

October 25, 2022

Candace Sykora
Hydrogeologist
Wisconsin Department of Natural Resources
890 Spruce St
Baldwin, WI 54002

Re: 2022 Site Investigation Report and Remedial Action Plan
WM Waste, Inc.
21211 Durand Avenue, Union Grove, Racine County, WI 53182
BRRTS Activity # 02-52-586974
DNR FID # 252195350

Dear Ms. Sykora:

On behalf of WM Waste, Inc. (WM Waste), Cornerstone Environmental Group, LLC, a Tetra Tech Company (Tetra Tech) is submitting this Site Investigation Report and Remedial Action Plan (RAP) based on an investigation conducted at the Facility located in Union Grove, Wisconsin. The investigation was performed in accordance with an approved Site Investigation Work Plan (SIWP). The SIWP was submitted to the Wisconsin Department of Natural Resources (WDNR) on October 15, 2021 and approved by the WDNR in a Review of Site Investigation Work Plan Letter Dated March 9, 2022 (Attachment 1).

The purpose of the SIWP was to define the extent and magnitude of residual contamination remaining after a previous soil excavation was conducted associated with the release of mercury impacted carbon during change-out activities. On May 24, 2022, Tetra Tech collected soil samples from predetermined locations, private well samples, one surface water sample from the retention pond and one discharge water sample from the retention pond at the Facility.

In general, the following activities were performed during the 2022 Site Investigation. Soil and water samples were collected and analyzed for total mercury at a certified laboratory. The soil sample analytical results were compared to the 3.13-mg/kg standard residual contaminant limits (RCLs) for direct contact. Some soil sample locations exceeded the 3.13 mg/kg total mercury RCL and therefore required the collection of additional or step-out samples to further define the boundary of RCL exceeding soil. This action was performed in accordance with the approved SIWP. This Site Investigation Report has been prepared and Remedial Action Plan developed based upon the evaluation of the data collected during the field activities and is being submitted as required in the approved SIWP.

1.0 SITE INFORMATION

Site name: WM Waste, Inc. Facility

Address: 21211 Durand Avenue, Union Grove, Racine County, WI 53182

Parcel IDs: 006-03-20-36-029-000 and 006-03-20-36-031-021

Environmental Protection Agency ID #: WID000000356

Facility ID #: 252195350)

Site location: Northeast ¼ of the Northeast ¼ of section 36 of Township 3 North and Range 20 East, Racine County, Wisconsin

Responsible Party's name and address: WM Waste, Inc., 21211 Durand Avenue, Union Grove, Racine County, WI 53182

Consultant name and address: Tetra Tech, 8413 Excelsior Drive, Suite 160, Madison, WI, 53717

2.0 BACKGROUND INFORMATION

The Facility is located in a small industrial park. The facility and is bordered to the north by Durand Avenue followed by agricultural land. The remainder of the surrounding area consists of industrial properties to the south and residences to the east and west. The site location is shown on Figure 1.

The facility was historically used as a mercury recycling and licensed hazardous waste storage and treatment facility. Mercury recycling activities were conducted utilizing retort ovens. Emissions from the mercury retort ovens were directed to a granular activated carbon (GAC) system. The facility no longer operates the ovens nor processes mercury for recycling. Nonetheless, the GAC system remains operational at the facility. The GAC's carbon media is replaced approximately every five years.

Beginning in 2012, WM Waste has been required as a condition of its operating license to collect bi-annual surficial soil samples from grid locations and analyze them for total mercury using a certified laboratory. Once received, the soil sample results are recorded on a drawing and in tabular format and became part of the facility's operating record. If the 10 mg/kg threshold is met or exceeded in any of the bi-annual soil samples, WM Waste is required to notify in writing the WDNR's designated Hazardous Waste Inspector assigned to the facility.

On August 28, 2020, the bi-annual soil sampling event was conducted by Environmental Monitoring & Technologies, Inc. (EMT). EMT collected grab soil samples from the facility and submitted them to a certified laboratory for mercury analysis. The analytical results indicated seven of the 89 samples exceeded the site-specific standard of 10 mg/kg. The suspected source of the elevated concentrations in these seven samples was spillage of approximately one gallon of carbon media that occurred during the last GAC changeout event on September 26, 2018. WM Waste was not aware of the release prior to the 2020 sampling event. The changeout was reportedly performed by new employees, and although plastic tarping was used, carbon media was spilled on the ground surface near the carbon vessels on the west side of the facility while being transferred to totes.

Remedial action was taken to address the site-specific exceedances. Over-excavation of contaminated soil was conducted from December 10, 2020 through December 16, 2020. WM Waste personnel over-excavated soils to a depth of approximately 1-foot below ground surface (bgs) based on analytical results around the GAC spill and visual observations. The approximate extent of the excavation is shown on Figure 2. Post-excavation confirmation samples collected from the bottom of the excavation were analyzed at a laboratory

and the sample results were below the site-specific standard of 10 mg/kg as well as the direct contact RCL of 3.13 mg/kg.

WM Waste submitted a Request for No Further Action Letter dated February 15, 2021 that described the remedial action, pre-excavation and post-excavation results and a recommendation for no further action. The WDNR responded with a No Further Action Not Recommended Letter Dated July 14, 2021. The Letter stated a need to further define the degree and extent of contamination and a need to conduct further remedial action if any soil has total mercury concentrations above the RCL. WM Waste responded by submitting a Site Investigation Work Plan Dated October 15, 2021. The WDNR sent a Review of Site Investigation Work Plan Letter Dated March 9, 2022, which agreed with the proposed sampling from the SIWP. The WDNR Correspondence Letters are provided in Attachment 1.

Between the previous remedial action in December of 2020 and the implementation of the SIWP, routine sampling has continued at the site including annual sediment sample collection in the stormwater retention pond and biannual sitewide surficial samples. The annual sediment samples from the stormwater retention pond were collected by Tetra Tech on December 21, 2020 and November 22, 2021. Concentrations of total mercury were present in the pond sediment in both events. Sediment samples collected from the stormwater retention pond have had detections for total mercury since the pond sediment was first analyzed in 2012.

Bi-annual surficial soil sampling was completed by Tetra Tech between April 26, 2022 and April 29, 2022. These samples were collected from the soil just below the grass or gravel surface in an established grid pattern across the site. The sample concentrations of total mercury were below the site-specific limit of 10mg/kg and therefore the WDNR was not notified of the results. The samples in the vicinity of the GAC cleanout spill and excavation area from the bi-annual sampling were used to further characterize the extent of the soil contamination related the spill that remained following the original remedial action. Specifically, biannual sample locations E6, E6a, E7, E7a, F5a, F6, F6a, F7 and F7a, are located within the remediated area or between the GAC location and the paved road to the West. None of the samples from the locations had concentrations above the NR 720 RCL of 3.13 mg/kg for direct contact (RCL) as indicated in Table 1.

Following the biennial soil sampling in April 2022, the SIWP was implemented in two phases (1A and 1B) during May 2022 and July - August 2022, respectively. The activities associated with the SIWP are summarized and described below.

3.0 METHODS OF INVESTIGATION

During the May 2022 Phase 1A Investigation, soil samples were collected at six locations. Soil sample locations are approximately 12 feet beyond the boundary of the December 2020 excavation. Two samples were collected at each sample location, one below the grass or gravel surface and one at 12 inches of depth. In grass areas, sampling was conducted by using a shovel to remove the overburden and expose the soil just below the grass surface. In areas with gravel fill, a shovel was used to remove the gravel to expose native soil. A stainless-steel soil sampling probe or hand auger was also used to aid in sample collection as needed. If there was an obstruction in the sample location, such as pavement, woody vegetation, culverts, or surface water, the sample was taken at an offset to the nearest accessible location. After removal of the overburden, a

soil sample was collected by using clean latex gloves. New, clean latex gloves were used for each sample. Between samples, the equipment was decontaminated. After the decontamination process, once every six to eight samples, distilled water was poured over the sampling equipment and collected in a sample container and analyzed for total mercury to confirm the efficiency of the decontamination procedures. Each soil sample location was surveyed with a GPS unit. The May 2022 soil sample locations are shown on Figure 2.

Water samples were taken using new, clean latex gloves. Groundwater samples were collected at the two on-site private wells. Specifically, the samples were collected at spigots outside the buildings after water was discharged or purged for 30 minutes. The private water supply wells at the facility do not have water treatment systems. The surface water in the stormwater retention pond was sampled in two locations: one sample from within the pond and one sample from the pond discharge while it was flowing.

Immediately following collection of the samples, they were placed into appropriate sample containers provided by Pace Laboratories, Green Bay, WI (Pace). The samples were placed on ice in a cooler. The sample coolers were delivered to Pace for total mercury analysis. The decontamination wastewater and disposable sampling items such as nitrile gloves and paper towels were containerized in labeled 55-gallon drums and left at the site for proper disposal at a permitted facility.

4.0 SAMPLE RESULTS AND EVALUATION

4.1 SOIL SAMPLES

The results of the soil sample collection and analysis are summarized in the following text and provided tables and figures.

Initial (Phase 1A) Soil Samples

During the initial (Phase 1A) of the Investigation a total of 12 soil samples and two decontamination water samples were collected in accordance with the SIWP and analyzed in a laboratory for total mercury using United States Environmental Protection Agency (USEPA) Method 7471. The 12 samples were collected at six locations and depths described in Section 3 of this report. Figure 3 shows the sample locations and analytical results. The May 2022 analytical results are summarized on Table 2. Out of the six sample locations, laboratory results showed that the surficial soils at two locations (S4 and S5) had concentrations of total mercury above the RCL of 3.13 mg/kg. The remaining surficial soil samples were below the RCL or non-detect. Although the concentration of total mercury at S1 (3.0mg/kg) was below the RCL, it was determined that step out sampling was appropriate to provide additional confidence in the mercury concentration surrounding this area. None of the samples collected during May 2022 at a depth of one foot below the surface had total mercury detections above the RCL.

Based on the results of the Initial (Phase 1A) investigation, further definition of the extent of mercury impacted soil was necessary to develop an effective and comprehensive remedial action plan. As a result, a Step Out (Phase 1B) Sampling Plan was developed in accordance with the SIWP around the Initial (Phase 1A)

soil sample locations S1, S4 and S5. Figure 3 shows the step out sample locations. The rationale and plan for each of these three locations is summarized below.

Step Out (Phase 1B) Samples

The Step Out samples were collected on July 12, 2022. Due to the July 2022 results, a subsequent or confirmation sample was collected adjacent to the SP4N1 location on August 17, 2022. Step-Out soil sample locations are shown on Figure 3. Samples were collected near the surface and at a depth of one foot below the surface following the same sampling techniques as the initial samples. Additional step out samples were collected around Phase 1A sample locations S1, S4 and S5 because the total mercury concentration approached or exceeded the RCL. Each of the 34 total step out samples were collected between areas that samples exceeded the RCL and/or warranted further investigation and a known boundary delineation. Boundary delineations are further defined for each initial sample point below.

S1 Step-outs

Two step-out samples were collected in three directions from Phase 1A sample point S1 - to the North (SP1N1 and SP1N2), East (SP1E1 and SP1E2) and West (SP1W1 and SP1W2). In each direction the first step out was collected three feet away from S1, then the second sample was collected six feet away from S1. Samples were not collected to the South of S1 because that boundary was delineated by the results at S2 that are below the RCL as well as the previously remediated area. The first step out sample (SP1N1) to the North had a concentration at the surface above the RCL for total mercury, but the second sample (SP1N2) had a concentration below the RCL for total mercury so the delineation boundary for mercury contamination north of S1 was placed between SP1N1 and SP1N2 just south of SP1N2. Both step out samples (SP1E1 and SP1E2) to the east of S1 had total mercury concentration at the surface above the RCL so the delineation boundary to the east of S1 was extended to the edge of the building. The building foundation acts as a barrier to further spread of the surface level contamination. The first step out sample (SP1W1) to the West had a concentration at the surface below the RCL for total mercury, but the second sample (SP1W2) had a concentration above the RCL for total mercury. The delineation boundary for mercury contamination west of S1 was extended to the paved road, which is a higher elevation and impervious to precipitation. These two factors likely hindered the spread of the spilled granular carbon material. Results from the bi-annual samples show that the area to the west of the paved road has total mercury concentrations below the direct contact RCL. The original subsurface sample at S1 and the subsequent subsurface samples all collected at a depth of one foot below the surface had concentrations of total mercury below the RCL, so the vertical delineation boundary of the mercury contamination is to a depth of one foot below the ground surface in the area around S1.

S4 Step-outs

Step-out samples were collected in two directions from Phase 1A soil sample location S4 - to the North (SP4N1 and SP4N2) and West (SP4W1 and SP4W2). Two samples were collected at each sample point. To the North, the first step out sample (SP4N1) was collected approximately three feet North of S4 or one-third the distance between S4 and the access road North of S4. The second sample (SP4N2) was collected at approximately six feet or two-thirds the distance to the access road. The total mercury concentration at the surface in sample SP4N1 was below the RCL. Based on this finding, the road is being used to define the contamination

boundary. The road is at a higher elevation that likely hindered the spread of the spilled granular carbon material. Results from the bi-annual samples and other initial samples show that the area to the north of the road has total mercury concentrations below the direct contact RCL. SPN41B was the only sample out of all the samples taken in Phase 1B investigation to have a concentration higher than the total mercury RCL at the one foot below the surface depth. It was suspected the SP4N1B result might be a field or laboratory error, so the location was resampled again at both depths to confirm the July 2022 result at an offset of four inches from the initial sample location. The samples were labelled SP4N1R and SP4N1BSR. The August 2022 result confirmed the elevated July mercury result at the SP4N1BS (deep) location. Since the concentration of total mercury at SP4N1BS and SP4N1BR were over the RCL at a depth of one foot, the vertical boundary delineation has not been determined in this specific area and will be specifically addressed in the Remedial Action Plan Section of this Report.

Two step-out samples were collected to the West of S4. The first (SP41W) was approximately four feet west S4 and the second (SP4W2) was approximately eight feet west of S4. Sample locations to the West were chosen to set a boundary delineation to the west. Both samples SP4W1 and SP4W2 were over the RCL at the surface, but below the RCL at a depth of one foot. Since both surface samples were over the RCL, the delineation boundary was set at the edge of the paved road to the west of S4 because the paved road is a higher elevation and impervious to precipitation. These two factors likely hindered the spread of the spilled granular carbon material. Results from the bi-annual samples show that the area to the west of the paved road has total mercury concentrations below the direct contact RCL.

S5 Step-outs

Step-out samples were collected to the Northwest (SP5NW1 and SP5NW2), Southwest (SP5SW1 and SP5SW2) and Southeast (SP5SE1, SP5SE2 and SP5SE3). To the Northwest and southwest, the step-out samples were collected to delineate the contamination boundary to the west of S5. To the Northwest, the step-out samples SP5NW1 and SP5NW2 were collected at three and six feet away from S5, respectively. SP5NW1 had a total mercury concentration that exceeded the RCL at the surface and SP5NW2 had a total mercury concentration that was below the RCL. Based on these findings in the Northeast direction from S5 the contamination boundary was delineated just Southeast of sample SP5NW2. To the Southwest the step-out samples SP5SW1 and SP5SW2 were collected at four and eight feet away from S5. SP5SW1 and SP5SW2 had total mercury concentrations that were below the RCL. Based on these findings in the Southeast direction from S5, the contamination boundary was delineated just Northeast of sample SP5SW1. Sample S6 is located to the Southeast of S5 and had a concentration that was below the RCL for total mercury. To define the contamination boundary, the area between S5 and S6 was divided into three equally distanced step-out samples to delineate the boundary of contamination between them (SP5SE1, SP5SE2 and SP5SE3). SP5SE1, SP5SE2 and SP5SE3 all had concentrations of total mercury at the surface that exceeded the RCL. Based on these findings the contamination delineation boundary in the Southeast was placed directly North of S6. None of the step-out samples collected around S5 at a depth of one foot below the ground surface exhibited concentrations above the RCL. As a result, the contamination depth in the vicinity of S5 is delineated at one foot below the surface.

The surficial soil in the area as well as the unconsolidated deposits are made up of clay that extends to between 40 and 120 feet below the ground surface. The groundwater is at a depth of approximately 100 feet below the ground surface as noted in the surficial soils, geology and hydrology sections of the SIWP submitted to the WDNR on October 15, 2021. The thick clay deposit and depth to groundwater acts as a substantial barrier between the residual mercury contaminated soil and the groundwater. Groundwater contact is not anticipated as the results of the water supply well samples in the Section 4.2 of this report confirm.

