenzene	MSD	REC	71	%	40-140
OP48277-MSD*	118-74-1	Hexachlorobenzene	MSD	RPD	21	%	30
OP48277-MSD*	87-68-3	Hexachlorobutadiene	MSD	REC	61	%	40-140
OP48277-MSD*	87-68-3	Hexachlorobutadiene	MSD	RPD	17	%	30
OP48277-MSD*	77-47-4	Hexachlorocyclopentadiene	MSD	REC	43	%	40-140
OP48277-MSD*	77-47-4	Hexachlorocyclopentadiene	MSD	RPD	21	%	30
OP48277-MSD*	67-72-1	Hexachloroethane	MSD	REC	49	%	40-140
OP48277-MSD*	67-72-1	Hexachloroethane	MSD	RPD	6	%	30
OP48277-MSD*	193-39-5	Indeno(1,2,3-cd)pyrene	MSD	REC	67	%	40-140
OP48277-MSD*	193-39-5	Indeno(1,2,3-cd)pyrene	MSD	RPD	21	%	30
OP48277-MSD*	78-59-1	Isophorone	MSD	REC	56	%	40-140
OP48277-MSD*	78-59-1	Isophorone	MSD	RPD	16	%	30
OP48277-MSD*	91-57-6	2-Methylnaphthalene	MSD	REC	61	%	40-140
OP48277-MSD*	91-57-6	2-Methylnaphthalene	MSD	RPD	18	%	30
OP48277-MSD*	88-74-4	2-Nitroaniline	MSD	REC	61	%	40-140
OP48277-MSD*	88-74-4	2-Nitroaniline	MSD	RPD	22	%	30
OP48277-MSD*	99-09-2	3-Nitroaniline	MSD	REC	61	%	40-140
OP48277-MSD*	99-09-2	3-Nitroaniline	MSD	RPD	20	%	30
OP48277-MSD*	100-01-6	4-Nitroaniline	MSD	REC	67	%	40-140
OP48277-MSD*	100-01-6	4-Nitroaniline	MSD	RPD	25	%	30
OP48277-MSD*	91-20-3	Naphthalene	MSD	REC	58	%	40-140
OP48277-MSD*	91-20-3	Naphthalene	MSD	RPD	15	%	30
OP48277-MSD*	98-95-3	Nitrobenzene	MSD	REC	54	%	40-140
OP48277-MSD*	98-95-3	Nitrobenzene	MSD	RPD	14	%	30
OP48277-MSD*	621-64-7	N-Nitroso-di-n-propylamine	MSD	REC	44	%	40-140
OP48277-MSD*	621-64-7	N-Nitroso-di-n-propylamine	MSD	RPD	2	%	30
OP48277-MSD*	86-30-6	N-Nitrosodiphenylamine	MSD	REC	64	%	40-140
OP48277-MSD*	86-30-6	N-Nitrosodiphenylamine	MSD	RPD	18	%	30
OP48277-MSD*	85-01-8	Phenanthrene	MSD	REC	68	%	40-140
OP48277-MSD*	85-01-8	Phenanthrene	MSD	RPD	22	%	30
OP48277-MSD*	129-00-0	Pyrene	MSD	REC	62	%	40-140
OP48277-MSD*	129-00-0	Pyrene	MSD	RPD	24	%	30
OP48277-MSD*	95-94-3	1,2,4,5-Tetrachlorobenzene	MSD	REC	64	%	40-140
OP48277-MSD*	95-94-3	1,2,4,5-Tetrachlorobenzene	MSD	RPD	18	%	30
OP48277-MSD*	367-12-4	2-Fluorophenol	MSD	SURR	57	%	30-130
OP48277-MSD*	4165-62-2	Phenol-d5	MSD	SURR	59	%	30-130
OP48277-MSD*	118-79-6	2,4,6-Tribromophenol	MSD	SURR	77	%	30-130

* Sample used for QC is not from job JD70494

QC Evaluation: Honeywell Limits

Job Number: JD70494
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 08/01/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP48277-MSD*	4165-60-0	Nitrobenzene-d5	MSD	SURR	55	%	30-130
OP48277-MSD*	321-60-8	2-Fluorobiphenyl	MSD	SURR	63	%	30-130
OP48277-MSD*	1718-51-0	Terphenyl-d14	MSD	SURR	64	%	30-130
OP48277-MB1	367-12-4	2-Fluorophenol	MB	SURR	74	%	30-130
OP48277-MB1	4165-62-2	Phenol-d5	MB	SURR	74	%	30-130
OP48277-MB1	118-79-6	2,4,6-Tribromophenol	MB	SURR	86	%	30-130
OP48277-MB1	4165-60-0	Nitrobenzene-d5	MB	SURR	77	%	30-130
OP48277-MB1	321-60-8	2-Fluorobiphenyl	MB	SURR	77	%	30-130
OP48277-MB1	1718-51-0	Terphenyl-d14	MB	SURR	88	%	30-130
JD70494-1	367-12-4	2-Fluorophenol	SAMP	SURR	28	%	30-130
JD70494-1	4165-62-2	Phenol-d5	SAMP	SURR	31	%	30-130
JD70494-1	118-79-6	2,4,6-Tribromophenol	SAMP	SURR	36	%	30-130
JD70494-1	4165-60-0	Nitrobenzene-d5	SAMP	SURR	26	%	30-130
JD70494-1	321-60-8	2-Fluorobiphenyl	SAMP	SURR	32	%	30-130
JD70494-1	1718-51-0	Terphenyl-d14	SAMP	SURR	34	%	30-130
JD70494-2	367-12-4	2-Fluorophenol	SAMP	SURR	22	%	30-130
JD70494-2	4165-62-2	Phenol-d5	SAMP	SURR	23	%	30-130
JD70494-2	118-79-6	2,4,6-Tribromophenol	SAMP	SURR	28	%	30-130
JD70494-2	4165-60-0	Nitrobenzene-d5	SAMP	SURR	20	%	30-130
JD70494-2	321-60-8	2-Fluorobiphenyl	SAMP	SURR	24	%	30-130
JD70494-2	1718-51-0	Terphenyl-d14	SAMP	SURR	25	%	30-130
JD70494-3	367-12-4	2-Fluorophenol	SAMP	SURR	33	%	30-130
JD70494-3	4165-62-2	Phenol-d5	SAMP	SURR	32	%	30-130
JD70494-3	118-79-6	2,4,6-Tribromophenol	SAMP	SURR	26	%	30-130
JD70494-3	4165-60-0	Nitrobenzene-d5	SAMP	SURR	21	%	30-130
JD70494-3	321-60-8	2-Fluorobiphenyl	SAMP	SURR	40	%	30-130
JD70494-3	1718-51-0	Terphenyl-d14	SAMP	SURR	32	%	30-130
OP48280	SW846 8081B						
OP48280-BS1	309-00-2	Aldrin	BSP	REC	139 [b]	%	40-140
OP48280-BS1	319-84-6	alpha-BHC	BSP	REC	139 [b]	%	40-140
OP48280-BS1	319-85-7	beta-BHC	BSP	REC	149 [b]	%	40-140
OP48280-BS1	319-86-8	delta-BHC	BSP	REC	125 [b]	%	40-140
OP48280-BS1	58-89-9	gamma-BHC (Lindane)	BSP	REC	134 [b]	%	40-140
OP48280-BS1	5103-71-9	alpha-Chlordane	BSP	REC	145 [c]	%	40-140
OP48280-BS1	5103-74-2	gamma-Chlordane	BSP	REC	149 [c]	%	40-140
OP48280-BS1	60-57-1	Dieldrin	BSP	REC	146 [b]	%	40-140
OP48280-BS1	72-54-8	4,4'-DDD	BSP	REC	133 [b]	%	40-140
OP48280-BS1	72-55-9	4,4'-DDE	BSP	REC	134 [b]	%	40-140
OP48280-BS1	50-29-3	4,4'-DDT	BSP	REC	151 [b]	%	40-140
OP48280-BS1	72-20-8	Endrin	BSP	REC	151 [b]	%	40-140
OP48280-BS1	1031-07-8	Endosulfan sulfate	BSP	REC	137 [b]	%	40-140
OP48280-BS1	7421-93-4	Endrin aldehyde	BSP	REC	153 [b]	%	40-140
OP48280-BS1	959-98-8	Endosulfan-I	BSP	REC	146 [c]	%	40-140

* Sample used for QC is not from job JD70494

QC Evaluation: Honeywell Limits

Job Number: JD70494
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 08/01/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP48280-BS1	33213-65-9	Endosulfan-II	BSP	REC	143 [b]	%	40-140
OP48280-BS1	76-44-8	Heptachlor	BSP	REC	138 [b]	%	40-140
OP48280-BS1	1024-57-3	Heptachlor epoxide	BSP	REC	140 [c]	%	40-140
OP48280-BS1	72-43-5	Methoxychlor	BSP	REC	131 [b]	%	40-140
OP48280-BS1	53494-70-5	Endrin ketone	BSP	REC	154 [b]	%	40-140
OP48280-BS1	877-09-8	Tetrachloro-m-xylene (sig#1)	BSP	SURR	131	%	30-150
OP48280-BS1	877-09-8	Tetrachloro-m-xylene (sig#2)	BSP	SURR	88	%	30-150
OP48280-BS1	2051-24-3	Decachlorobiphenyl (sig#1)	BSP	SURR	125	%	30-150
OP48280-BS1	2051-24-3	Decachlorobiphenyl (sig#2)	BSP	SURR	104	%	30-150
OP48280-MS*	309-00-2	Aldrin	MS	REC	103	%	30-150
OP48280-MS*	319-84-6	alpha-BHC	MS	REC	112	%	30-150
OP48280-MS*	319-85-7	beta-BHC	MS	REC	98	%	30-150
OP48280-MS*	319-86-8	delta-BHC	MS	REC	93	%	30-150
OP48280-MS*	58-89-9	gamma-BHC (Lindane)	MS	REC	106	%	30-150
OP48280-MS*	5103-71-9	alpha-Chlordane	MS	REC	99	%	30-150
OP48280-MS*	5103-74-2	gamma-Chlordane	MS	REC	100	%	30-150
OP48280-MS*	60-57-1	Dieldrin	MS	REC	99	%	30-150
OP48280-MS*	72-54-8	4,4'-DDD	MS	REC	88	%	30-150
OP48280-MS*	72-55-9	4,4'-DDE	MS	REC	93	%	30-150
OP48280-MS*	50-29-3	4,4'-DDT	MS	REC	108	%	30-150
OP48280-MS*	72-20-8	Endrin	MS	REC	71	%	30-150
OP48280-MS*	1031-07-8	Endosulfan sulfate	MS	REC	89	%	30-150
OP48280-MS*	7421-93-4	Endrin aldehyde	MS	REC	103	%	30-150
OP48280-MS*	959-98-8	Endosulfan-I	MS	REC	95	%	30-150
OP48280-MS*	33213-65-9	Endosulfan-II	MS	REC	95	%	30-150
OP48280-MS*	76-44-8	Heptachlor	MS	REC	105	%	30-150
OP48280-MS*	1024-57-3	Heptachlor epoxide	MS	REC	102	%	30-150
OP48280-MS*	72-43-5	Methoxychlor	MS	REC	96	%	30-150
OP48280-MS*	53494-70-5	Endrin ketone	MS	REC	114	%	30-150
OP48280-MS*	877-09-8	Tetrachloro-m-xylene (sig#1)	MS	SURR	109	%	30-150
OP48280-MS*	877-09-8	Tetrachloro-m-xylene (sig#2)	MS	SURR	76	%	30-150
OP48280-MS*	2051-24-3	Decachlorobiphenyl (sig#1)	MS	SURR	74	%	30-150
OP48280-MS*	2051-24-3	Decachlorobiphenyl (sig#2)	MS	SURR	69	%	30-150
OP48280-MSD*	309-00-2	Aldrin	MSD	REC	88	%	30-150
OP48280-MSD*	309-00-2	Aldrin	MSD	RPD	20	%	30
OP48280-MSD*	319-84-6	alpha-BHC	MSD	REC	99	%	30-150
OP48280-MSD*	319-84-6	alpha-BHC	MSD	RPD	16	%	30
OP48280-MSD*	319-85-7	beta-BHC	MSD	REC	91	%	30-150
OP48280-MSD*	319-85-7	beta-BHC	MSD	RPD	13	%	30
OP48280-MSD*	319-86-8	delta-BHC	MSD	REC	81	%	30-150
OP48280-MSD*	319-86-8	delta-BHC	MSD	RPD	19	%	30
OP48280-MSD*	58-89-9	gamma-BHC (Lindane)	MSD	REC	91	%	30-150
OP48280-MSD*	58-89-9	gamma-BHC (Lindane)	MSD	RPD	19	%	30
OP48280-MSD*	5103-71-9	alpha-Chlordane	MSD	REC	88	%	30-150
OP48280-MSD*	5103-71-9	alpha-Chlordane	MSD	RPD	17	%	30

* Sample used for QC is not from job JD70494

QC Evaluation: Honeywell Limits

Job Number: JD70494
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 08/01/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP48280-MSD*	5103-74-2	gamma-Chlordane	MSD	REC	90	%	30-150
OP48280-MSD*	5103-74-2	gamma-Chlordane	MSD	RPD	15	%	30
OP48280-MSD*	60-57-1	Dieldrin	MSD	REC	68	%	30-150
OP48280-MSD*	60-57-1	Dieldrin	MSD	RPD	41	%	30
OP48280-MSD*	72-54-8	4,4'-DDD	MSD	REC	82	%	30-150
OP48280-MSD*	72-54-8	4,4'-DDD	MSD	RPD	12	%	30
OP48280-MSD*	72-55-9	4,4'-DDE	MSD	REC	86	%	30-150
OP48280-MSD*	72-55-9	4,4'-DDE	MSD	RPD	12	%	30
OP48280-MSD*	50-29-3	4,4'-DDT	MSD	REC	92	%	30-150
OP48280-MSD*	50-29-3	4,4'-DDT	MSD	RPD	21	%	30
OP48280-MSD*	72-20-8	Endrin	MSD	REC	36	%	30-150
OP48280-MSD*	72-20-8	Endrin	MSD	RPD	70 [d]	%	30
OP48280-MSD*	1031-07-8	Endosulfan sulfate	MSD	REC	72	%	30-150
OP48280-MSD*	1031-07-8	Endosulfan sulfate	MSD	RPD	26	%	30
OP48280-MSD*	7421-93-4	Endrin aldehyde	MSD	REC	78	%	30-150
OP48280-MSD*	7421-93-4	Endrin aldehyde	MSD	RPD	32	%	30
OP48280-MSD*	959-98-8	Endosulfan-I	MSD	REC	57	%	30-150
OP48280-MSD*	959-98-8	Endosulfan-I	MSD	RPD	55	%	30
OP48280-MSD*	33213-65-9	Endosulfan-II	MSD	REC	65	%	30-150
OP48280-MSD*	33213-65-9	Endosulfan-II	MSD	RPD	41	%	30
OP48280-MSD*	76-44-8	Heptachlor	MSD	REC	68	%	30-150
OP48280-MSD*	76-44-8	Heptachlor	MSD	RPD	47	%	30
OP48280-MSD*	1024-57-3	Heptachlor epoxide	MSD	REC	88	%	30-150
OP48280-MSD*	1024-57-3	Heptachlor epoxide	MSD	RPD	20	%	30
OP48280-MSD*	72-43-5	Methoxychlor	MSD	REC	66	%	30-150
OP48280-MSD*	72-43-5	Methoxychlor	MSD	RPD	41	%	30
OP48280-MSD*	53494-70-5	Endrin ketone	MSD	REC	109	%	30-150
OP48280-MSD*	53494-70-5	Endrin ketone	MSD	RPD	9	%	30
OP48280-MSD*	8001-35-2	Toxaphene	MSD	RPD	0	%	30
OP48280-MSD*	877-09-8	Tetrachloro-m-xylene (sig#1)	MSD	SURR	103	%	30-150
OP48280-MSD*	877-09-8	Tetrachloro-m-xylene (sig#2)	MSD	SURR	74	%	30-150
OP48280-MSD*	2051-24-3	Decachlorobiphenyl (sig#1)	MSD	SURR	71	%	30-150
OP48280-MSD*	2051-24-3	Decachlorobiphenyl (sig#2)	MSD	SURR	68	%	30-150
OP48280-MB1	877-09-8	Tetrachloro-m-xylene (sig#1)	MB	SURR	112	%	30-150
OP48280-MB1	877-09-8	Tetrachloro-m-xylene (sig#1)	MB	SURR	132	%	30-150
OP48280-MB1	877-09-8	Tetrachloro-m-xylene (sig#2)	MB	SURR	121	%	30-150
OP48280-MB1	877-09-8	Tetrachloro-m-xylene (sig#2)	MB	SURR	91	%	30-150
OP48280-MB1	2051-24-3	Decachlorobiphenyl (sig#1)	MB	SURR	126	%	30-150
OP48280-MB1	2051-24-3	Decachlorobiphenyl (sig#1)	MB	SURR	125	%	30-150
OP48280-MB1	2051-24-3	Decachlorobiphenyl (sig#2)	MB	SURR	114	%	30-150
OP48280-MB1	2051-24-3	Decachlorobiphenyl (sig#2)	MB	SURR	105	%	30-150
JD70494-1	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	112	%	30-150
JD70494-1	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	72	%	30-150
JD70494-1	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	85	%	30-150
JD70494-1	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	90	%	30-150

* Sample used for QC is not from job JD70494

QC Evaluation: Honeywell Limits

Job Number: JD70494
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 08/01/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD70494-2	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	135	%	30-150
JD70494-2	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	123	%	30-150
JD70494-2	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	89	%	30-150
JD70494-2	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	130	%	30-150
JD70494-2	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	90	%	30-150
JD70494-2	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	108	%	30-150
JD70494-2	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	165	%	30-150
JD70494-2	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	101	%	30-150
JD70494-3	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	109	%	30-150
JD70494-3	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	152	%	30-150
JD70494-3	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	113	%	30-150
JD70494-3	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	75	%	30-150
JD70494-3	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	123	%	30-150
JD70494-3	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	94	%	30-150
JD70494-3	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	148	%	30-150
JD70494-3	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	92	%	30-150
OP48281	SW846 8082A						
OP48281-BS1	12674-11-2	Aroclor 1016	BSP	REC	146 [e]	%	50-140
OP48281-BS1	11096-82-5	Aroclor 1260	BSP	REC	122	%	50-140
OP48281-BS1	877-09-8	Tetrachloro-m-xylene (sig#1)	BSP	SURR	131	%	30-150
OP48281-BS1	877-09-8	Tetrachloro-m-xylene (sig#2)	BSP	SURR	149	%	30-150
OP48281-BS1	2051-24-3	Decachlorobiphenyl (sig#1)	BSP	SURR	121	%	30-150
OP48281-BS1	2051-24-3	Decachlorobiphenyl (sig#2)	BSP	SURR	136	%	30-150
OP48281-MS	12674-11-2	Aroclor 1016	MS	REC	141	%	40-140
OP48281-MS	11096-82-5	Aroclor 1260	MS	REC	91	%	40-140
OP48281-MS	877-09-8	Tetrachloro-m-xylene (sig#1)	MS	SURR	121	%	30-150
OP48281-MS	877-09-8	Tetrachloro-m-xylene (sig#2)	MS	SURR	127	%	30-150
OP48281-MS	2051-24-3	Decachlorobiphenyl (sig#1)	MS	SURR	106	%	30-150
OP48281-MS	2051-24-3	Decachlorobiphenyl (sig#2)	MS	SURR	116	%	30-150
OP48281-MSD	12674-11-2	Aroclor 1016	MSD	REC	121	%	40-140
OP48281-MSD	12674-11-2	Aroclor 1016	MSD	RPD	15	%	50
OP48281-MSD	11104-28-2	Aroclor 1221	MSD	RPD	0	%	50
OP48281-MSD	11141-16-5	Aroclor 1232	MSD	RPD	0	%	50
OP48281-MSD	53469-21-9	Aroclor 1242	MSD	RPD	0	%	50
OP48281-MSD	12672-29-6	Aroclor 1248	MSD	RPD	0	%	50
OP48281-MSD	11097-69-1	Aroclor 1254	MSD	RPD	30	%	50
OP48281-MSD	11096-82-5	Aroclor 1260	MSD	REC	63	%	40-140
OP48281-MSD	11096-82-5	Aroclor 1260	MSD	RPD	30	%	50
OP48281-MSD	11100-14-4	Aroclor 1268	MSD	RPD	0	%	50
OP48281-MSD	37324-23-5	Aroclor 1262	MSD	RPD	0	%	50
OP48281-MSD	877-09-8	Tetrachloro-m-xylene (sig#1)	MSD	SURR	89	%	30-150
OP48281-MSD	877-09-8	Tetrachloro-m-xylene (sig#2)	MSD	SURR	91	%	30-150
OP48281-MSD	2051-24-3	Decachlorobiphenyl (sig#1)	MSD	SURR	84	%	30-150

* Sample used for QC is not from job JD70494

QC Evaluation: Honeywell Limits

Job Number: JD70494
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 08/01/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP48281-MSD	2051-24-3	Decachlorobiphenyl (sig#2)	MSD	SURR	90	%	30-150
OP48281-MB1	877-09-8	Tetrachloro-m-xylene (sig#1)	MB	SURR	115	%	30-150
OP48281-MB1	877-09-8	Tetrachloro-m-xylene (sig#2)	MB	SURR	130	%	30-150
OP48281-MB1	2051-24-3	Decachlorobiphenyl (sig#1)	MB	SURR	139	%	30-150
OP48281-MB1	2051-24-3	Decachlorobiphenyl (sig#2)	MB	SURR	125	%	30-150
JD70494-1	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	88	%	30-150
JD70494-1	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	89	%	30-150
JD70494-1	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	77	%	30-150
JD70494-1	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	84	%	30-150
JD70494-2	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	100	%	30-150
JD70494-2	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	103	%	30-150
JD70494-2	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	89	%	30-150
JD70494-2	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	91	%	30-150
JD70494-3	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	96	%	30-150
JD70494-3	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	97	%	30-150
JD70494-3	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	91	%	30-150
JD70494-3	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	93	%	30-150

(a) Outside in house control limits.
(b) Reported from the 1st signal. Internal standard outside the limits on the 2nd signal.
(c) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.
(d) Analytical precision exceeds in-house control limits.
(e) 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.

* Sample used for QC is not from job JD70494

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: JD70494
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
VI10201-MB	I251251.D	1	08/05/23	PS	n/a	n/a	VI10201

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD70494-1, JD70494-2, JD70494-3

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: JD70494
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
VI10201-MB	I251251.D	1	08/05/23	PS	n/a	n/a	VI10201

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD70494-1, JD70494-2, JD70494-3

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	104%	80-124%
17060-07-0	1,2-Dichloroethane-D4	101%	75-133%
2037-26-5	Toluene-D8	101%	79-125%
460-00-4	4-Bromofluorobenzene	95%	58-148%

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

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD70494
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
VI10201-BS	I251248.D	1	08/05/23	PS	n/a	n/a	VI10201
VI10201-BSD	I251249.D	1	08/05/23	PS	n/a	n/a	VI10201

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD70494-1, JD70494-2, JD70494-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	200	243	122	260	130	7	52-156/12
71-43-2	Benzene	50	46.2	92	50.7	101	9	82-119/10
74-97-5	Bromochloromethane	50	49.0	98	50.7	101	3	82-123/10
75-27-4	Bromodichloromethane	50	46.4	93	49.4	99	6	83-121/10
75-25-2	Bromoform	50	48.1	96	50.0	100	4	74-138/10
74-83-9	Bromomethane	50	44.0	88	46.9	94	6	56-150/12
78-93-3	2-Butanone (MEK)	200	236	118	243	122	3	72-138/10
75-15-0	Carbon disulfide	50	41.2	82	45.2	90	9	67-131/11
56-23-5	Carbon tetrachloride	50	47.4	95	52.7	105	11	72-130/11
108-90-7	Chlorobenzene	50	44.3	89	48.0	96	8	83-114/10
75-00-3	Chloroethane	50	47.7	95	53.2	106	11	67-141/12
67-66-3	Chloroform	50	41.6	83	44.7	89	7	76-115/10
74-87-3	Chloromethane	50	43.2	86	45.7	91	6	57-141/13
110-82-7	Cyclohexane	50	47.4	95	52.6	105	10	69-130/11
96-12-8	1,2-Dibromo-3-chloropropane	50	51.2	102	50.5	101	1	72-131/11
124-48-1	Dibromochloromethane	50	46.1	92	49.4	99	7	80-128/10
106-93-4	1,2-Dibromoethane	50	47.4	95	49.1	98	4	58-145/10
95-50-1	1,2-Dichlorobenzene	50	46.4	93	49.4	99	6	83-117/10
541-73-1	1,3-Dichlorobenzene	50	45.4	91	48.5	97	7	82-114/10
106-46-7	1,4-Dichlorobenzene	50	43.8	88	47.3	95	8	79-114/10
75-71-8	Dichlorodifluoromethane	50	40.4	81	45.1	90	11	49-146/13
75-34-3	1,1-Dichloroethane	50	48.7	97	52.4	105	7	76-126/10
107-06-2	1,2-Dichloroethane	50	45.8	92	47.9	96	4	76-118/10
75-35-4	1,1-Dichloroethene	50	45.6	91	50.8	102	11	72-125/11
156-59-2	cis-1,2-Dichloroethene	50	47.5	95	50.5	101	6	80-118/10
156-60-5	trans-1,2-Dichloroethene	50	44.2	88	49.1	98	11* [a]	76-122/10
78-87-5	1,2-Dichloropropane	50	47.3	95	51.3	103	8	82-123/10
10061-01-5	cis-1,3-Dichloropropene	50	50.4	101	53.8	108	7	83-123/10
10061-02-6	trans-1,3-Dichloropropene	50	48.7	97	53.1	106	9	83-123/10
100-41-4	Ethylbenzene	50	45.5	91	49.9	100	9	83-115/10
76-13-1	Freon 113	50	45.1	90	49.5	99	9	65-132/11
591-78-6	2-Hexanone	200	239	120	238	119	0	73-138/10
98-82-8	Isopropylbenzene	50	48.7	97	55.0	110	12* [a]	81-122/11
79-20-9	Methyl Acetate	50	55.5	111	51.4	103	8	63-142/29
108-87-2	Methylcyclohexane	50	47.1	94	52.9	106	12	73-126/12
1634-04-4	Methyl Tert Butyl Ether	50	47.7	95	50.0	100	5	75-126/12

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD70494
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
VI10201-BS	I251248.D	1	08/05/23	PS	n/a	n/a	VI10201
VI10201-BSD	I251249.D	1	08/05/23	PS	n/a	n/a	VI10201

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD70494-1, JD70494-2, JD70494-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
108-10-1	4-Methyl-2-pentanone(MIBK)	200	215	108	213	107	1	71-138/10
75-09-2	Methylene chloride	50	44.9	90	48.1	96	7	73-122/10
100-42-5	Styrene	50	51.4	103	57.1	114	11* [a]	84-122/10
79-34-5	1,1,2,2-Tetrachloroethane	50	45.9	92	45.9	92	0	75-127/10
127-18-4	Tetrachloroethene	50	43.8	88	48.3	97	10	73-125/11
108-88-3	Toluene	50	45.8	92	49.8	100	8	82-118/10
87-61-6	1,2,3-Trichlorobenzene	50	39.7	79	44.5	89	11	68-132/13
120-82-1	1,2,4-Trichlorobenzene	50	42.0	84	46.6	93	10	72-133/12
71-55-6	1,1,1-Trichloroethane	50	45.9	92	50.2	100	9	77-124/11
79-00-5	1,1,2-Trichloroethane	50	49.1	98	52.0	104	6	83-122/10
79-01-6	Trichloroethene	50	43.9	88	49.0	98	11* [a]	80-122/10
75-69-4	Trichlorofluoromethane	50	44.6	89	49.1	98	10	69-132/11
75-01-4	Vinyl chloride	50	45.2	90	49.8	100	10	60-144/13
	m,p-Xylene	100	94.5	95	105	105	11* [a]	82-119/10
95-47-6	o-Xylene	50	50.5	101	55.9	112	10	84-120/10
1330-20-7	Xylene (total)	150	145	97	161	107	10	83-119/10

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	101%	98%	80-124%
17060-07-0	1,2-Dichloroethane-D4	97%	96%	75-133%
2037-26-5	Toluene-D8	99%	98%	79-125%
460-00-4	4-Bromofluorobenzene	97%	99%	58-148%

(a) Outside in house control limits.

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JD70494
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
JD70398-1MS	I251261.D	1	08/05/23	PS	n/a	n/a	VI10201
JD70398-1	I251255.D	1	08/05/23	PS	n/a	n/a	VI10201

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD70494-1, JD70494-2, JD70494-3

CAS No.	Compound	JD70398-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Limits
67-64-1	Acetone	ND		241	222	92	10-170
71-43-2	Benzene	ND		60.3	65.0	108	61-132
74-97-5	Bromochloromethane	ND		60.3	63.4	105	68-126
75-27-4	Bromodichloromethane	ND		60.3	61.7	102	65-129
75-25-2	Bromoform	ND		60.3	57.0	95	52-136
74-83-9	Bromomethane	ND		60.3	60.7	101	23-158
78-93-3	2-Butanone (MEK)	ND		241	237	98	45-142
75-15-0	Carbon disulfide	ND		60.3	59.8	99	50-140
56-23-5	Carbon tetrachloride	ND		60.3	67.8	112	54-139
108-90-7	Chlorobenzene	ND		60.3	57.1	95	57-127
75-00-3	Chloroethane	ND		60.3	67.8	112	30-157
67-66-3	Chloroform	ND		60.3	59.3	98	59-127
74-87-3	Chloromethane	ND		60.3	63.6	105	49-145
110-82-7	Cyclohexane	ND		60.3	65.4	108	39-147
96-12-8	1,2-Dibromo-3-chloropropane	ND		60.3	54.3	90	35-140
124-48-1	Dibromochloromethane	ND		60.3	57.3	95	63-129
106-93-4	1,2-Dibromoethane	ND		60.3	56.8	94	45-141
95-50-1	1,2-Dichlorobenzene	ND		60.3	55.0	91	38-136
541-73-1	1,3-Dichlorobenzene	ND		60.3	55.0	91	37-135
106-46-7	1,4-Dichlorobenzene	ND		60.3	53.0	88	36-134
75-71-8	Dichlorodifluoromethane	ND		60.3	58.6	97	33-152
75-34-3	1,1-Dichloroethane	ND		60.3	69.6	115	68-131
107-06-2	1,2-Dichloroethane	ND		60.3	58.6	97	64-119
75-35-4	1,1-Dichloroethene	ND		60.3	66.5	110	60-133
156-59-2	cis-1,2-Dichloroethene	ND		60.3	66.0	109	58-133
156-60-5	trans-1,2-Dichloroethene	ND		60.3	63.5	105	62-130
78-87-5	1,2-Dichloropropane	ND		60.3	65.7	109	70-127
10061-01-5	cis-1,3-Dichloropropene	ND		60.3	63.9	106	64-126
10061-02-6	trans-1,3-Dichloropropene	ND		60.3	59.6	99	61-127
100-41-4	Ethylbenzene	ND		60.3	59.3	98	51-133
76-13-1	Freon 113	ND		60.3	59.9	99	46-138
591-78-6	2-Hexanone	ND		241	251	104	45-144
98-82-8	Isopropylbenzene	ND		60.3	61.7	102	44-142
79-20-9	Methyl Acetate	ND		60.3	67.5	112	14-192
108-87-2	Methylcyclohexane	ND		60.3	56.9	94	27-149
1634-04-4	Methyl Tert Butyl Ether	ND		60.3	60.5	100	62-125

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JD70494
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
JD70398-1MS	I251261.D	1	08/05/23	PS	n/a	n/a	VI10201
JD70398-1	I251255.D	1	08/05/23	PS	n/a	n/a	VI10201

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD70494-1, JD70494-2, JD70494-3

CAS No.	Compound	JD70398-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		241	245	102	50-138
75-09-2	Methylene chloride	ND		60.3	62.3	103	63-127
100-42-5	Styrene	ND		60.3	66.1	110	48-143
79-34-5	1,1,2,2-Tetrachloroethane	ND		60.3	50.4	84	44-135
127-18-4	Tetrachloroethene	ND		60.3	57.3	95	38-146
108-88-3	Toluene	ND		60.3	61.1	101	56-135
87-61-6	1,2,3-Trichlorobenzene	ND		60.3	41.6	69	10-153
120-82-1	1,2,4-Trichlorobenzene	ND		60.3	43.1	71	10-158
71-55-6	1,1,1-Trichloroethane	ND		60.3	64.8	107	61-134
79-00-5	1,1,2-Trichloroethane	ND		60.3	59.7	99	62-133
79-01-6	Trichloroethene	ND		60.3	63.8	106	52-144
75-69-4	Trichlorofluoromethane	ND		60.3	64.0	106	50-141
75-01-4	Vinyl chloride	ND		60.3	67.3	112	48-151
	m,p-Xylene	ND		121	123	102	51-135
95-47-6	o-Xylene	ND		60.3	66.1	110	52-137
1330-20-7	Xylene (total)	ND		181	189	104	50-138

CAS No.	Surrogate Recoveries	MS	JD70398-1	Limits
1868-53-7	Dibromofluoromethane	105%	114%	80-124%
17060-07-0	1,2-Dichloroethane-D4	97%	108%	75-133%
2037-26-5	Toluene-D8	98%	99%	79-125%
460-00-4	4-Bromofluorobenzene	98%	94%	58-148%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD70494
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
JD70398-2DUP	I251263.D	1	08/05/23	PS	n/a	n/a	VI10201
JD70398-2	I251256.D	1	08/05/23	PS	n/a	n/a	VI10201

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD70494-1, JD70494-2, JD70494-3

CAS No.	Compound	JD70398-2 ug/kg	Q	DUP ug/kg	Q	RPD	Limits
67-64-1	Acetone	ND		ND		nc	50
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: JD70494
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
JD70398-2DUP	I251263.D	1	08/05/23	PS	n/a	n/a	VI10201
JD70398-2	I251256.D	1	08/05/23	PS	n/a	n/a	VI10201

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD70494-1, JD70494-2, JD70494-3

CAS No.	Compound	JD70398-2 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	JD70398-2	Limits
1868-53-7	Dibromofluoromethane	114%	115%	80-124%
17060-07-0	1,2-Dichloroethane-D4	107%	109%	75-133%
2037-26-5	Toluene-D8	100%	100%	79-125%
460-00-4	4-Bromofluorobenzene	95%	97%	58-148%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JD70494
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: VI10178-BFB
Lab File ID: I250597.D
Instrument ID: GCMSI
Injection Date: 07/01/23
Injection Time: 14:57

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	37125	23.4		Pass
75	30.0 - 60.0% of mass 95	75291	47.4		Pass
95	Base peak, 100% relative abundance	158760	100.0		Pass
96	5.0 - 9.0% of mass 95	10599	6.68		Pass
173	Less than 2.0% of mass 174	310	0.20	(0.21) [a]	Pass
174	50.0 - 120.0% of mass 95	146936	92.6		Pass
175	5.0 - 9.0% of mass 174	11335	7.14	(7.71) [a]	Pass
176	95.0 - 101.0% of mass 174	145955	91.9	(99.3) [a]	Pass
177	5.0 - 9.0% of mass 176	9774	6.16	(6.70) [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
VI10178-IC10178	I250598.D	07/01/23	15:23	00:26	Initial cal 0.2
VI10178-IC10178	I250599.D	07/01/23	15:44	00:47	Initial cal 0.5
VI10178-IC10178	I250600.D	07/01/23	16:06	01:09	Initial cal 1
VI10178-IC10178	I250601.D	07/01/23	16:28	01:31	Initial cal 2
VI10178-IC10178	I250602.D	07/01/23	16:50	01:53	Initial cal 4
VI10178-IC10178	I250603.D	07/01/23	17:11	02:14	Initial cal 8
VI10178-IC10178	I250604.D	07/01/23	17:33	02:36	Initial cal 20
VI10178-ICC10178	I250605.D	07/01/23	17:55	02:58	Initial cal 50
VI10178-IC10178	I250606.D	07/01/23	18:17	03:20	Initial cal 100
VI10178-IC10178	I250607.D	07/01/23	18:38	03:41	Initial cal 200
VI10178-ICV10178	I250610.D	07/01/23	19:44	04:47	Initial cal verification 50
VI10178-ICV10178	I250611.D	07/01/23	20:05	05:08	Initial cal verification 50

Surrogate Recovery Summary

Job Number: JD70494
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
JD70494-1	I251264.D	115	112	101	95
JD70494-2	I251265.D	117	112	100	95
JD70494-3	I251266.D	118	113	102	101
JD70398-1MS	I251261.D	105	97	98	98
JD70398-2DUP	I251263.D	114	107	100	95
VI10201-BS	I251248.D	101	97	99	97
VI10201-BSD	I251249.D	98	96	98	99
VI10201-MB	I251251.D	104	101	101	95

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: JD70494
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
OP48277-MB1	6P511478.D	1	08/07/23	KM	08/06/23	OP48277	E6P3966

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD70494-1, JD70494-2, JD70494-3

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: JD70494
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
OP48277-MB1	6P511478.D	1	08/07/23	KM	08/06/23	OP48277	E6P3966

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD70494-1, JD70494-2, JD70494-3

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	29.0	33	9.4	ug/kg	J
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: JD70494
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
OP48277-MB1	6P511478.D	1	08/07/23	KM	08/06/23	OP48277	E6P3966

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD70494-1, JD70494-2, JD70494-3

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	74%	10-99%
4165-62-2	Phenol-d5	74%	10-96%
118-79-6	2,4,6-Tribromophenol	86%	10-123%
4165-60-0	Nitrobenzene-d5	77%	10-109%
321-60-8	2-Fluorobiphenyl	77%	11-109%
1718-51-0	Terphenyl-d14	88%	10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	3.88	280	ug/kg	J
	system artifact/aldol-condensation	3.94	210	ug/kg	J
	alkane	4.00	690	ug/kg	J
	alkane	4.04	370	ug/kg	J
	Total TIC, Semi-Volatile		1060	ug/kg	J

Blank Spike Summary

Job Number: JD70494
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
OP48277-BS1	6P511479.D	1	08/07/23	KM	08/06/23	OP48277	E6P3966

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD70494-1, JD70494-2, JD70494-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-57-8	2-Chlorophenol	1670	1040	62	10-135
59-50-7	4-Chloro-3-methyl phenol	1670	1060	64	10-141
120-83-2	2,4-Dichlorophenol	1670	1070	64	10-139
105-67-9	2,4-Dimethylphenol	1670	1040	62	10-141
51-28-5	2,4-Dinitrophenol	3330	2660	80	10-138
534-52-1	4,6-Dinitro-o-cresol	1670	1510	91	10-156
95-48-7	2-Methylphenol	1670	1020	61	10-139
	3&4-Methylphenol	3330	2120	64	10-174
88-75-5	2-Nitrophenol	1670	1140	68	10-142
100-02-7	4-Nitrophenol	1670	999	60	10-144
87-86-5	Pentachlorophenol	3330	2400	72	10-165
108-95-2	Phenol	1670	1000	60	23-115
58-90-2	2,3,4,6-Tetrachlorophenol	1670	1270	76	10-146
95-95-4	2,4,5-Trichlorophenol	1670	1260	76	13-136
88-06-2	2,4,6-Trichlorophenol	1670	1250	75	10-142
83-32-9	Acenaphthene	1670	1150	69	10-141
208-96-8	Acenaphthylene	1670	1170	70	10-133
98-86-2	Acetophenone	1670	946	57	23-115
120-12-7	Anthracene	1670	1240	74	10-144
1912-24-9	Atrazine	1670	1280	77	17-149
56-55-3	Benzo(a)anthracene	1670	1140	68	11-139
50-32-8	Benzo(a)pyrene	1670	1210	73	13-141
205-99-2	Benzo(b)fluoranthene	1670	1170	70	14-140
191-24-2	Benzo(g,h,i)perylene	1670	1260	76	13-138
207-08-9	Benzo(k)fluoranthene	1670	1170	70	12-140
101-55-3	4-Bromophenyl phenyl ether	1670	1240	74	10-146
85-68-7	Butyl benzyl phthalate	1670	1220	73	10-150
92-52-4	1,1'-Biphenyl	1670	1140	68	10-141
100-52-7	Benzaldehyde	1670	886	53	10-146
91-58-7	2-Chloronaphthalene	1670	1120	67	10-142
106-47-8	4-Chloroaniline	1670	907	54	10-108
86-74-8	Carbazole	1670	1210	73	10-145
105-60-2	Caprolactam	1670	1060	64	10-187
218-01-9	Chrysene	1670	1220	73	11-139
111-91-1	bis(2-Chloroethoxy)methane	1670	941	56	10-144
111-44-4	bis(2-Chloroethyl)ether	1670	921	55	10-145

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD70494
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
OP48277-BS1	6P511479.D	1	08/07/23	KM	08/06/23	OP48277	E6P3966

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD70494-1, JD70494-2, JD70494-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-60-1	2,2'-Oxybis(1-chloropropane)	1670	982	59	10-145
7005-72-3	4-Chlorophenyl phenyl ether	1670	1230	74	10-145
121-14-2	2,4-Dinitrotoluene	1670	1400	84	10-148
606-20-2	2,6-Dinitrotoluene	1670	1380	83	12-145
91-94-1	3,3'-Dichlorobenzidine	1670	1080	65	10-100
123-91-1	1,4-Dioxane	1670	509	31	10-97
53-70-3	Dibenzo(a,h)anthracene	1670	1270	76	14-142
132-64-9	Dibenzofuran	1670	1180	71	10-140
84-74-2	Di-n-butyl phthalate	1670	1180	71	11-147
117-84-0	Di-n-octyl phthalate	1670	1180	71	15-145
84-66-2	Diethyl phthalate	1670	1200	72	10-145
131-11-3	Dimethyl phthalate	1670	1200	72	10-144
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1190	71	26-132
206-44-0	Fluoranthene	1670	1230	74	10-147
86-73-7	Fluorene	1670	1190	71	12-139
118-74-1	Hexachlorobenzene	1670	1250	75	10-144
87-68-3	Hexachlorobutadiene	1670	1040	62	10-142
77-47-4	Hexachlorocyclopentadiene	3330	1530	46	10-120
67-72-1	Hexachloroethane	1670	980	59	10-141
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1210	73	13-144
78-59-1	Isophorone	1670	1010	61	10-139
91-57-6	2-Methylnaphthalene	1670	959	58	10-140
88-74-4	2-Nitroaniline	1670	1120	67	10-148
99-09-2	3-Nitroaniline	1670	1070	64	10-127
100-01-6	4-Nitroaniline	1670	1360	82	10-143
91-20-3	Naphthalene	1670	1040	62	10-141
98-95-3	Nitrobenzene	1670	1030	62	10-139
621-64-7	N-Nitroso-di-n-propylamine	1670	926	56	10-143
86-30-6	N-Nitrosodiphenylamine	1670	1230	74	10-145
85-01-8	Phenanthrene	1670	1180	71	10-142
129-00-0	Pyrene	1670	1080	65	13-141
95-94-3	1,2,4,5-Tetrachlorobenzene	1670	1140	68	10-143

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD70494
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
OP48277-BS1	6P511479.D	1	08/07/23	KM	08/06/23	OP48277	E6P3966

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD70494-1, JD70494-2, JD70494-3

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	60%	10-99%
4165-62-2	Phenol-d5	63%	10-96%
118-79-6	2,4,6-Tribromophenol	81%	10-123%
4165-60-0	Nitrobenzene-d5	60%	10-109%
321-60-8	2-Fluorobiphenyl	68%	11-109%
1718-51-0	Terphenyl-d14	73%	10-120%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD70494
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
OP48277-MS	6P511481.D	1	08/07/23	KM	08/06/23	OP48277	E6P3966
OP48277-MSD	6P511482.D	1	08/07/23	KM	08/06/23	OP48277	E6P3966
JD70539-2	6P511485.D	1	08/07/23	KM	08/06/23	OP48277	E6P3966

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD70494-1, JD70494-2, JD70494-3

CAS No.	Compound	JD70539-2 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	1010	54	1870	1060	57	5	10-137/86
59-50-7	4-Chloro-3-methyl phenol	ND		1880	924	49	1870	1130	61	20	10-146/84
120-83-2	2,4-Dichlorophenol	ND		1880	987	52	1870	1190	64	19	10-145/86
105-67-9	2,4-Dimethylphenol	ND		1880	766	41	1870	811	43	6	10-148/87
51-28-5	2,4-Dinitrophenol	ND		3770	1690	45	3730	2250	60	28	10-118/90
534-52-1	4,6-Dinitro-o-cresol	ND		1880	1120	59	1870	1530	82	31	10-131/97
95-48-7	2-Methylphenol	ND		1880	797	42	1870	867	46	8	10-143/86
	3&4-Methylphenol	ND		3770	1670	44	3730	1680	45	1	10-162/87
88-75-5	2-Nitrophenol	ND		1880	1070	57	1870	1290	69	19	10-147/93
100-02-7	4-Nitrophenol	ND		1880	750	40	1870	1000	54	29	10-152/85
87-86-5	Pentachlorophenol	ND		3770	1970	52	3730	2490	67	23	10-146/89
108-95-2	Phenol	ND		1880	995	53	1870	1000	54	1	10-118/84
58-90-2	2,3,4,6-Tetrachlorophenol	ND		1880	1030	55	1870	1300	70	23	10-139/87
95-95-4	2,4,5-Trichlorophenol	ND		1880	1070	57	1870	1320	71	21	10-140/86
88-06-2	2,4,6-Trichlorophenol	ND		1880	993	53	1870	1230	66	21	10-141/86
83-32-9	Acenaphthene	ND		1880	974	52	1870	1190	64	20	10-156/87
208-96-8	Acenaphthylene	ND		1880	986	52	1870	1180	63	18	10-143/84
98-86-2	Acetophenone	ND		1880	833	44	1870	863	46	4	10-130/90
120-12-7	Anthracene	ND		1880	1040	55	1870	1260	68	19	10-166/88
1912-24-9	Atrazine	ND		1880	1060	56	1870	1290	69	20	10-148/86
56-55-3	Benzo(a)anthracene	ND		1880	948	50	1870	1190	64	23	10-163/88
50-32-8	Benzo(a)pyrene	ND		1880	1000	53	1870	1230	66	21	10-163/89
205-99-2	Benzo(b)fluoranthene	ND		1880	922	49	1870	1140	61	21	10-156/91
191-24-2	Benzo(g,h,i)perylene	ND		1880	1050	56	1870	1320	71	23	10-158/89
207-08-9	Benzo(k)fluoranthene	ND		1880	1050	56	1870	1350	72	25	10-157/86
101-55-3	4-Bromophenyl phenyl ether	ND		1880	1070	57	1870	1340	72	22	10-143/87
85-68-7	Butyl benzyl phthalate	ND		1880	1000	53	1870	1300	70	26	10-161/89
92-52-4	1,1'-Biphenyl	ND		1880	986	52	1870	1180	63	18	10-143/86
100-52-7	Benzaldehyde	ND		1880	933	50	1870	974	52	4	10-148/88
91-58-7	2-Chloronaphthalene	ND		1880	982	52	1870	1200	64	20	10-145/86
106-47-8	4-Chloroaniline	ND		1880	677	36	1870	836	45	21	10-109/87
86-74-8	Carbazole	ND		1880	1000	53	1870	1260	68	23	10-158/87
105-60-2	Caprolactam	ND		1880	746	40	1870	942	51	23	10-150/82
218-01-9	Chrysene	ND		1880	1020	54	1870	1290	69	23	10-164/87
111-91-1	bis(2-Chloroethoxy)methane	ND		1880	910	48	1870	1080	58	17	10-152/86
111-44-4	bis(2-Chloroethyl)ether	ND		1880	925	49	1870	988	53	7	10-147/86

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD70494
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
OP48277-MS	6P511481.D	1	08/07/23	KM	08/06/23	OP48277	E6P3966
OP48277-MSD	6P511482.D	1	08/07/23	KM	08/06/23	OP48277	E6P3966
JD70539-2	6P511485.D	1	08/07/23	KM	08/06/23	OP48277	E6P3966

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD70494-1, JD70494-2, JD70494-3

CAS No.	Compound	JD70539-2 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	882	47	1870	1040	56	16	10-134/88
7005-72-3	4-Chlorophenyl phenyl ether	ND		1880	1030	55	1870	1250	67	19	10-142/87
121-14-2	2,4-Dinitrotoluene	ND		1880	1120	59	1870	1460	78	26	10-147/86
606-20-2	2,6-Dinitrotoluene	ND		1880	1160	62	1870	1430	77	21	10-147/88
91-94-1	3,3'-Dichlorobenzidine	ND		1880	659	35	1870	727	39	10	10-106/93
123-91-1	1,4-Dioxane	ND		1880	562	30	1870	542	29	4	10-102/85
53-70-3	Dibenzo(a,h)anthracene	ND		1880	1060	56	1870	1310	70	21	10-149/89
132-64-9	Dibenzofuran	ND		1880	1000	53	1870	1230	66	21	10-155/86
84-74-2	Di-n-butyl phthalate	ND		1880	991	53	1870	1240	66	22	10-158/86
117-84-0	Di-n-octyl phthalate	ND		1880	1000	53	1870	1280	69	25	10-154/84
84-66-2	Diethyl phthalate	ND		1880	976	52	1870	1230	66	23	10-148/84
131-11-3	Dimethyl phthalate	ND		1880	1010	54	1870	1250	67	21	10-144/85
117-81-7	bis(2-Ethylhexyl)phthalate	ND		1880	984	52	1870	1270	68	25	10-153/84
206-44-0	Fluoranthene	ND		1880	1010	54	1870	1260	68	22	10-165/93
86-73-7	Fluorene	ND		1880	1010	54	1870	1260	68	22	10-158/87
118-74-1	Hexachlorobenzene	ND		1880	1070	57	1870	1320	71	21	10-139/85
87-68-3	Hexachlorobutadiene	ND		1880	955	51	1870	1130	61	17	10-139/88
77-47-4	Hexachlorocyclopentadiene	ND		3770	1300	35	3730	1610	43	21	10-116/30
67-72-1	Hexachloroethane	ND		1880	865	46	1870	914	49	6	10-141/93
193-39-5	Indeno(1,2,3-cd)pyrene	ND		1880	1010	54	1870	1250	67	21	10-160/91
78-59-1	Isophorone	ND		1880	896	48	1870	1050	56	16	10-150/86
91-57-6	2-Methylnaphthalene	ND		1880	943	50	1870	1130	61	18	10-145/86
88-74-4	2-Nitroaniline	ND		1880	903	48	1870	1130	61	22	10-152/77
99-09-2	3-Nitroaniline	ND		1880	935	50	1870	1140	61	20	10-136/83
100-01-6	4-Nitroaniline	ND		1880	976	52	1870	1250	67	25	10-140/81
91-20-3	Naphthalene	21.4	JB	1880	947	49	1870	1100	58	15	10-146/87
98-95-3	Nitrobenzene	ND		1880	880	47	1870	1010	54	14	10-146/88
621-64-7	N-Nitroso-di-n-propylamine	ND		1880	798	42	1870	812	44	2	10-147/77
86-30-6	N-Nitrosodiphenylamine	ND		1880	991	53	1870	1190	64	18	10-159/78
85-01-8	Phenanthrene	ND		1880	1010	54	1870	1260	68	22	10-158/95
129-00-0	Pyrene	ND		1880	904	48	1870	1150	62	24	10-176/90
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		1880	1000	53	1870	1200	64	18	10-137/87

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD70494
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
OP48277-MS	6P511481.D	1	08/07/23	KM	08/06/23	OP48277	E6P3966
OP48277-MSD	6P511482.D	1	08/07/23	KM	08/06/23	OP48277	E6P3966
JD70539-2	6P511485.D	1	08/07/23	KM	08/06/23	OP48277	E6P3966

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD70494-1, JD70494-2, JD70494-3