The step out samples collected around S1, S4 and S5 were performed in accordance with the SIWP. The results of step-out sampling showed surficial concentrations above the 3.13 mg/kg limit in 12 of the 17 step-out locations. One step-out location had a concentration above the 3.13 mg/kg limit one foot below the surface depth. Figures 3 shows the step sample results as they relate to the delineation boundaries and the Table 3 shows the results in tabular form.

4.2 WATER SAMPLES

Water quality of the samples collected from the stormwater retention pond and the two water supply wells onsite were analyzed for total mercury using USEPA Method 7470. The sample locations are shown on Figure 3. The laboratory results are summarized in Table 2 and in the laboratory reports in Attachment 2. Samples were collected in accordance with the Sample and Analysis section of the SIWP on May 24, 2022. Total mercury was not detected in either of the two onsite water supply well samples (PW-1 and PW-2). The surface water in the stormwater pond and the stormwater pond discharge had detectable concentrations of total mercury. The sample collected in the pond had a concentration of 0.90 ug/L and the sample collected from the pond discharge had a concentration of 0.42ug/L. There is not an established standard to compare surface water concentrations. Once the Remedial Action Plan is implemented for the contaminated soil, it will no longer be a potential source of contamination for the surface water at the site and concentrations should decrease.

5.0 REMEDIAL ACTION PLAN

The proposed Remedial Action Plan (RAP) is based on analytical and field data collected from various investigations of the soil, surface water and groundwater, an understanding of the geology beneath and surrounding the facility, topographic conditions, and an assessment of the likely movement of the mercury impacted GAC near the spill area. The RAP proposes to excavate soil adjacent and surrounding portions of the previously performed soil excavation at the facility. The boundary of the expanded excavation area will be either set by a sample with a detection less than the RCL or by an impermeable surface such as a paved road or an area of greater elevation that would reasonably prevent mercury dispersion.

Soil samples used to designate the proposed excavation area were collected on May 24, 2022, July 12, 2022, and August 17, 2022. The proposed excavation will encompass two areas, one to the north around exceedances found at S1 and its associated step-out locations (Area A), and a second to the southwest of the previously remediated area in December 2020 surrounding S4 and S5 and their associated step-out samples (Area B). The remediation area will be excavated to a depth of one foot and encompass the boundaries

delineated by soil sample results, the previous remediated area and the manmade features such as roads and buildings as shown on Figure 4. At the location of SP4N1 and SP4N1R, a 5-foot diameter area will be excavated to a depth of one and a half feet to account for the mercury concentration over the RCL limit of 3.13 mg/kg at the 12 inches below ground surface.

The soil will be excavated with a backhoe or front-end bucket loader by site personnel. The soil will be loaded into roll-off containers for disposal. The excavation activities will be performed under the direction of a consultant. Given the limited depth of the excavation, six confirmation samples will be collected from the floor of the excavation following the completion of the excavation in Area A. The samples will be evenly spaced across the bottom of the excavation with four samples collected in the area located to the North and Northwest of the previously excavated area and two samples collected in the southern section of Area A to the west of the previously excavated area.

Seven confirmation samples will be collected from the base of the Area B excavation. Similar to Area A, the samples collected in Area B will be evenly spaced with five samples collected in the area to the West of the previously excavated area and two to the southwest of the previously excavated area. One confirmation sample will be collected within the five-foot radius around SP4N1 and SP4N1R that will be excavated to greater depth than the other excavation areas.

The confirmation samples will be shipped to a certified laboratory. The Area A and B excavations will stay open until confirmation sample results are received. The proposed excavation areas and confirmation sample locations are shown on Figure 4. If a confirmation sample exceeds the RCL, that area will be further excavated, and an additional confirmation sample or samples will be collected and analyzed until the concentration in the remaining soil is below the RCL. Excavation procedures will be considered complete once the soil sample results within the excavated or remediated areas are analyzed below the RCL. Upon completion of the remediation activities, the roll-off containers will be removed from site and disposed under proper chain-of-custody. The excavated areas will be backfilled with clean topsoil, general fill and/or gravel from a local supplier.

Once the on-site remediation activities are completed, a report will be prepared summarizing the remediation activities, confirmation sample results, soil disposal documentation and final dimensions of the excavated areas. The report will include a Request for No Further Action submitted to the WDNR.

WM plans to complete the soil excavation and backfilling activities during 2022 before the ground freezes. The remediation is anticipated to begin during October or early November 2022 and take less than two weeks to complete depending on confirmation sample results and laboratory turnaround times.

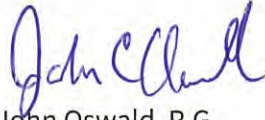
If you have any questions, concerns, or need further clarification, please contact Lee Daigle at (951) 236-2526 or lee.daigle@tetratech.com.

Sincerely,

Cornerstone Environmental Group, LLC – A Tetra Tech Company



Lee Daigle, P.E.
Client Manager



John Oswald, P.G.
Central Area Manager

Enclosures:

Tables:

Table 1 – Summary of April 2022 Analytical Soil Results

Table 2 – Summary of May 2022 Analytical Soil and Water Results

Table 3 – Summary of July and August 2022 Soil Analytical Results

Figures:

Figure 1 – Site Location Map

Figure 2 – Site Investigation Sample Locations

Figure 3 – Remedial Excavation Area Boundary

Figure 4 – Remedial Confirmation Sample Locations

Attachments:

Attachment 1 – WDNR Correspondence

Attachment 2 – Laboratory Reports

Cc: Sixto Ortiz – WM
Michelle Gale – WM
Mark Noel – WM Steven Smolko – WM
Todd Washburn – WM
David Crass – Michael Best & Friedrich, LLP



Table 1
Summary of April 2022 Sample Analytical Results
Bi-Annual Sampling
WM Waste, Inc.
Union Grove, Wisconsin

Client Project	Sample ID	Lab ID	Collected Date	Method	Matrix	Parameter	Results	Units	PQL
WM Waste, Inc.	E-6	40244305030	04/29/2022 08:50	EPA 7471	Solid	Mercury	0.18	mg/kg	0.034
WM Waste, Inc.	E-6A	40244305031	04/29/2022 10:15	EPA 7471	Solid	Mercury	0.26	mg/kg	0.035
WM Waste, Inc.	E-7	40244305032	04/29/2022 10:45	EPA 7471	Solid	Mercury	0.13	mg/kg	0.036
WM Waste, Inc.	E-7A	40244305033	04/29/2022 11:15	EPA 7471	Solid	Mercury	0.087	mg/kg	0.036
WM Waste, Inc.	F-5A	40244305044	04/27/2022 13:30	EPA 7471	Solid	Mercury	0.69	mg/kg	0.048
WM Waste, Inc.	F-6	40244305045	04/27/2022 13:40	EPA 7471	Solid	Mercury	0.70	mg/kg	0.041
WM Waste, Inc.	F-6A	40244305046	04/27/2022 13:50	EPA 7471	Solid	Mercury	0.26	mg/kg	0.041
WM Waste, Inc.	F-7	40244305047	04/27/2022 14:55	EPA 7471	Solid	Mercury	2.4	mg/kg	0.095
WM Waste, Inc.	F-7A	40244305048	04/27/2022 15:05	EPA 7471	Solid	Mercury	1.3	mg/kg	0.047

Notes:

- 1) Samples denoted with an "A" were taken at a depth of 12" below surface. Samples not denoted with an "A" were taken at the surface.
- 2) Tetra Tech collected 2022 soil sample results 4-26-2022 through 4-29-2022.

Prepared By: RME
Checked By: DJP



Table 2
Summary of May 2022 Sample Analytical Results
Phase 1A Investigation
WM Waste, Inc.
Union Grove, Wisconsin

Client Project	Sample ID	Lab ID	Collected Date	Method	Matrix	Parameter	Results	Units	PQL
WM Waste, Inc.	S6A	40245577006	05/24/2022 13:45	EPA 7471	Solid	Mercury	0.036 J	mg/kg	0.040
WM Waste, Inc.	S6	40245578006	05/24/2022 13:30	EPA 7471	Solid	Mercury	1.9	mg/kg	0.039
WM Waste, Inc.	S5A	40245577005	05/24/2022 13:20	EPA 7471	Solid	Mercury	0.89	mg/kg	0.040
WM Waste, Inc.	S5	40245578005	05/24/2022 13:10	EPA 7471	Solid	Mercury	185	mg/kg	22.2
WM Waste, Inc.	S4A	40245577004	05/24/2022 13:00	EPA 7471	Solid	Mercury	0.051	mg/kg	0.044
WM Waste, Inc.	S4	40245578004	05/24/2022 12:45	EPA 7471	Solid	Mercury	753	mg/kg	39.6
WM Waste, Inc.	S3A	40245577003	05/24/2022 12:00	EPA 7471	Solid	Mercury	0.49	mg/kg	0.039
WM Waste, Inc.	S3	40245578003	05/24/2022 11:50	EPA 7471	Solid	Mercury	0.66	mg/kg	0.041
WM Waste, Inc.	S2A	40245577002	05/24/2022 11:40	EPA 7471	Solid	Mercury	0.16	mg/kg	0.046
WM Waste, Inc.	S2	40245578002	05/24/2022 11:30	EPA 7471	Solid	Mercury	1.1	mg/kg	0.046
WM Waste, Inc.	S1A	40245577001	05/24/2022 11:15	EPA 7471	Solid	Mercury	0.53	mg/kg	0.039
WM Waste, Inc.	S1	40245578001	05/24/2022 11:00	EPA 7471	Solid	Mercury	3.0	mg/kg	0.081
WM Waste, Inc.	PW1	40245579003	05/24/2022 10:30	EPA 7470	Water	Mercury	<0.066	ug/L	0.20
WM Waste, Inc.	PW2	40245579004	05/24/2022 10:00	EPA 7470	Water	Mercury	<0.066	ug/L	0.20
WM Waste, Inc.	POND DISCHARGE	40245579002	05/24/2022 09:10	EPA 7470	Water	Mercury	0.42	ug/L	0.20
WM Waste, Inc.	POND SURFACE	40245579001	05/24/2022 09:00	EPA 7470	Water	Mercury	0.90	ug/L	0.20
WM Waste, Inc.	RINSE #1	40245579005	05/24/2022 12:15	EPA 7470	Water	Mercury	<0.066	ug/L	0.20
WM Waste, Inc.	RINSE #2	40245579006	05/24/2022 14:00	EPA 7470	Water	Mercury	<0.066	ug/L	0.20

Notes:

- 1) Samples denoted with an "A" were taken at a depth of 12" below surface. Samples not denoted with an "A" were taken at the surface.
- 2) The above Site Investigation Work Plan sample locations were approved by the WDNR on March 9, 2022 (Attachment 1).
- 3) Total Mercury concentration results designated with a "J" Qualifier are estimated concentrations greater than the limit of detection and less than the limit of quantitation

Prepared By: RME
 Checked By: DP



Table 3
Summary of July and August 2022 Sample Analytical Results
Phase 1B Investigation
WM Waste, Inc.
Union Grove, Wisconsin

Client Project	Sample ID	Lab ID	Collected Date	Method	Matrix	Parameter	Results	Units	PQL
WM Waste, Inc.	4N1B	40250049002	08/17/2022 11:30	EPA 7471	Solid	Mercury	11.9	mg/kg	0.37
WM Waste, Inc.	4N1	40250049001	08/17/2022 11:20	EPA 7471	Solid	Mercury	0.038 J	mg/kg	0.041
WM Waste, Inc.	SP5SE3BS	40248114034	07/12/2022 17:10	EPA 7471	Solid	Mercury	0.57	mg/kg	0.36
WM Waste, Inc.	SP5SE3S	40248114033	07/12/2022 17:05	EPA 7471	Solid	Mercury	3.4	mg/kg	0.40
WM Waste, Inc.	SP5SE2BS	40248114032	07/12/2022 16:50	EPA 7471	Solid	Mercury	0.87	mg/kg	0.39
WM Waste, Inc.	SP5SE2S	40248114031	07/12/2022 16:45	EPA 7471	Solid	Mercury	7.0	mg/kg	0.42
WM Waste, Inc.	SP5SE1BS	40248114030	07/12/2022 16:35	EPA 7471	Solid	Mercury	1.7	mg/kg	0.40
WM Waste, Inc.	SP5SE1S	40248114029	07/12/2022 16:30	EPA 7471	Solid	Mercury	5.2	mg/kg	0.39
WM Waste, Inc.	SP5SW2BS	40248114028	07/12/2022 16:15	EPA 7471	Solid	Mercury	0.42	mg/kg	0.035
WM Waste, Inc.	SP5SW2S	40248114027	07/12/2022 16:10	EPA 7471	Solid	Mercury	2.1	mg/kg	0.40
WM Waste, Inc.	SP5SW1BS	40248114026	07/12/2022 16:00	EPA 7471	Solid	Mercury	0.10	mg/kg	0.035
WM Waste, Inc.	SP5SW1S	40248114025	07/12/2022 15:55	EPA 7471	Solid	Mercury	0.60	mg/kg	0.36
WM Waste, Inc.	SP5NW2BS	40248114024	07/12/2022 15:35	EPA 7471	Solid	Mercury	0.054	mg/kg	0.036
WM Waste, Inc.	SP5NW2S	40248114023	07/12/2022 15:30	EPA 7471	Solid	Mercury	1.7	mg/kg	0.40
WM Waste, Inc.	SP5NW1BS	40248114022	07/12/2022 15:10	EPA 7471	Solid	Mercury	0.34	mg/kg	0.038
WM Waste, Inc.	SP5NW1S	40248114021	07/12/2022 15:05	EPA 7471	Solid	Mercury	7.5	mg/kg	0.37
WM Waste, Inc.	SP4W2BS	40248114020	07/12/2022 14:45	EPA 7471	Solid	Mercury	0.11	mg/kg	0.037
WM Waste, Inc.	SP4W2S	40248114019	07/12/2022 14:40	EPA 7471	Solid	Mercury	48.1	mg/kg	2.0
WM Waste, Inc.	SP4W1BS	40248114018	07/12/2022 14:20	EPA 7471	Solid	Mercury	0.46	mg/kg	0.037
WM Waste, Inc.	SP4W1S	40248114017	07/12/2022 14:15	EPA 7471	Solid	Mercury	114	mg/kg	3.6
WM Waste, Inc.	SP4N2BS	40248114016	07/12/2022 12:55	EPA 7471	Solid	Mercury	1.1	mg/kg	0.038
WM Waste, Inc.	SP4N2S	40248114015	07/12/2022 12:50	EPA 7471	Solid	Mercury	71.9	mg/kg	2.0
WM Waste, Inc.	SP4N1BS	40248114014	07/12/2022 12:35	EPA 7471	Solid	Mercury	69.1	mg/kg	1.8

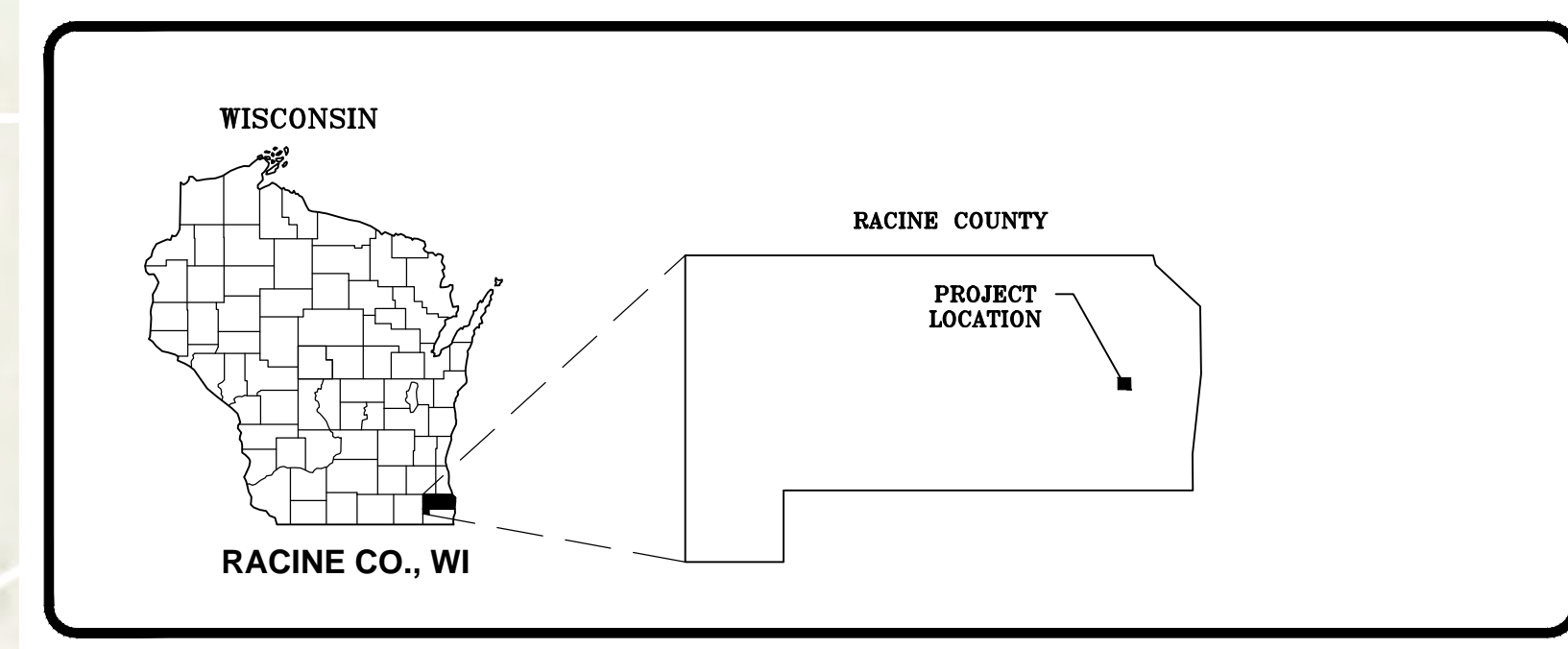


Table 3
Summary of July and August 2022 Sample Analytical Results
Phase 1B Investigation
WM Waste, Inc.
Union Grove, Wisconsin