CAS No.	Surrogate Recoveries	MS	MSD	JD70539-2	Limits
367-12-4	2-Fluorophenol	53%	57%	56%	10-99%
4165-62-2	Phenol-d5	58%	59%	57%	10-96%
118-79-6	2,4,6-Tribromophenol	60%	77%	74%	10-123%
4165-60-0	Nitrobenzene-d5	47%	55%	64%	10-109%
321-60-8	2-Fluorobiphenyl	52%	63%	64%	11-109%
1718-51-0	Terphenyl-d14	50%	64%	67%	10-120%

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JD70494
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: E6P3950-DFTPP
Lab File ID: 6P511117.D
Instrument ID: GCMS6P
Injection Date: 07/14/23
Injection Time: 13:45

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	40403	32.3		Pass
68	Less than 2.0% of mass 69	730	0.58	(1.72) [a]	Pass
69	Mass 69 relative abundance	42362	33.8		Pass
70	Less than 2.0% of mass 69	119	0.10	(0.28) [a]	Pass
127	40.0 - 60.0% of mass 198	59600	47.6		Pass
197	Less than 1.0% of mass 198	450	0.36		Pass
198	Base peak, 100% relative abundance	125234	100.0		Pass
199	5.0 - 9.0% of mass 198	8475	6.77		Pass
275	10.0 - 30.0% of mass 198	34781	27.8		Pass
365	1.0 - 100.0% of mass 198	4326	3.45		Pass
441	Present, but less than mass 443	15547	12.4	(89.0) [b]	Pass
442	40.0 - 100.0% of mass 198	93882	75.0		Pass
443	17.0 - 23.0% of mass 442	17467	13.9	(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
E6P3950-IC3950	6P511118.D	07/14/23	15:16	01:31	Initial cal 100
E6P3950-IC3950	6P511119.D	07/14/23	15:46	02:01	Initial cal 80
E6P3950-ICC3950	6P511120.D	07/14/23	16:15	02:30	Initial cal 50
E6P3950-IC3950	6P511121.D	07/14/23	16:43	02:58	Initial cal 25
E6P3950-IC3950	6P511122.D	07/14/23	17:10	03:25	Initial cal 10
E6P3950-IC3950	6P511123.D	07/14/23	17:37	03:52	Initial cal 5
E6P3950-IC3950	6P511124.D	07/14/23	18:02	04:17	Initial cal 2
E6P3950-IC3950	6P511125.D	07/14/23	18:28	04:43	Initial cal 1
E6P3950-ICV3950	6P511126.D	07/14/23	18:52	05:07	Initial cal verification 50
E6P3950-ICV3949	6P511127.D	07/14/23	19:17	05:32	Initial cal verification 50
E6P3950-ICV3949	6P511128.D	07/14/23	19:42	05:57	Initial cal verification 50
E6P3950-ICV3949	6P511129.D	07/14/23	20:06	06:21	Initial cal verification 50
E6P3950-ICV3949	6P511130.D	07/14/23	20:30	06:45	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD70494
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: E6P3953-DFTPP
Lab File ID: 6P511149.D
Instrument ID: GCMS6P
Injection Date: 07/19/23
Injection Time: 13:25

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	29829	31.3		Pass
68	Less than 2.0% of mass 69	464	0.49	(1.44) [a]	Pass
69	Mass 69 relative abundance	32178	33.8		Pass
70	Less than 2.0% of mass 69	138	0.14	(0.43) [a]	Pass
127	40.0 - 60.0% of mass 198	44650	46.9		Pass
197	Less than 1.0% of mass 198	305	0.32		Pass
198	Base peak, 100% relative abundance	95285	100.0		Pass
199	5.0 - 9.0% of mass 198	6399	6.72		Pass
275	10.0 - 30.0% of mass 198	26630	27.9		Pass
365	1.0 - 100.0% of mass 198	3445	3.62		Pass
441	Present, but less than mass 443	11195	11.7	(88.6) [b]	Pass
442	40.0 - 100.0% of mass 198	69672	73.1		Pass
443	17.0 - 23.0% of mass 442	12635	13.3	(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
E6P3953-IC3953	6P511150.D	07/19/23	13:39	00:14	Initial cal 100
E6P3953-ICC3953	6P511152.D	07/19/23	14:27	01:02	Initial cal 50
E6P3953-IC3953	6P511153.D	07/19/23	14:52	01:27	Initial cal 25
E6P3953-IC3953	6P511154.D	07/19/23	15:16	01:51	Initial cal 10
E6P3953-IC3953	6P511155.D	07/19/23	15:41	02:16	Initial cal 5
E6P3953-IC3953	6P511156.D	07/19/23	16:05	02:40	Initial cal 80
E6P3953-IC3953	6P511157.D	07/19/23	16:30	03:05	Initial cal 1
E6P3953-IC3953	6P511158.D	07/19/23	16:55	03:30	Initial cal 2
E6P3953-ICV3953	6P511159.D	07/19/23	17:20	03:55	Initial cal verification 50
E6P3953-ICV3953	6P511160.D	07/19/23	17:45	04:20	Initial cal verification 50
E6P3953-ICV3953	6P511161.D	07/19/23	18:10	04:45	Initial cal verification 50
E6P3953-ICV3953	6P511162.D	07/19/23	18:35	05:10	Initial cal verification 50

Surrogate Recovery Summary

Job Number: JD70494
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
JD70494-1	6P511492.D	28	31	36	26	32	34
JD70494-2	6P511493.D	22	23	28	20	24	25
JD70494-3	6P511494.D	33	32	26	21	40	32
OP48277-BS1	6P511479.D	60	63	81	60	68	73
OP48277-MB1	6P511478.D	74	74	86	77	77	88
OP48277-MS	6P511481.D	53	58	60	47	52	50
OP48277-MSD	6P511482.D	57	59	77	55	63	64

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: JD70494
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
OP48280-MB1	6G92752.D	1	08/07/23	MLC	08/07/23	OP48280	G6G3407

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD70494-1, JD70494-2, JD70494-3

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	ND	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	132%	13-162%
877-09-8	Tetrachloro-m-xylene	91%	13-162%
2051-24-3	Decachlorobiphenyl	125%	10-180%
2051-24-3	Decachlorobiphenyl	105%	10-180%

Method Blank Summary

Job Number: JD70494
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
OP48280-MB1	4G9733001.D	1	08/10/23	MLC	08/07/23	OP48280	G4G120

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD70494-1, JD70494-2, JD70494-3

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	ND	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	112%	13-162%
877-09-8	Tetrachloro-m-xylene	121%	13-162%
2051-24-3	Decachlorobiphenyl	126%	10-180%
2051-24-3	Decachlorobiphenyl	114%	10-180%

Method Blank Summary

Job Number: JD70494
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
OP48281-MB1	XX2504782.D	1	08/08/23	RK	08/07/23	OP48281	GXX8265

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD70494-1, JD70494-2, JD70494-3

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	29	ug/kg	
37324-23-5	Aroclor 1262	ND	33	22	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	115%	10-174%
877-09-8	Tetrachloro-m-xylene	130%	10-174%
2051-24-3	Decachlorobiphenyl	139%	10-195%
2051-24-3	Decachlorobiphenyl	125%	10-195%

Blank Spike Summary

Job Number: JD70494
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
OP48280-BS1	6G92753.D	1	08/07/23	MLC	08/07/23	OP48280	G6G3407

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD70494-1, JD70494-2, JD70494-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
309-00-2	Aldrin	16.7	23.1	139 [a]	40-165
319-84-6	alpha-BHC	16.7	23.1	139 [a]	40-156
319-85-7	beta-BHC	16.7	24.9	149 [a]	40-156
319-86-8	delta-BHC	16.7	20.9	125 [a]	40-153
58-89-9	gamma-BHC (Lindane)	16.7	22.4	134 [a]	40-155
5103-71-9	alpha-Chlordane	16.7	24.2	145 [b]	40-158
5103-74-2	gamma-Chlordane	16.7	24.8	149 [b]	40-167
60-57-1	Dieldrin	16.7	24.4	146 [a]	40-161
72-54-8	4,4'-DDD	16.7	22.1	133 [a]	40-161
72-55-9	4,4'-DDE	16.7	22.4	134 [a]	40-166
50-29-3	4,4'-DDT	16.7	25.2	151 [a]	40-189
72-20-8	Endrin	16.7	25.1	151 [a]	40-169
1031-07-8	Endosulfan sulfate	16.7	22.8	137 [a]	40-159
7421-93-4	Endrin aldehyde	16.7	25.5	153 [a]	40-170
959-98-8	Endosulfan-I	16.7	24.4	146 [b]	40-155
33213-65-9	Endosulfan-II	16.7	23.9	143 [a]	40-165
76-44-8	Heptachlor	16.7	23.0	138 [a]	40-161
1024-57-3	Heptachlor epoxide	16.7	23.3	140 [b]	40-158
72-43-5	Methoxychlor	16.7	21.9	131 [a]	40-166
53494-70-5	Endrin ketone	16.7	25.7	154 [a]	40-171

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	131%	13-162%
877-09-8	Tetrachloro-m-xylene	88%	13-162%
2051-24-3	Decachlorobiphenyl	125%	10-180%
2051-24-3	Decachlorobiphenyl	104%	10-180%

(a) Reported from the 1st signal. Internal standard outside the limits on the 2nd signal.
(b) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD70494
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
OP48281-BS1	XX2504783.D	1	08/08/23	RK	08/07/23	OP48281	GXX8265

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD70494-1, JD70494-2, JD70494-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	133	195	146 [a]	41-186
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	163	122	37-185
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	131%	10-174%
877-09-8	Tetrachloro-m-xylene	149%	10-174%
2051-24-3	Decachlorobiphenyl	121%	10-195%
2051-24-3	Decachlorobiphenyl	136%	10-195%

(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: JD70494
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
OP48280-MS	6G92754.D	1	08/07/23	MLC	08/07/23	OP48280	G6G3407
OP48280-MSD	6G92755.D	1	08/07/23	MLC	08/07/23	OP48280	G6G3407
JD70539-1	6G92756.D	1	08/07/23	MLC	08/07/23	OP48280	G6G3407

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD70494-1, JD70494-2, JD70494-3

CAS No.	Compound	JD70539-1 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		17.7	18.2	103	16.9	14.9	88	20	13-187/53
319-84-6	alpha-BHC	ND		17.7	19.7	112	16.9	16.7	99	16	17-182/54
319-85-7	beta-BHC	ND		17.7	17.4	98	16.9	15.3	91	13	10-191/54
319-86-8	delta-BHC	ND		17.7	16.4	93	16.9	13.6	81	19	10-173/53
58-89-9	gamma-BHC (Lindane)	ND		17.7	18.7	106	16.9	15.4	91	19	15-181/54
5103-71-9	alpha-Chlordane	ND		17.7	17.5	99	16.9	14.8	88	17	17-182/55
5103-74-2	gamma-Chlordane	ND		17.7	17.7	100	16.9	15.2	90	15	10-186/57
60-57-1	Dieldrin	ND		17.7	17.5	99	16.9	11.5	68	41	14-181/55
72-54-8	4,4'-DDD	ND		17.7	15.5	88	16.9	13.8	82	12	10-173/57
72-55-9	4,4'-DDE	ND		17.7	16.4	93	16.9	14.5	86	12	13-181/57
50-29-3	4,4'-DDT	ND		17.7	19.1	108	16.9	15.5	92	21	10-218/53
72-20-8	Endrin	ND		17.7	12.5	71	16.9	6.0	36	70* [a]	10-192/55
1031-07-8	Endosulfan sulfate	ND		17.7	15.8	89	16.9	12.2	72	26	10-185/57
7421-93-4	Endrin aldehyde	ND		17.7	18.2	103	16.9	13.2	78	32	10-205/52
959-98-8	Endosulfan-I	ND		17.7	16.8	95	16.9	9.6	57	55	12-178/55
33213-65-9	Endosulfan-II	ND		17.7	16.7	95	16.9	11.0	65	41	10-171/53
76-44-8	Heptachlor	ND		17.7	18.6	105	16.9	11.5	68	47	20-184/54
1024-57-3	Heptachlor epoxide	ND		17.7	18.1	102	16.9	14.8	88	20	17-185/53
72-43-5	Methoxychlor	ND		17.7	16.9	96	16.9	11.2	66	41	10-199/59
53494-70-5	Endrin ketone	ND		17.7	20.2	114	16.9	18.4	109	9	10-206/50
8001-35-2	Toxaphene	ND			ND			ND		nc	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	JD70539-1	Limits
877-09-8	Tetrachloro-m-xylene	109%	103%	121%	13-162%
877-09-8	Tetrachloro-m-xylene	76%	74%	87%	13-162%
2051-24-3	Decachlorobiphenyl	74%	71%	84%	10-180%
2051-24-3	Decachlorobiphenyl	69%	68%	82%	10-180%

(a) Analytical precision exceeds in-house control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD70494
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
OP48281-MS	XX2504853.D	1	08/09/23	RK	08/07/23	OP48281	GXX8266
OP48281-MSD	XX2504854.D	1	08/09/23	RK	08/07/23	OP48281	GXX8266
JD70494-1	XX2504867.D	1	08/09/23	RK	08/07/23	OP48281	GXX8266

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD70494-1, JD70494-2, JD70494-3

CAS No.	Compound	JD70494-1 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		150	212	141	150	182	121	15	19-218/53
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	50-150/30
12672-29-6	Aroclor 1248	ND			ND			ND		nc	50-150/30
11097-69-1	Aroclor 1254	95.7			195			264		30	50-150/30
11096-82-5	Aroclor 1260	39.4		150	165	91	150	122	63	30	10-211/55
11100-14-4	Aroclor 1268	ND			ND			ND		nc	50-150/30
37324-23-5	Aroclor 1262	ND			ND			ND		nc	50-150/30

CAS No.	Surrogate Recoveries	MS	MSD	JD70494-1	Limits
877-09-8	Tetrachloro-m-xylene	121%	89%	88%	10-174%
877-09-8	Tetrachloro-m-xylene	127%	91%	89%	10-174%
2051-24-3	Decachlorobiphenyl	106%	84%	77%	10-195%
2051-24-3	Decachlorobiphenyl	116%	90%	84%	10-195%

* = Outside of Control Limits.

Surrogate Recovery Summary

Job Number: JD70494
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]
JD70494-1	6G92764.D	112	72	85	90
JD70494-2	4G9733002.D	123	130	108	165
JD70494-2	6G92765.D	135	89	90	101
JD70494-3	4G9733003.D	109	113	123	148
JD70494-3	6G92766.D	152	75	94	92
OP48280-BS1	6G92753.D	131	88	125	104
OP48280-MB1	6G92752.D	132	91	125	105
OP48280-MB1	4G9733001.D	112	121	126	114
OP48280-MS	6G92754.D	109	76	74	69
OP48280-MSD	6G92755.D	103	74	71	68

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	13-162%
S2 = Decachlorobiphenyl	10-180%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

Surrogate Recovery Summary

Job Number: JD70494
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]
JD70494-1	XX2504867.D	88	89	77	84
JD70494-2	XX2504868.D	100	103	89	91
JD70494-3	XX2504873.D	96	97	91	93
OP48281-BS1	XX2504783.D	131	149	121	136
OP48281-MB1	XX2504782.D	115	130	139	125
OP48281-MS	XX2504853.D	121	127	106	116
OP48281-MSD	XX2504854.D	89	91	84	90

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	10-174%
S2 = Decachlorobiphenyl	10-195%

(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: JD70494
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP41178
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 08/05/23

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	.92	8.1	1.2	<50
Antimony	2.0	.22	.41	0.12	<2.0
Arsenic	2.0	.13	.28	-0.34	<2.0
Barium	20	.02	1.9	0.040	<20
Beryllium	0.20	.02	.08	-0.010	<0.20
Bismuth	2.0	.21	.52		
Boron	10	.1	3.7		
Cadmium	0.50	.02	.07	0.060	<0.50
Calcium	500	.77	21	14.7	<500
Chromium	1.0	.05	.37	0.11	<1.0
Cobalt	5.0	.04	.28	0.010	<5.0
Copper	2.5	.07	.84	0.11	<2.5
Iron	50	.33	19	4.7	<50
Lead	2.0	.16	.41	0.19	<2.0
Lithium	5.0	.15	.92		
Magnesium	500	2.5	14	4.8	<500
Manganese	1.5	.01	.41	0.17	<1.5
Molybdenum	2.0	.05	.32		
Nickel	4.0	.03	.35	-0.070	<4.0
Phosphorus	20	.18	3.3		
Potassium	1000	3.5	32	-4.8	<1000
Selenium	2.0	.2	.65	0.33	<2.0
Silicon	20	.13	11		
Silver	0.50	.06	.17	-0.070	<0.50
Sodium	1000	1.4	78	44.7	<1000
Strontium	5.0	.01	.18		
Sulfur	10	.37	3.9		
Thallium	1.0	.16	.58	-0.010	<1.0
Tin	20	.09	3.8		
Titanium	1.0	.08	.34		
Tungsten	5.0	.13	1.8		
Vanadium	5.0	.05	.19	-0.53	<5.0
Zinc	5.0	.02	2.3	0.82	<5.0

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD70494
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP41178
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 08/05/23

Metal	RL	IDL	MDL	MB raw	final
Zirconium	2.0	.05	.54		

Associated samples MP41178: JD70494-1, JD70494-2, JD70494-3

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: JD70494
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP41178
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 08/09/23

Metal	JD70484-1 Original	MS	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	9660	15000	2390	223.4(a)	75-125
Antimony	0.0	85.0	191	44.4N(b)	75-125
Arsenic	4.7	176	191	89.6	75-125
Barium	60.4	245	191	96.5	75-125
Beryllium	0.55	162	191	84.4	75-125
Bismuth					
Boron					
Cadmium	0.0	175	191	91.3	75-125
Calcium	196000	186000	2610	-382.5(a	75-125
Chromium	15.2	188	191	90.4	75-125
Cobalt	5.8	182	191	92.1	75-125
Copper	18.4	189	191	89.2	75-125
Iron	3590	14700	2390	50.2 (a)	75-125
Lead	37.9	210	191	90.0	75-125
Lithium					
Magnesium	8190	13200	2390	209.6N(b	75-125
Manganese	362	506	191	75.3	75-125
Molybdenum					
Nickel	14.4	186	191	89.7	75-125
Phosphorus					
Potassium	743	5010	2390	141.0N(b	75-125
Selenium	0.0	172	191	89.0	75-125
Silicon					
Silver	1.2	24.0	23.9	98.4	75-125
Sodium	139	2360	2390	92.9	75-125
Strontium					
Sulfur	anr				
Thallium	0.0	173	191	90.5	75-125
Tin					
Titanium					
Tungsten					
Vanadium	4.4	193	191	90.2	75-125
Zinc	122	281	191	83.1	75-125

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD70494
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP41178 Methods: SW846 6010D
Matrix Type: SOLID Units: mg/kg

Prep Date: 08/09/23

Metal	JD70484-1 Original MS	Spikelot MPSPK2	% Rec	QC Limits
Zirconium				

Associated samples MP41178: JD70494-1, JD70494-2, JD70494-3

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: JD70494
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP41178
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 08/09/23

Metal	JD70484-1 Original	MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Aluminum	9660	14000	2510	172.9N(a	6.9	20
Antimony	0.0	93.0	201	46.3N(a)	9.0	20
Arsenic	4.7	182	201	88.3	3.4	20
Barium	60.4	242	201	90.4	1.2	20
Beryllium	0.55	169	201	83.9	4.2	20
Bismuth						
Boron						
Cadmium	0.46	184	201	91.4	5.0	20
Calcium	196000	200000	2440	164.1(b)	7.3	20
Chromium	10.7	195	201	89.5	3.7	20
Cobalt	0.0	191	201	92.2	4.8	20
Copper	6.3	195	201	87.9	3.1	20
Iron	13500	14400	2510	35.9 (b)	2.1	20
Lead	3.4	218	201	89.7	3.7	20
Lithium						
Magnesium	8190	10300	2510	84.1	24.7 (c)	20
Manganese	362	509	201	73.2N(a)	0.6	20
Molybdenum						
Nickel	14.4	195	201	89.9	4.7	20
Phosphorus						
Potassium	1640	5070	2510	136.7N(a	1.2	20
Selenium	0.0	182	201	89.7	5.6	20
Silicon						
Silver	1.2	24.7	25.1	96.5	2.9	20
Sodium	139	2430	2510	91.3	2.9	20
Strontium						
Sulfur	anr					
Thallium	0.0	183	201	91.1	5.6	20
Tin						
Titanium						
Tungsten						
Vanadium	4.4	201	201	89.9	4.1	20
Zinc	122	273	201	75.2	2.9	20

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD70494
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP41178 Methods: SW846 6010D
Matrix Type: SOLID Units: mg/kg

Prep Date: 08/09/23

Metal	JD70484-1 Original MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Zirconium					

Associated samples MP41178: JD70494-1, JD70494-2, JD70494-3

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 recovery indicates possible matrix interference and/or sample nonhomogeneity.
(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
(c) High rpd due to possible sample nonhomogeneity.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD70494
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP41178
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 08/05/23

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	2360	2500	94.4	80-120
Antimony	196	200	98.0	80-120
Arsenic	192	200	96.0	80-120
Barium	195	200	97.5	80-120
Beryllium	186	200	93.0	80-120
Bismuth				
Boron				
Cadmium	196	200	98.0	80-120
Calcium	2490	2500	99.6	80-120
Chromium	199	200	99.5	80-120
Cobalt	197	200	98.5	80-120
Copper	194	200	97.0	80-120
Iron	2450	2500	98.0	80-120
Lead	195	200	97.5	80-120
Lithium				
Magnesium	2340	2500	93.6	80-120
Manganese	206	200	103.0	80-120
Molybdenum				
Nickel	196	200	98.0	80-120
Phosphorus				
Potassium	2410	2500	96.4	80-120
Selenium	195	200	97.5	80-120
Silicon				
Silver	24.8	25	99.2	80-120
Sodium	2430	2500	97.2	80-120
Strontium				
Sulfur				
Thallium	205	200	102.5	80-120
Tin				
Titanium				
Tungsten				
Vanadium	195	200	97.5	80-120
Zinc	200	200	100.0	80-120

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD70494
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP41178
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 08/05/23

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Zirconium				

Associated samples MP41178: JD70494-1, JD70494-2, JD70494-3

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

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD70494
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP41178
Matrix Type: SOLID

Methods: SW846 6010D
Units: ug/l

Prep Date: 08/09/23

Metal	JD70484-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	95300	99000	3.9	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	45.9	37.0	19.4 (a)	0-10
Barium	595	625	5.1	0-10
Beryllium	5.40	4.60	14.8 (a)	0-10
Bismuth				
Boron				
Cadmium	0.00	7.60	68.9 (a)	0-10
Calcium	1930000	2020000	4.7	0-10
Chromium	150	163	8.8	0-10
Cobalt	57.5	59.0	2.6	0-10
Copper	181	184	1.7	0-10
Iron	35400	144000	7.9	0-10
Lead	374	398	6.4	0-10
Lithium				
Magnesium	80800	84700	4.8	0-10
Manganese	3570	3900	9.2	0-10
Molybdenum				
Nickel	142	142	0.0	0-10
Phosphorus				
Potassium	7320	15700	2.8	0-10
Selenium	0.00	36.2	105.7(a)	0-10
Silicon				
Silver	11.4	0.00	100.0(a)	0-10
Sodium	1370	1610	17.1*(b)	0-10
Strontium				
Sulfur	anr			
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Tungsten				
Vanadium	43.0	215	6.3	0-10
Zinc	1200	1340	11.4*(b)	0-10

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD70494
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP41178 Methods: SW846 6010D
Matrix Type: SOLID Units: ug/l

Prep Date: 08/09/23

Metal	JD70484-1 Original SDL 1:5	%DIF	QC Limits
Zirconium			

Associated samples MP41178: JD70494-1, JD70494-2, JD70494-3

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: JD70494
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP41218 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 08/07/23

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.033	.0057	.015	0.0098	<0.033

Associated samples MP41218: JD70494-1, JD70494-2, JD70494-3

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: JD70494
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP41218
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/07/23

Metal	JD70471-1 Original	MS	Spikelot HGPWS1	% Rec	QC Limits
Mercury	0.017	0.38	0.377	96.2	80-120

Associated samples MP41218: JD70494-1, JD70494-2, JD70494-3

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: JD70494
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP41218 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 08/07/23

Metal	JD70471-1 Original	MSD	Spikelot HGPWS1	% Rec	MSD RPD	QC Limit
Mercury	0.017	0.35	0.349	95.5	8.2	20

Associated samples MP41218: JD70494-1, JD70494-2, JD70494-3

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: JD70494
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP41218
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/07/23 08/07/23

Metal	BSP Result	Spikelot HGPWS1	% Rec	QC Limits	LCS Result	Spikelot HGLC540119	% Rec	QC Limits
Mercury	0.30	0.333	90.0	80-120	17.3	18.2	95.1	73-127

Associated samples MP41218: JD70494-1, JD70494-2, JD70494-3

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: JD70494
Account: HWINJOMM - Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

QC Batch ID: MP41218
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/07/23

Metal	LCS Result	Spikelot HGLC540119% Rec		QC Limits
Mercury	17.7	18.2	97.3	73-127

Associated samples MP41218: JD70494-1, JD70494-2, JD70494-3

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: JD70494
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	GP48525/GN44578	0.24	0.0	mg/kg	4.8	4.90	102.1	90-110%

Associated Samples:
Batch GP48525: JD70494-1, JD70494-2, JD70494-3
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD70494
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	GP48525/GN44578	JD70540-7	mg/kg	0.0	0.0	0.0	0-49%
Solids, Percent	GN44475	JD70356-1	%	90.3	89.2	1.2	0-10%

Associated Samples:
Batch GN44475: JD70494-1, JD70494-2, JD70494-3
Batch GP48525: JD70494-1, JD70494-2, JD70494-3
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD70494
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	GP48525/GN44578	JD70494-1	mg/kg	0.21	5.21	4.7	86.2	75-125%

Associated Samples:
Batch GP48525: JD70494-1, JD70494-2, JD70494-3
(*) 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

2235 Route 130, Dayton, NJ 08810
TEL 732-329-0200 FAX 732-329-3499/3480

FED-EX Tracking #:
Bottle Order Control #:
SGS Quote #:
SGS Job #: JD70494

Client / Reporting Information

Company Name: SGS North America Inc.
Street Address: 2235 Route 130
City: Dayton State: NJ Zip: 08810
Project Contact: Jadon.Schiller@sgs.com E-mail:
Phone #: 732-329-0200 Fax #:
Sampler(s) Name(s): BH Phone:

Project Information

Project Name: HLAME: 30130-Alltift 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 (see TEST CODE sheet)

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	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	LOID1633LIST40	LAB USE ONLY
1A	ALLTIFT-080123-WES		8/1/23	10:00:00 AM	BH	SO										X	
2A	ALLTIFT-080123-CTS		8/1/23	11:00:00 AM	BH	SO										X	
3A	ALLTIFT-080123-SS		8/1/23	1:00:00 PM	BH	SO										X	

INITIAL ASSESSMENT ZB

LABEL VERIFICATION SP

Turnaround Time (Business days)

Approved By (SGS PM): / Date:

- [ ] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [X] other Due 8/18/2023

Emergency & Rush T/A data available VIA Lablink

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
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler: 1 Jcaming	Date Tir 8/7/23	Received By: 1 Fedex	Relinquished By: 2 FX	Date Time:	Received By: 2 08/08/23 0945
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # ☐ Intact ☐ Not intact	Preserved where applicable ☐	On Ice ☐ Cooler Temp. 1.8 IR1

11.1 11

SGS Sample Receipt Summary

Job Number: JD70494 **Client:** SGS NJ **Project:** HLAME

Date / Time Received: 8/8/2023 9:45:00 AM **Delivery Method:** FED EX **Airbill #'s:** 7003 7830 2072

Therm ID: IR 1; **Therm CF:** -0.2; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (1.8);

Cooler Temps (Corrected) °C: Cooler 1: (1.6);

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 230320 pH 10-12 _____ Other: (Specify) pH 1.0 - 12.0 222221

Residual Chlorine Test Strip Lot #: _____

Comments

SM001
Rev. Date 05/24/17

Technician: SHAYLAP Date: 8/8/2023 9:45:00 AM Reviewer: _____ Date: _____

11.1 11

JD70494: 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: JD70494
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
OP98332-MB	4Q49049.D	1	08/17/23	AL	08/09/23	OP98332	S4Q718

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

JD70494-1A, JD70494-2A, JD70494-3A

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.80	0.50	ug/kg	
2706-90-3	Perfluoropentanoic acid	ND	0.40	0.10	ug/kg	
307-24-4	Perfluorohexanoic acid	ND	0.20	0.10	ug/kg	
375-85-9	Perfluoroheptanoic acid	ND	0.20	0.10	ug/kg	
335-67-1	Perfluorooctanoic acid	ND	0.20	0.10	ug/kg	
375-95-1	Perfluorononanoic acid	ND	0.20	0.12	ug/kg	
335-76-2	Perfluorodecanoic acid	ND	0.20	0.10	ug/kg	
2058-94-8	Perfluoroundecanoic acid	ND	0.20	0.13	ug/kg	
307-55-1	Perfluorododecanoic acid	ND	0.20	0.10	ug/kg	
72629-94-8	Perfluorotridecanoic acid	ND	0.20	0.10	ug/kg	
376-06-7	Perfluorotetradecanoic acid	ND	0.20	0.10	ug/kg	
375-73-5	Perfluorobutanesulfonic acid	ND	0.20	0.10	ug/kg	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.20	0.16	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	0.20	0.16	ug/kg	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.20	0.15	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.20	0.10	ug/kg	
68259-12-1	Perfluorononanesulfonic acid	ND	0.20	0.18	ug/kg	
335-77-3	Perfluorodecanesulfonic acid	ND	0.20	0.14	ug/kg	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.20	0.15	ug/kg	
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.80	0.40	ug/kg	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.80	0.40	ug/kg	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.80	0.60	ug/kg	
754-91-6	PFOSA	ND	0.20	0.10	ug/kg	
31506-32-8	MeFOSA	ND	0.20	0.14	ug/kg	
4151-50-2	EtFOSA	ND	0.20	0.10	ug/kg	
2355-31-9	MeFOSAA	ND	0.20	0.16	ug/kg	
2991-50-6	EtFOSAA	ND	0.20	0.20	ug/kg	
24448-09-7	MeFOSE	ND	2.0	1.0	ug/kg	
1691-99-2	EtFOSE	ND	2.0	1.0	ug/kg	
13252-13-6	HFPO-DA (GenX)	ND	0.80	0.29	ug/kg	
919005-14-4	ADONA	ND	0.80	0.34	ug/kg	
377-73-1	PFMPA	ND	0.40	0.20	ug/kg	
863090-89-5	PFMBA	ND	0.40	0.20	ug/kg	
151772-58-6	NFDHA	ND	0.40	0.24	ug/kg	
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.80	0.44	ug/kg	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.80	0.40	ug/kg	

Method Blank Summary

Job Number: JD70494
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
OP98332-MB	4Q49049.D	1	08/17/23	AL	08/09/23	OP98332	S4Q718

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

JD70494-1A, JD70494-2A, JD70494-3A

CAS No.	Compound	Result	RL	MDL	Units	Q
113507-82-7	PFEESA	ND	0.40	0.20	ug/kg	
356-02-5	3:3 Fluorotelomer carboxylate	ND	1.0	0.51	ug/kg	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	5.0	1.2	ug/kg	
812-70-4	7:3 Fluorotelomer carboxylate	ND	5.0	1.3	ug/kg	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	99%	20-150%
	13C5-PFPeA	98%	20-150%
	13C5-PFHxA	103%	20-150%
	13C4-PFHpA	98%	20-150%
	13C8-PFOA	99%	20-150%
	13C9-PFNA	93%	20-150%
	13C6-PFDA	103%	20-150%
	13C7-PFUnDA	109%	20-150%
	13C2-PFDoDA	89%	20-150%
	13C2-PFTeDA	80%	20-150%
	13C3-PFBS	97%	20-150%
	13C3-PFHxS	103%	20-150%
	13C8-PFOS	94%	20-150%
	13C8-FOSA	85%	20-150%
	d3-MeFOSA	88%	20-150%
	d5-EtFOSA	84%	20-150%
	d3-MeFOSAA	93%	20-150%
	d5-EtFOSAA	89%	20-150%
	d7-MeFOSE	61%	20-150%
	d9-EtFOSE	70%	20-150%
	13C2-4:2FTS	97%	20-180%
	13C2-6:2FTS	102%	20-180%
	13C2-8:2FTS	92%	20-180%
	13C3-HFPO-DA	83%	20-150%

Instrument Blank

Job Number: JD70494
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
S4Q718-IBLK	4Q49044.D	1	08/17/23	AL	n/a	n/a	S4Q718

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

JD70494-1A, JD70494-2A, JD70494-3A

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	2.0	0.31	ug/kg	
2706-90-3	Perfluoropentanoic acid	ND	1.0	0.10	ug/kg	
307-24-4	Perfluorohexanoic acid	ND	1.0	0.10	ug/kg	
375-85-9	Perfluoroheptanoic acid	ND	1.0	0.10	ug/kg	
335-67-1	Perfluorooctanoic acid	ND	1.0	0.10	ug/kg	
375-95-1	Perfluorononanoic acid	ND	1.0	0.12	ug/kg	
335-76-2	Perfluorodecanoic acid	ND	1.0	0.10	ug/kg	
2058-94-8	Perfluoroundecanoic acid	ND	1.0	0.13	ug/kg	
307-55-1	Perfluorododecanoic acid	ND	1.0	0.10	ug/kg	
72629-94-8	Perfluorotridecanoic acid	ND	1.0	0.10	ug/kg	
376-06-7	Perfluorotetradecanoic acid	ND	1.0	0.10	ug/kg	
375-73-5	Perfluorobutanesulfonic acid	ND	1.0	0.10	ug/kg	
2706-91-4	Perfluoropentanesulfonic acid	ND	1.0	0.16	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	1.0	0.16	ug/kg	
375-92-8	Perfluoroheptanesulfonic acid	ND	1.0	0.15	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	ND	1.0	0.10	ug/kg	
68259-12-1	Perfluorononanesulfonic acid	ND	1.0	0.18	ug/kg	
335-77-3	Perfluorodecanesulfonic acid	ND	1.0	0.14	ug/kg	
79780-39-5	Perfluorododecanesulfonic aci	ND	1.0	0.15	ug/kg	
757124-72-4	4:2 Fluorotelomer sulfonate	ND	2.0	0.30	ug/kg	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	2.0	0.35	ug/kg	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	2.0	0.61	ug/kg	
754-91-6	PFOSA	ND	1.0	0.10	ug/kg	
31506-32-8	MeFOSA	0.28	1.0	0.14	ug/kg	J
4151-50-2	EtFOSA	0.53	1.0	0.10	ug/kg	J
2355-31-9	MeFOSAA	ND	1.0	0.16	ug/kg	
2991-50-6	EtFOSAA	ND	1.0	0.20	ug/kg	
24448-09-7	MeFOSE	0.66	5.0	0.64	ug/kg	J
1691-99-2	EtFOSE	1.1	5.0	0.83	ug/kg	J
13252-13-6	HFPO-DA (GenX)	ND	2.0	0.29	ug/kg	
919005-14-4	ADONA	ND	2.0	0.34	ug/kg	
377-73-1	PFMPA	ND	1.0	0.11	ug/kg	
863090-89-5	PFMBA	ND	1.0	0.10	ug/kg	
151772-58-6	NFDHA	ND	2.0	0.24	ug/kg	
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	2.0	0.44	ug/kg	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	2.0	0.36	ug/kg	

Instrument Blank

Job Number: JD70494
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
S4Q718-IBLK	4Q49044.D	1	08/17/23	AL	n/a	n/a	S4Q718

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

JD70494-1A, JD70494-2A, JD70494-3A

CAS No.	Compound	Result	RL	MDL	Units	Q
113507-82-7	PFEESA	ND	1.0	0.10	ug/kg	
356-02-5	3:3 Fluorotelomer carboxylate	ND	2.5	0.51	ug/kg	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	13	1.2	ug/kg	
812-70-4	7:3 Fluorotelomer carboxylate	ND	13	1.3	ug/kg	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	97%	20-150%
	13C5-PFPeA	100%	20-150%
	13C5-PFHxA	96%	20-150%
	13C4-PFHpA	100%	20-150%
	13C8-PFOA	101%	20-150%
	13C9-PFNA	106%	20-150%
	13C6-PFDA	110%	20-150%
	13C7-PFUnDA	113%	20-150%
	13C2-PFDoDA	113%	20-150%
	13C2-PFTeDA	112%	20-150%
	13C3-PFBS	101%	20-150%
	13C3-PFHxS	100%	20-150%
	13C8-PFOS	107%	20-150%
	13C8-FOSA	107%	20-150%
	d3-MeFOSA	95%	20-150%
	d5-EtFOSA	101%	20-150%
	d3-MeFOSAA	112%	20-150%
	d5-EtFOSAA	109%	20-150%
	d7-MeFOSE	90%	20-150%
	d9-EtFOSE	94%	20-150%
	13C2-4:2FTS	110%	20-180%
	13C2-6:2FTS	97%	20-180%
	13C2-8:2FTS	90%	20-180%
	13C3-HFPO-DA	83%	20-150%

Continuing Calibration Blank

Job Number: JD70494
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
S4Q718-ICCB	4Q49058.D	1	08/17/23	AL	n/a	n/a	S4Q718

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

JD70494-3A

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	2.0	0.31	ug/kg	
2706-90-3	Perfluoropentanoic acid	ND	1.0	0.10	ug/kg	
307-24-4	Perfluorohexanoic acid	ND	1.0	0.10	ug/kg	
375-85-9	Perfluoroheptanoic acid	ND	1.0	0.10	ug/kg	
335-67-1	Perfluorooctanoic acid	ND	1.0	0.10	ug/kg	
375-95-1	Perfluorononanoic acid	ND	1.0	0.12	ug/kg	
335-76-2	Perfluorodecanoic acid	ND	1.0	0.10	ug/kg	
2058-94-8	Perfluoroundecanoic acid	ND	1.0	0.13	ug/kg	
307-55-1	Perfluorododecanoic acid	ND	1.0	0.10	ug/kg	
72629-94-8	Perfluorotridecanoic acid	ND	1.0	0.10	ug/kg	
376-06-7	Perfluorotetradecanoic acid	ND	1.0	0.10	ug/kg	
375-73-5	Perfluorobutanesulfonic acid	ND	1.0	0.10	ug/kg	
2706-91-4	Perfluoropentanesulfonic acid	ND	1.0	0.16	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	ND	1.0	0.16	ug/kg	
375-92-8	Perfluoroheptanesulfonic acid	ND	1.0	0.15	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	ND	1.0	0.10	ug/kg	
68259-12-1	Perfluorononanesulfonic acid	ND	1.0	0.18	ug/kg	
335-77-3	Perfluorodecanesulfonic acid	ND	1.0	0.14	ug/kg	
79780-39-5	Perfluorododecanesulfonic aci	ND	1.0	0.15	ug/kg	
757124-72-4	4:2 Fluorotelomer sulfonate	ND	2.0	0.30	ug/kg	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	2.0	0.35	ug/kg	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	2.0	0.61	ug/kg	
754-91-6	PFOSA	ND	1.0	0.10	ug/kg	
31506-32-8	MeFOSA	ND	1.0	0.14	ug/kg	
4151-50-2	EtFOSA	ND	1.0	0.10	ug/kg	
2355-31-9	MeFOSAA	ND	1.0	0.16	ug/kg	
2991-50-6	EtFOSAA	ND	1.0	0.20	ug/kg	
24448-09-7	MeFOSE	ND	5.0	0.64	ug/kg	
1691-99-2	EtFOSE	ND	5.0	0.83	ug/kg	
13252-13-6	HFPO-DA (GenX)	ND	2.0	0.29	ug/kg	
919005-14-4	ADONA	ND	2.0	0.34	ug/kg	
377-73-1	PFMPA	ND	1.0	0.11	ug/kg	
863090-89-5	PFMBA	ND	1.0	0.10	ug/kg	
151772-58-6	NFDHA	ND	2.0	0.24	ug/kg	
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	2.0	0.44	ug/kg	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	2.0	0.36	ug/kg	

Continuing Calibration Blank

Job Number: JD70494
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
S4Q718-ICCB	4Q49058.D	1	08/17/23	AL	n/a	n/a	S4Q718

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

JD70494-3A

CAS No.	Compound	Result	RL	MDL	Units	Q
113507-82-7	PFEESA	ND	1.0	0.10	ug/kg	
356-02-5	3:3 Fluorotelomer carboxylate	ND	2.5	0.51	ug/kg	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	13	1.2	ug/kg	
812-70-4	7:3 Fluorotelomer carboxylate	ND	13	1.3	ug/kg	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	101%	20-150%
	13C5-PFPeA	103%	20-150%
	13C5-PFHxA	103%	20-150%
	13C4-PFHpA	100%	20-150%
	13C8-PFOA	101%	20-150%
	13C9-PFNA	100%	20-150%
	13C6-PFDA	110%	20-150%
	13C7-PFUnDA	121%	20-150%
	13C2-PFDoDA	116%	20-150%
	13C2-PFTeDA	128%	20-150%
	13C3-PFBS	105%	20-150%
	13C3-PFHxS	102%	20-150%
	13C8-PFOS	99%	20-150%
	13C8-FOSA	103%	20-150%
	d3-MeFOSA	89%	20-150%
	d5-EtFOSA	85%	20-150%
	d3-MeFOSAA	109%	20-150%
	d5-EtFOSAA	110%	20-150%
	d7-MeFOSE	79%	20-150%
	d9-EtFOSE	81%	20-150%
	13C2-4:2FTS	115%	20-180%
	13C2-6:2FTS	99%	20-180%
	13C2-8:2FTS	100%	20-180%
	13C3-HFPO-DA	82%	20-150%

Blank Spike Summary

Job Number: JD70494
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
OP98332-LLBS	4Q49048.D	1	08/17/23	AL	08/09/23	OP98332	S4Q718

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

JD70494-1A, JD70494-2A, JD70494-3A

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
375-22-4	Perfluorobutanoic acid	1.6	2.0	125	40-150
2706-90-3	Perfluoropentanoic acid	0.8	1.0	125	40-150
307-24-4	Perfluorohexanoic acid	0.4	0.48	120	40-150
375-85-9	Perfluoroheptanoic acid	0.4	0.48	120	40-150
335-67-1	Perfluorooctanoic acid	0.4	0.51	128	40-150
375-95-1	Perfluorononanoic acid	0.4	0.51	128	40-150
335-76-2	Perfluorodecanoic acid	0.4	0.50	125	40-150
2058-94-8	Perfluoroundecanoic acid	0.4	0.49	123	40-150
307-55-1	Perfluorododecanoic acid	0.4	0.57	143	40-150
72629-94-8	Perfluorotridecanoic acid	0.4	0.56	140	40-150
376-06-7	Perfluorotetradecanoic acid	0.4	0.46	115	40-150
375-73-5	Perfluorobutanesulfonic acid	0.355	0.44	124	40-150
2706-91-4	Perfluoropentanesulfonic acid	0.376	0.45	120	40-150
355-46-4	Perfluorohexanesulfonic acid	0.366	0.49	134	40-150
375-92-8	Perfluoroheptanesulfonic acid	0.381	0.56	147	40-150
1763-23-1	Perfluorooctanesulfonic acid	0.371	0.53	143	40-150
68259-12-1	Perfluorononanesulfonic acid	0.385	0.49	127	40-150
335-77-3	Perfluorodecanesulfonic acid	0.386	0.44	114	40-150
79780-39-5	Perfluorododecanesulfonic aci	0.388	0.38	98	40-150
757124-72-4	4:2 Fluorotelomer sulfonate	1.5	2.3	153*	40-150
27619-97-2	6:2 Fluorotelomer sulfonate	1.52	2.0	132	40-150
39108-34-4	8:2 Fluorotelomer sulfonate	1.54	2.5	163*	40-150
754-91-6	PFOSA	0.4	0.57	143	40-150
31506-32-8	MeFOSA	0.8	0.96	120	40-150
4151-50-2	EtFOSA	0.8	1.0	125	40-150
2355-31-9	MeFOSAA	0.4	0.45	113	40-150
2991-50-6	EtFOSAA	0.4	0.50	125	40-150
24448-09-7	MeFOSE	2	2.6	130	40-150
1691-99-2	EtFOSE	2	2.5	125	40-150
13252-13-6	HFPO-DA (GenX)	0.8	1.0	125	40-150
919005-14-4	ADONA	0.756	1.1	146	40-150
377-73-1	PFMPA	0.8	0.97	121	40-150
863090-89-5	PFMBA	0.8	0.96	120	40-150
151772-58-6	NFDHA	0.8	1.2	150	40-150
756426-58-1	9Cl-PF3ONS (F-53B Major)	0.748	1.1	147	40-150
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	0.756	0.98	130	40-150

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD70494
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
OP98332-LLBS	4Q49048.D	1	08/17/23	AL	08/09/23	OP98332	S4Q718

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

JD70494-1A, JD70494-2A, JD70494-3A

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
113507-82-7	PFEESA	0.712	0.81	114	40-150
356-02-5	3:3 Fluorotelomer carboxylate	2	1.3	65	40-150
914637-49-3	5:3 Fluorotelomer carboxylate	10	11.0	110	40-150
812-70-4	7:3 Fluorotelomer carboxylate	10	11.3	113	40-150

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	92%	20-150%
	13C5-PFPeA	93%	20-150%
	13C5-PFHxA	98%	20-150%
	13C4-PFHpA	93%	20-150%
	13C8-PFOA	94%	20-150%
	13C9-PFNA	88%	20-150%
	13C6-PFDA	104%	20-150%
	13C7-PFUnDA	99%	20-150%
	13C2-PFDoDA	86%	20-150%
	13C2-PFTeDA	73%	20-150%
	13C3-PFBS	91%	20-150%
	13C3-PFHxS	92%	20-150%
	13C8-PFOS	94%	20-150%
	13C8-FOSA	88%	20-150%
	d3-MeFOSA	86%	20-150%
	d5-EtFOSA	82%	20-150%
	d3-MeFOSAA	97%	20-150%
	d5-EtFOSAA	89%	20-150%
	d7-MeFOSE	64%	20-150%
	d9-EtFOSE	71%	20-150%
	13C2-4:2FTS	86%	20-180%
	13C2-6:2FTS	92%	20-180%
	13C2-8:2FTS	75%	20-180%
	13C3-HFPO-DA	79%	20-150%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD70494
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
OP98332-BS	4Q49047.D	1	08/17/23	AL	08/09/23	OP98332	S4Q718

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

JD70494-1A, JD70494-2A, JD70494-3A

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
375-22-4	Perfluorobutanoic acid	10	13.1	131	40-150
2706-90-3	Perfluoropentanoic acid	5	6.7	134	40-150
307-24-4	Perfluorohexanoic acid	2.5	3.1	124	40-150
375-85-9	Perfluoroheptanoic acid	2.5	3.3	132	40-150
335-67-1	Perfluorooctanoic acid	2.5	3.3	132	40-150
375-95-1	Perfluorononanoic acid	2.5	3.1	124	40-150
335-76-2	Perfluorodecanoic acid	2.5	3.1	124	40-150
2058-94-8	Perfluoroundecanoic acid	2.5	3.4	136	40-150
307-55-1	Perfluorododecanoic acid	2.5	3.6	144	40-150
72629-94-8	Perfluorotridecanoic acid	2.5	3.2	128	40-150
376-06-7	Perfluorotetradecanoic acid	2.5	3.2	128	40-150
375-73-5	Perfluorobutanesulfonic acid	2.22	2.8	126	40-150
2706-91-4	Perfluoropentanesulfonic acid	2.35	3.4	145	40-150
355-46-4	Perfluorohexanesulfonic acid	2.29	3.3	144	40-150
375-92-8	Perfluoroheptanesulfonic acid	2.38	3.2	134	40-150
1763-23-1	Perfluorooctanesulfonic acid	2.32	3.1	134	40-150
68259-12-1	Perfluorononanesulfonic acid	2.41	3.3	137	40-150
335-77-3	Perfluorodecanesulfonic acid	2.41	3.1	128	40-150
79780-39-5	Perfluorododecanesulfonic aci	2.43	2.6	107	40-150
757124-72-4	4:2 Fluorotelomer sulfonate	9.38	13.2	141	40-150
27619-97-2	6:2 Fluorotelomer sulfonate	9.5	14.5	153*	40-150
39108-34-4	8:2 Fluorotelomer sulfonate	9.6	13.8	144	40-150
754-91-6	PFOSA	2.5	3.5	140	40-150
31506-32-8	MeFOSA	5	6.6	132	40-150
4151-50-2	EtFOSA	5	6.2	124	40-150
2355-31-9	MeFOSAA	2.5	3.6	144	40-150
2991-50-6	EtFOSAA	2.5	3.4	136	40-150
24448-09-7	MeFOSE	12.5	16.5	132	40-150
1691-99-2	EtFOSE	12.5	15.6	125	40-150
13252-13-6	HFPO-DA (GenX)	5	6.6	132	40-150
919005-14-4	ADONA	4.73	7.3	154*	40-150
377-73-1	PFMPA	5	6.1	122	40-150
863090-89-5	PFMBA	5	6.1	122	40-150
151772-58-6	NFDHA	5	7.1	142	40-150
756426-58-1	9Cl-PF3ONS (F-53B Major)	4.68	7.6	163*	40-150
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	4.73	7.0	148	40-150

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD70494
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
OP98332-BS	4Q49047.D	1	08/17/23	AL	08/09/23	OP98332	S4Q718

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

JD70494-1A, JD70494-2A, JD70494-3A

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
113507-82-7	PFEESA	4.45	5.4	121	40-150
356-02-5	3:3 Fluorotelomer carboxylate	12.5	9.6	77	40-150
914637-49-3	5:3 Fluorotelomer carboxylate	62.5	73.7	118	40-150
812-70-4	7:3 Fluorotelomer carboxylate	62.5	78.9	126	40-150

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	95%	20-150%
	13C5-PFPeA	97%	20-150%
	13C5-PFHxA	100%	20-150%
	13C4-PFHpA	97%	20-150%
	13C8-PFOA	99%	20-150%
	13C9-PFNA	98%	20-150%
	13C6-PFDA	107%	20-150%
	13C7-PFUnDA	111%	20-150%
	13C2-PFDoDA	97%	20-150%
	13C2-PFTeDA	86%	20-150%
	13C3-PFBS	94%	20-150%
	13C3-PFHxS	85%	20-150%
	13C8-PFOS	100%	20-150%
	13C8-FOSA	90%	20-150%
	d3-MeFOSA	80%	20-150%
	d5-EtFOSA	79%	20-150%
	d3-MeFOSAA	97%	20-150%
	d5-EtFOSAA	97%	20-150%
	d7-MeFOSE	69%	20-150%
	d9-EtFOSE	77%	20-150%
	13C2-4:2FTS	90%	20-180%
	13C2-6:2FTS	85%	20-180%
	13C2-8:2FTS	83%	20-180%
	13C3-HFPO-DA	79%	20-150%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD70494
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
OP98332-MS	4Q49052.D	1	08/17/23	AL	08/09/23	OP98332	S4Q718
OP98332-MSD	4Q49053.D	1	08/17/23	AL	08/09/23	OP98332	S4Q718
FC8334-2	4Q49112.D	1	08/18/23	AL	08/09/23	OP98332	S4Q719