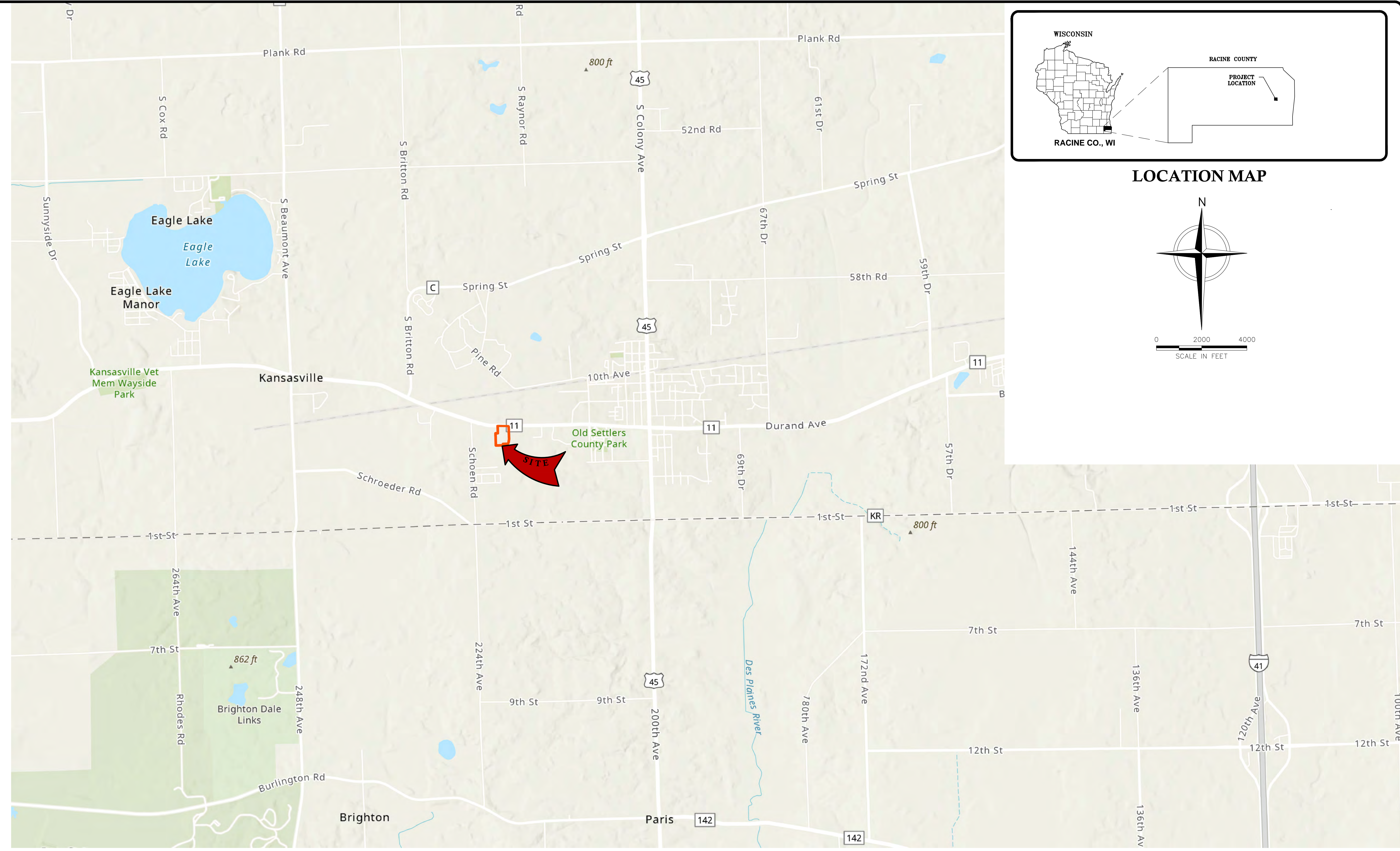
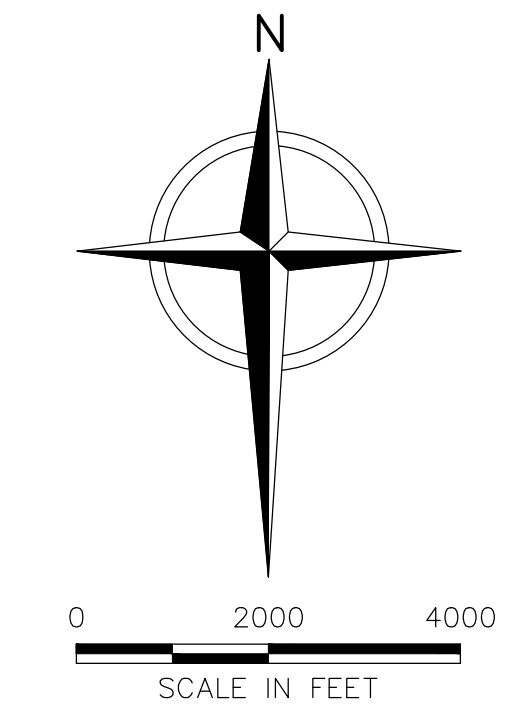
Client Project	Sample ID	Lab ID	Collected Date	Method	Matrix	Parameter	Results	Units	PQL
WM Waste, Inc.	SP4N1S	40248114013	07/12/2022 12:30	EPA 7471	Solid	Mercury	0.081	mg/kg	0.039
WM Waste, Inc.	SP1W2BS	40248114012	07/12/2022 12:10	EPA 7471	Solid	Mercury	0.71	mg/kg	0.040
WM Waste, Inc.	SP1W2S	40248114011	07/12/2022 12:05	EPA 7471	Solid	Mercury	3.7	mg/kg	0.080
WM Waste, Inc.	SP1W1BS	40248114010	07/12/2022 11:45	EPA 7471	Solid	Mercury	0.30	mg/kg	0.039
WM Waste, Inc.	SP1W1S	40248114009	07/12/2022 11:40	EPA 7471	Solid	Mercury	0.36	mg/kg	0.039
WM Waste, Inc.	SP1E2BS	40248114008	07/12/2022 11:25	EPA 7471	Solid	Mercury	2.7	mg/kg	0.079
WM Waste, Inc.	SP1E2S	40248114007	07/12/2022 11:20	EPA 7471	Solid	Mercury	6.3	mg/kg	0.20
WM Waste, Inc.	SP1E1BS	40248114006	07/12/2022 11:00	EPA 7471	Solid	Mercury	0.32	mg/kg	0.039
WM Waste, Inc.	SP1E1S	40248114005	07/12/2022 10:55	EPA 7471	Solid	Mercury	4.7	mg/kg	0.20
WM Waste, Inc.	SP1N2BS	40248114004	07/12/2022 10:45	EPA 7471	Solid	Mercury	0.27	mg/kg	0.041
WM Waste, Inc.	SP1N2S	40248114003	07/12/2022 10:40	EPA 7471	Solid	Mercury	2.2	mg/kg	0.075
WM Waste, Inc.	SP1N1BS	40248114002	07/12/2022 10:35	EPA 7471	Solid	Mercury	0.22	mg/kg	0.040
WM Waste, Inc.	SP1N1S	40248114001	07/12/2022 10:30	EPA 7471	Solid	Mercury	3.8	mg/kg	0.084
WM Waste, Inc.	RINSE #1	40248114035	07/12/2022 11:30	EPA 7470	Water	Mercury	<0.066	ug/L	0.20
WM Waste, Inc.	RINSE #2	40248114036	07/12/2022 13:00	EPA 7470	Water	Mercury	<0.066	ug/L	0.20
WM Waste, Inc.	RINSE #3	40248114037	07/12/2022 15:40	EPA 7470	Water	Mercury	<0.066	ug/L	0.20
WM Waste, Inc.	RINSE #4	40248114038	07/12/2022 17:20	EPA 7470	Water	Mercury	<0.066	ug/L	0.20

- Notes:
- 1) Samples denoted with a "BS" were taken at a depth of 12" below surface. Samples denoted with a "S" were taken at the surface. Samples denoted "4N1" and "4N1B" are resembled on the planview sheet as "SP4N1R".
 - 2) Total Mercury concentration results designated with a "J" qualifier are estimated concentrations greater than the limit of quantitation

Prepared By: RME
 Checked By: DP



LOCATION MAP

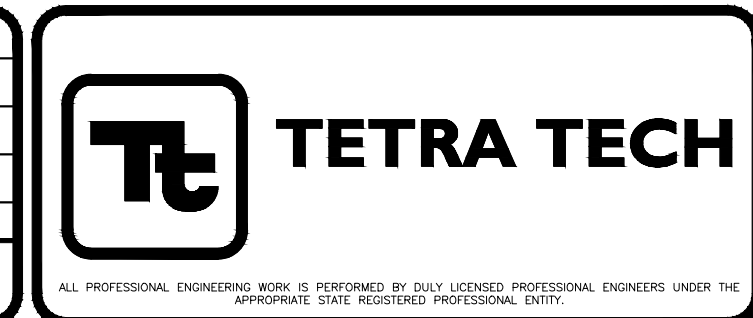


File: C:\Tetra\Projects\WM-MERCURY\4221563-WM-MERCURY-Site Location.mxd User: RILEY.LUND Oct 13, 2022 - 1:51pm
 1" = 1/2" 0" 1"

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REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY

DATE OF ISSUE: **OCT. 2022**
 DRAWN BY: **RME** DESIGNED BY: **RME**
 CHECKED BY: **LRS/CLD** APPROVED BY: **JCO**



WM WASTE, INC.
 UNION GROVE, WISCONSIN
**2022 SITE INVESTIGATION REPORT AND
 REMEDIAL ACTION PLAN
 SITE LOCATION MAP**

FIGURE NO.
1
 PROJECT NO.
 4221563

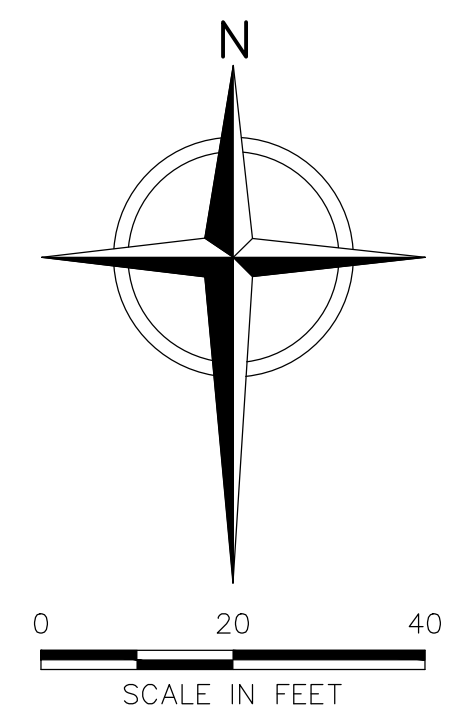
File: C:\Tetra\Projects\WM-MERCURY\221563 - HR 716 Field Investigation and Report\Plan Set\02-4221563-WM Mercury-Test Results-20scale-dwg Layout: 02 User: Riley.Emund Oct 14, 2022 - 10:09am
 1" = 10' 0" 1"



LEGEND

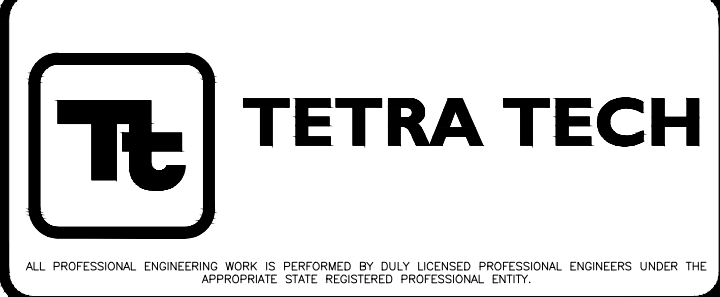
---	PROPERTY BOUNDARY
×	SOIL SAMPLE LOCATION AND IDENTIFICATION
×	PRIVATE WELL SAMPLE LOCATION AND IDENTIFICATION
(0.00) (TOP)	SOIL TOTAL MERCURY CONCENTRATION AT SURFACE - mg/kg
(0.00) (BOTTOM)	SOIL TOTAL MERCURY CONCENTRATION 12" BELOW SURFACE - mg/kg
(0.00) ug/L	WATER MERCURY CONCENTRATION
-1400-	EXISTING 10' CONTOUR
-1402-	EXISTING 2' CONTOUR
---	APPROX. EXTENT OF DECEMBER 2020 EXCAVATION

- NOTES:**
- TETRA TECH COLLECTED SOIL SAMPLES, SURFACE WATER SAMPLES, AND PRIVATE WELL SAMPLES ON 5/24/2022.
 - SAMPLE LOCATIONS WERE SURVEYED IN THE FIELD.
 - TOTAL MERCURY CONCENTRATION RESULTS WERE REPORTED BY PACE ANALYTICAL JUNE 6, 2022 AND JUNE 7, 2022.
 - TOTAL MERCURY CONCENTRATION RESULTS DESIGNATED WITH A "J" QUALIFIER ARE ESTIMATED CONCENTRATIONS GREATER THAN THE LIMIT OF DETECTION AND LESS THAN THE LIMIT OF QUANTIFICATION.
 - THE 2017 EXISTING SURFACE IS TAKEN FROM THE WI STATE CARTOGRAPHER'S OFFICE.



REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY

DATE OF ISSUE: OCT. 2022
 DRAWN BY: RME
 DESIGNED BY: RME
 CHECKED BY: LRS/CLD
 APPROVED BY: JCO

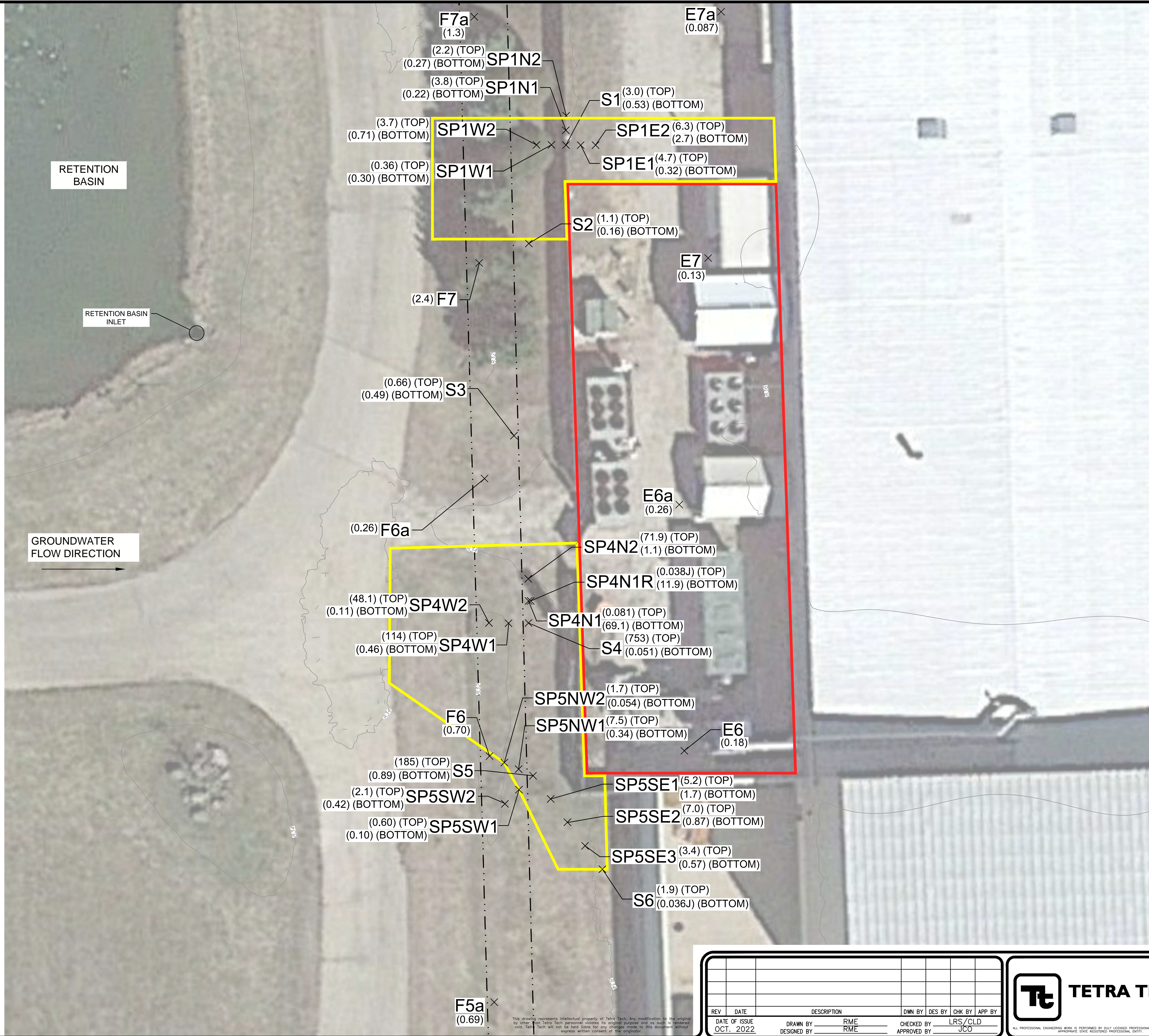


WM WASTE, INC.
 UNION GROVE, WISCONSIN
**2022 SITE INVESTIGATION REPORT AND
 REMEDIAL ACTION PLAN**
SITE INVESTIGATION SAMPLING LOCATIONS

FIGURE NO.
2
 PROJECT NO.
 4221563

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File: C:\Tetra\Projects\WM-MERCURY\221563 - HR 716 Field Investigation and Report\Plan Set\03-4221563-WM-MERCURY-Test Results-1\Scale-CON_ZONE-dwg Layout: 03-B User: Riley.Blund Oct 14, 2022 - 11:05am



LEGEND

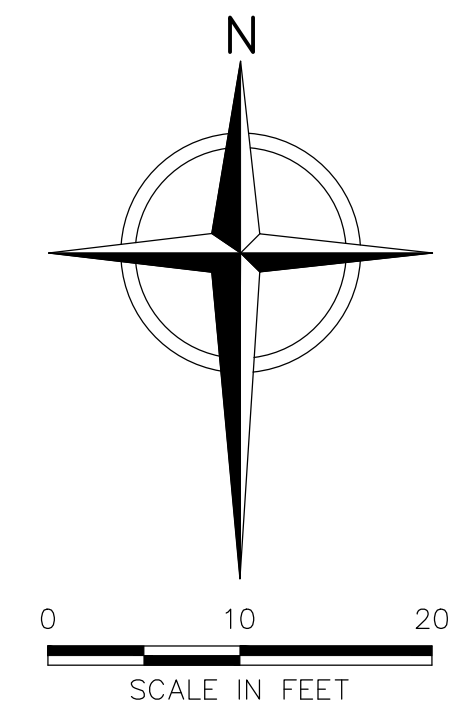
	PROPERTY BOUNDARY
	SOIL SAMPLE LOCATION AND IDENTIFICATION
	(0.00) (TOP) SOIL TOTAL MERCURY CONCENTRATION AT SURFACE - mg/kg
	(0.00) (BOTTOM) SOIL TOTAL MERCURY CONCENTRATION 12" BELOW SURFACE - mg/kg
	(0.00) SOIL MERCURY CONCENTRATION BELOW GRASS LAYER - mg/kg
	EXISTING 10' CONTOUR
	EXISTING 2' CONTOUR
	APPROX. EXTENT OF DECEMBER 2020 EXCAVATION
	PROPOSED 2022 EXCAVATION AREA BOUNDARY (1 FOOT DEPTH)

- NOTES: 2022 BI-ANNUAL:**
- TETRA TECH COLLECTED SOIL SAMPLES 4/26/2022 THROUGH 4/29/2022.
 - SAMPLE LOCATIONS WERE SURVEYED IN THE FIELD BASED ON HISTORICAL SAMPLE LOCATION MAP PROVIDED BY WASTE MANAGEMENT.
 - TOTAL MERCURY CONCENTRATION RESULTS WERE REPORTED BY PACE ANALYTICAL MAY 16, 2022.
 - TOTAL MERCURY CONCENTRATION RESULTS DESIGNATED WITH A "J" QUALIFIER ARE ESTIMATED CONCENTRATIONS GREATER THAN THE LIMIT OF DETECTION AND LESS THAN THE LIMIT OF QUANTITATION.
 - THE 2017 EXISTING SURFACE IS TAKEN FROM THE WI STATE CARTOGRAPHER'S OFFICE.

- NOTES: SP1-SP6**
- TETRA TECH COLLECTED SOIL SAMPLES, SURFACE WATER SAMPLES, AND PRIVATE WELL SAMPLES ON 5/24/2022.
 - SAMPLE LOCATIONS WERE SURVEYED IN THE FIELD.
 - TOTAL MERCURY CONCENTRATION RESULTS WERE REPORTED BY PACE ANALYTICAL JUNE 6, 2022 AND JUNE 7, 2022.
 - TOTAL MERCURY CONCENTRATION RESULTS DESIGNATED WITH A "J" QUALIFIER ARE ESTIMATED CONCENTRATIONS GREATER THAN THE LIMIT OF DETECTION AND LESS THAN THE LIMIT OF QUANTITATION.

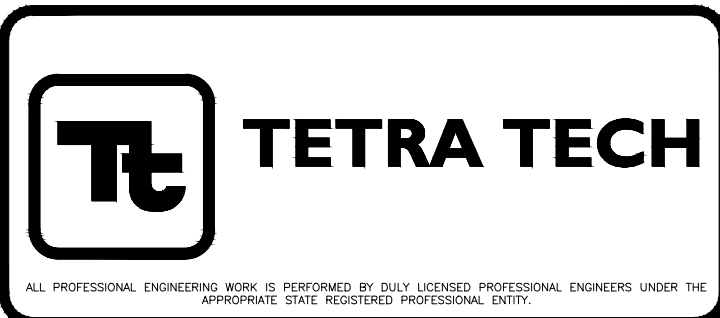
- NOTES: STEP OUT SAMPLING:**
- TETRA TECH COLLECTED SOIL SAMPLES ON 7/12/2022.
 - SAMPLE LOCATIONS WERE SURVEYED IN THE FIELD.
 - TOTAL MERCURY CONCENTRATION RESULTS WERE REPORTED BY PACE ANALYTICAL JULY 28, 2022.

- NOTES: SP4N1 RE-SAMPLE:**
- RE-SAMPLE LOCATION IS DENOTED AS SP4N1R LOCATED 4' TO THE EAST OF SP4N1.
 - TETRA TECH COLLECTED SOIL SAMPLE ON 8/17/2022.
 - SAMPLE LOCATION WAS SURVEYED IN THE FIELD.
 - TOTAL MERCURY CONCENTRATION RESULT WAS REPORTED BY PACE ANALYTICAL AUGUST 22, 2022.



REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY

DATE OF ISSUE: OCT. 2022
 DRAWN BY: RME
 DESIGNED BY: RME
 CHECKED BY: LRS/CLD
 APPROVED BY: JCO

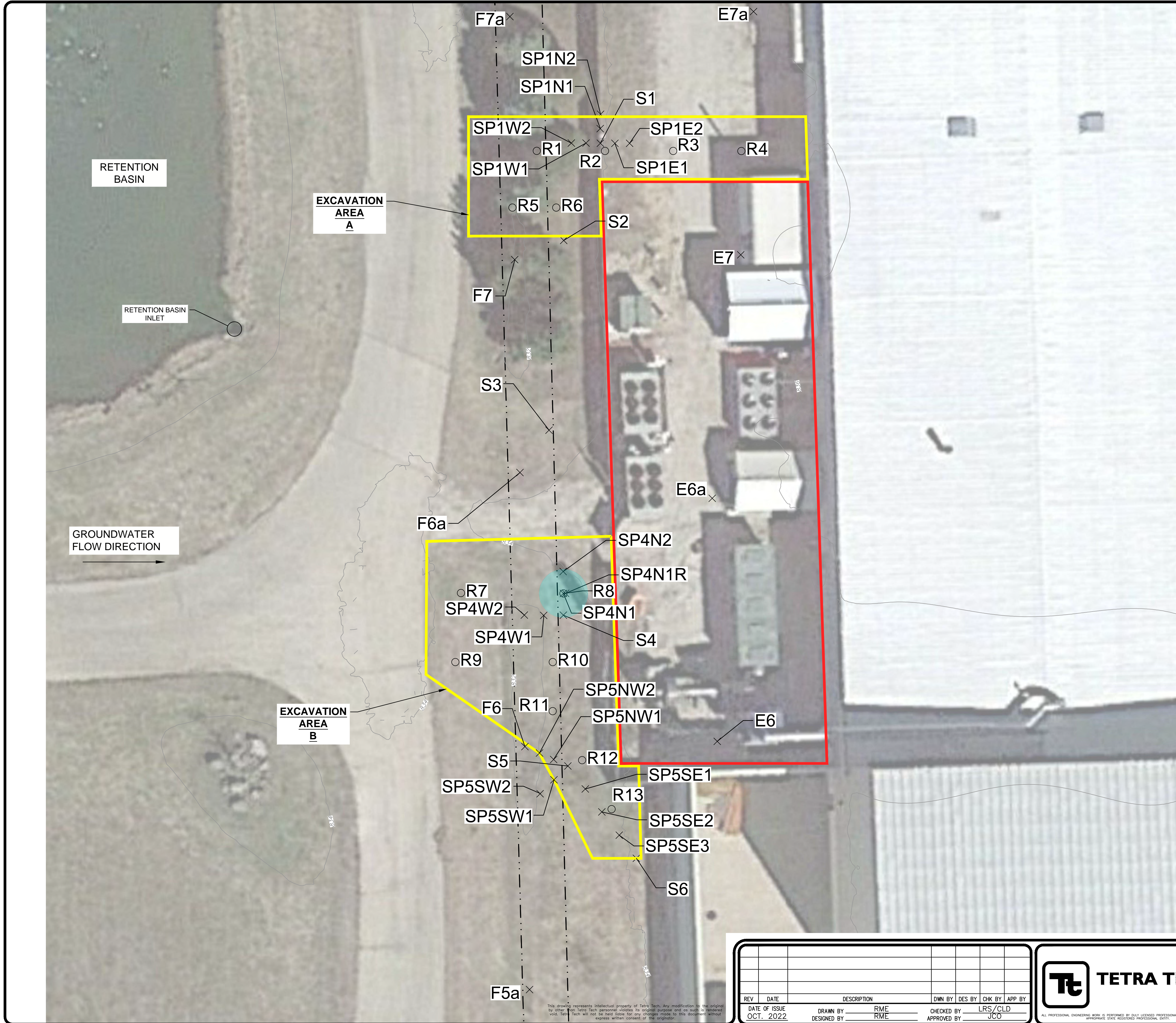


WM WASTE, INC.
 UNION GROVE, WISCONSIN
**2022 SITE INVESTIGATION REPORT AND
 REMEDIAL ACTION PLAN**
REMEDIAL EXCAVATION AREA BOUNDARY

FIGURE NO.
3
 PROJECT NO.
 4221563

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File: C:\Tetra\Projects\WM-MERCURY\221563 - HR 716 Field Investigation and Report\Plan_Sets\04-4221563-WM-MERCURY-REMEDIATION_SAMPLES.dwg Layout: 04-B1 User: Riley.Edlund Oct 14, 2022 - 11:12am
 1" = 1/2' 0" 1"

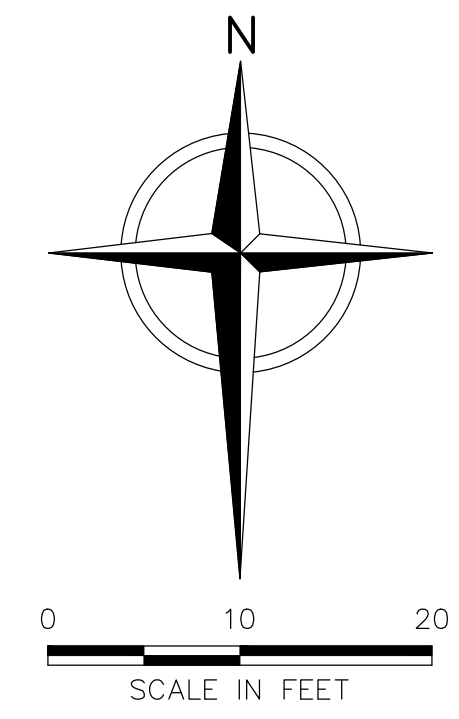


LEGEND

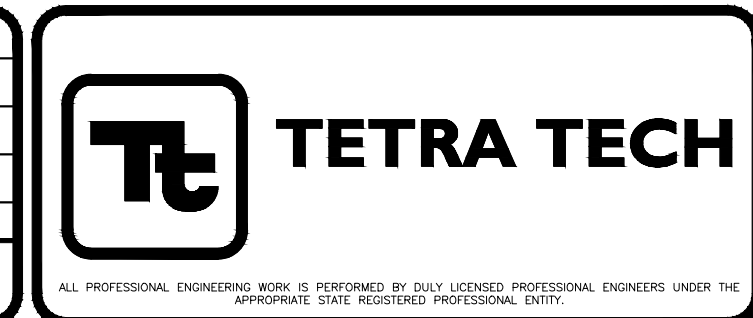
- PROPERTY BOUNDARY
- SOIL SAMPLE LOCATION AND IDENTIFICATION
- EXISTING 10' CONTOUR
- EXISTING 2' CONTOUR
- APPROX. EXTENT OF DECEMBER 2020 EXCAVATION
- PROPOSED 2022 EXCAVATION AREA BOUNDARY (1 FOOT OF DEPTH)
- PROPOSED 2022 5 FOOT RADIUS EXCAVATION AREA BOUNDARY (1.5 FOOT OF DEPTH)
- R14 CONFIRMATION SAMPLE LOCATION

NOTES: EXCAVATION AND REMEDIATION

1. TETRA TECH WILL SURVEY EXCAVATION BOUNDARIES AND CONFIRMATION SAMPLE LOCATIONS FOLLOWING EXCAVATION.
2. THE PROPOSED EXCAVATION AREAS (AREA A AND AREA B) WILL BE EXCAVATED TO A DEPTH OF ONE FOOT BELOW THE GROUND SURFACE. THE FIVE FOOT RADIUS AROUND SP4N1 & SP4N1R WILL BE EXCAVATED TO A DEPTH OF 1.5 FEET BELOW THE GROUND SURFACE.
3. THE 2017 EXISTING SURFACE IS TAKEN FROM THE WI STATE CARTOGRAPHER'S OFFICE.



REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
DATE OF ISSUE	OCT. 2022					
DRAWN BY	RME	CHECKED BY	LRS/CLD			
DESIGNED BY	RME	APPROVED BY	JCO			



WM WASTE, INC.
 UNION GROVE, WISCONSIN
**2022 SITE INVESTIGATION REPORT AND
 REMEDIATION ACTION PLAN**
REMEDIATION CONFIRMATION SAMPLE LOCATIONS

FIGURE NO.
4
 PROJECT NO.
 4221563

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ATTACHMENT 1 – WDNR CORRESPONDENCE



July 14, 2021

Sixto Ortiz
WM Waste, Inc.
800 Capitol Street
28th floor
Houston, TX 77002

Subject: No Further Action Not Recommended
WM Waste, Inc Facility, 21211 Durand Avenue, Union Grove, Racine County, Wisconsin
DNR BRRTS Activity # 02-52-586974
FID #: 252195350

Dear Mr. Ortiz:

On June 3rd, the Wisconsin Department of Natural Resources (DNR) reviewed the No Further Action request for the case identified above. As you are aware, the DNR reviews environmental remediation cases for compliance with applicable laws, including Wis. Stat. ch. 292 and Wis. Admin. Code chs. NR 700 – 754 and whether any further threat to public health, safety or welfare or the environment exists at the site or facility, per Wis. Admin. Code § NR 726.13 (2) (b). As discussed with your consultant on 6/15/21, case closure is not recommended because additional legal requirements must be met. The purpose of this letter is to inform you of the remaining requirements for obtaining closure.

Need to Define the Degree and Extent of Contamination

Additional soil, groundwater, surface water, sediment, sampling is needed to define the degree and extent of contamination per Wis. Admin. Code § NR 716.11. Based on the identified soil impacts additional investigation is needed to establish the extent and magnitude of the release to the environment. This includes but is not limited to the soil previously identified as having impacts but also, the adjacent pond and pertaining sediments, and on-site groundwater.

Need to Conduct Additional Remedial Action

Additional remedial action is needed to comply with the closure criteria of Wis. Admin. Code ch. NR 726. Excavations of impacted soils were completed using the hazardous waste site-specific standard of 10ppb. The site-specific standard for mercury is a permitted number but not a standard used nor allowed for a release to the environment. Remedial actions addressing impacts to the environment are required to meet residual contaminant limits (RCLs). The direct contact RCL for mercury is 3.13 mg/kg and the groundwater (leachability to groundwater) RCL is 0.208 mg/kg.

Schedule

Within 60 days of the date of this letter, respond in writing with a schedule of your plans to meet these requirements.

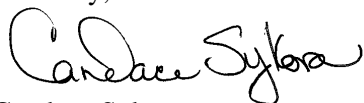
Until requirements are met, your site will remain “open” and you are required to submit semi-annual progress reports, per Wis. Admin. Code § NR 700.11. You are also responsible for any operation and maintenance activities required under Wis. Admin. Code § NR 724.13. Once the additional work has been completed, documentation should be submitted to the DNR to demonstrate that the applicable requirements have been met.

Conclusion

If you have any questions regarding the information in this letter or would like to schedule a meeting to discuss this case, please contact the DNR project manager, Candace Sykora at 715-928-0452. For more information on the closure reconsideration process, please see DNR publication, RR-102, "Wis. Admin. Code ch. NR 726 Case Closure Reconsideration Process" by visiting dnr.wi.gov, search: RR-102, for more information.

The DNR appreciates your efforts to restore the environment at this site.

Sincerely,



Candace Sykora
Hydrogeologist
Remediation & Redevelopment
Wisconsin Department of Natural Resources
890 Spruce St, Baldwin, WI 54002
Phone: 715-928-0452
Candace.sykora@wisconsin.gov

cc: Lee Daigle, Tetra Tech



March 9, 2022

Sixto Ortiz
WM Waste, Inc.
800 Capitol Street
28th Floor
Houston, TX 77002

Re: Review of Site Investigation Work Plan
WM Waste, Inc Facility,
21211 Durand Avenue, Union Grove, Racine County, WI 53182
DNR BRRTS Activity #02-52-586974
FID#: 252195350

Dear Mr. Ortiz:

Thank you for the submittal of Site Investigation Work Plan (Report) to the Wisconsin Department of Natural Resources (WDNR), received on October 15, 2021. The report was prepared by Tetra Tech on behalf of WM waste, Inc. The SIWP has been prepared in response to a letter to a WDNR letter dated July 14, 2021.

The purpose of this SIWP is to complete a site investigation to define the extent and magnitude of residual contamination associated with the release of impacted carbon during change-out activities. The extent of soil contamination in the vicinity of the granular activated carbon (GACs) spill will be defined by collecting soil samples from six locations to the north, west and south of the area of the spill. The sample locations are 12 feet beyond the boundary of the previously excavated area. Soils samples (S1-S6) will be analyzed for Total Mercury. If lab results indicate mercury levels within the soil samples are above the direct contact residual contaminant limits (RCLs) of 3.3mg/L, additional soil samples will be collected in a step out phase. One surface water sample will be collected from the stormwater pond. A sample will be collected from each of the two private water supply wells.

Based on the review of the report the WDNR agrees with the sampling proposed and understands that upon receiving laboratory results additional sampling may be necessary to define the extent of impacted media. One note is to establish that the laboratory limit of detection is set low enough to compare the RCL for groundwater (0.208mg/kg) in soil.

If you have any further questions or concerns, please feel free to contact me at any time.

Candace Sykora
Hydrogeologist
West Central Region
Remediation and Redevelopment
Email: Candace.sykora@gmail.com
Phone: (715) 928-0452

ATTACHMENT 2 – LABORATORY REPORTS

BI-ANNUAL SAMPLING ANALYTICAL RESULTS

May 16, 2022

Luke Specketer
TETRATECH - Madison
8413 Excelsior Drive
Madison, WI 53717

RE: Project: 209-4221498 WM MERCURY WASTE
Pace Project No.: 40244305

Dear Luke Specketer:

Enclosed are the analytical results for sample(s) received by the laboratory on May 03, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 209-4221498 WM MERCURY WASTE

Pace Project No.: 40244305

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 209-4221498 WM MERCURY WASTE
Pace Project No.: 40244305

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40244305001	A-2	Solid	04/28/22 10:40	05/03/22 10:00
40244305002	A-2A	Solid	04/28/22 10:50	05/03/22 10:00
40244305003	A-9	Solid	04/28/22 08:10	05/03/22 10:00
40244305004	A-9A	Solid	04/28/22 08:30	05/03/22 10:00
40244305005	A-9B	Solid	04/28/22 08:40	05/03/22 10:00
40244305006	A-9C	Solid	04/28/22 08:50	05/03/22 10:00
40244305007	B-1A	Solid	04/28/22 11:00	05/03/22 10:00
40244305008	B-2	Solid	04/28/22 13:35	05/03/22 10:00
40244305009	B-2A	Solid	04/28/22 14:30	05/03/22 10:00
40244305010	B-3	Solid	04/28/22 11:15	05/03/22 10:00
40244305011	B-9	Solid	04/28/22 09:00	05/03/22 10:00
40244305012	B-9A	Solid	04/28/22 09:10	05/03/22 10:00
40244305013	B-9B	Solid	04/28/22 09:20	05/03/22 10:00
40244305014	B-9C	Solid	04/28/22 09:30	05/03/22 10:00
40244305015	C-1	Solid	04/28/22 11:30	05/03/22 10:00
40244305016	C-2	Solid	04/28/22 11:45	05/03/22 10:00
40244305017	C-9	Solid	04/28/22 09:40	05/03/22 10:00
40244305018	D-2	Solid	04/28/22 11:55	05/03/22 10:00
40244305019	D-3	Solid	04/28/22 12:10	05/03/22 10:00
40244305020	D-4	Solid	04/29/22 11:55	05/03/22 10:00
40244305021	D-4C	Solid	04/29/22 12:40	05/03/22 10:00
40244305022	D-9	Solid	04/27/22 18:25	05/03/22 10:00
40244305023	D-9A	Solid	04/27/22 18:30	05/03/22 10:00
40244305024	D-9B	Solid	04/27/22 18:35	05/03/22 10:00
40244305025	D-9C	Solid	04/27/22 18:55	05/03/22 10:00
40244305026	E-2	Solid	04/27/22 16:10	05/03/22 10:00
40244305027	E-3	Solid	04/27/22 16:25	05/03/22 10:00
40244305028	E-4	Solid	04/27/22 16:45	05/03/22 10:00
40244305029	E-4A	Solid	04/28/22 15:30	05/03/22 10:00
40244305030	E-6	Solid	04/29/22 08:50	05/03/22 10:00
40244305031	E-6A	Solid	04/29/22 10:15	05/03/22 10:00
40244305032	E-7	Solid	04/29/22 10:45	05/03/22 10:00
40244305033	E-7A	Solid	04/29/22 11:15	05/03/22 10:00
40244305034	E-9	Solid	04/27/22 17:40	05/03/22 10:00
40244305035	E-9A	Solid	04/27/22 17:50	05/03/22 10:00
40244305036	E-9B	Solid	04/27/22 18:05	05/03/22 10:00
40244305037	E-9C	Solid	04/27/22 18:10	05/03/22 10:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 209-4221498 WM MERCURY WASTE

Pace Project No.: 40244305

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40244305038	F-1	Solid	04/27/22 10:45	05/03/22 10:00
40244305039	F-2	Solid	04/27/22 10:55	05/03/22 10:00
40244305040	F-3	Solid	04/27/22 11:05	05/03/22 10:00
40244305041	F-4	Solid	04/27/22 11:15	05/03/22 10:00
40244305042	F-4A	Solid	04/27/22 11:40	05/03/22 10:00
40244305043	F-5	Solid	04/27/22 13:15	05/03/22 10:00
40244305044	F-5A	Solid	04/27/22 13:30	05/03/22 10:00
40244305045	F-6	Solid	04/27/22 13:40	05/03/22 10:00
40244305046	F-6A	Solid	04/27/22 13:50	05/03/22 10:00
40244305047	F-7	Solid	04/27/22 14:55	05/03/22 10:00
40244305048	F-7A	Solid	04/27/22 15:05	05/03/22 10:00
40244305049	F-8	Solid	04/27/22 15:20	05/03/22 10:00
40244305050	F-9	Solid	04/27/22 15:40	05/03/22 10:00
40244305051	F-9A	Solid	04/27/22 15:45	05/03/22 10:00
40244305052	G-1	Solid	04/27/22 08:15	05/03/22 10:00
40244305053	G-2	Solid	04/27/22 09:00	05/03/22 10:00
40244305054	G-3	Solid	04/27/22 09:10	05/03/22 10:00
40244305055	G-4	Solid	04/27/22 09:20	05/03/22 10:00
40244305056	G-5	Solid	04/27/22 09:30	05/03/22 10:00
40244305057	G-6	Solid	04/27/22 09:35	05/03/22 10:00
40244305058	G-7	Solid	04/27/22 09:45	05/03/22 10:00
40244305059	G-8	Solid	04/27/22 10:00	05/03/22 10:00
40244305060	G-9	Solid	04/27/22 10:10	05/03/22 10:00
40244305061	G-9A	Solid	04/27/22 10:15	05/03/22 10:00
40244305062	H-1	Solid	04/26/22 15:30	05/03/22 10:00
40244305063	H-2	Solid	04/26/22 16:10	05/03/22 10:00
40244305064	H-3	Solid	04/26/22 16:20	05/03/22 10:00
40244305065	H-4	Solid	04/26/22 16:40	05/03/22 10:00
40244305066	H-5	Solid	04/26/22 17:00	05/03/22 10:00
40244305067	H-6	Solid	04/26/22 17:10	05/03/22 10:00
40244305068	H-7	Solid	04/26/22 17:20	05/03/22 10:00
40244305069	H-8	Solid	04/26/22 17:35	05/03/22 10:00
40244305070	H-9	Solid	04/26/22 17:50	05/03/22 10:00
40244305071	H-9A	Solid	04/26/22 18:10	05/03/22 10:00
40244305072	I-1	Solid	04/26/22 10:25	05/03/22 10:00
40244305073	I-2	Solid	04/26/22 14:00	05/03/22 10:00
40244305074	I-3	Solid	04/26/22 14:25	05/03/22 10:00

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SAMPLE SUMMARY

Project: 209-4221498 WM MERCURY WASTE

Pace Project No.: 40244305

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40244305075	I-4	Solid	04/26/22 14:45	05/03/22 10:00
40244305076	I-5	Solid	04/26/22 15:00	05/03/22 10:00
40244305077	I-6	Solid	04/26/22 15:15	05/03/22 10:00
40244305078	RINSE # 1	Water	04/26/22 18:00	05/03/22 10:00
40244305079	RINSE # 2	Water	04/27/22 11:30	05/03/22 10:00
40244305080	RINSE # 3	Water	04/27/22 18:00	05/03/22 10:00
40244305081	RINSE # 4	Water	04/28/22 10:00	05/03/22 10:00
40244305082	RINSE # 5	Water	04/29/22 13:15	05/03/22 10:00

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SAMPLE ANALYTE COUNT

Project: 209-4221498 WM MERCURY WASTE
Pace Project No.: 40244305

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40244305001	A-2	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305002	A-2A	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305003	A-9	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305004	A-9A	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305005	A-9B	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305006	A-9C	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305007	B-1A	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305008	B-2	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305009	B-2A	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305010	B-3	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305011	B-9	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305012	B-9A	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305013	B-9B	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305014	B-9C	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305015	C-1	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305016	C-2	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305017	C-9	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305018	D-2	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305019	D-3	EPA 7471	AJT	1

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SAMPLE ANALYTE COUNT

Project: 209-4221498 WM MERCURY WASTE

Pace Project No.: 40244305

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		ASTM D2974-87	MYH	1
40244305020	D-4	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305021	D-4C	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305022	D-9	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305023	D-9A	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305024	D-9B	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305025	D-9C	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305026	E-2	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305027	E-3	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305028	E-4	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305029	E-4A	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305030	E-6	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305031	E-6A	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305032	E-7	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305033	E-7A	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305034	E-9	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305035	E-9A	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305036	E-9B	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305037	E-9C	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1

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SAMPLE ANALYTE COUNT

Project: 209-4221498 WM MERCURY WASTE
Pace Project No.: 40244305

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40244305038	F-1	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305039	F-2	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305040	F-3	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305041	F-4	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305042	F-4A	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305043	F-5	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305044	F-5A	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305045	F-6	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305046	F-6A	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305047	F-7	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305048	F-7A	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305049	F-8	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305050	F-9	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305051	F-9A	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305052	G-1	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305053	G-2	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305054	G-3	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305055	G-4	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305056	G-5	EPA 7471	AJT	1

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SAMPLE ANALYTE COUNT

Project: 209-4221498 WM MERCURY WASTE
Pace Project No.: 40244305

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40244305057	G-6	ASTM D2974-87	MYH	1
		EPA 7471	AJT	1
40244305058	G-7	ASTM D2974-87	MYH	1
		EPA 7471	AJT	1
40244305059	G-8	ASTM D2974-87	MYH	1
		EPA 7471	AJT	1
40244305060	G-9	ASTM D2974-87	MYH	1
		EPA 7471	AJT	1
40244305061	G-9A	ASTM D2974-87	MYH	1
		EPA 7471	AJT	1
40244305062	H-1	ASTM D2974-87	MYH	1
		EPA 7471	AJT	1
40244305063	H-2	ASTM D2974-87	MYH	1
		EPA 7471	AJT	1
40244305064	H-3	ASTM D2974-87	MYH	1
		EPA 7471	AJT	1
40244305065	H-4	ASTM D2974-87	MYH	1
		EPA 7471	AJT	1
40244305066	H-5	ASTM D2974-87	MYH	1
		EPA 7471	AJT	1
40244305067	H-6	ASTM D2974-87	MYH	1
		EPA 7471	AJT	1
40244305068	H-7	ASTM D2974-87	MYH	1
		EPA 7471	AJT	1
40244305069	H-8	ASTM D2974-87	MYH	1
		EPA 7471	AJT	1
40244305070	H-9	ASTM D2974-87	MYH	1
		EPA 7471	AJT	1
40244305071	H-9A	ASTM D2974-87	MYH	1
		EPA 7471	AJT	1
40244305072	I-1	ASTM D2974-87	MYH	1
		EPA 7471	AJT	1
40244305073	I-2	ASTM D2974-87	MYH	1
		EPA 7471	AJT	1
40244305074	I-3	ASTM D2974-87	MYH	1
		EPA 7471	AJT	1

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SAMPLE ANALYTE COUNT

Project: 209-4221498 WM MERCURY WASTE

Pace Project No.: 40244305

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40244305075	I-4	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305076	I-5	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305077	I-6	EPA 7471	AJT	1
		ASTM D2974-87	MYH	1
40244305078	RINSE # 1	EPA 7470	AJT	1
40244305079	RINSE # 2	EPA 7470	AJT	1
40244305080	RINSE # 3	EPA 7470	AJT	1
40244305081	RINSE # 4	EPA 7470	AJT	1
40244305082	RINSE # 5	EPA 7470	AJT	1

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 209-4221498 WM MERCURY WASTE
Pace Project No.: 40244305