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

JD70494-1A, JD70494-2A, JD70494-3A

CAS No.	Compound	FC8334-2 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	2.2	U	10.9	14.4	132	10.8	14.0	130	3	40-150/30
2706-90-3	Perfluoropentanoic acid	1.1	U	5.46	7.2	132	5.38	7.2	134	0	40-150/30
307-24-4	Perfluorohexanoic acid	0.54	U	2.73	3.4	125	2.69	3.4	126	0	40-150/30
375-85-9	Perfluoroheptanoic acid	0.54	U	2.73	3.6	132	2.69	3.7	138	3	40-150/30
335-67-1	Perfluorooctanoic acid	0.54	U	2.73	3.4	125	2.69	3.8	141	11	40-150/30
375-95-1	Perfluorononanoic acid	0.54	U	2.73	3.4	125	2.69	3.7	138	8	40-150/30
335-76-2	Perfluorodecanoic acid	0.54	U	2.73	3.3	121	2.69	3.6	134	9	40-150/30
2058-94-8	Perfluoroundecanoic acid	0.54	U	2.73	3.7	136	2.69	3.8	141	3	40-150/30
307-55-1	Perfluorododecanoic acid	0.54	U	2.73	3.7	136	2.69	3.8	141	3	40-150/30
72629-94-8	Perfluorotridecanoic acid	0.54	U	2.73	3.7	136	2.69	4.0	149	8	40-150/30
376-06-7	Perfluorotetradecanoic acid	0.54	U	2.73	3.3	121	2.69	3.5	130	6	40-150/30
375-73-5	Perfluorobutanesulfonic acid	0.54	U	2.42	3.2	132	2.39	3.4	142	6	40-150/30
2706-91-4	Perfluoropentanesulfonic acid	0.54	U	2.57	3.4	132	2.53	3.4	134	0	40-150/30
355-46-4	Perfluorohexanesulfonic acid	0.54	U	2.49	3.5	140	2.46	3.4	138	3	40-150/30
375-92-8	Perfluoroheptanesulfonic acid	0.54	U	2.6	3.6	138	2.56	3.6	140	0	40-150/30
1763-23-1	Perfluorooctanesulfonic acid	0.77		2.53	4.1	132	2.5	4.3	141	5	40-150/30
68259-12-1	Perfluorononanesulfonic acid	0.54	U	2.62	3.7	141	2.59	3.7	143	0	40-150/30
335-77-3	Perfluorodecanesulfonic acid	0.54	U	2.63	3.6	137	2.6	3.5	135	3	40-150/30
79780-39-5	Perfluorododecanesulfonic aci	0.54	U	2.65	3.2	121	2.61	3.0	115	6	40-150/30
757124-72-4	4:2 Fluorotelomer sulfonate	2.2	U	10.2	14.7	144	10.1	15.2	151*	3	40-150/30
27619-97-2	6:2 Fluorotelomer sulfonate	2.2	U	10.4	15.6	150	10.2	14.8	145	5	40-150/30
39108-34-4	8:2 Fluorotelomer sulfonate	2.2	U	10.5	15.5	148	10.3	17.7	171*	13	40-150/30
754-91-6	PFOSA	0.54	U	2.73	3.8	139	2.69	3.9	145	3	40-150/30
31506-32-8	MeFOSA	1.1	U	5.46	6.6	121	5.38	6.7	125	2	40-150/30
4151-50-2	EtFOSA	1.1	U	5.46	6.9	126	5.38	7.0	130	1	40-150/30
2355-31-9	MeFOSAA	0.54	U	2.73	3.8	139	2.69	3.5	130	8	40-150/30
2991-50-6	EtFOSAA	0.54	U	2.73	4.3	158*	2.69	4.2	156*	2	40-150/30
24448-09-7	MeFOSE	5.4	U	13.6	18.2	133	13.5	18.1	135	1	40-150/30
1691-99-2	EtFOSE	5.4	U	13.6	16.9	124	13.5	17.3	129	2	40-150/30
13252-13-6	HFPO-DA (GenX)	2.2	U	5.46	7.0	128	5.38	7.3	136	4	40-150/30
919005-14-4	ADONA	2.2	U	5.16	8.4	163*	5.08	8.4	165*	0	40-150/30
377-73-1	PFMPA	1.1	U	5.46	6.6	121	5.38	6.6	123	0	40-150/30
863090-89-5	PFMBA	1.1	U	5.46	6.7	123	5.38	6.6	123	2	40-150/30
151772-58-6	NFDHA	1.1	U	5.46	7.2	132	5.38	7.1	132	1	40-150/30
756426-58-1	9Cl-PF3ONS (F-53B Major)	2.2	U	5.1	8.9	174*	5.03	9.3	185*	4	40-150/30
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	2.2	U	5.16	8.2	159*	5.08	8.0	157*	2	40-150/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD70494
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
OP98332-MS	4Q49052.D	1	08/17/23	AL	08/09/23	OP98332	S4Q718
OP98332-MSD	4Q49053.D	1	08/17/23	AL	08/09/23	OP98332	S4Q718
FC8334-2	4Q49112.D	1	08/18/23	AL	08/09/23	OP98332	S4Q719

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

JD70494-1A, JD70494-2A, JD70494-3A

CAS No.	Compound	FC8334-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
113507-82-7	PFEESA	1.1 U		4.86	5.7	117	4.79	5.7	119	0	40-150/30
356-02-5	3:3 Fluorotelomer carboxylate	2.7 U		13.6	12.0	88	13.5	11.1	83	8	40-150/30
914637-49-3	5:3 Fluorotelomer carboxylate	14 U		68.2	78.7	115	67.3	77.2	115	2	40-150/30
812-70-4	7:3 Fluorotelomer carboxylate	14 U		68.2	82.0	120	67.3	83.9	125	2	40-150/30

CAS No.	ID Standard Recoveries	MS	MSD	FC8334-2	Limits
	13C4-PFBA	92%	96%	95%	20-150%
	13C5-PFPeA	91%	95%	96%	20-150%
	13C5-PFHxA	94%	100%	99%	20-150%
	13C4-PFHpA	94%	94%	99%	20-150%
	13C8-PFOA	94%	93%	97%	20-150%
	13C9-PFNA	89%	90%	85%	20-150%
	13C6-PFDA	101%	106%	102%	20-150%
	13C7-PFUnDA	101%	110%	113%	20-150%
	13C2-PFDoDA	96%	95%	102%	20-150%
	13C2-PFTeDA	99%	99%	100%	20-150%
	13C3-PFBS	91%	92%	95%	20-150%
	13C3-PFHxS	92%	93%	93%	20-150%
	13C8-PFOS	93%	98%	93%	20-150%
	13C8-FOSA	89%	90%	84%	20-150%
	d3-MeFOSA	72%	75%	78%	20-150%
	d5-EtFOSA	65%	70%	77%	20-150%
	d3-MeFOSAA	95%	109%	101%	20-150%
	d5-EtFOSAA	91%	105%	107%	20-150%
	d7-MeFOSE	64%	67%	61%	20-150%
	d9-EtFOSE	65%	65%	67%	20-150%
	13C2-4:2FTS	90%	89%	97%	20-180%
	13C2-6:2FTS	84%	91%	99%	20-180%
	13C2-8:2FTS	89%	85%	90%	20-180%
	13C3-HFPO-DA	72%	75%	75%	20-150%

* = Outside of Control Limits.

Isotope Dilution Standard Recovery Summary

Job Number: JD70494
Account: ALNJ SGS Dayton, NJ
Project: HWINJOMM: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Method: EPA DRAFT 1633 **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
JD70494-1A	4Q49055.D	97	94	99	99	97	89	103	112
JD70494-2A	4Q49056.D	94	93	96	98	95	86	102	106
JD70494-3A	4Q49059.D	93	93	96	96	92	85	98	108
OP98332-BS	4Q49047.D	95	97	100	97	99	98	107	111
OP98332-LLBS	4Q49048.D	92	93	98	93	94	88	104	99
OP98332-MB	4Q49049.D	99	98	103	98	99	93	103	109
OP98332-MS	4Q49052.D	92	91	94	94	94	89	101	101
OP98332-MSD	4Q49053.D	96	95	100	94	93	90	106	110

Isotope Dilution Standards	Recovery Limits
S1 = 13C4-PFBA	20-150%
S2 = 13C5-PFPeA	20-150%
S3 = 13C5-PFHxA	20-150%
S4 = 13C4-PFHpA	20-150%
S5 = 13C8-PFOA	20-150%
S6 = 13C9-PFNA	20-150%
S7 = 13C6-PFDA	20-150%
S8 = 13C7-PFUnDA	20-150%

Isotope Dilution Standard Recovery Summary

Job Number: JD70494
Account: ALNJ SGS Dayton, NJ
Project: HWINJOMM: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Method: EPA DRAFT 1633 **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
JD70494-1A	4Q49055.D	106	108	95	90	91	87	74	66
JD70494-2A	4Q49056.D	100	101	92	92	90	90	71	69
JD70494-3A	4Q49059.D	97	95	89	93	89	79	63	53
OP98332-BS	4Q49047.D	97	86	94	85	100	90	80	79
OP98332-LLBS	4Q49048.D	86	73	91	92	94	88	86	82
OP98332-MB	4Q49049.D	89	80	97	103	94	85	88	84
OP98332-MS	4Q49052.D	96	99	91	92	93	89	72	65
OP98332-MSD	4Q49053.D	95	99	92	93	98	90	75	70

Isotope Dilution Standards	Recovery Limits
S9 = 13C2-PFDoDA	20-150%
S10 = 13C2-PFTeDA	20-150%
S11 = 13C3-PFBS	20-150%
S12 = 13C3-PFHxS	20-150%
S13 = 13C8-PFOS	20-150%
S14 = 13C8-FOSA	20-150%
S15 = d3-MeFOSA	20-150%
S16 = d5-EtFOSA	20-150%

Isotope Dilution Standard Recovery Summary

Job Number: JD70494
Account: ALNJ SGS Dayton, NJ
Project: HWINJOMM: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Method: EPA DRAFT 1633 **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S17	S18	S19	S20	S21	S22	S23	S24
JD70494-1A	4Q49055.D	107	115	59	55	90	98	88	77
JD70494-2A	4Q49056.D	100	106	62	57	85	88	83	77
JD70494-3A	4Q49059.D	115	130	47	41	98	109	122	74
OP98332-BS	4Q49047.D	97	97	69	77	90	85	83	79
OP98332-LLBS	4Q49048.D	97	89	64	71	86	92	75	79
OP98332-MB	4Q49049.D	93	89	61	70	97	102	92	83
OP98332-MS	4Q49052.D	95	91	64	65	90	84	89	72
OP98332-MSD	4Q49053.D	109	105	67	65	89	91	85	75

Isotope Dilution Standards	Recovery Limits
S17 = d3-MeFOSAA	20-150%
S18 = d5-EtFOSAA	20-150%
S19 = d7-MeFOSE	20-150%
S20 = d9-EtFOSE	20-150%
S21 = 13C2-4:2FTS	20-180%
S22 = 13C2-6:2FTS	20-180%
S23 = 13C2-8:2FTS	20-180%
S24 = 13C3-HFPO-DA	20-150%

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

HW PO#A001457165

SGS Job Number: JD74719

Sampling Date: 10/12/23



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: **45**

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 unless noted in the narrative, comments or footnotes.

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

Sections: 1 2 3 4 5 6

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SGS North America Inc.

Sample Summary

Honeywell International Inc. OMM work

Job No: JD74719

HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Project No: HW PO#A001457165

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
This report contains results reported as ND = Not detected. The following applies:							
Organics ND = Not detected above the MDL							
General Chemistry ND = Not detected above the MDL							
JD74719-1	10/12/23	15:20	BH	10/13/23	SO	Soil	ALLTIFT-101223-WES
JD74719-2	10/12/23	15:25	BH	10/13/23	SO	Soil	ALLTIFT-101223-WES-2
JD74719-3	10/12/23	15:25	BH	10/13/23	AQ	Trip Blank Soil	TRIP BLANK

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:**	JD74719
Site:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY	**Report Date**	10/17/2023 8:49:45 A

On 10/13/2023, 2 sample(s), 1 Trip Blank(s), and 0 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 0.2 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of JD74719 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:** V2T149

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD74701-14MS, JD74701-14MSD were used as the QC samples indicated.
- JD74719-3 for Bromomethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD74719-3 for Acetone: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD74719-3 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.
- JD74719-3 for Chloroform: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD74719-3 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.
- JD74719-3 for Cyclohexane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD74719-3 for Dichlorodifluoromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD74719-3 for Methylcyclohexane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD74719-3 for Trichloroethene: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD74719-3 for 1,2,4-Trichlorobenzene: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

Matrix: SO **Batch ID:** VY8885

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD74697-2MS, JD74697-4DUP were used as the QC samples indicated.

General Chemistry By Method SM2540 G 18TH ED MOD

Matrix: SO **Batch ID:** GN47134

- Sample(s) JD74719-2DUP were used as the QC samples for the Solids, Percent 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.

Summary of Hits

Job Number: JD74719
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 10/12/23

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

JD74719-1 **ALLTIFT-101223-WES**

No hits reported in this sample.

JD74719-2 **ALLTIFT-101223-WES-2**

No hits reported in this sample.

JD74719-3 **TRIP BLANK**

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: ALLTIFT-101223-WES
Lab Sample ID: JD74719-1 **Date Sampled:** 10/12/23
Matrix: SO - Soil **Date Received:** 10/13/23
Method: SW846 8260D **Percent Solids:** n/a [a]
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y204213.D	1	10/14/23 14:08	PS	n/a	n/a	VY8885
Run #2							

	Initial Weight
Run #1	4.1 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	12	5.0	ug/kg	
71-43-2	Benzene	ND	0.61	0.55	ug/kg	
74-97-5	Bromochloromethane	ND	6.1	0.68	ug/kg	
75-27-4	Bromodichloromethane	ND	2.4	0.52	ug/kg	
75-25-2	Bromoform	ND	6.1	1.7	ug/kg	
74-83-9	Bromomethane	ND	6.1	0.93	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	3.0	ug/kg	
75-15-0	Carbon disulfide	ND	2.4	0.65	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.4	0.75	ug/kg	
108-90-7	Chlorobenzene	ND	2.4	0.56	ug/kg	
75-00-3	Chloroethane	ND	6.1	0.72	ug/kg	
67-66-3	Chloroform	ND	2.4	0.63	ug/kg	
74-87-3	Chloromethane	ND	6.1	2.4	ug/kg	
110-82-7	Cyclohexane	ND	2.4	0.80	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.4	0.85	ug/kg	
124-48-1	Dibromochloromethane	ND	2.4	0.68	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.51	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.2	0.67	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.2	0.60	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.2	0.60	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.1	0.89	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.2	0.60	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.57	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.2	0.80	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.2	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.2	0.75	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.4	0.58	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.4	0.58	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.4	0.56	ug/kg	
100-41-4	Ethylbenzene	ND	1.2	0.55	ug/kg	
76-13-1	Freon 113	ND	6.1	3.3	ug/kg	
591-78-6	2-Hexanone	ND	6.1	2.6	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-101223-WES		
Lab Sample ID:	JD74719-1	**Date Sampled:**	10/12/23
Matrix:	SO - Soil	**Date Received:**	10/13/23
Method:	SW846 8260D	**Percent Solids:**	n/a [a]
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	2.4	1.7	ug/kg	
79-20-9	Methyl Acetate	ND	6.1	1.7	ug/kg	
108-87-2	Methylcyclohexane	ND	2.4	1.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.57	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.1	2.8	ug/kg	
75-09-2	Methylene chloride	ND	6.1	3.2	ug/kg	
100-42-5	Styrene	ND	2.4	0.49	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.4	0.73	ug/kg	
127-18-4	Tetrachloroethene	ND	2.4	0.71	ug/kg	
108-88-3	Toluene	ND	1.2	0.64	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.1	3.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.1	3.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.4	0.59	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.4	0.68	ug/kg	
79-01-6	Trichloroethene	ND	1.2	0.93	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.1	0.83	ug/kg	
75-01-4	Vinyl chloride	ND	2.4	0.59	ug/kg	
	m,p-Xylene	ND	1.2	1.1	ug/kg	
95-47-6	o-Xylene	ND	1.2	0.56	ug/kg	
1330-20-7	Xylene (total)	ND	1.2	0.56	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-124%
17060-07-0	1,2-Dichloroethane-D4	107%		75-133%
2037-26-5	Toluene-D8	97%		79-125%
460-00-4	4-Bromofluorobenzene	99%		58-148%

(a) All results reported on a wet weight basis.

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-101223-WES-2		
Lab Sample ID:	JD74719-2	**Date Sampled:**	10/12/23
Matrix:	SO - Soil	**Date Received:**	10/13/23
		Percent Solids:	86.6
Project:	HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	86.6		%	1	10/16/23 11:10	MK	SM2540 G 18TH ED MOD

RL = Reporting Limit ND = Not detected

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JD74719-3	**Date Sampled:**	10/12/23
Matrix:	AQ - Trip Blank Soil	**Date Received:**	10/13/23
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	2T5019.D	1	10/16/23 12:48	LD	n/a	n/a	V2T149
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	1.8	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform [a]	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane [a]	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane [a]	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	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	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	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	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	4.8	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:	TRIP BLANK		
Lab Sample ID:	JD74719-3	**Date Sampled:**	10/12/23
Matrix:	AQ - Trip Blank Soil	**Date Received:**	10/13/23
Method:	SW846 8260D	**Percent Solids:**	n/a
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	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane [a]	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	4.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene [a]	ND	1.0	0.50	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	0.53	ug/l	
79-01-6	Trichloroethene [a]	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride [a]	ND	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		80-120%
17060-07-0	1,2-Dichloroethane-D4	98%		80-120%
2037-26-5	Toluene-D8	108%		80-120%
460-00-4	4-Bromofluorobenzene	102%		82-114%

(a) 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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- QC Evaluation: Honeywell Limits

So
SL
WTB

PREM-JS-083123-36

PN

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

Honeywell

Chain of Custody / Analysis Request

Save with QC Check Gray Cells Required | More Columns | Less Columns | Print Short COC | Print Expanded COC

AESI Ref:	45211.64718
COC#	Alltift-101223
	Page 1 of 1
Lab Proj # (SDG):	JD74719
Lab Location ID	ACTD
HW Site R-Code	R31030
Sampling Program	Non-routine
Authorized User:	
Lab Parent ID	SGS

Pricing Source (RFP, eAuction, etc)	RFP2019	
HW Site Name	Buffalo Alltift Landfill	
Task Type	OM&M	
Location of Site	579 Tifft Street, Buffalo NY	
WBS Code	6400	
Sampling Co.:	Jacobs	
Email of person receiving EDD	EQUIS	

Reporting Information (DocuSign First Signer)	Name	Jacobs	Sampler(s) names	Benjamin Hendry
	Address	1563 Willis Ave	PO #	HW PO # A001457165
	City, State, Zip	Syracuse NY 13204	Analysis Turnaround Time (calendar days):	Standard TAT
	Contact; email		Consultant	
Billing Information (DocuSign Second Signer)	Co. Name	Honeywell	Laboratory Contact	Jadon Schiller
	Address	301 Plainfield Road, Suite 330	Report Tier Level	2
	City, State, Zip	Syracuse, NY 13202	Full Report and EDD TAT (calendar days)	Standard TAT
	HW RM email		Honeywell RM Name	Shane Blauvelt (SRB)

More Rows | Less Rows

Sample Identification

#	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Medium	# of Cont.	Composite (Y, N)	Field Filtered Sample (Y, N)	Preservative 10 (mg/kg)	Preservative 23 (mg/kg)	Preservative 0 (mg/kg)	Sampling Method (rt_sample_method)	Lab Sample Numbers
1	N/A	—	—	Alltift-101223-WES	10-12-2023	1520	SOLID	Soil	REG	3	N	N	2	1			1404
2	N/A	—	—	Alltift-101223-WES-2	10-12-2023	1525	SOLID	Soil	REG	1	N	N			11		4977
3				Trip Blank *						2							D46
4																	V110
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	

Initial Assessment NB3D

Label Verification

Alltift-101223-WES to be run for VOCs only.
Alltift-101223-WES-2 is extra sample volume. Please hold, only run if activated.

Relinquished by	Company	Jacobs	Received by	Company		Condition		Custody Seals Intact	
[signature]	Date/Time	10-12-23/1600	FEDEX	Date/Time		Cooler Temp			
Relinquished by	Company		Received by	Company		Condition		Custody Seals Intact	
FEDEX 10/13/23 10:10	Date/Time		[signature]	Date/Time		Cooler Temp		Lab Quote #	

Preservatives: (Other; Specify): 0 (None); 1 (4 Deg C); 2 (4C HCl-Na2SO3 (pH<2)); 3 (4C HNO3); 4 (4C HNO3 (pH<2)); 5 (4C none); 6 (4CH2SO4pH<2/Na2S2O3); 7 (4CNaOH(pH>12)&AscAb); 8 (ASCACI); 9 (BrCl); 10 (DI H2O); 11 (EDTA); 12 (H2O); 13 (H2SO4 (pH<2)); 14 (H2SO4 (pH<2), 4 DegC); 15 (H3PO4); 16 (HCl); 17 (HCl (pH<2)); 18 (HCl (pH<2), 4 Deg C); 19 (HCL, 4 Deg C); 20 (HNO3 (pH<2)); 21 (HNO3 (pH<2), 4 Deg C); 22 (MCAA,Na2SO3); 23 (Methanol); 24 (Na2SO3); 25 (Na2SO4); 26 (Na3PO4); 27 (NaHSO4); 28 (NaOH); 29 (NaOH (pH>12)); 30 (NaOH (pH>12), 4 DegC); 31 (NaOH, Zn Acetate); 32 (Nitric Acid, 4 Deg C); 33 (Other); 34 (Zn Acetate); sp (Special)

FedEx Tracking # 589473732455

0.5° IR40

* WP3, Added to COC in SM

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JD74719: Chain of Custody
Page 1 of 3

SGS Sample Receipt Summary

Job Number: JD74719 **Client:** JACOBS CH2M **Project:** CHMHNYS:R30909-SYRACUSE-WASTE CHA

Date / Time Received: 10/13/2023 10:10:00 AM **Delivery Method:** FED EX **Airbill #'s:** 5894 7373 2455

Cooler Temps (Raw Measured) °C: Cooler 1: (0.5);

Cooler Temps (Corrected) °C: Cooler 1: (0.2);

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 40		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservatio	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: Rec'd 2 x 40mL np for trip blank, added to COC in SM. Please confirm analysis needed.

Responded to by: Jadon Schiller

Response Date: 10/13/23

Analyze TB

JD74719: Chain of Custody
Page 3 of 3

QC Evaluation: Honeywell Limits

Job Number: JD74719
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 10/12/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V2T149	SW846 8260D						
V2T149-BS	67-64-1	Acetone	BSP	REC	132	%	70-130
V2T149-BS	71-43-2	Benzene	BSP	REC	96	%	70-130
V2T149-BS	74-97-5	Bromochloromethane	BSP	REC	91	%	70-130
V2T149-BS	75-27-4	Bromodichloromethane	BSP	REC	102	%	70-130
V2T149-BS	75-25-2	Bromoform	BSP	REC	95	%	70-130
V2T149-BS	74-83-9	Bromomethane	BSP	REC	101	%	70-130
V2T149-BS	78-93-3	2-Butanone (MEK)	BSP	REC	129	%	70-130
V2T149-BS	75-15-0	Carbon disulfide	BSP	REC	106	%	70-130
V2T149-BS	56-23-5	Carbon tetrachloride	BSP	REC	93	%	70-130
V2T149-BS	108-90-7	Chlorobenzene	BSP	REC	94	%	70-130
V2T149-BS	75-00-3	Chloroethane	BSP	REC	126	%	70-130
V2T149-BS	67-66-3	Chloroform	BSP	REC	82	%	70-130
V2T149-BS	74-87-3	Chloromethane	BSP	REC	68	%	70-130
V2T149-BS	110-82-7	Cyclohexane	BSP	REC	95	%	70-130
V2T149-BS	96-12-8	1,2-Dibromo-3-chloropropane	BSP	REC	95	%	70-130
V2T149-BS	124-48-1	Dibromochloromethane	BSP	REC	91	%	70-130
V2T149-BS	106-93-4	1,2-Dibromoethane	BSP	REC	94	%	70-130
V2T149-BS	95-50-1	1,2-Dichlorobenzene	BSP	REC	89	%	70-130
V2T149-BS	541-73-1	1,3-Dichlorobenzene	BSP	REC	89	%	70-130
V2T149-BS	106-46-7	1,4-Dichlorobenzene	BSP	REC	88	%	70-130
V2T149-BS	75-71-8	Dichlorodifluoromethane	BSP	REC	92	%	70-130
V2T149-BS	75-34-3	1,1-Dichloroethane	BSP	REC	99	%	70-130
V2T149-BS	107-06-2	1,2-Dichloroethane	BSP	REC	90	%	70-130
V2T149-BS	75-35-4	1,1-Dichloroethene	BSP	REC	101	%	70-130
V2T149-BS	156-59-2	cis-1,2-Dichloroethene	BSP	REC	99	%	70-130
V2T149-BS	156-60-5	trans-1,2-Dichloroethene	BSP	REC	101	%	70-130
V2T149-BS	78-87-5	1,2-Dichloropropane	BSP	REC	98	%	70-130
V2T149-BS	10061-01-5	cis-1,3-Dichloropropene	BSP	REC	108	%	70-130
V2T149-BS	10061-02-6	trans-1,3-Dichloropropene	BSP	REC	107	%	70-130
V2T149-BS	100-41-4	Ethylbenzene	BSP	REC	94	%	70-130
V2T149-BS	76-13-1	Freon 113	BSP	REC	92	%	70-130
V2T149-BS	591-78-6	2-Hexanone	BSP	REC	104	%	70-130
V2T149-BS	98-82-8	Isopropylbenzene	BSP	REC	94	%	70-130
V2T149-BS	79-20-9	Methyl Acetate	BSP	REC	114	%	70-130
V2T149-BS	108-87-2	Methylcyclohexane	BSP	REC	81	%	70-130
V2T149-BS	1634-04-4	Methyl Tert Butyl Ether	BSP	REC	103	%	70-130
V2T149-BS	108-10-1	4-Methyl-2-pentanone(MIBK)	BSP	REC	106	%	70-130
V2T149-BS	75-09-2	Methylene chloride	BSP	REC	101	%	70-130
V2T149-BS	100-42-5	Styrene	BSP	REC	103	%	70-130
V2T149-BS	79-34-5	1,1,2,2-Tetrachloroethane	BSP	REC	107	%	70-130
V2T149-BS	127-18-4	Tetrachloroethene	BSP	REC	87	%	70-130
V2T149-BS	108-88-3	Toluene	BSP	REC	93	%	70-130