Sample: A-2 **Lab ID: 40244305001** Collected: 04/28/22 10:40 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.17	mg/kg	0.045	0.013	1	05/06/22 12:03	05/09/22 11:34	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	21.8	%	0.10	0.10	1		05/09/22 13:53		

Sample: A-2A **Lab ID: 40244305002** Collected: 04/28/22 10:50 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.62	mg/kg	0.040	0.011	1	05/06/22 12:03	05/09/22 11:41	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	20.2	%	0.10	0.10	1		05/09/22 13:53		

Sample: A-9 **Lab ID: 40244305003** Collected: 04/28/22 08:10 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.066	mg/kg	0.041	0.012	1	05/06/22 12:03	05/09/22 11:43	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	21.4	%	0.10	0.10	1		05/09/22 13:53		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 209-4221498 WM MERCURY WASTE
Pace Project No.: 40244305

Sample: A-9A **Lab ID: 40244305004** Collected: 04/28/22 08:30 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.26	mg/kg	0.041	0.012	1	05/06/22 12:03	05/09/22 11:45	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	23.4	%	0.10	0.10	1		05/09/22 13:53		

Sample: A-9B **Lab ID: 40244305005** Collected: 04/28/22 08:40 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.28	mg/kg	0.044	0.013	1	05/06/22 12:03	05/09/22 11:48	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	29.2	%	0.10	0.10	1		05/09/22 13:53		

Sample: A-9C **Lab ID: 40244305006** Collected: 04/28/22 08:50 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	1.1	mg/kg	0.046	0.013	1	05/06/22 12:03	05/09/22 11:50	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	24.6	%	0.10	0.10	1		05/09/22 13:54		

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ANALYTICAL RESULTS

Project: 209-4221498 WM MERCURY WASTE
Pace Project No.: 40244305

Sample: B-1A **Lab ID: 40244305007** Collected: 04/28/22 11:00 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.24	mg/kg	0.039	0.011	1	05/06/22 12:03	05/09/22 11:52	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	15.9	%	0.10	0.10	1		05/09/22 13:54		

Sample: B-2 **Lab ID: 40244305008** Collected: 04/28/22 13:35 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.036J	mg/kg	0.048	0.014	1	05/06/22 12:03	05/09/22 11:55	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	29.4	%	0.10	0.10	1		05/09/22 13:54		

Sample: B-2A **Lab ID: 40244305009** Collected: 04/28/22 14:30 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.016J	mg/kg	0.038	0.011	1	05/06/22 12:03	05/09/22 12:02	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	16.3	%	0.10	0.10	1		05/09/22 13:54		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 209-4221498 WM MERCURY WASTE
Pace Project No.: 40244305

Sample: B-3 **Lab ID: 40244305010** Collected: 04/28/22 11:15 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.23	mg/kg	0.039	0.011	1	05/06/22 12:03	05/09/22 12:04	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	18.8	%	0.10	0.10	1		05/09/22 13:54		

Sample: B-9 **Lab ID: 40244305011** Collected: 04/28/22 09:00 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.40	mg/kg	0.040	0.012	1	05/06/22 12:03	05/09/22 12:06	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	18.4	%	0.10	0.10	1		05/09/22 13:54		

Sample: B-9A **Lab ID: 40244305012** Collected: 04/28/22 09:10 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.24	mg/kg	0.039	0.011	1	05/06/22 12:03	05/09/22 12:09	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	20.3	%	0.10	0.10	1		05/09/22 13:54		

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ANALYTICAL RESULTS

Project: 209-4221498 WM MERCURY WASTE
Pace Project No.: 40244305

Sample: B-9B **Lab ID: 40244305013** Collected: 04/28/22 09:20 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.34	mg/kg	0.040	0.011	1	05/06/22 12:03	05/09/22 12:11	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	19.9	%	0.10	0.10	1		05/09/22 13:54		

Sample: B-9C **Lab ID: 40244305014** Collected: 04/28/22 09:30 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.32	mg/kg	0.044	0.013	1	05/06/22 12:03	05/09/22 12:13	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	20.9	%	0.10	0.10	1		05/09/22 13:54		

Sample: C-1 **Lab ID: 40244305015** Collected: 04/28/22 11:30 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.061	mg/kg	0.041	0.012	1	05/06/22 12:03	05/09/22 12:16	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	21.1	%	0.10	0.10	1		05/09/22 13:55		

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ANALYTICAL RESULTS

Project: 209-4221498 WM MERCURY WASTE
Pace Project No.: 40244305

Sample: C-2 **Lab ID: 40244305016** Collected: 04/28/22 11:45 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.077	mg/kg	0.041	0.012	1	05/06/22 12:03	05/09/22 12:18	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	21.8	%	0.10	0.10	1		05/09/22 13:55		

Sample: C-9 **Lab ID: 40244305017** Collected: 04/28/22 09:40 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.41	mg/kg	0.042	0.012	1	05/06/22 12:03	05/09/22 12:20	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	26.0	%	0.10	0.10	1		05/09/22 13:55		

Sample: D-2 **Lab ID: 40244305018** Collected: 04/28/22 11:55 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.12	mg/kg	0.041	0.012	1	05/06/22 12:03	05/09/22 12:23	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	23.0	%	0.10	0.10	1		05/09/22 14:25		

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ANALYTICAL RESULTS

Project: 209-4221498 WM MERCURY WASTE

Pace Project No.: 40244305

Sample: D-3 **Lab ID: 40244305019** Collected: 04/28/22 12:10 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.19	mg/kg	0.042	0.012	1	05/06/22 12:03	05/09/22 12:30	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	22.7	%	0.10	0.10	1		05/09/22 15:05		

Sample: D-4 **Lab ID: 40244305020** Collected: 04/29/22 11:55 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.027J	mg/kg	0.036	0.010	1	05/06/22 12:03	05/09/22 12:32	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	13.4	%	0.10	0.10	1		05/09/22 14:25		

Sample: D-4C **Lab ID: 40244305021** Collected: 04/29/22 12:40 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.039	mg/kg	0.036	0.010	1	05/10/22 09:20	05/11/22 08:47	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	4.0	%	0.10	0.10	1		05/09/22 15:05		

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ANALYTICAL RESULTS

Project: 209-4221498 WM MERCURY WASTE
Pace Project No.: 40244305

Sample: D-9 **Lab ID: 40244305022** Collected: 04/27/22 18:25 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.95	mg/kg	0.044	0.012	1	05/10/22 09:20	05/11/22 08:49	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	22.9	%	0.10	0.10	1		05/09/22 15:06		

Sample: D-9A **Lab ID: 40244305023** Collected: 04/27/22 18:30 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.15	mg/kg	0.043	0.012	1	05/10/22 09:20	05/11/22 08:51	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	23.0	%	0.10	0.10	1		05/09/22 15:06		

Sample: D-9B **Lab ID: 40244305024** Collected: 04/27/22 18:35 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.046	mg/kg	0.040	0.011	1	05/10/22 09:20	05/11/22 08:54	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	17.5	%	0.10	0.10	1		05/09/22 15:06		

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ANALYTICAL RESULTS

Project: 209-4221498 WM MERCURY WASTE
Pace Project No.: 40244305

Sample: D-9C **Lab ID: 40244305025** Collected: 04/27/22 18:55 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.29	mg/kg	0.044	0.012	1	05/10/22 09:20	05/11/22 08:56	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	23.8	%	0.10	0.10	1		05/09/22 15:06		

Sample: E-2 **Lab ID: 40244305026** Collected: 04/27/22 16:10 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.076	mg/kg	0.043	0.012	1	05/10/22 09:20	05/11/22 08:58	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	24.2	%	0.10	0.10	1		05/09/22 15:06		

Sample: E-3 **Lab ID: 40244305027** Collected: 04/27/22 16:25 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.14	mg/kg	0.043	0.012	1	05/10/22 09:20	05/11/22 09:00	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	24.9	%	0.10	0.10	1		05/09/22 15:06		

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ANALYTICAL RESULTS

Project: 209-4221498 WM MERCURY WASTE

Pace Project No.: 40244305

Sample: E-4 **Lab ID: 40244305028** Collected: 04/27/22 16:45 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.043	mg/kg	0.040	0.012	1	05/10/22 09:20	05/11/22 09:03	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	20.4	%	0.10	0.10	1		05/09/22 15:06		

Sample: E-4A **Lab ID: 40244305029** Collected: 04/28/22 15:30 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.014J	mg/kg	0.037	0.010	1	05/10/22 09:20	05/11/22 09:10	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	14.3	%	0.10	0.10	1		05/09/22 15:06		

Sample: E-6 **Lab ID: 40244305030** Collected: 04/29/22 08:50 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.18	mg/kg	0.034	0.0098	1	05/10/22 09:20	05/11/22 09:12	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	2.4	%	0.10	0.10	1		05/09/22 15:06		

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ANALYTICAL RESULTS

Project: 209-4221498 WM MERCURY WASTE
Pace Project No.: 40244305

Sample: E-6A **Lab ID: 40244305031** Collected: 04/29/22 10:15 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.26	mg/kg	0.035	0.010	1	05/10/22 09:20	05/11/22 09:14	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	4.6	%	0.10	0.10	1		05/09/22 15:06		

Sample: E-7 **Lab ID: 40244305032** Collected: 04/29/22 10:45 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.13	mg/kg	0.036	0.010	1	05/10/22 09:20	05/11/22 09:17	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	9.7	%	0.10	0.10	1		05/09/22 15:07		

Sample: E-7A **Lab ID: 40244305033** Collected: 04/29/22 11:15 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.087	mg/kg	0.036	0.010	1	05/10/22 11:44	05/11/22 09:24	7439-97-6	B
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	3.0	%	0.10	0.10	1		05/09/22 15:07		

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ANALYTICAL RESULTS

Project: 209-4221498 WM MERCURY WASTE

Pace Project No.: 40244305

Sample: E-9 **Lab ID: 40244305034** Collected: 04/27/22 17:40 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.47	mg/kg	0.045	0.013	1	05/10/22 11:44	05/11/22 09:31	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	29.8	%	0.10	0.10	1		05/09/22 15:07		

Sample: E-9A **Lab ID: 40244305035** Collected: 04/27/22 17:50 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.094	mg/kg	0.043	0.012	1	05/10/22 11:44	05/11/22 09:38	7439-97-6	B
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	21.3	%	0.10	0.10	1		05/09/22 15:07		

Sample: E-9B **Lab ID: 40244305036** Collected: 04/27/22 18:05 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.18	mg/kg	0.044	0.013	1	05/10/22 11:44	05/11/22 09:40	7439-97-6	B
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	24.0	%	0.10	0.10	1		05/09/22 15:07		

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ANALYTICAL RESULTS

Project: 209-4221498 WM MERCURY WASTE
Pace Project No.: 40244305

Sample: E-9C **Lab ID: 40244305037** Collected: 04/27/22 18:10 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.26	mg/kg	0.044	0.013	1	05/10/22 11:44	05/11/22 09:42	7439-97-6	B
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	22.6	%	0.10	0.10	1		05/09/22 15:07		

Sample: F-1 **Lab ID: 40244305038** Collected: 04/27/22 10:45 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.31	mg/kg	0.045	0.013	1	05/10/22 11:44	05/11/22 09:45	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	26.2	%	0.10	0.10	1		05/09/22 15:07		

Sample: F-2 **Lab ID: 40244305039** Collected: 04/27/22 10:55 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.27	mg/kg	0.046	0.013	1	05/10/22 11:44	05/11/22 09:47	7439-97-6	B
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	24.4	%	0.10	0.10	1		05/09/22 15:07		

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ANALYTICAL RESULTS

Project: 209-4221498 WM MERCURY WASTE
Pace Project No.: 40244305

Sample: F-3 **Lab ID: 40244305040** Collected: 04/27/22 11:05 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.36	mg/kg	0.047	0.014	1	05/10/22 11:44	05/11/22 09:49	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	27.2	%	0.10	0.10	1		05/09/22 15:34		

Sample: F-4 **Lab ID: 40244305041** Collected: 04/27/22 11:15 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.094	mg/kg	0.042	0.012	1	05/10/22 11:44	05/11/22 09:52	7439-97-6	B
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	25.7	%	0.10	0.10	1		05/09/22 15:34		

Sample: F-4A **Lab ID: 40244305042** Collected: 04/27/22 11:40 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.35	mg/kg	0.043	0.012	1	05/10/22 11:44	05/11/22 09:54	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	21.8	%	0.10	0.10	1		05/09/22 15:34		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 209-4221498 WM MERCURY WASTE
Pace Project No.: 40244305

Sample: F-5 **Lab ID: 40244305043** Collected: 04/27/22 13:15 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	1.1	mg/kg	0.040	0.011	1	05/10/22 11:44	05/11/22 09:56	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	21.6	%	0.10	0.10	1		05/09/22 15:34		

Sample: F-5A **Lab ID: 40244305044** Collected: 04/27/22 13:30 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.69	mg/kg	0.048	0.014	1	05/10/22 11:44	05/11/22 09:59	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	31.1	%	0.10	0.10	1		05/09/22 15:34		

Sample: F-6 **Lab ID: 40244305045** Collected: 04/27/22 13:40 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.70	mg/kg	0.041	0.012	1	05/10/22 11:44	05/11/22 10:08	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	20.4	%	0.10	0.10	1		05/09/22 15:34		

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ANALYTICAL RESULTS

Project: 209-4221498 WM MERCURY WASTE
Pace Project No.: 40244305

Sample: F-6A **Lab ID: 40244305046** Collected: 04/27/22 13:50 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.26	mg/kg	0.041	0.012	1	05/10/22 11:44	05/11/22 10:10	7439-97-6	B
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	18.2	%	0.10	0.10	1		05/09/22 15:34		

Sample: F-7 **Lab ID: 40244305047** Collected: 04/27/22 14:55 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	2.4	mg/kg	0.095	0.027	2	05/10/22 11:44	05/11/22 11:40	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	29.4	%	0.10	0.10	1		05/09/22 15:34		

Sample: F-7A **Lab ID: 40244305048** Collected: 04/27/22 15:05 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	1.3	mg/kg	0.047	0.013	1	05/10/22 11:44	05/11/22 10:15	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	26.7	%	0.10	0.10	1		05/09/22 15:34		

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ANALYTICAL RESULTS

Project: 209-4221498 WM MERCURY WASTE
Pace Project No.: 40244305

Sample: F-8 **Lab ID: 40244305049** Collected: 04/27/22 15:20 Received: 05/03/22 10:00 Matrix: Solid
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	2.8	mg/kg	0.10	0.029	1	05/10/22 11:44	05/11/22 10:17	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	65.4	%	0.10	0.10	1		05/09/22 15:34		

Sample: F-9 **Lab ID: 40244305050** Collected: 04/27/22 15:40 Received: 05/03/22 10:00 Matrix: Solid
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.35	mg/kg	0.043	0.012	1	05/10/22 11:44	05/11/22 10:19	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	23.5	%	0.10	0.10	1		05/09/22 15:35		

Sample: F-9A **Lab ID: 40244305051** Collected: 04/27/22 15:45 Received: 05/03/22 10:00 Matrix: Solid
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.30	mg/kg	0.040	0.011	1	05/10/22 11:44	05/11/22 10:22	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	21.7	%	0.10	0.10	1		05/09/22 15:35		

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ANALYTICAL RESULTS

Project: 209-4221498 WM MERCURY WASTE

Pace Project No.: 40244305

Sample: G-1 **Lab ID: 40244305052** Collected: 04/27/22 08:15 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.45	mg/kg	0.050	0.014	1	05/10/22 11:44	05/11/22 10:24	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	30.5	%	0.10	0.10	1		05/09/22 15:35		

Sample: G-2 **Lab ID: 40244305053** Collected: 04/27/22 09:00 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.23	mg/kg	0.048	0.014	1	05/10/22 11:55	05/11/22 10:36	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	27.8	%	0.10	0.10	1		05/09/22 15:35		

Sample: G-3 **Lab ID: 40244305054** Collected: 04/27/22 09:10 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.32	mg/kg	0.043	0.012	1	05/10/22 11:55	05/11/22 10:43	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	20.4	%	0.10	0.10	1		05/09/22 15:35		

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ANALYTICAL RESULTS

Project: 209-4221498 WM MERCURY WASTE

Pace Project No.: 40244305

Sample: G-4 **Lab ID: 40244305055** Collected: 04/27/22 09:20 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.66	mg/kg	0.045	0.013	1	05/10/22 11:55	05/11/22 10:45	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	28.6	%	0.10	0.10	1		05/09/22 14:26		

Sample: G-5 **Lab ID: 40244305056** Collected: 04/27/22 09:30 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	4.8	mg/kg	0.23	0.065	5	05/10/22 11:55	05/11/22 11:42	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	31.7	%	0.10	0.10	1		05/09/22 14:26		

Sample: G-6 **Lab ID: 40244305057** Collected: 04/27/22 09:35 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.29	mg/kg	0.046	0.013	1	05/10/22 11:55	05/11/22 10:51	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	27.4	%	0.10	0.10	1		05/09/22 14:26		

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ANALYTICAL RESULTS

Project: 209-4221498 WM MERCURY WASTE
Pace Project No.: 40244305

Sample: G-7 **Lab ID: 40244305058** Collected: 04/27/22 09:45 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.56	mg/kg	0.043	0.012	1	05/10/22 11:55	05/11/22 10:53	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	24.6	%	0.10	0.10	1		05/09/22 14:26		

Sample: G-8 **Lab ID: 40244305059** Collected: 04/27/22 10:00 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.13	mg/kg	0.043	0.012	1	05/10/22 11:55	05/11/22 10:55	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	23.6	%	0.10	0.10	1		05/09/22 14:26		

Sample: G-9 **Lab ID: 40244305060** Collected: 04/27/22 10:10 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.33	mg/kg	0.045	0.013	1	05/10/22 11:55	05/11/22 10:58	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	24.4	%	0.10	0.10	1		05/09/22 14:26		

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ANALYTICAL RESULTS

Project: 209-4221498 WM MERCURY WASTE
Pace Project No.: 40244305

Sample: G-9A **Lab ID: 40244305061** Collected: 04/27/22 10:15 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.041J	mg/kg	0.046	0.013	1	05/10/22 11:55	05/11/22 11:05	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	25.0	%	0.10	0.10	1		05/09/22 14:26		

Sample: H-1 **Lab ID: 40244305062** Collected: 04/26/22 15:30 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.32	mg/kg	0.046	0.013	1	05/10/22 11:55	05/11/22 11:07	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	29.4	%	0.10	0.10	1		05/09/22 14:26		

Sample: H-2 **Lab ID: 40244305063** Collected: 04/26/22 16:10 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.075	mg/kg	0.042	0.012	1	05/10/22 11:55	05/11/22 11:10	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	23.2	%	0.10	0.10	1		05/09/22 14:26		

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ANALYTICAL RESULTS

Project: 209-4221498 WM MERCURY WASTE
Pace Project No.: 40244305

Sample: H-3 **Lab ID: 40244305064** Collected: 04/26/22 16:20 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.091	mg/kg	0.041	0.012	1	05/10/22 11:55	05/11/22 11:12	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	17.6	%	0.10	0.10	1		05/09/22 14:26		

Sample: H-4 **Lab ID: 40244305065** Collected: 04/26/22 16:40 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.23	mg/kg	0.041	0.012	1	05/10/22 11:55	05/11/22 11:14	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	24.3	%	0.10	0.10	1		05/09/22 14:26		

Sample: H-5 **Lab ID: 40244305066** Collected: 04/26/22 17:00 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	1.3	mg/kg	0.043	0.012	1	05/10/22 11:55	05/11/22 11:17	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	24.8	%	0.10	0.10	1		05/09/22 14:26		

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ANALYTICAL RESULTS

Project: 209-4221498 WM MERCURY WASTE
Pace Project No.: 40244305

Sample: H-6 **Lab ID: 40244305067** Collected: 04/26/22 17:10 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.044	mg/kg	0.041	0.012	1	05/10/22 11:55	05/11/22 11:19	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	24.7	%	0.10	0.10	1		05/09/22 14:26		

Sample: H-7 **Lab ID: 40244305068** Collected: 04/26/22 17:20 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.24	mg/kg	0.044	0.012	1	05/10/22 11:55	05/11/22 11:21	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	20.1	%	0.10	0.10	1		05/09/22 14:27		

Sample: H-8 **Lab ID: 40244305069** Collected: 04/26/22 17:35 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.36	mg/kg	0.042	0.012	1	05/10/22 11:55	05/11/22 11:23	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	24.4	%	0.10	0.10	1		05/09/22 14:27		

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ANALYTICAL RESULTS

Project: 209-4221498 WM MERCURY WASTE

Pace Project No.: 40244305

Sample: H-9 **Lab ID: 40244305070** Collected: 04/26/22 17:50 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.37	mg/kg	0.043	0.012	1	05/10/22 11:55	05/11/22 11:26	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	25.0	%	0.10	0.10	1		05/09/22 14:27		

Sample: H-9A **Lab ID: 40244305071** Collected: 04/26/22 18:10 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.20	mg/kg	0.050	0.014	1	05/10/22 11:55	05/11/22 11:33	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	34.3	%	0.10	0.10	1		05/09/22 14:27		

Sample: I-1 **Lab ID: 40244305072** Collected: 04/26/22 10:25 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.38	mg/kg	0.051	0.015	1	05/10/22 11:55	05/11/22 11:35	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	32.4	%	0.10	0.10	1		05/09/22 14:27		

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ANALYTICAL RESULTS

Project: 209-4221498 WM MERCURY WASTE
Pace Project No.: 40244305

Sample: I-2 **Lab ID: 40244305073** Collected: 04/26/22 14:00 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.099	mg/kg	0.048	0.014	1	05/12/22 09:10	05/13/22 09:46	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	34.2	%	0.10	0.10	1		05/09/22 15:35		

Sample: I-3 **Lab ID: 40244305074** Collected: 04/26/22 14:25 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.15	mg/kg	0.051	0.015	1	05/12/22 09:10	05/13/22 09:53	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	35.9	%	0.10	0.10	1		05/09/22 15:35		

Sample: I-4 **Lab ID: 40244305075** Collected: 04/26/22 14:45 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.020J	mg/kg	0.044	0.013	1	05/12/22 09:10	05/13/22 09:56	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	24.9	%	0.10	0.10	1		05/09/22 15:35		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 209-4221498 WM MERCURY WASTE

Pace Project No.: 40244305

Sample: I-5 **Lab ID: 40244305076** Collected: 04/26/22 15:00 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.16	mg/kg	0.046	0.013	1	05/12/22 09:10	05/13/22 09:58	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	26.7	%	0.10	0.10	1		05/09/22 15:35		

Sample: I-6 **Lab ID: 40244305077** Collected: 04/26/22 15:15 Received: 05/03/22 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.20	mg/kg	0.044	0.013	1	05/12/22 09:10	05/13/22 10:00	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	24.5	%	0.10	0.10	1		05/09/22 15:35		

Sample: RINSE # 1 **Lab ID: 40244305078** Collected: 04/26/22 18:00 Received: 05/03/22 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury	<0.066	ug/L	0.20	0.066	1	05/09/22 10:50	05/10/22 10:31	7439-97-6	

Sample: RINSE # 2 **Lab ID: 40244305079** Collected: 04/27/22 11:30 Received: 05/03/22 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury	<0.066	ug/L	0.20	0.066	1	05/09/22 10:50	05/10/22 10:34	7439-97-6	

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ANALYTICAL RESULTS

Project: 209-4221498 WM MERCURY WASTE

Pace Project No.: 40244305

Sample: RINSE # 3		Lab ID: 40244305080		Collected: 04/27/22 18:00	Received: 05/03/22 10:00	Matrix: Water				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury	<0.066	ug/L	0.20	0.066	1	05/09/22 10:50	05/10/22 10:36	7439-97-6		

Sample: RINSE # 4		Lab ID: 40244305081		Collected: 04/28/22 10:00	Received: 05/03/22 10:00	Matrix: Water				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury	0.073J	ug/L	0.20	0.066	1	05/09/22 10:50	05/10/22 10:43	7439-97-6		

Sample: RINSE # 5		Lab ID: 40244305082		Collected: 04/29/22 13:15	Received: 05/03/22 10:00	Matrix: Water				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury	0.085J	ug/L	0.20	0.066	1	05/09/22 10:50	05/10/22 10:45	7439-97-6		

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QUALITY CONTROL DATA

Project: 209-4221498 WM MERCURY WASTE

Pace Project No.: 40244305

QC Batch:	415124	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40244305078, 40244305079, 40244305080, 40244305081, 40244305082

METHOD BLANK: 2390421 Matrix: Water
Associated Lab Samples: 40244305078, 40244305079, 40244305080, 40244305081, 40244305082

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.066	0.20	05/10/22 09:50	

LABORATORY CONTROL SAMPLE: 2390422

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2390423 2390424

Parameter	Units	2390423		2390424		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	ug/L	<0.066	5	5	5.0	5.0	98	99	85-115	1	20

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QUALITY CONTROL DATA

Project: 209-4221498 WM MERCURY WASTE

Pace Project No.: 40244305

QC Batch:	415009	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury
		Laboratory:	Pace Analytical Services - Green Bay
Associated Lab Samples:	40244305001, 40244305002, 40244305003, 40244305004, 40244305005, 40244305006, 40244305007, 40244305008, 40244305009, 40244305010, 40244305011, 40244305012, 40244305013, 40244305014, 40244305015, 40244305016, 40244305017, 40244305018, 40244305019, 40244305020		

METHOD BLANK:	2389521	Matrix:	Solid
Associated Lab Samples:	40244305001, 40244305002, 40244305003, 40244305004, 40244305005, 40244305006, 40244305007, 40244305008, 40244305009, 40244305010, 40244305011, 40244305012, 40244305013, 40244305014, 40244305015, 40244305016, 40244305017, 40244305018, 40244305019, 40244305020		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.010	0.035	05/09/22 11:25	

LABORATORY CONTROL SAMPLE:	2389522					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.83	0.87	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	2389523			2389524								
Parameter	Units	40244305001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.17	1.1	1.1	1.3	1.3	105	108	85-115	3	20	

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QUALITY CONTROL DATA

Project: 209-4221498 WM MERCURY WASTE

Pace Project No.: 40244305

QC Batch:	415247	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40244305021, 40244305022, 40244305023, 40244305024, 40244305025, 40244305026, 40244305027, 40244305028, 40244305029, 40244305030, 40244305031, 40244305032

METHOD BLANK: 2390931 Matrix: Solid

Associated Lab Samples: 40244305021, 40244305022, 40244305023, 40244305024, 40244305025, 40244305026, 40244305027, 40244305028, 40244305029, 40244305030, 40244305031, 40244305032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.010	0.035	05/11/22 08:14	

LABORATORY CONTROL SAMPLE: 2390932

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.83	0.83	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2390933 2390934

Parameter	Units	40244493001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.034J	1	1	1.0	1.0	96	96	85-115	0	20	

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QUALITY CONTROL DATA

Project: 209-4221498 WM MERCURY WASTE
Pace Project No.: 40244305

QC Batch:	415249	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40244305033, 40244305034, 40244305035, 40244305036, 40244305037, 40244305038, 40244305039, 40244305040, 40244305041, 40244305042, 40244305043, 40244305044, 40244305045, 40244305046, 40244305047, 40244305048, 40244305049, 40244305050, 40244305051, 40244305052

METHOD BLANK: 2390935 Matrix: Solid
Associated Lab Samples: 40244305033, 40244305034, 40244305035, 40244305036, 40244305037, 40244305038, 40244305039, 40244305040, 40244305041, 40244305042, 40244305043, 40244305044, 40244305045, 40244305046, 40244305047, 40244305048, 40244305049, 40244305050, 40244305051, 40244305052

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	0.023J	0.035	05/11/22 11:37	

LABORATORY CONTROL SAMPLE: 2390936

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.83	0.91	109	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2390937 2390938

Parameter	Units	40244305033 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.087	0.86	0.86	0.92	0.93	97	99	85-115	1	20	

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QUALITY CONTROL DATA

Project: 209-4221498 WM MERCURY WASTE
Pace Project No.: 40244305

QC Batch:	415250	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40244305053, 40244305054, 40244305055, 40244305056, 40244305057, 40244305058, 40244305059, 40244305060, 40244305061, 40244305062, 40244305063, 40244305064, 40244305065, 40244305066, 40244305067, 40244305068, 40244305069, 40244305070, 40244305071, 40244305072

METHOD BLANK: 2390939 Matrix: Solid
Associated Lab Samples: 40244305053, 40244305054, 40244305055, 40244305056, 40244305057, 40244305058, 40244305059, 40244305060, 40244305061, 40244305062, 40244305063, 40244305064, 40244305065, 40244305066, 40244305067, 40244305068, 40244305069, 40244305070, 40244305071, 40244305072

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.010	0.035	05/11/22 10:26	

LABORATORY CONTROL SAMPLE: 2390940

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.83	0.85	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2390941 2390942

Parameter	Units	40244305053 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.23	1.1	1.1	1.4	1.3	103	94	85-115	7	20	

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QUALITY CONTROL DATA

Project: 209-4221498 WM MERCURY WASTE

Pace Project No.: 40244305

QC Batch:	415535	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40244305073, 40244305074, 40244305075, 40244305076, 40244305077

METHOD BLANK: 2392256 Matrix: Solid
Associated Lab Samples: 40244305073, 40244305074, 40244305075, 40244305076, 40244305077

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.010	0.035	05/13/22 08:58	

LABORATORY CONTROL SAMPLE: 2392257

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.83	0.84	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2392258 2392259

Parameter	Units	2392258		2392259		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40244446001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Mercury	mg/kg	0.019J	1.1	1.1	1.1	1.1	101	101	85-115	0	20	

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QUALITY CONTROL DATA

Project: 209-4221498 WM MERCURY WASTE

Pace Project No.: 40244305

QC Batch:	415187	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40244305001, 40244305002, 40244305003, 40244305004, 40244305005, 40244305006, 40244305007, 40244305008, 40244305009, 40244305010, 40244305011, 40244305012, 40244305013, 40244305014, 40244305015, 40244305016, 40244305017

SAMPLE DUPLICATE: 2390672

Parameter	Units	40244305009 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.3	17.1	4	10	

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QUALITY CONTROL DATA

Project: 209-4221498 WM MERCURY WASTE

Pace Project No.: 40244305

QC Batch:	415197	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40244305018, 40244305020, 40244305055, 40244305056, 40244305057, 40244305058, 40244305059, 40244305060, 40244305061, 40244305062, 40244305063, 40244305064, 40244305065, 40244305066, 40244305067, 40244305068, 40244305069, 40244305070, 40244305071, 40244305072

SAMPLE DUPLICATE: 2390694

Parameter	Units	40244305020 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.4	13.2	2	10	

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QUALITY CONTROL DATA

Project: 209-4221498 WM MERCURY WASTE

Pace Project No.: 40244305

QC Batch:	415199	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40244305019, 40244305021, 40244305022, 40244305023, 40244305024, 40244305025, 40244305026, 40244305027, 40244305028, 40244305029, 40244305030, 40244305031, 40244305032, 40244305033, 40244305034, 40244305035, 40244305036, 40244305037, 40244305038, 40244305039

SAMPLE DUPLICATE: 2390698

Parameter	Units	40244305028 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.4	21.4	5	10	

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QUALITY CONTROL DATA

Project: 209-4221498 WM MERCURY WASTE
Pace Project No.: 40244305

QC Batch:	415204	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40244305040, 40244305041, 40244305042, 40244305043, 40244305044, 40244305045, 40244305046, 40244305047, 40244305048, 40244305049, 40244305050, 40244305051, 40244305052, 40244305053, 40244305054, 40244305073, 40244305074, 40244305075, 40244305076, 40244305077

SAMPLE DUPLICATE: 2390720

Parameter	Units	40244305048 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	26.7	27.3	2	10	

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QUALIFIERS

Project: 209-4221498 WM MERCURY WASTE

Pace Project No.: 40244305

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 209-4221498 WM MERCURY WASTE
Pace Project No.: 40244305