* Sample used for QC is not from job JD74719

QC Evaluation: Honeywell Limits

Job Number: JD74719
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 10/12/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V2T149-BS	87-61-6	1,2,3-Trichlorobenzene	BSP	REC	81	%	70-130
V2T149-BS	120-82-1	1,2,4-Trichlorobenzene	BSP	REC	81	%	70-130
V2T149-BS	71-55-6	1,1,1-Trichloroethane	BSP	REC	97	%	70-130
V2T149-BS	79-00-5	1,1,2-Trichloroethane	BSP	REC	102	%	70-130
V2T149-BS	79-01-6	Trichloroethene	BSP	REC	84	%	70-130
V2T149-BS	75-69-4	Trichlorofluoromethane	BSP	REC	104	%	70-130
V2T149-BS	75-01-4	Vinyl chloride	BSP	REC	91	%	70-130
V2T149-BS		m,p-Xylene	BSP	REC	95	%	70-130
V2T149-BS	95-47-6	o-Xylene	BSP	REC	94	%	70-130
V2T149-BS	1330-20-7	Xylene (total)	BSP	REC	95	%	70-130
V2T149-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	106	%	70-130
V2T149-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	103	%	70-130
V2T149-BS	2037-26-5	Toluene-D8	BSP	SURR	104	%	70-130
V2T149-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	103	%	70-130
JD74701-14MS*	67-64-1	Acetone	MS	REC	58	%	70-130
JD74701-14MS*	71-43-2	Benzene	MS	REC	54	%	70-130
JD74701-14MS*	74-97-5	Bromochloromethane	MS	REC	82	%	70-130
JD74701-14MS*	75-27-4	Bromodichloromethane	MS	REC	95	%	70-130
JD74701-14MS*	75-25-2	Bromoform	MS	REC	88	%	70-130
JD74701-14MS*	74-83-9	Bromomethane	MS	REC	53	%	70-130
JD74701-14MS*	78-93-3	2-Butanone (MEK)	MS	REC	87	%	70-130
JD74701-14MS*	75-15-0	Carbon disulfide	MS	REC	96	%	70-130
JD74701-14MS*	56-23-5	Carbon tetrachloride	MS	REC	94	%	70-130
JD74701-14MS*	108-90-7	Chlorobenzene	MS	REC	94	%	70-130
JD74701-14MS*	75-00-3	Chloroethane	MS	REC	79	%	70-130
JD74701-14MS*	67-66-3	Chloroform	MS	REC	74	%	70-130
JD74701-14MS*	74-87-3	Chloromethane	MS	REC	51	%	70-130
JD74701-14MS*	110-82-7	Cyclohexane	MS	REC	80	%	70-130
JD74701-14MS*	96-12-8	1,2-Dibromo-3-chloropropane	MS	REC	93	%	70-130
JD74701-14MS*	124-48-1	Dibromochloromethane	MS	REC	86	%	70-130
JD74701-14MS*	106-93-4	1,2-Dibromoethane	MS	REC	90	%	70-130
JD74701-14MS*	95-50-1	1,2-Dichlorobenzene	MS	REC	88	%	70-130
JD74701-14MS*	541-73-1	1,3-Dichlorobenzene	MS	REC	86	%	70-130
JD74701-14MS*	106-46-7	1,4-Dichlorobenzene	MS	REC	86	%	70-130
JD74701-14MS*	75-71-8	Dichlorodifluoromethane	MS	REC	86	%	70-130
JD74701-14MS*	75-34-3	1,1-Dichloroethane	MS	REC	90	%	70-130
JD74701-14MS*	107-06-2	1,2-Dichloroethane	MS	REC	86	%	70-130
JD74701-14MS*	75-35-4	1,1-Dichloroethene	MS	REC	98	%	70-130
JD74701-14MS*	156-59-2	cis-1,2-Dichloroethene	MS	REC	89	%	70-130
JD74701-14MS*	156-60-5	trans-1,2-Dichloroethene	MS	REC	91	%	70-130
JD74701-14MS*	78-87-5	1,2-Dichloropropane	MS	REC	93	%	70-130
JD74701-14MS*	10061-01-5	cis-1,3-Dichloropropene	MS	REC	99	%	70-130
JD74701-14MS*	10061-02-6	trans-1,3-Dichloropropene	MS	REC	100	%	70-130
JD74701-14MS*	100-41-4	Ethylbenzene	MS	REC	80	%	70-130
JD74701-14MS*	76-13-1	Freon 113	MS	REC	97	%	70-130

* Sample used for QC is not from job JD74719

QC Evaluation: Honeywell Limits

Job Number: JD74719
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 10/12/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD74701-14MS*	591-78-6	2-Hexanone	MS	REC	97	%	70-130
JD74701-14MS*	98-82-8	Isopropylbenzene	MS	REC	96	%	70-130
JD74701-14MS*	79-20-9	Methyl Acetate	MS	REC	96	%	70-130
JD74701-14MS*	108-87-2	Methylcyclohexane	MS	REC	91	%	70-130
JD74701-14MS*	1634-04-4	Methyl Tert Butyl Ether	MS	REC	94	%	70-130
JD74701-14MS*	108-10-1	4-Methyl-2-pentanone(MIBK)	MS	REC	106	%	70-130
JD74701-14MS*	75-09-2	Methylene chloride	MS	REC	86	%	70-130
JD74701-14MS*	100-42-5	Styrene	MS	REC	102	%	70-130
JD74701-14MS*	79-34-5	1,1,2,2-Tetrachloroethane	MS	REC	109	%	70-130
JD74701-14MS*	127-18-4	Tetrachloroethene	MS	REC	93	%	70-130
JD74701-14MS*	108-88-3	Toluene	MS	REC	94	%	70-130
JD74701-14MS*	87-61-6	1,2,3-Trichlorobenzene	MS	REC	81	%	70-130
JD74701-14MS*	120-82-1	1,2,4-Trichlorobenzene	MS	REC	79	%	70-130
JD74701-14MS*	71-55-6	1,1,1-Trichloroethane	MS	REC	94	%	70-130
JD74701-14MS*	79-00-5	1,1,2-Trichloroethane	MS	REC	97	%	70-130
JD74701-14MS*	79-01-6	Trichloroethene	MS	REC	85	%	70-130
JD74701-14MS*	75-69-4	Trichlorofluoromethane	MS	REC	94	%	70-130
JD74701-14MS*	75-01-4	Vinyl chloride	MS	REC	77	%	70-130
JD74701-14MS*		m,p-Xylene	MS	REC	92	%	70-130
JD74701-14MS*	95-47-6	o-Xylene	MS	REC	89	%	70-130
JD74701-14MS*	1330-20-7	Xylene (total)	MS	REC	91	%	70-130
JD74701-14MS*	1868-53-7	Dibromofluoromethane	MS	SURR	97	%	70-130
JD74701-14MS*	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	100	%	70-130
JD74701-14MS*	2037-26-5	Toluene-D8	MS	SURR	104	%	70-130
JD74701-14MS*	460-00-4	4-Bromofluorobenzene	MS	SURR	108	%	70-130
JD74701-14MSD*	67-64-1	Acetone	MSD	REC	61	%	70-130
JD74701-14MSD*	67-64-1	Acetone	MSD	RPD	6	%	30
JD74701-14MSD*	71-43-2	Benzene	MSD	REC	66	%	70-130
JD74701-14MSD*	71-43-2	Benzene	MSD	RPD	3	%	30
JD74701-14MSD*	74-97-5	Bromochloromethane	MSD	REC	86	%	70-130
JD74701-14MSD*	74-97-5	Bromochloromethane	MSD	RPD	4	%	30
JD74701-14MSD*	75-27-4	Bromodichloromethane	MSD	REC	98	%	70-130
JD74701-14MSD*	75-27-4	Bromodichloromethane	MSD	RPD	3	%	30
JD74701-14MSD*	75-25-2	Bromoform	MSD	REC	90	%	70-130
JD74701-14MSD*	75-25-2	Bromoform	MSD	RPD	3	%	30
JD74701-14MSD*	74-83-9	Bromomethane	MSD	REC	62	%	70-130
JD74701-14MSD*	74-83-9	Bromomethane	MSD	RPD	16	%	30
JD74701-14MSD*	78-93-3	2-Butanone (MEK)	MSD	REC	88	%	70-130
JD74701-14MSD*	78-93-3	2-Butanone (MEK)	MSD	RPD	1	%	30
JD74701-14MSD*	75-15-0	Carbon disulfide	MSD	REC	98	%	70-130
JD74701-14MSD*	75-15-0	Carbon disulfide	MSD	RPD	2	%	30
JD74701-14MSD*	56-23-5	Carbon tetrachloride	MSD	REC	101	%	70-130
JD74701-14MSD*	56-23-5	Carbon tetrachloride	MSD	RPD	7	%	30
JD74701-14MSD*	108-90-7	Chlorobenzene	MSD	REC	92	%	70-130
JD74701-14MSD*	108-90-7	Chlorobenzene	MSD	RPD	2	%	30

* Sample used for QC is not from job JD74719

QC Evaluation: Honeywell Limits

Job Number: JD74719
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 10/12/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD74701-14MSD*	75-00-3	Chloroethane	MSD	REC	93	%	70-130
JD74701-14MSD*	75-00-3	Chloroethane	MSD	RPD	16	%	30
JD74701-14MSD*	67-66-3	Chloroform	MSD	REC	76	%	70-130
JD74701-14MSD*	67-66-3	Chloroform	MSD	RPD	2	%	30
JD74701-14MSD*	74-87-3	Chloromethane	MSD	REC	54	%	70-130
JD74701-14MSD*	74-87-3	Chloromethane	MSD	RPD	4	%	30
JD74701-14MSD*	110-82-7	Cyclohexane	MSD	REC	84	%	70-130
JD74701-14MSD*	110-82-7	Cyclohexane	MSD	RPD	5	%	30
JD74701-14MSD*	96-12-8	1,2-Dibromo-3-chloropropane	MSD	REC	90	%	70-130
JD74701-14MSD*	96-12-8	1,2-Dibromo-3-chloropropane	MSD	RPD	3	%	30
JD74701-14MSD*	124-48-1	Dibromochloromethane	MSD	REC	89	%	70-130
JD74701-14MSD*	124-48-1	Dibromochloromethane	MSD	RPD	3	%	30
JD74701-14MSD*	106-93-4	1,2-Dibromoethane	MSD	REC	92	%	70-130
JD74701-14MSD*	106-93-4	1,2-Dibromoethane	MSD	RPD	2	%	30
JD74701-14MSD*	95-50-1	1,2-Dichlorobenzene	MSD	REC	87	%	70-130
JD74701-14MSD*	95-50-1	1,2-Dichlorobenzene	MSD	RPD	1	%	30
JD74701-14MSD*	541-73-1	1,3-Dichlorobenzene	MSD	REC	87	%	70-130
JD74701-14MSD*	541-73-1	1,3-Dichlorobenzene	MSD	RPD	1	%	30
JD74701-14MSD*	106-46-7	1,4-Dichlorobenzene	MSD	REC	86	%	70-130
JD74701-14MSD*	106-46-7	1,4-Dichlorobenzene	MSD	RPD	0	%	30
JD74701-14MSD*	75-71-8	Dichlorodifluoromethane	MSD	REC	91	%	70-130
JD74701-14MSD*	75-71-8	Dichlorodifluoromethane	MSD	RPD	5	%	30
JD74701-14MSD*	75-34-3	1,1-Dichloroethane	MSD	REC	92	%	70-130
JD74701-14MSD*	75-34-3	1,1-Dichloroethane	MSD	RPD	3	%	30
JD74701-14MSD*	107-06-2	1,2-Dichloroethane	MSD	REC	88	%	70-130
JD74701-14MSD*	107-06-2	1,2-Dichloroethane	MSD	RPD	3	%	30
JD74701-14MSD*	75-35-4	1,1-Dichloroethene	MSD	REC	99	%	70-130
JD74701-14MSD*	75-35-4	1,1-Dichloroethene	MSD	RPD	1	%	30
JD74701-14MSD*	156-59-2	cis-1,2-Dichloroethene	MSD	REC	92	%	70-130
JD74701-14MSD*	156-59-2	cis-1,2-Dichloroethene	MSD	RPD	4	%	30
JD74701-14MSD*	156-60-5	trans-1,2-Dichloroethene	MSD	REC	95	%	70-130
JD74701-14MSD*	156-60-5	trans-1,2-Dichloroethene	MSD	RPD	4	%	30
JD74701-14MSD*	78-87-5	1,2-Dichloropropane	MSD	REC	95	%	70-130
JD74701-14MSD*	78-87-5	1,2-Dichloropropane	MSD	RPD	3	%	30
JD74701-14MSD*	10061-01-5	cis-1,3-Dichloropropene	MSD	REC	103	%	70-130
JD74701-14MSD*	10061-01-5	cis-1,3-Dichloropropene	MSD	RPD	4	%	30
JD74701-14MSD*	10061-02-6	trans-1,3-Dichloropropene	MSD	REC	100	%	70-130
JD74701-14MSD*	10061-02-6	trans-1,3-Dichloropropene	MSD	RPD	0	%	30
JD74701-14MSD*	100-41-4	Ethylbenzene	MSD	REC	74	%	70-130
JD74701-14MSD*	100-41-4	Ethylbenzene	MSD	RPD	2	%	30
JD74701-14MSD*	76-13-1	Freon 113	MSD	REC	99	%	70-130
JD74701-14MSD*	76-13-1	Freon 113	MSD	RPD	2	%	30
JD74701-14MSD*	591-78-6	2-Hexanone	MSD	REC	89	%	70-130
JD74701-14MSD*	591-78-6	2-Hexanone	MSD	RPD	9	%	30
JD74701-14MSD*	98-82-8	Isopropylbenzene	MSD	REC	97	%	70-130

* Sample used for QC is not from job JD74719

QC Evaluation: Honeywell Limits

Job Number: JD74719
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 10/12/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD74701-14MSD*	98-82-8	Isopropylbenzene	MSD	RPD	1	%	30
JD74701-14MSD*	79-20-9	Methyl Acetate	MSD	REC	96	%	70-130
JD74701-14MSD*	79-20-9	Methyl Acetate	MSD	RPD	0	%	30
JD74701-14MSD*	108-87-2	Methylcyclohexane	MSD	REC	94	%	70-130
JD74701-14MSD*	108-87-2	Methylcyclohexane	MSD	RPD	3	%	30
JD74701-14MSD*	1634-04-4	Methyl Tert Butyl Ether	MSD	REC	96	%	70-130
JD74701-14MSD*	1634-04-4	Methyl Tert Butyl Ether	MSD	RPD	3	%	30
JD74701-14MSD*	108-10-1	4-Methyl-2-pentanone(MIBK)	MSD	REC	101	%	70-130
JD74701-14MSD*	108-10-1	4-Methyl-2-pentanone(MIBK)	MSD	RPD	5	%	30
JD74701-14MSD*	75-09-2	Methylene chloride	MSD	REC	90	%	70-130
JD74701-14MSD*	75-09-2	Methylene chloride	MSD	RPD	4	%	30
JD74701-14MSD*	100-42-5	Styrene	MSD	REC	100	%	70-130
JD74701-14MSD*	100-42-5	Styrene	MSD	RPD	2	%	30
JD74701-14MSD*	79-34-5	1,1,2,2-Tetrachloroethane	MSD	REC	105	%	70-130
JD74701-14MSD*	79-34-5	1,1,2,2-Tetrachloroethane	MSD	RPD	4	%	30
JD74701-14MSD*	127-18-4	Tetrachloroethene	MSD	REC	90	%	70-130
JD74701-14MSD*	127-18-4	Tetrachloroethene	MSD	RPD	3	%	30
JD74701-14MSD*	108-88-3	Toluene	MSD	REC	94	%	70-130
JD74701-14MSD*	108-88-3	Toluene	MSD	RPD	0	%	30
JD74701-14MSD*	87-61-6	1,2,3-Trichlorobenzene	MSD	REC	81	%	70-130
JD74701-14MSD*	87-61-6	1,2,3-Trichlorobenzene	MSD	RPD	0	%	30
JD74701-14MSD*	120-82-1	1,2,4-Trichlorobenzene	MSD	REC	80	%	70-130
JD74701-14MSD*	120-82-1	1,2,4-Trichlorobenzene	MSD	RPD	2	%	30
JD74701-14MSD*	71-55-6	1,1,1-Trichloroethane	MSD	REC	98	%	70-130
JD74701-14MSD*	71-55-6	1,1,1-Trichloroethane	MSD	RPD	4	%	30
JD74701-14MSD*	79-00-5	1,1,2-Trichloroethane	MSD	REC	97	%	70-130
JD74701-14MSD*	79-00-5	1,1,2-Trichloroethane	MSD	RPD	0	%	30
JD74701-14MSD*	79-01-6	Trichloroethene	MSD	REC	86	%	70-130
JD74701-14MSD*	79-01-6	Trichloroethene	MSD	RPD	1	%	30
JD74701-14MSD*	75-69-4	Trichlorofluoromethane	MSD	REC	99	%	70-130
JD74701-14MSD*	75-69-4	Trichlorofluoromethane	MSD	RPD	5	%	30
JD74701-14MSD*	75-01-4	Vinyl chloride	MSD	REC	78	%	70-130
JD74701-14MSD*	75-01-4	Vinyl chloride	MSD	RPD	2	%	30
JD74701-14MSD*		m,p-Xylene	MSD	REC	89	%	70-130
JD74701-14MSD*		m,p-Xylene	MSD	RPD	1	%	30
JD74701-14MSD*	95-47-6	o-Xylene	MSD	REC	89	%	70-130
JD74701-14MSD*	95-47-6	o-Xylene	MSD	RPD	0	%	30
JD74701-14MSD*	1330-20-7	Xylene (total)	MSD	REC	89	%	70-130
JD74701-14MSD*	1330-20-7	Xylene (total)	MSD	RPD	1	%	30
JD74701-14MSD*	1868-53-7	Dibromofluoromethane	MSD	SURR	101	%	70-130
JD74701-14MSD*	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	104	%	70-130
JD74701-14MSD*	2037-26-5	Toluene-D8	MSD	SURR	104	%	70-130
JD74701-14MSD*	460-00-4	4-Bromofluorobenzene	MSD	SURR	108	%	70-130
V2T149-MB	1868-53-7	Dibromofluoromethane	MB	SURR	109	%	70-130
V2T149-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	102	%	70-130

* Sample used for QC is not from job JD74719

QC Evaluation: Honeywell Limits

Job Number: JD74719
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 10/12/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V2T149-MB	2037-26-5	Toluene-D8	MB	SURR	107	%	70-130
V2T149-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	101	%	70-130
JD74719-3	1868-53-7	Dibromofluoromethane	SAMP	SURR	107	%	70-130
JD74719-3	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	98	%	70-130
JD74719-3	2037-26-5	Toluene-D8	SAMP	SURR	108	%	70-130
JD74719-3	460-00-4	4-Bromofluorobenzene	SAMP	SURR	102	%	70-130
VY8885	SW846 8260D						
VY8885-BS	67-64-1	Acetone	BSP	REC	90	%	70-130
VY8885-BS	71-43-2	Benzene	BSP	REC	95	%	70-130
VY8885-BS	74-97-5	Bromochloromethane	BSP	REC	105	%	70-130
VY8885-BS	75-27-4	Bromodichloromethane	BSP	REC	99	%	70-130
VY8885-BS	75-25-2	Bromoform	BSP	REC	112	%	70-130
VY8885-BS	74-83-9	Bromomethane	BSP	REC	93	%	70-130
VY8885-BS	78-93-3	2-Butanone (MEK)	BSP	REC	99	%	70-130
VY8885-BS	75-15-0	Carbon disulfide	BSP	REC	83	%	70-130
VY8885-BS	56-23-5	Carbon tetrachloride	BSP	REC	103	%	70-130
VY8885-BS	108-90-7	Chlorobenzene	BSP	REC	99	%	70-130
VY8885-BS	75-00-3	Chloroethane	BSP	REC	101	%	70-130
VY8885-BS	67-66-3	Chloroform	BSP	REC	89	%	70-130
VY8885-BS	74-87-3	Chloromethane	BSP	REC	92	%	70-130
VY8885-BS	110-82-7	Cyclohexane	BSP	REC	92	%	70-130
VY8885-BS	96-12-8	1,2-Dibromo-3-chloropropane	BSP	REC	102	%	70-130
VY8885-BS	124-48-1	Dibromochloromethane	BSP	REC	107	%	70-130
VY8885-BS	106-93-4	1,2-Dibromoethane	BSP	REC	104	%	70-130
VY8885-BS	95-50-1	1,2-Dichlorobenzene	BSP	REC	97	%	70-130
VY8885-BS	541-73-1	1,3-Dichlorobenzene	BSP	REC	96	%	70-130
VY8885-BS	106-46-7	1,4-Dichlorobenzene	BSP	REC	94	%	70-130
VY8885-BS	75-71-8	Dichlorodifluoromethane	BSP	REC	104	%	70-130
VY8885-BS	75-34-3	1,1-Dichloroethane	BSP	REC	96	%	70-130
VY8885-BS	107-06-2	1,2-Dichloroethane	BSP	REC	92	%	70-130
VY8885-BS	75-35-4	1,1-Dichloroethene	BSP	REC	93	%	70-130
VY8885-BS	156-59-2	cis-1,2-Dichloroethene	BSP	REC	100	%	70-130
VY8885-BS	156-60-5	trans-1,2-Dichloroethene	BSP	REC	92	%	70-130
VY8885-BS	78-87-5	1,2-Dichloropropane	BSP	REC	100	%	70-130
VY8885-BS	10061-01-5	cis-1,3-Dichloropropene	BSP	REC	101	%	70-130
VY8885-BS	10061-02-6	trans-1,3-Dichloropropene	BSP	REC	103	%	70-130
VY8885-BS	100-41-4	Ethylbenzene	BSP	REC	94	%	70-130
VY8885-BS	76-13-1	Freon 113	BSP	REC	98	%	70-130
VY8885-BS	591-78-6	2-Hexanone	BSP	REC	97	%	70-130
VY8885-BS	98-82-8	Isopropylbenzene	BSP	REC	95	%	70-130
VY8885-BS	79-20-9	Methyl Acetate	BSP	REC	100	%	70-130
VY8885-BS	108-87-2	Methylcyclohexane	BSP	REC	84	%	70-130
VY8885-BS	1634-04-4	Methyl Tert Butyl Ether	BSP	REC	107	%	70-130

* Sample used for QC is not from job JD74719

QC Evaluation: Honeywell Limits

Job Number: JD74719
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 10/12/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
VY8885-BS	108-10-1	4-Methyl-2-pentanone(MIBK)	BSP	REC	104	%	70-130
VY8885-BS	75-09-2	Methylene chloride	BSP	REC	85	%	70-130
VY8885-BS	100-42-5	Styrene	BSP	REC	97	%	70-130
VY8885-BS	79-34-5	1,1,2,2-Tetrachloroethane	BSP	REC	97	%	70-130
VY8885-BS	127-18-4	Tetrachloroethene	BSP	REC	101	%	70-130
VY8885-BS	108-88-3	Toluene	BSP	REC	97	%	70-130
VY8885-BS	87-61-6	1,2,3-Trichlorobenzene	BSP	REC	98	%	70-130
VY8885-BS	120-82-1	1,2,4-Trichlorobenzene	BSP	REC	100	%	70-130
VY8885-BS	71-55-6	1,1,1-Trichloroethane	BSP	REC	100	%	70-130
VY8885-BS	79-00-5	1,1,2-Trichloroethane	BSP	REC	104	%	70-130
VY8885-BS	79-01-6	Trichloroethene	BSP	REC	99	%	70-130
VY8885-BS	75-69-4	Trichlorofluoromethane	BSP	REC	94	%	70-130
VY8885-BS	75-01-4	Vinyl chloride	BSP	REC	98	%	70-130
VY8885-BS		m,p-Xylene	BSP	REC	95	%	70-130
VY8885-BS	95-47-6	o-Xylene	BSP	REC	94	%	70-130
VY8885-BS	1330-20-7	Xylene (total)	BSP	REC	95	%	70-130
VY8885-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	98	%	70-130
VY8885-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	88	%	70-130
VY8885-BS	2037-26-5	Toluene-D8	BSP	SURR	98	%	70-130
VY8885-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	97	%	70-130
JD74697-2MS*	67-64-1	Acetone	MS	REC	58	%	70-130
JD74697-2MS*	71-43-2	Benzene	MS	REC	93	%	70-130
JD74697-2MS*	74-97-5	Bromochloromethane	MS	REC	100	%	70-130
JD74697-2MS*	75-27-4	Bromodichloromethane	MS	REC	93	%	70-130
JD74697-2MS*	75-25-2	Bromoform	MS	REC	93	%	70-130
JD74697-2MS*	74-83-9	Bromomethane	MS	REC	91	%	70-130
JD74697-2MS*	78-93-3	2-Butanone (MEK)	MS	REC	70	%	70-130
JD74697-2MS*	75-15-0	Carbon disulfide	MS	REC	79	%	70-130
JD74697-2MS*	56-23-5	Carbon tetrachloride	MS	REC	94	%	70-130
JD74697-2MS*	108-90-7	Chlorobenzene	MS	REC	87	%	70-130
JD74697-2MS*	75-00-3	Chloroethane	MS	REC	95	%	70-130
JD74697-2MS*	67-66-3	Chloroform	MS	REC	85	%	70-130
JD74697-2MS*	74-87-3	Chloromethane	MS	REC	86	%	70-130
JD74697-2MS*	110-82-7	Cyclohexane	MS	REC	79	%	70-130
JD74697-2MS*	96-12-8	1,2-Dibromo-3-chloropropane	MS	REC	75	%	70-130
JD74697-2MS*	124-48-1	Dibromochloromethane	MS	REC	96	%	70-130
JD74697-2MS*	106-93-4	1,2-Dibromoethane	MS	REC	92	%	70-130
JD74697-2MS*	95-50-1	1,2-Dichlorobenzene	MS	REC	72	%	70-130
JD74697-2MS*	541-73-1	1,3-Dichlorobenzene	MS	REC	73	%	70-130
JD74697-2MS*	106-46-7	1,4-Dichlorobenzene	MS	REC	72	%	70-130
JD74697-2MS*	75-71-8	Dichlorodifluoromethane	MS	REC	97	%	70-130
JD74697-2MS*	75-34-3	1,1-Dichloroethane	MS	REC	92	%	70-130
JD74697-2MS*	107-06-2	1,2-Dichloroethane	MS	REC	87	%	70-130
JD74697-2MS*	75-35-4	1,1-Dichloroethene	MS	REC	89	%	70-130
JD74697-2MS*	156-59-2	cis-1,2-Dichloroethene	MS	REC	96	%	70-130

* Sample used for QC is not from job JD74719

QC Evaluation: Honeywell Limits

Job Number: JD74719
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 10/12/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD74697-2MS*	156-60-5	trans-1,2-Dichloroethene	MS	REC	90	%	70-130
JD74697-2MS*	78-87-5	1,2-Dichloropropane	MS	REC	97	%	70-130
JD74697-2MS*	10061-01-5	cis-1,3-Dichloropropene	MS	REC	92	%	70-130
JD74697-2MS*	10061-02-6	trans-1,3-Dichloropropene	MS	REC	90	%	70-130
JD74697-2MS*	100-41-4	Ethylbenzene	MS	REC	84	%	70-130
JD74697-2MS*	76-13-1	Freon 113	MS	REC	90	%	70-130
JD74697-2MS*	591-78-6	2-Hexanone	MS	REC	72	%	70-130
JD74697-2MS*	98-82-8	Isopropylbenzene	MS	REC	82	%	70-130
JD74697-2MS*	79-20-9	Methyl Acetate	MS	REC	155	%	70-130
JD74697-2MS*	108-87-2	Methylcyclohexane	MS	REC	69	%	70-130
JD74697-2MS*	1634-04-4	Methyl Tert Butyl Ether	MS	REC	90	%	70-130
JD74697-2MS*	108-10-1	4-Methyl-2-pentanone(MIBK)	MS	REC	87	%	70-130
JD74697-2MS*	75-09-2	Methylene chloride	MS	REC	81	%	70-130
JD74697-2MS*	100-42-5	Styrene	MS	REC	84	%	70-130
JD74697-2MS*	79-34-5	1,1,2,2-Tetrachloroethane	MS	REC	79	%	70-130
JD74697-2MS*	127-18-4	Tetrachloroethene	MS	REC	88	%	70-130
JD74697-2MS*	108-88-3	Toluene	MS	REC	91	%	70-130
JD74697-2MS*	87-61-6	1,2,3-Trichlorobenzene	MS	REC	53	%	70-130
JD74697-2MS*	120-82-1	1,2,4-Trichlorobenzene	MS	REC	57	%	70-130
JD74697-2MS*	71-55-6	1,1,1-Trichloroethane	MS	REC	93	%	70-130
JD74697-2MS*	79-00-5	1,1,2-Trichloroethane	MS	REC	92	%	70-130
JD74697-2MS*	79-01-6	Trichloroethene	MS	REC	94	%	70-130
JD74697-2MS*	75-69-4	Trichlorofluoromethane	MS	REC	87	%	70-130
JD74697-2MS*	75-01-4	Vinyl chloride	MS	REC	92	%	70-130
JD74697-2MS*		m,p-Xylene	MS	REC	84	%	70-130
JD74697-2MS*	95-47-6	o-Xylene	MS	REC	84	%	70-130
JD74697-2MS*	1330-20-7	Xylene (total)	MS	REC	84	%	70-130
JD74697-2MS*	1868-53-7	Dibromofluoromethane	MS	SURR	95	%	70-130
JD74697-2MS*	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	87	%	70-130
JD74697-2MS*	2037-26-5	Toluene-D8	MS	SURR	98	%	70-130
JD74697-2MS*	460-00-4	4-Bromofluorobenzene	MS	SURR	96	%	70-130
JD74697-4DUP*	67-64-1	Acetone	DUP	RPD	0	%	50
JD74697-4DUP*	71-43-2	Benzene	DUP	RPD	0	%	50
JD74697-4DUP*	74-97-5	Bromochloromethane	DUP	RPD	0	%	50
JD74697-4DUP*	75-27-4	Bromodichloromethane	DUP	RPD	0	%	50
JD74697-4DUP*	75-25-2	Bromoform	DUP	RPD	0	%	50
JD74697-4DUP*	74-83-9	Bromomethane	DUP	RPD	0	%	50
JD74697-4DUP*	78-93-3	2-Butanone (MEK)	DUP	RPD	0	%	50
JD74697-4DUP*	75-15-0	Carbon disulfide	DUP	RPD	0	%	50
JD74697-4DUP*	56-23-5	Carbon tetrachloride	DUP	RPD	0	%	50
JD74697-4DUP*	108-90-7	Chlorobenzene	DUP	RPD	0	%	50
JD74697-4DUP*	75-00-3	Chloroethane	DUP	RPD	0	%	50
JD74697-4DUP*	67-66-3	Chloroform	DUP	RPD	0	%	50
JD74697-4DUP*	74-87-3	Chloromethane	DUP	RPD	0	%	50
JD74697-4DUP*	110-82-7	Cyclohexane	DUP	RPD	0	%	50

* Sample used for QC is not from job JD74719

QC Evaluation: Honeywell Limits

Job Number: JD74719
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 10/12/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD74697-4DUP*	96-12-8	1,2-Dibromo-3-chloropropane	DUP	RPD	0	%	50
JD74697-4DUP*	124-48-1	Dibromochloromethane	DUP	RPD	0	%	50
JD74697-4DUP*	106-93-4	1,2-Dibromoethane	DUP	RPD	0	%	50
JD74697-4DUP*	95-50-1	1,2-Dichlorobenzene	DUP	RPD	0	%	50
JD74697-4DUP*	541-73-1	1,3-Dichlorobenzene	DUP	RPD	0	%	50
JD74697-4DUP*	106-46-7	1,4-Dichlorobenzene	DUP	RPD	0	%	50
JD74697-4DUP*	75-71-8	Dichlorodifluoromethane	DUP	RPD	0	%	50
JD74697-4DUP*	75-34-3	1,1-Dichloroethane	DUP	RPD	0	%	50
JD74697-4DUP*	107-06-2	1,2-Dichloroethane	DUP	RPD	0	%	50
JD74697-4DUP*	75-35-4	1,1-Dichloroethene	DUP	RPD	0	%	50
JD74697-4DUP*	156-59-2	cis-1,2-Dichloroethene	DUP	RPD	0	%	50
JD74697-4DUP*	156-60-5	trans-1,2-Dichloroethene	DUP	RPD	0	%	50
JD74697-4DUP*	78-87-5	1,2-Dichloropropane	DUP	RPD	0	%	50
JD74697-4DUP*	10061-01-5	cis-1,3-Dichloropropene	DUP	RPD	0	%	50
JD74697-4DUP*	10061-02-6	trans-1,3-Dichloropropene	DUP	RPD	0	%	50
JD74697-4DUP*	100-41-4	Ethylbenzene	DUP	RPD	0	%	50
JD74697-4DUP*	76-13-1	Freon 113	DUP	RPD	0	%	50
JD74697-4DUP*	591-78-6	2-Hexanone	DUP	RPD	0	%	50
JD74697-4DUP*	98-82-8	Isopropylbenzene	DUP	RPD	0	%	50
JD74697-4DUP*	79-20-9	Methyl Acetate	DUP	RPD	0	%	50
JD74697-4DUP*	108-87-2	Methylcyclohexane	DUP	RPD	0	%	50
JD74697-4DUP*	1634-04-4	Methyl Tert Butyl Ether	DUP	RPD	0	%	50
JD74697-4DUP*	108-10-1	4-Methyl-2-pentanone(MIBK)	DUP	RPD	0	%	50
JD74697-4DUP*	75-09-2	Methylene chloride	DUP	RPD	0	%	50
JD74697-4DUP*	100-42-5	Styrene	DUP	RPD	0	%	50
JD74697-4DUP*	79-34-5	1,1,2,2-Tetrachloroethane	DUP	RPD	0	%	50
JD74697-4DUP*	127-18-4	Tetrachloroethene	DUP	RPD	0	%	50
JD74697-4DUP*	108-88-3	Toluene	DUP	RPD	0	%	50
JD74697-4DUP*	87-61-6	1,2,3-Trichlorobenzene	DUP	RPD	0	%	50
JD74697-4DUP*	120-82-1	1,2,4-Trichlorobenzene	DUP	RPD	0	%	50
JD74697-4DUP*	71-55-6	1,1,1-Trichloroethane	DUP	RPD	0	%	50
JD74697-4DUP*	79-00-5	1,1,2-Trichloroethane	DUP	RPD	0	%	50
JD74697-4DUP*	79-01-6	Trichloroethene	DUP	RPD	0	%	50
JD74697-4DUP*	75-69-4	Trichlorofluoromethane	DUP	RPD	0	%	50
JD74697-4DUP*	75-01-4	Vinyl chloride	DUP	RPD	0	%	50
JD74697-4DUP*		m,p-Xylene	DUP	RPD	0	%	50
JD74697-4DUP*	95-47-6	o-Xylene	DUP	RPD	0	%	50
JD74697-4DUP*	1330-20-7	Xylene (total)	DUP	RPD	0	%	50
JD74697-4DUP*	1868-53-7	Dibromofluoromethane	DUP	SURR	98	%	70-130
JD74697-4DUP*	17060-07-0	1,2-Dichloroethane-D4	DUP	SURR	98	%	70-130
JD74697-4DUP*	2037-26-5	Toluene-D8	DUP	SURR	98	%	70-130
JD74697-4DUP*	460-00-4	4-Bromofluorobenzene	DUP	SURR	97	%	70-130
VY8885-MB	1868-53-7	Dibromofluoromethane	MB	SURR	96	%	70-130
VY8885-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	93	%	70-130
VY8885-MB	2037-26-5	Toluene-D8	MB	SURR	97	%	70-130

* Sample used for QC is not from job JD74719

QC Evaluation: Honeywell Limits

Job Number: JD74719
Account: Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY
Collected: 10/12/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
VY8885-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	97	%	70-130
JD74719-1	1868-53-7	Dibromofluoromethane	SAMP	SURR	103	%	70-130
JD74719-1	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	107	%	70-130
JD74719-1	2037-26-5	Toluene-D8	SAMP	SURR	97	%	70-130
JD74719-1	460-00-4	4-Bromofluorobenzene	SAMP	SURR	99	%	70-130

* Sample used for QC is not from job JD74719

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: JD74719
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
VY8885-MB	Y204209.D	1	10/14/23	PS	n/a	n/a	VY8885

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD74719-1

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: JD74719
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
VY8885-MB	Y204209.D	1	10/14/23	PS	n/a	n/a	VY8885

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD74719-1

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	96%	80-124%
17060-07-0	1,2-Dichloroethane-D4	93%	75-133%
2037-26-5	Toluene-D8	97%	79-125%
460-00-4	4-Bromofluorobenzene	97%	58-148%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	.93	5.8	ug/kg	J
	Total TIC, Volatile		0	ug/kg	

Method Blank Summary

Job Number: JD74719
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
V2T149-MB	2T5017.D	1	10/16/23	LD	n/a	n/a	V2T149

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD74719-3

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	1.9	2.0	1.6	ug/l	J
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	1.8	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	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	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	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	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	4.8	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	

Method Blank Summary

Job Number: JD74719
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
V2T149-MB	2T5017.D	1	10/16/23	LD	n/a	n/a	V2T149

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD74719-3

CAS No.	Compound	Result	RL	MDL	Units	Q
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	4.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	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	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.52	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	109%	80-120%
17060-07-0	1,2-Dichloroethane-D4	102%	80-120%
2037-26-5	Toluene-D8	107%	80-120%
460-00-4	4-Bromofluorobenzene	101%	82-114%

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

Blank Spike Summary

Job Number: JD74719
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
VY8885-BS	Y204207.D	1	10/14/23	PS	n/a	n/a	VY8885

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD74719-1

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	47.5	95	82-119
74-97-5	Bromochloromethane	50	52.5	105	82-123
75-27-4	Bromodichloromethane	50	49.4	99	83-121
75-25-2	Bromoform	50	56.2	112	74-138
74-83-9	Bromomethane	50	46.6	93	56-150
78-93-3	2-Butanone (MEK)	200	197	99	72-138
75-15-0	Carbon disulfide	50	41.4	83	67-131
56-23-5	Carbon tetrachloride	50	51.5	103	72-130
108-90-7	Chlorobenzene	50	49.3	99	83-114
75-00-3	Chloroethane	50	50.3	101	67-141
67-66-3	Chloroform	50	44.6	89	76-115
74-87-3	Chloromethane	50	46.0	92	57-141
110-82-7	Cyclohexane	50	46.0	92	69-130
96-12-8	1,2-Dibromo-3-chloropropane	50	51.2	102	72-131
124-48-1	Dibromochloromethane	50	53.3	107	80-128
106-93-4	1,2-Dibromoethane	50	52.2	104	58-145
95-50-1	1,2-Dichlorobenzene	50	48.4	97	83-117
541-73-1	1,3-Dichlorobenzene	50	47.8	96	82-114
106-46-7	1,4-Dichlorobenzene	50	47.0	94	79-114
75-71-8	Dichlorodifluoromethane	50	52.2	104	49-146
75-34-3	1,1-Dichloroethane	50	48.2	96	76-126
107-06-2	1,2-Dichloroethane	50	46.2	92	76-118
75-35-4	1,1-Dichloroethene	50	46.5	93	72-125
156-59-2	cis-1,2-Dichloroethene	50	50.2	100	80-118
156-60-5	trans-1,2-Dichloroethene	50	46.1	92	76-122
78-87-5	1,2-Dichloropropane	50	49.9	100	82-123
10061-01-5	cis-1,3-Dichloropropene	50	50.5	101	83-123
10061-02-6	trans-1,3-Dichloropropene	50	51.7	103	83-123
100-41-4	Ethylbenzene	50	47.1	94	83-115
76-13-1	Freon 113	50	49.1	98	65-132
591-78-6	2-Hexanone	200	193	97	73-138
98-82-8	Isopropylbenzene	50	47.4	95	81-122
79-20-9	Methyl Acetate	50	50.1	100	63-142
108-87-2	Methylcyclohexane	50	41.9	84	73-126
1634-04-4	Methyl Tert Butyl Ether	50	53.3	107	75-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD74719
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
VY8885-BS	Y204207.D	1	10/14/23	PS	n/a	n/a	VY8885

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD74719-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	200	208	104	71-138
75-09-2	Methylene chloride	50	42.4	85	73-122
100-42-5	Styrene	50	48.3	97	84-122
79-34-5	1,1,2,2-Tetrachloroethane	50	48.6	97	75-127
127-18-4	Tetrachloroethene	50	50.4	101	73-125
108-88-3	Toluene	50	48.4	97	82-118
87-61-6	1,2,3-Trichlorobenzene	50	49.1	98	68-132
120-82-1	1,2,4-Trichlorobenzene	50	50.1	100	72-133
71-55-6	1,1,1-Trichloroethane	50	50.2	100	77-124
79-00-5	1,1,2-Trichloroethane	50	51.9	104	83-122
79-01-6	Trichloroethene	50	49.6	99	80-122
75-69-4	Trichlorofluoromethane	50	47.1	94	69-132
75-01-4	Vinyl chloride	50	49.2	98	60-144
	m,p-Xylene	100	94.9	95	82-119
95-47-6	o-Xylene	50	47.2	94	84-120
1330-20-7	Xylene (total)	150	142	95	83-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	80-124%
17060-07-0	1,2-Dichloroethane-D4	88%	75-133%
2037-26-5	Toluene-D8	98%	79-125%
460-00-4	4-Bromofluorobenzene	97%	58-148%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD74719
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
V2T149-BS	2T5015.D	1	10/16/23	LD	n/a	n/a	V2T149

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD74719-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	200	264	132	27-175
71-43-2	Benzene	50	48.1	96	80-115
74-97-5	Bromochloromethane	50	45.3	91	83-122
75-27-4	Bromodichloromethane	50	50.8	102	82-119
75-25-2	Bromoform	50	47.6	95	77-135
74-83-9	Bromomethane	50	50.5	101	40-162
78-93-3	2-Butanone (MEK)	200	257	129	61-150
75-15-0	Carbon disulfide	50	52.9	106	64-130
56-23-5	Carbon tetrachloride	50	46.6	93	75-127
108-90-7	Chlorobenzene	50	46.8	94	80-115
75-00-3	Chloroethane	50	63.0	126	56-144
67-66-3	Chloroform	50	41.2	82	75-116
74-87-3	Chloromethane	50	33.9	68	41-153
110-82-7	Cyclohexane	50	47.3	95	66-129
96-12-8	1,2-Dibromo-3-chloropropane	50	47.4	95	69-134
124-48-1	Dibromochloromethane	50	45.3	91	81-123
106-93-4	1,2-Dibromoethane	50	46.8	94	67-138
95-50-1	1,2-Dichlorobenzene	50	44.7	89	81-117
541-73-1	1,3-Dichlorobenzene	50	44.4	89	81-115
106-46-7	1,4-Dichlorobenzene	50	44.2	88	80-114
75-71-8	Dichlorodifluoromethane	50	46.0	92	43-152
75-34-3	1,1-Dichloroethane	50	49.4	99	75-125
107-06-2	1,2-Dichloroethane	50	44.8	90	73-117
75-35-4	1,1-Dichloroethene	50	50.3	101	70-124
156-59-2	cis-1,2-Dichloroethene	50	49.3	99	80-120
156-60-5	trans-1,2-Dichloroethene	50	50.6	101	77-121
78-87-5	1,2-Dichloropropane	50	48.9	98	79-121
10061-01-5	cis-1,3-Dichloropropene	50	53.9	108	83-123
10061-02-6	trans-1,3-Dichloropropene	50	53.4	107	83-122
100-41-4	Ethylbenzene	50	46.9	94	78-116
76-13-1	Freon 113	50	45.9	92	68-134
591-78-6	2-Hexanone	200	208	104	66-136
98-82-8	Isopropylbenzene	50	47.0	94	78-121
79-20-9	Methyl Acetate	50	56.8	114	60-143
108-87-2	Methylcyclohexane	50	40.6	81	71-123
1634-04-4	Methyl Tert Butyl Ether	50	51.7	103	76-123

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD74719
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
V2T149-BS	2T5015.D	1	10/16/23	LD	n/a	n/a	V2T149

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD74719-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	200	212	106	73-134
75-09-2	Methylene chloride	50	50.5	101	73-123
100-42-5	Styrene	50	51.5	103	81-125
79-34-5	1,1,2,2-Tetrachloroethane	50	53.6	107	73-126
127-18-4	Tetrachloroethene	50	43.7	87	73-119
108-88-3	Toluene	50	46.7	93	79-116
87-61-6	1,2,3-Trichlorobenzene	50	40.7	81	63-137
120-82-1	1,2,4-Trichlorobenzene	50	40.3	81	68-135
71-55-6	1,1,1-Trichloroethane	50	48.7	97	76-124
79-00-5	1,1,2-Trichloroethane	50	51.0	102	83-117
79-01-6	Trichloroethene	50	42.2	84	80-118
75-69-4	Trichlorofluoromethane	50	52.0	104	67-134
75-01-4	Vinyl chloride	50	45.3	91	52-146
	m,p-Xylene	100	95.3	95	79-119
95-47-6	o-Xylene	50	46.8	94	81-119
1330-20-7	Xylene (total)	150	142	95	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	106%	80-120%
17060-07-0	1,2-Dichloroethane-D4	103%	80-120%
2037-26-5	Toluene-D8	104%	80-120%
460-00-4	4-Bromofluorobenzene	103%	82-114%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JD74719
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
JD74697-2MS	Y204214.D	1	10/14/23	PS	n/a	n/a	VY8885
JD74697-2	Y204210.D	1	10/14/23	PS	n/a	n/a	VY8885

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD74719-1

CAS No.	Compound	JD74697-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Limits
67-64-1	Acetone	ND		305	178	58	10-170
71-43-2	Benzene	ND		76.1	70.5	93	61-132
74-97-5	Bromochloromethane	ND		76.1	76.0	100	68-126
75-27-4	Bromodichloromethane	ND		76.1	70.9	93	65-129
75-25-2	Bromoform	ND		76.1	70.5	93	52-136
74-83-9	Bromomethane	ND		76.1	69.2	91	23-158
78-93-3	2-Butanone (MEK)	ND		305	212	70	45-142
75-15-0	Carbon disulfide	ND		76.1	59.8	79	50-140
56-23-5	Carbon tetrachloride	ND		76.1	71.8	94	54-139
108-90-7	Chlorobenzene	ND		76.1	66.1	87	57-127
75-00-3	Chloroethane	ND		76.1	72.0	95	30-157
67-66-3	Chloroform	ND		76.1	64.4	85	59-127
74-87-3	Chloromethane	ND		76.1	65.2	86	49-145
110-82-7	Cyclohexane	ND		76.1	60.1	79	39-147
96-12-8	1,2-Dibromo-3-chloropropane	ND		76.1	57.1	75	35-140
124-48-1	Dibromochloromethane	ND		76.1	72.8	96	63-129
106-93-4	1,2-Dibromoethane	ND		76.1	69.9	92	45-141
95-50-1	1,2-Dichlorobenzene	ND		76.1	55.0	72	38-136
541-73-1	1,3-Dichlorobenzene	ND		76.1	55.9	73	37-135
106-46-7	1,4-Dichlorobenzene	ND		76.1	54.8	72	36-134
75-71-8	Dichlorodifluoromethane	ND		76.1	73.8	97	33-152
75-34-3	1,1-Dichloroethane	ND		76.1	69.7	92	68-131
107-06-2	1,2-Dichloroethane	ND		76.1	66.4	87	64-119
75-35-4	1,1-Dichloroethene	ND		76.1	67.8	89	60-133
156-59-2	cis-1,2-Dichloroethene	ND		76.1	72.8	96	58-133
156-60-5	trans-1,2-Dichloroethene	ND		76.1	68.5	90	62-130
78-87-5	1,2-Dichloropropane	ND		76.1	73.6	97	70-127
10061-01-5	cis-1,3-Dichloropropene	ND		76.1	70.2	92	64-126
10061-02-6	trans-1,3-Dichloropropene	ND		76.1	68.5	90	61-127
100-41-4	Ethylbenzene	ND		76.1	63.7	84	51-133
76-13-1	Freon 113	ND		76.1	68.8	90	46-138
591-78-6	2-Hexanone	ND		305	220	72	45-144
98-82-8	Isopropylbenzene	ND		76.1	62.1	82	44-142
79-20-9	Methyl Acetate	ND		76.1	118	155	14-192
108-87-2	Methylcyclohexane	ND		76.1	52.7	69	27-149
1634-04-4	Methyl Tert Butyl Ether	ND		76.1	68.6	90	62-125

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JD74719
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
JD74697-2MS	Y204214.D	1	10/14/23	PS	n/a	n/a	VY8885
JD74697-2	Y204210.D	1	10/14/23	PS	n/a	n/a	VY8885

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD74719-1

CAS No.	Compound	JD74697-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		305	266	87	50-138
75-09-2	Methylene chloride	ND		76.1	61.6	81	63-127
100-42-5	Styrene	ND		76.1	63.7	84	48-143
79-34-5	1,1,2,2-Tetrachloroethane	ND		76.1	60.5	79	44-135
127-18-4	Tetrachloroethene	ND		76.1	67.3	88	38-146
108-88-3	Toluene	ND		76.1	69.4	91	56-135
87-61-6	1,2,3-Trichlorobenzene	ND		76.1	40.1	53	10-153
120-82-1	1,2,4-Trichlorobenzene	ND		76.1	43.3	57	10-158
71-55-6	1,1,1-Trichloroethane	ND		76.1	71.1	93	61-134
79-00-5	1,1,2-Trichloroethane	ND		76.1	70.3	92	62-133
79-01-6	Trichloroethene	ND		76.1	71.6	94	52-144
75-69-4	Trichlorofluoromethane	ND		76.1	66.0	87	50-141
75-01-4	Vinyl chloride	ND		76.1	70.0	92	48-151
	m,p-Xylene	ND		152	128	84	51-135
95-47-6	o-Xylene	ND		76.1	64.2	84	52-137
1330-20-7	Xylene (total)	ND		228	192	84	50-138

CAS No.	Surrogate Recoveries	MS	JD74697-2	Limits
1868-53-7	Dibromofluoromethane	95%	98%	80-124%
17060-07-0	1,2-Dichloroethane-D4	87%	97%	75-133%
2037-26-5	Toluene-D8	98%	97%	79-125%
460-00-4	4-Bromofluorobenzene	96%	96%	58-148%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD74719
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
JD74701-14MS	2T5029.D	25	10/16/23	LD	n/a	n/a	V2T149
JD74701-14MSD	2T5031.D	25	10/16/23	LD	n/a	n/a	V2T149
JD74701-14	2T5027.D	25	10/16/23	LD	n/a	n/a	V2T149

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD74719-3

CAS No.	Compound	JD74701-14 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		5000	2880	58	5000	3060	61	6	22-134/19
71-43-2	Benzene	4500		1250	5170	54	1250	5320	66	3	49-137/12
74-97-5	Bromochloromethane	ND		1250	1030	82	1250	1070	86	4	78-122/12
75-27-4	Bromodichloromethane	ND		1250	1190	95	1250	1230	98	3	76-121/12
75-25-2	Bromoform	ND		1250	1100	88	1250	1130	90	3	70-133/13
74-83-9	Bromomethane	ND		1250	662	53	1250	774	62	16	27-164/38
78-93-3	2-Butanone (MEK)	ND		5000	4360	87	5000	4410	88	1	52-137/17
75-15-0	Carbon disulfide	ND		1250	1200	96	1250	1230	98	2	54-136/16
56-23-5	Carbon tetrachloride	ND		1250	1180	94	1250	1260	101	7	70-132/13
108-90-7	Chlorobenzene	ND		1250	1170	94	1250	1150	92	2	68-123/12
75-00-3	Chloroethane	ND		1250	990	79	1250	1160	93	16	48-152/17
67-66-3	Chloroform	ND		1250	926	74	1250	944	76	2	68-120/13
74-87-3	Chloromethane	ND		1250	642	51	1250	669	54	4	35-156/18
110-82-7	Cyclohexane	ND		1250	997	80	1250	1050	84	5	53-146/14
96-12-8	1,2-Dibromo-3-chloropropane	ND		1250	1160	93	1250	1130	90	3	63-134/16
124-48-1	Dibromochloromethane	ND		1250	1080	86	1250	1110	89	3	75-122/12
106-93-4	1,2-Dibromoethane	ND		1250	1130	90	1250	1150	92	2	63-134/12
95-50-1	1,2-Dichlorobenzene	ND		1250	1100	88	1250	1090	87	1	74-119/12
541-73-1	1,3-Dichlorobenzene	ND		1250	1080	86	1250	1090	87	1	75-117/12
106-46-7	1,4-Dichlorobenzene	ND		1250	1080	86	1250	1080	86	0	72-117/12
75-71-8	Dichlorodifluoromethane	ND		1250	1080	86	1250	1140	91	5	34-163/16
75-34-3	1,1-Dichloroethane	ND		1250	1120	90	1250	1150	92	3	68-129/13
107-06-2	1,2-Dichloroethane	ND		1250	1070	86	1250	1100	88	3	66-120/13
75-35-4	1,1-Dichloroethene	ND		1250	1230	98	1250	1240	99	1	59-133/15
156-59-2	cis-1,2-Dichloroethene	ND		1250	1110	89	1250	1150	92	4	52-140/12
156-60-5	trans-1,2-Dichloroethene	ND		1250	1140	91	1250	1190	95	4	70-125/13
78-87-5	1,2-Dichloropropane	ND		1250	1160	93	1250	1190	95	3	73-124/12
10061-01-5	cis-1,3-Dichloropropene	ND		1250	1240	99	1250	1290	103	4	75-125/13
10061-02-6	trans-1,3-Dichloropropene	ND		1250	1250	100	1250	1250	100	0	75-122/12
100-41-4	Ethylbenzene	2900		1250	3900	80	1250	3820	74	2	37-144/12
76-13-1	Freon 113	ND		1250	1210	97	1250	1240	99	2	61-142/14
591-78-6	2-Hexanone	ND		5000	4870	97	5000	4430	89	9	56-132/16
98-82-8	Isopropylbenzene	144		1250	1350	96	1250	1360	97	1	71-126/13
79-20-9	Methyl Acetate	ND		1250	1200	96	1250	1200	96	0	51-139/18
108-87-2	Methylcyclohexane	ND		1250	1140	91	1250	1180	94	3	59-137/16
1634-04-4	Methyl Tert Butyl Ether	ND		1250	1170	94	1250	1200	96	3	66-124/12

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD74719
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
JD74701-14MS	2T5029.D	25	10/16/23	LD	n/a	n/a	V2T149
JD74701-14MSD	2T5031.D	25	10/16/23	LD	n/a	n/a	V2T149
JD74701-14	2T5027.D	25	10/16/23	LD	n/a	n/a	V2T149

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD74719-3

CAS No.	Compound	JD74701-14 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		5000	5290	106	5000	5030	101	5	65-135/14
75-09-2	Methylene chloride	ND		1250	1080	86	1250	1120	90	4	66-125/14
100-42-5	Styrene	ND		1250	1270	102	1250	1250	100	2	71-133/12
79-34-5	1,1,2,2-Tetrachloroethane	ND		1250	1360	109	1250	1310	105	4	68-127/14
127-18-4	Tetrachloroethene	ND		1250	1160	93	1250	1130	90	3	58-132/13
108-88-3	Toluene	83.0		1250	1260	94	1250	1260	94	0	46-139/12
87-61-6	1,2,3-Trichlorobenzene	ND		1250	1010	81	1250	1010	81	0	57-136/17
120-82-1	1,2,4-Trichlorobenzene	ND		1250	982	79	1250	1000	80	2	61-137/16
71-55-6	1,1,1-Trichloroethane	ND		1250	1180	94	1250	1230	98	4	67-132/13
79-00-5	1,1,2-Trichloroethane	ND		1250	1210	97	1250	1210	97	0	75-120/12
79-01-6	Trichloroethene	ND		1250	1060	85	1250	1070	86	1	56-136/12
75-69-4	Trichlorofluoromethane	ND		1250	1180	94	1250	1240	99	5	61-145/16
75-01-4	Vinyl chloride	ND		1250	963	77	1250	978	78	2	41-156/16
	m,p-Xylene	2440		2500	4730	92	2500	4670	89	1	32-151/12
95-47-6	o-Xylene	1150		1250	2260	89	1250	2260	89	0	50-139/12
1330-20-7	Xylene (total)	3590		3750	6990	91	3750	6930	89	1	38-147/12

CAS No.	Surrogate Recoveries	MS	MSD	JD74701-14	Limits
1868-53-7	Dibromofluoromethane	97%	101%	100%	80-120%
17060-07-0	1,2-Dichloroethane-D4	100%	104%	101%	80-120%
2037-26-5	Toluene-D8	104%	104%	107%	80-120%
460-00-4	4-Bromofluorobenzene	108%	108%	103%	82-114%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD74719
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
JD74697-4DUP	Y204216.D	1	10/14/23	PS	n/a	n/a	VY8885
JD74697-4	Y204211.D	1	10/14/23	PS	n/a	n/a	VY8885

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD74719-1

CAS No.	Compound	JD74697-4 ug/kg	Q	DUP ug/kg	Q	RPD	Limits
67-64-1	Acetone	ND		ND		nc	50
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: JD74719
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
JD74697-4DUP	Y204216.D	1	10/14/23	PS	n/a	n/a	VY8885
JD74697-4	Y204211.D	1	10/14/23	PS	n/a	n/a	VY8885

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD74719-1

CAS No.	Compound	JD74697-4 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	JD74697-4	Limits
1868-53-7	Dibromofluoromethane	98%	99%	80-124%
17060-07-0	1,2-Dichloroethane-D4	98%	98%	75-133%
2037-26-5	Toluene-D8	98%	98%	79-125%
460-00-4	4-Bromofluorobenzene	97%	97%	58-148%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JD74719
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: V2T117-BFB
Lab File ID: 2T3498.D
Instrument ID: GCMS2T
Injection Date: 09/11/23
Injection Time: 15:57

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	47843	19.8		Pass
75	30.0 - 60.0% of mass 95	127205	52.5		Pass
95	Base peak, 100% relative abundance	242197	100.0		Pass
96	5.0 - 9.0% of mass 95	16078	6.64		Pass
173	Less than 2.0% of mass 174	1562	0.64	(0.83) [a]	Pass
174	50.0 - 120.0% of mass 95	187821	77.5		Pass
175	5.0 - 9.0% of mass 174	14030	5.79	(7.47) [a]	Pass
176	95.0 - 101.0% of mass 174	181683	75.0	(96.7) [a]	Pass
177	5.0 - 9.0% of mass 176	12106	5.00	(6.66) [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
V2T117-IC117	2T3500.D	09/11/23	17:05	01:08	Initial cal 0.2
V2T117-IC117	2T3502.D	09/11/23	17:33	01:36	Initial cal 0.5
V2T117-IC117	2T3504.D	09/11/23	18:01	02:04	Initial cal 1
V2T117-IC117	2T3506.D	09/11/23	18:28	02:31	Initial cal 2
V2T117-IC117	2T3508.D	09/11/23	18:56	02:59	Initial cal 4
V2T117-IC117	2T3510.D	09/11/23	19:24	03:27	Initial cal 8
V2T117-IC117	2T3512.D	09/11/23	19:51	03:54	Initial cal 20
V2T117-ICC117	2T3514.D	09/11/23	20:19	04:22	Initial cal 50
V2T117-IC117	2T3516.D	09/11/23	20:47	04:50	Initial cal 100
V2T117-IC117	2T3518.D	09/11/23	21:14	05:17	Initial cal 200
V2T117-ICV117	2T3524.D	09/11/23	22:37	06:40	Initial cal verification 50
V2T117-ICV117	2T3526.D	09/11/23	23:05	07:08	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JD74719
Account: HWINJOMM Honeywell International Inc. OMM work
Project: HLAME: 30130-Alltift Landfill, 579 Tifft Street, Buffalo, NY

Sample: VY8857-BFB
Lab File ID: Y203303.D
Instrument ID: GCMSY
Injection Date: 09/13/23
Injection Time: 13:59

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	27835	19.1		Pass
75	30.0 - 60.0% of mass 95	70579	48.5		Pass
95	Base peak, 100% relative abundance	145421	100.0		Pass
96	5.0 - 9.0% of mass 95	9521	6.55		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	135584	93.2		Pass
175	5.0 - 9.0% of mass 174	10235	7.04	(7.55) [a]	Pass
176	95.0 - 101.0% of mass 174	134792	92.7	(99.4) [a]	Pass
177	5.0 - 9.0% of mass 176	8790	6.04	(6.52) [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
VY8857-IC8857	Y203304.D	09/13/23	14:28	00:29	Initial cal 0.2
VY8857-IC8857	Y203305.D	09/13/23	14:49	00:50	Initial cal 0.5
VY8857-IC8857	Y203306.D	09/13/23	15:11	01:12	Initial cal 1
VY8857-IC8857	Y203307.D	09/13/23	15:33	01:34	Initial cal 2
VY8857-IC8857	Y203308.D	09/13/23	15:55	01:56	Initial cal 4
VY8857-IC8857	Y203309.D	09/13/23	16:17	02:18	Initial cal 8
VY8857-IC8857	Y203310.D	09/13/23	16:39	02:40	Initial cal 20
VY8857-ICC8857	Y203311.D	09/13/23	17:01	03:02	Initial cal 50
VY8857-IC8857	Y203312.D	09/13/23	17:23	03:24	Initial cal 100
VY8857-IC8857	Y203313.D	09/13/23	17:44	03:45	Initial cal 200
VY8857-ICV8857	Y203316.D	09/13/23	18:50	04:51	Initial cal verification 50
VY8857-ICV8857	Y203317.D	09/13/23	19:12	05:13	Initial cal verification 50
VY8858-CC8857	Y203322.D	09/14/23	12:20	22:21	Continuing cal 50
VY8858-BS	Y203323.D	09/14/23	13:03	23:04	Blank Spike
VY8858-MB	Y203325.D	09/14/23	13:47	23:48	Method Blank
JD72648-5	Y203326.D	09/14/23	14:15	24:16	(used for QC only; not part of job JD74719)
ZZZZZZ	Y203327.D	09/14/23	14:37	24:38	(unrelated sample)
ZZZZZZ	Y203328.D	09/14/23	14:59	25:00	(unrelated sample)

Surrogate Recovery Summary

Job Number: JD74719
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
JD74719-3	2T5019.D	107	98	108	102
JD74701-14MS	2T5029.D	97	100	104	108
JD74701-14MSD	2T5031.D	101	104	104	108
V2T149-BS	2T5015.D	106	103	104	103
V2T149-MB	2T5017.D	109	102	107	101

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%

Surrogate Recovery Summary

Job Number: JD74719
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
JD74719-1	Y204213.D	103	107	97	99
JD74697-2MS	Y204214.D	95	87	98	96
JD74697-4DUP	Y204216.D	98	98	98	97
VY8885-BS	Y204207.D	98	88	98	97
VY8885-MB	Y204209.D	96	93	97	97

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%

From:	Monnin, Taylor J (DEC)
To:	Fay, Michael
Cc:	Formoza, John; Belcher, Ryan; Hendry, Benjamin
Subject:	RE: Alltift soil import documentation
Date:	Tuesday, October 17, 2023 2:20:37 PM
Attachments:	image001.png image002.png image003.png image004.png

Thank you Mike. The Department has reviewed the updated import request for 50-100 CY of soil. The Department hereby approves the import request.

Please let me know if you have any questions.

Thanks,
Taylor

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: Fay, Michael <Michael.Fay@jacobs.com>
Sent: Tuesday, October 17, 2023 11:56 AM
To: Monnin, Taylor J (DEC) <Taylor.Monnin@dec.ny.gov>
Cc: Formoza, John <John.Formoza@jacobs.com>; Belcher, Ryan <ryan.belcher@wsp.com>; Hendry, Benjamin <Benjamin.Hendry@jacobs.com>
Subject: RE: Alltift soil import documentation

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Taylor,

Please review attached revised package including second VOC result. All VOCs were ND.

Please confirm we have Department's approval to proceed. We are hoping to schedule soil delivery for early next week if possible.

Thank you,
Mike

Michael Fay | Jacobs | Project Manager
M:+1.315.436.0213 | michael.fay@jacobs.com
1563 Willis Ave. | Syracuse, New York 13204 | USA

From: Monnin, Taylor J (DEC) <Taylor.Monnin@dec.ny.gov>
Sent: Friday, October 6, 2023 2:04 PM
To: Fay, Michael <Michael.Fay@jacobs.com>
Cc: Formoza, John <John.Formoza@jacobs.com>; Belcher, Ryan <ryan.belcher@wsp.com>; Hendry, Benjamin <Benjamin.Hendry@jacobs.com>
Subject: [EXTERNAL] RE: Alltift soil import documentation

Hi Mike,

Thank you for providing that information and background on the other source samples on the lab report. Since only one discrete VOC sample was taken for the imported material, we will need an additional discrete VOC sample to meet the DER-10 requirements (2 discrete VOCs and 1 composite) to import 50-100 CY of this material.

Please let me know if you have any questions.

Thanks,
Taylor

Taylor J. Monnin
she/her/hers
Assistant Engineer (Environmental), Division of Environmental Remediation

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www.dec.ny.gov |



From: Monnin, Taylor J (DEC)
Sent: Friday, October 6, 2023 1:35 PM
To: Fay, Michael <Michael.Fay@jacobs.com>
Subject: RE: Alltift soil import documentation

Thank you!

Taylor J. Monnin
she/her/hers
Assistant Engineer (Environmental), Division of Environmental Remediation

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www.dec.ny.gov | | |

From: Fay, Michael <Michael.Fay@jacobs.com>
Sent: Friday, October 6, 2023 1:33 PM
To: Monnin, Taylor J (DEC) <Taylor.Monnin@dec.ny.gov>
Subject: RE: Alltift soil import documentation

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Hi Taylor,

Please see attached.

Thank you,
Mike

Michael Fay | Jacobs | Project Manager
M:+1.315.436.0213 | michael.fay@jacobs.com
1563 Willis Ave. | Syracuse, New York 13204 | USA

From: Monnin, Taylor J (DEC) <Taylor.Monnin@dec.ny.gov>
Sent: Friday, October 6, 2023 9:12 AM
To: Fay, Michael <Michael.Fay@jacobs.com>
Subject: [EXTERNAL] RE: Alltift soil import documentation

Hi Mike,

Thank you for our call yesterday. Would you be able to send me the sampling document you mentioned over the phone then I'll talk to my supervisor?

Thank you,
Taylor

Taylor J. Monnin
she/her/hers
Assistant Engineer (Environmental), Division of Environmental Remediation

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www.dec.ny.gov | | |

NEW YORK STATE | Department of Environmental Conservation

From: Fay, Michael <Michael.Fay@jacobs.com>
Sent: Thursday, October 5, 2023 2:08 PM
To: Monnin, Taylor J (DEC) <Taylor.Monnin@dec.ny.gov>
Cc: Formoza, John <John.Formoza@jacobs.com>; Belcher, Ryan T. <ryan.belcher@wsp.com>; Hendry, Benjamin <Benjamin.Hendry@jacobs.com>
Subject: RE: Alltift soil import documentation

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Taylor,

Apologies for the confusion. Section 3 clarified below and in the attached:

"One representative composite sample was containerized in one (1) non-preserved 8oz wide-mouth amber jar for SVOCs, inorganics, and pesticides/PCB analyses. One representative composite sample was containerized in one (1) non-preserved 4oz wide-mouth amber jar for PFAS analysis. Discreet samples were collected and containerized in two (2) 10mL DI-preserved 40mL VOAs and one (1) 10mL methanol-preserved 40mL VOA for VOCs analysis.."

Mike

Michael Fay | Jacobs | Project Manager
M:+1.315.436.0213 | michael.fay@jacobs.com
1563 Willis Ave. | Syracuse, New York 13204 | USA

From: Monnin, Taylor J (DEC) <Taylor.Monnin@dec.ny.gov>
Sent: Thursday, October 5, 2023 1:37 PM
To: Fay, Michael <Michael.Fay@jacobs.com>
Cc: Formoza, John <John.Formoza@jacobs.com>; Belcher, Ryan T. <ryan.belcher@wsp.com>; Hendry, Benjamin <Benjamin.Hendry@jacobs.com>
Subject: [EXTERNAL] RE: Alltift soil import documentation

Hi Mike,

Would you be able to provide more clarification on how the samples were taken? I took a look at the lab report (chain of custody) and it appears none of the samples were composite samples, however, Section 3 of the request says they are. According to DER-10, Table 5.4(e)10, 2 discrete VOC samples and 1 composite sample (SVOCs, inorganics & PCBs/Pesticides) are required to import 50-100 CY of material.

Thank you,
Taylor

Taylor J. Monnin
she/her/hers
Assistant Engineer (Environmental), Division of Environmental Remediation

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www.dec.ny.gov | | |

NEW YORK STATE | Department of Environmental Conservation

From: Fay, Michael <Michael.Fay@jacobs.com>
Sent: Thursday, October 5, 2023 1:12 PM
To: Monnin, Taylor J (DEC) <Taylor.Monnin@dec.ny.gov>
Cc: Formoza, John <John.Formoza@jacobs.com>; Belcher, Ryan T. <ryan.belcher@wsp.com>; Hendry, Benjamin <Benjamin.Hendry@jacobs.com>
Subject: RE: Alltift soil import documentation

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Hi Taylor,

Please see comments below and updated package attached.

1. We collected samples from 3 sources. Based on chromium results at 2 of the sources, those sources were disqualified. For this reason, the results for the 2 disqualified sources were excluded from the analytical table. We are seeking the Department's approval to import soil only associated with the ALLTIFT-080123-WES sample results from source location "Woodland Earth and Stone" (see form Section 4).

2. Limits and guidance values updated in the table as requested.

3. Compiled PDF attached as requested.

Thank you,
Mike

Michael Fay | Jacobs | Project Manager
M:+1.315.436.0213 | michael.fay@jacobs.com
1563 Willis Ave. | Syracuse, New York 13204 | USA

From: Monnin, Taylor J (DEC) <Taylor.Monnin@dec.ny.gov>
Sent: Thursday, October 5, 2023 11:24 AM
To: Fay, Michael <Michael.Fay@jacobs.com>
Cc: Formoza, John <John.Formoza@jacobs.com>; Belcher, Ryan T. <ryan.belcher@wsp.com>;

Hendry, Benjamin <Benjamin.Hendry@jacobs.com>
Subject: [EXTERNAL] RE: Alltift soil import documentation

Good Morning Mike,

I'm sorry for the delay. I have reviewed the import request you have sent over and have the following comments:

1. In the data summary table, it appears only one soil sample (ALLTIFT-080123-WES) was analyzed for the full suite analysis. However in the lab report, it appears that two other samples (ALLTIFT-080123-CTS and ALLTIFT-080123-SS) were also analyzed. Please include all sample results within the table in separate columns indicating which sample ID corresponds with the results.
2. The following have incorrect allowable constituent levels for imported fill and soil. Please revise accordingly:
    a. Benzo(a)pyrene is 1,000 ppb;
    b. Benzo(b)fluoranthene is 1,700 ppb;
    c. Benzo(g,h,i)perylene is 500,000 ppb;
    d. Benzo(k)fluoranthene is 1,700 ppb;
    e. Hexachlorobenzene is 3,200 ppb;
    f. Perfluorooctanoic acid (PFOA) guidance value for commercial use is 500 ppb. Perfluoropentanoic acid (PFPeA) does not have a guidance value for imported soil.
3. Please provide the documents (import request form, analytical results table, and lab report) all in one PDF. Please also resign/date the import request form.

Feel free to reach out with any questions.

Thank you,
Taylor

Taylor J. Monnin

she/her/hers
Assistant Engineer (Environmental), Division of Environmental Remediation

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www.dec.ny.gov | | | |

NEW YORK STATE | Department of Environmental Conservation

From: Fay, Michael <Michael.Fay@jacobs.com>
Sent: Thursday, October 5, 2023 9:49 AM
To: Monnin, Taylor J (DEC) <Taylor.Monnin@dec.ny.gov>
Cc: Formoza, John <John.Formoza@jacobs.com>; Belcher, Ryan T. <ryan.belcher@wsp.com>;

Hendry, Benjamin <Benjamin.Hendry@jacobs.com>
Subject: RE: Alltift soil import documentation

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Hi Taylor,

Writing to follow up regarding the results we sent over. Did you have an opportunity to review? If so, are we OK to proceed with soil import?

Thank you,
Mike

Michael Fay | Jacobs | Project Manager
M:+1.315.436.0213 | michael.fay@jacobs.com
1563 Willis Ave. | Syracuse, New York 13204 | USA

From: Monnin, Taylor J (DEC) <Taylor.Monnin@dec.ny.gov>
Sent: Wednesday, September 13, 2023 12:56 PM
To: Fay, Michael <Michael.Fay@jacobs.com>
Cc: Formoza, John <John.Formoza@jacobs.com>; Belcher, Ryan T. <ryan.belcher@wsp.com>; Hendry, Benjamin <Benjamin.Hendry@jacobs.com>
Subject: [EXTERNAL] RE: Alltift soil import documentation

Thank you Mike, I will review the import request and let you know if I have any questions/comments.

Unfortunately I am unable to make it out to the site this Friday. For the next field work event, please let me know 7-days in advance.

Thanks,
Taylor

Taylor J. Monnin
she/her/hers
Assistant Engineer (Environmental), Division of Environmental Remediation

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From: Fay, Michael <Michael.Fay@jacobs.com>
Sent: Wednesday, September 13, 2023 11:10 AM

To: Monnin, Taylor J (DEC) <Taylor.Monnin@dec.ny.gov>
Cc: Formoza, John <John.Formoza@jacobs.com>; Belcher, Ryan T. <ryan.belcher@wsp.com>; Hendry, Benjamin <Benjamin.Hendry@jacobs.com>
Subject: RE: Alltift soil import documentation

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Hi Taylor,

See attached "Request to Import/Reuse Fill or Soil" form, analytical report, and summary table for your review. Please let me know if you have any questions and whether we can proceed.

Additionally, Ben from the Jacobs team is planning to be on-site this Friday to complete well depths and regular inspection activities. If you are available, this would be a great opportunity to see the site. Weather forecast is 70F and sunny. Please let us know.

Here is Ben's contact info:
Ben Hendry
315-806-4029
Benjamin.Hendry@jacobs.com

Thanks,
Mike

Michael Fay | Jacobs | Environmental Engineer
M:+1.315.436.0213 | michael.fay@jacobs.com
1563 Willis Ave. | Syracuse, New York 13204 | USA

From: Monnin, Taylor J (DEC) <Taylor.Monnin@dec.ny.gov>
Sent: Tuesday, September 12, 2023 9:59 AM
To: Fay, Michael <Michael.Fay@jacobs.com>
Cc: Formoza, John <John.Formoza@jacobs.com>; Belcher, Ryan T. <ryan.belcher@wsp.com>
Subject: [EXTERNAL] RE: Alltift soil import documentation

No worries, sounds good Mike. Please keep me in the loop and resubmit the import request for the selected material with the analytical data.

Taylor J. Monnin
she/her/hers
Assistant Engineer (Environmental), Division of Environmental Remediation

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From: Fay, Michael <Michael.Fay@jacobs.com>
Sent: Tuesday, September 12, 2023 9:27 AM
To: Monnin, Taylor J (DEC) <Taylor.Monnin@dec.ny.gov>
Cc: Formoza, John <John.Formoza@jacobs.com>; Belcher, Ryan T. <ryan.belcher@wsp.com>
Subject: RE: Alltift soil import documentation

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HI Taylor,

Sorry for delay; I was on leave. The original source had a hit in excess of one of the compound limits under DER-10 Appendix 5. We collected samples from 3 other sources and will provide data from an appropriate option shortly for approval.

Thanks,
Mike

Michael Fay | Jacobs | Environmental Engineer
M:+1.315.436.0213 | michael.fay@jacobs.com
1563 Willis Ave. | Syracuse, New York 13204 | USA

From: Monnin, Taylor J (DEC) <Taylor.Monnin@dec.ny.gov>
Sent: Thursday, August 24, 2023 3:51 PM
To: Fay, Michael <Michael.Fay@jacobs.com>
Cc: Formoza, John <John.Formoza@jacobs.com>; Belcher, Ryan T. <ryan.belcher@wsp.com>
Subject: [EXTERNAL] RE: Alltift soil import documentation

Good Afternoon Mike,

I hope you are doing well, I am following up on the import request below.

Thank you,
Taylor

Taylor J. Monnin
she/her/hers
Assistant Engineer (Environmental), Division of Environmental Remediation

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www.dec.ny.gov | | |

NEW YORK STATE | Department of Environmental Conservation

From: Monnin, Taylor J (DEC)
Sent: Tuesday, June 6, 2023 11:40 AM
To: Fay, Michael <Michael.Fay@jacobs.com>
Cc: Formoza, John <John.Formoza@jacobs.com>; Belcher, Ryan T. <ryan.belcher@wsp.com>
Subject: RE: Alltift soil import documentation

Mike,

The Department has reviewed your import request for Alltift Landfill. The sampling data was compared to part 375, not DER-10 Appendix 5 as indicated on the Import Request form (Section 3). Please revise the analytical data table to correctly compare the data and submit to the Department.

Feel free to reach out with any questions.

Thank you,
Taylor

Taylor J. Monnin
she/her/hers
Assistant Engineer (Environmental), Division of Environmental Remediation

New York State Department of Environmental Conservation
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www.dec.ny.gov | | |

NEW YORK STATE | Department of Environmental Conservation

From: Fay, Michael <Michael.Fay@jacobs.com>
Sent: Monday, June 5, 2023 2:48 PM
To: Monnin, Taylor J (DEC) <Taylor.Monnin@dec.ny.gov>
Cc: Formoza, John <John.Formoza@jacobs.com>; Belcher, Ryan T. <ryan.belcher@wsp.com>
Subject: Alltift soil import documentation

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

Taylor,

Please review the attached soil import form, analytical, and summary table. Let me know if you require any additional information or clarification. We hope to have soil delivered in July '23 to complete cover repairs and reseeding.

Thank you,
Mike

Michael Fay | Jacobs | Environmental Engineer

M:+1.315.436.0213 | michael.fay@jacobs.com
1563 Willis Ave. | Syracuse, New York 13204 | USA

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