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40244305078	RINSE # 1	EPA 7470	415124	EPA 7470	415182
40244305079	RINSE # 2	EPA 7470	415124	EPA 7470	415182
40244305080	RINSE # 3	EPA 7470	415124	EPA 7470	415182
40244305081	RINSE # 4	EPA 7470	415124	EPA 7470	415182
40244305082	RINSE # 5	EPA 7470	415124	EPA 7470	415182
40244305001	A-2	EPA 7471	415009	EPA 7471	415057
40244305002	A-2A	EPA 7471	415009	EPA 7471	415057
40244305003	A-9	EPA 7471	415009	EPA 7471	415057
40244305004	A-9A	EPA 7471	415009	EPA 7471	415057
40244305005	A-9B	EPA 7471	415009	EPA 7471	415057
40244305006	A-9C	EPA 7471	415009	EPA 7471	415057
40244305007	B-1A	EPA 7471	415009	EPA 7471	415057
40244305008	B-2	EPA 7471	415009	EPA 7471	415057
40244305009	B-2A	EPA 7471	415009	EPA 7471	415057
40244305010	B-3	EPA 7471	415009	EPA 7471	415057
40244305011	B-9	EPA 7471	415009	EPA 7471	415057
40244305012	B-9A	EPA 7471	415009	EPA 7471	415057
40244305013	B-9B	EPA 7471	415009	EPA 7471	415057
40244305014	B-9C	EPA 7471	415009	EPA 7471	415057
40244305015	C-1	EPA 7471	415009	EPA 7471	415057
40244305016	C-2	EPA 7471	415009	EPA 7471	415057
40244305017	C-9	EPA 7471	415009	EPA 7471	415057
40244305018	D-2	EPA 7471	415009	EPA 7471	415057
40244305019	D-3	EPA 7471	415009	EPA 7471	415057
40244305020	D-4	EPA 7471	415009	EPA 7471	415057
40244305021	D-4C	EPA 7471	415247	EPA 7471	415324
40244305022	D-9	EPA 7471	415247	EPA 7471	415324
40244305023	D-9A	EPA 7471	415247	EPA 7471	415324
40244305024	D-9B	EPA 7471	415247	EPA 7471	415324
40244305025	D-9C	EPA 7471	415247	EPA 7471	415324
40244305026	E-2	EPA 7471	415247	EPA 7471	415324
40244305027	E-3	EPA 7471	415247	EPA 7471	415324
40244305028	E-4	EPA 7471	415247	EPA 7471	415324
40244305029	E-4A	EPA 7471	415247	EPA 7471	415324
40244305030	E-6	EPA 7471	415247	EPA 7471	415324
40244305031	E-6A	EPA 7471	415247	EPA 7471	415324
40244305032	E-7	EPA 7471	415247	EPA 7471	415324
40244305033	E-7A	EPA 7471	415249	EPA 7471	415325
40244305034	E-9	EPA 7471	415249	EPA 7471	415325
40244305035	E-9A	EPA 7471	415249	EPA 7471	415325
40244305036	E-9B	EPA 7471	415249	EPA 7471	415325
40244305037	E-9C	EPA 7471	415249	EPA 7471	415325
40244305038	F-1	EPA 7471	415249	EPA 7471	415325
40244305039	F-2	EPA 7471	415249	EPA 7471	415325
40244305040	F-3	EPA 7471	415249	EPA 7471	415325
40244305041	F-4	EPA 7471	415249	EPA 7471	415325
40244305042	F-4A	EPA 7471	415249	EPA 7471	415325

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 209-4221498 WM MERCURY WASTE
Pace Project No.: 40244305

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40244305043	F-5	EPA 7471	415249	EPA 7471	415325
40244305044	F-5A	EPA 7471	415249	EPA 7471	415325
40244305045	F-6	EPA 7471	415249	EPA 7471	415325
40244305046	F-6A	EPA 7471	415249	EPA 7471	415325
40244305047	F-7	EPA 7471	415249	EPA 7471	415325
40244305048	F-7A	EPA 7471	415249	EPA 7471	415325
40244305049	F-8	EPA 7471	415249	EPA 7471	415325
40244305050	F-9	EPA 7471	415249	EPA 7471	415325
40244305051	F-9A	EPA 7471	415249	EPA 7471	415325
40244305052	G-1	EPA 7471	415249	EPA 7471	415325
40244305053	G-2	EPA 7471	415250	EPA 7471	415326
40244305054	G-3	EPA 7471	415250	EPA 7471	415326
40244305055	G-4	EPA 7471	415250	EPA 7471	415326
40244305056	G-5	EPA 7471	415250	EPA 7471	415326
40244305057	G-6	EPA 7471	415250	EPA 7471	415326
40244305058	G-7	EPA 7471	415250	EPA 7471	415326
40244305059	G-8	EPA 7471	415250	EPA 7471	415326
40244305060	G-9	EPA 7471	415250	EPA 7471	415326
40244305061	G-9A	EPA 7471	415250	EPA 7471	415326
40244305062	H-1	EPA 7471	415250	EPA 7471	415326
40244305063	H-2	EPA 7471	415250	EPA 7471	415326
40244305064	H-3	EPA 7471	415250	EPA 7471	415326
40244305065	H-4	EPA 7471	415250	EPA 7471	415326
40244305066	H-5	EPA 7471	415250	EPA 7471	415326
40244305067	H-6	EPA 7471	415250	EPA 7471	415326
40244305068	H-7	EPA 7471	415250	EPA 7471	415326
40244305069	H-8	EPA 7471	415250	EPA 7471	415326
40244305070	H-9	EPA 7471	415250	EPA 7471	415326
40244305071	H-9A	EPA 7471	415250	EPA 7471	415326
40244305072	I-1	EPA 7471	415250	EPA 7471	415326
40244305073	I-2	EPA 7471	415535	EPA 7471	415609
40244305074	I-3	EPA 7471	415535	EPA 7471	415609
40244305075	I-4	EPA 7471	415535	EPA 7471	415609
40244305076	I-5	EPA 7471	415535	EPA 7471	415609
40244305077	I-6	EPA 7471	415535	EPA 7471	415609
40244305001	A-2	ASTM D2974-87	415187		
40244305002	A-2A	ASTM D2974-87	415187		
40244305003	A-9	ASTM D2974-87	415187		
40244305004	A-9A	ASTM D2974-87	415187		
40244305005	A-9B	ASTM D2974-87	415187		
40244305006	A-9C	ASTM D2974-87	415187		
40244305007	B-1A	ASTM D2974-87	415187		
40244305008	B-2	ASTM D2974-87	415187		
40244305009	B-2A	ASTM D2974-87	415187		
40244305010	B-3	ASTM D2974-87	415187		
40244305011	B-9	ASTM D2974-87	415187		
40244305012	B-9A	ASTM D2974-87	415187		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 209-4221498 WM MERCURY WASTE
Pace Project No.: 40244305

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40244305013	B-9B	ASTM D2974-87	415187		
40244305014	B-9C	ASTM D2974-87	415187		
40244305015	C-1	ASTM D2974-87	415187		
40244305016	C-2	ASTM D2974-87	415187		
40244305017	C-9	ASTM D2974-87	415187		
40244305018	D-2	ASTM D2974-87	415197		
40244305019	D-3	ASTM D2974-87	415199		
40244305020	D-4	ASTM D2974-87	415197		
40244305021	D-4C	ASTM D2974-87	415199		
40244305022	D-9	ASTM D2974-87	415199		
40244305023	D-9A	ASTM D2974-87	415199		
40244305024	D-9B	ASTM D2974-87	415199		
40244305025	D-9C	ASTM D2974-87	415199		
40244305026	E-2	ASTM D2974-87	415199		
40244305027	E-3	ASTM D2974-87	415199		
40244305028	E-4	ASTM D2974-87	415199		
40244305029	E-4A	ASTM D2974-87	415199		
40244305030	E-6	ASTM D2974-87	415199		
40244305031	E-6A	ASTM D2974-87	415199		
40244305032	E-7	ASTM D2974-87	415199		
40244305033	E-7A	ASTM D2974-87	415199		
40244305034	E-9	ASTM D2974-87	415199		
40244305035	E-9A	ASTM D2974-87	415199		
40244305036	E-9B	ASTM D2974-87	415199		
40244305037	E-9C	ASTM D2974-87	415199		
40244305038	F-1	ASTM D2974-87	415199		
40244305039	F-2	ASTM D2974-87	415199		
40244305040	F-3	ASTM D2974-87	415204		
40244305041	F-4	ASTM D2974-87	415204		
40244305042	F-4A	ASTM D2974-87	415204		
40244305043	F-5	ASTM D2974-87	415204		
40244305044	F-5A	ASTM D2974-87	415204		
40244305045	F-6	ASTM D2974-87	415204		
40244305046	F-6A	ASTM D2974-87	415204		
40244305047	F-7	ASTM D2974-87	415204		
40244305048	F-7A	ASTM D2974-87	415204		
40244305049	F-8	ASTM D2974-87	415204		
40244305050	F-9	ASTM D2974-87	415204		
40244305051	F-9A	ASTM D2974-87	415204		
40244305052	G-1	ASTM D2974-87	415204		
40244305053	G-2	ASTM D2974-87	415204		
40244305054	G-3	ASTM D2974-87	415204		
40244305055	G-4	ASTM D2974-87	415197		
40244305056	G-5	ASTM D2974-87	415197		
40244305057	G-6	ASTM D2974-87	415197		
40244305058	G-7	ASTM D2974-87	415197		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 209-4221498 WM MERCURY WASTE
Pace Project No.: 40244305

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40244305059	G-8	ASTM D2974-87	415197		
40244305060	G-9	ASTM D2974-87	415197		
40244305061	G-9A	ASTM D2974-87	415197		
40244305062	H-1	ASTM D2974-87	415197		
40244305063	H-2	ASTM D2974-87	415197		
40244305064	H-3	ASTM D2974-87	415197		
40244305065	H-4	ASTM D2974-87	415197		
40244305066	H-5	ASTM D2974-87	415197		
40244305067	H-6	ASTM D2974-87	415197		
40244305068	H-7	ASTM D2974-87	415197		
40244305069	H-8	ASTM D2974-87	415197		
40244305070	H-9	ASTM D2974-87	415197		
40244305071	H-9A	ASTM D2974-87	415197		
40244305072	I-1	ASTM D2974-87	415197		
40244305073	I-2	ASTM D2974-87	415204		
40244305074	I-3	ASTM D2974-87	415204		
40244305075	I-4	ASTM D2974-87	415204		
40244305076	I-5	ASTM D2974-87	415204		
40244305077	I-6	ASTM D2974-87	415204		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

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Chain-of-Custody Is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

10244305

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Company: Tetra Tech		Billing Information: 21211 Durand Avenue, Union Grove, WI 53182	
Address: 8413 Excelsior Dr #160, Madison, WI 53717			
Report To: Luke Specketer (luke.specketer@tetratech.com)		Email To: ssmolko@wm.com	
Copy To: Riley Eklund (riley eklund@tetratech.com)		Site Collection Info/Address: 21211 Durand Avenue, Union Grove, WI 53182	
Customer Project Name/Number: 209-4221498		State: WI County/City: Union Grove Time Zone Collected: []PT []MT [x]CT []ET	
Phone: 608-346-1677	Site/Facility ID #: WM Mercury Waste, INC.	Compliance Monitoring? [x] Yes [] No	
Email: luke.specketer@tetratech.com			
Collected By (print): Riley Eklund	Purchase Order #: Quote #: 00111458	DW PWS ID #: DW Location Code:	
Collected By (signature): Riley Eklund	Turnaround Date Required: Standard	Immediately Packed on Ice: [x] Yes [] No	
Sample Disposal: [x] Dispose as appropriate [] Return [] Archive: [] Hold:	Rush: (Expedite Charges Apply) [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day	Field Filtered (if applicable): [] Yes [x] No	
Analysis: _____			

Container Preservative Type **	Lab Project Manager:
O	
** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other	

Analyses										Lab Profile/Line:		
Container Type: Plastic (P) or Glass (G)	Plastic (P) 120 ML Total Mercury										Lab Sample Receipt Checklist:	
												Custody Seals Present/Intact
												Custody Signatures Present
												Collector Signature Present
												Bottles Intact
												Correct Bottles
												Sufficient Volume
												Samples Received on Ice
												VOA - Headspace Acceptable
												USDA Regulated Soils
										Samples in Holding Time		
										Residual Chlorine Present		
										Cl Strips		
										Sample pH Acceptable		
										pH Strips		
										Sulfide Present		
										Lead Acetate Strips:		

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)	Plastic (P) 120 ML Total Mercury
			Date	Time	Date	Time				
A-2	SL	Grab	4/28/2022	10:40 AM				1	x	
A-2A	SL	Grab	4/28/2022	10:50 AM				1	x	
A-9	SL	Grab	4/28/2022	8:10 AM				1	x	
A-9A	SL	Grab	4/28/2022	8:30 AM				1	x	
A-9B	SL	Grab	4/28/2022	8:40 AM				1	x	
A-9C	SL	Grab	4/28/2022	8:50 AM				1	x	
B-1A	SL	Grab	4/28/2022	11:00 AM				1	x	
B-2	SL	Grab	4/28/2022	1:35 PM				1	x	
B-2A	SL	Grab	4/28/2022	2:30 PM				1	x	
B-3	SL	Grab	4/28/2022	11:15 AM				1	x	

001
002
003
004
005
006
007
008
009
010

Customer Remarks / Special Conditions / Possible Hazards:	Type of Ice Used: Wet Blue Dry None	SHORT HOLDS PRESENT (<72 hours): Y N N/A
	Packing Material Used: <i>(i)</i>	Lab Tracking #:
	Radchem sample(s) screened (<500 cpm): Y N NA	Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#:
Cooler 1 Temp Upon Receipt: °C
Cooler 1 Therm Corr. Factor: °C
Cooler 1 Corrected Temp: °C
Comments: <i>(i)</i>

Relinquished by/Company: (Signature) <i>Riley Eklund</i>	Date/Time: 5/2/2022 3:20 PM	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature) <i>Fedex</i>	Date/Time: 5/3/22 1000	Received by/Company: (Signature) <i>Arthur A. Sedel</i>	Date/Time: 5/3/22 1000
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY	Trip Blank Received: Y N NA
Table #:	HCL MeOH TSP Other
Acctnum:	
Template:	
Prelogin:	
PM:	Non-Conformance(s): Page: _____
PB:	YES / NO of: _____



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Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

U 0244305

Company: Tetra Tech
Billing Information: 21211 Durand Avenue, Union Grove, WI 53182

Address: 8413 Excelsior Dr #160, Madison, WI 53717

Report To: Luke Specketer (luke.specketer@tetratech.com) Email To: ssmolko@wm.com

Copy To: Riley Eklund (riley.eklund@tetratech.com) Site Collection Info/Address: 21211 Durand Avenue, Union Grove, WI 53182

Customer Project Name/Number: 209-4221498 State: WI County/City: Union Grove Time Zone Collected: []PT []MT [x]CT []ET

Phone: 608-346-1677 Site/Facility ID #: WM Mercury Waste, INC. Compliance Monitoring? [x] Yes [] No

Email: luke.specketer@tetratech.com Collected By (print): Riley Eklund Purchase Order #: Quote #: 00111458 DW PWS ID #: DW Location Code:

Collected By (signature): Riley Eklund Turnaround Date Required: Standard Immediately Packed on Ice: [x] Yes [] No

Sample Disposal: [x] Dispose as appropriate [] Return [] Archive: [] Hold: Rush: (Expedite Charges Apply) [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day Field Filtered (if applicable): [] Yes [x] No Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID Matrix * Comp / Grab Collected (or Composite Start) Composite End Res Cl # of Ctns

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)
			Date	Time	Date	Time			
B-9	SL	Grab	4/28/2022	9:00 AM				1	x
B-9A	SL	Grab	4/28/2022	9:10 AM				1	x
B-9B	SL	Grab	4/28/2022	9:20 AM				1	x
B-9C	SL	Grab	4/28/2022	9:30 AM				1	x
C-1	SL	Grab	4/28/2022	11:30 AM				1	x
C-2	SL	Grab	4/28/2022	11:45 AM				1	x
C-9	SL	Grab	4/28/2022	9:40 AM				1	x
D-2	SL	Grab	4/28/2022	11:55 AM				1	x
D-3	SL	Grab	4/28/2022	12:10 PM				1	x
D-4	SL	Grab	4/29/2022	11:55 AM				1	x

Container Preservative Type ** Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses Lab Profile/Line:

Analyses	Lab Profile/Line:
	Lab Sample Receipt Checklist:
	Custody Seals Present/Intact Y N NA
	Custody Signatures Present Y N NA
	Collector Signature Present Y N NA
	Bottles Intact Y N NA
	Correct Bottles Y N NA
	Sufficient Volume Y N NA
	Samples Received on Ice Y N NA
	VOA - Headspace Acceptable Y N NA
	USDA Regulated Soils Y N NA
	Samples in Holding Time Y N NA
	Residual Chlorine Present Y N NA
	Cl Strips: _____
	Sample pH Acceptable Y N NA
	pH Strips: _____
	Sulfide Present Y N NA
	Lead Acetate Strips: _____

LAB USE ONLY: Lab Sample # / Comments:

Plastic (P) 120 ML Total Mercury	Comments
	011
	012
	013
	014
	015
	016
	017
	018
	019
	020

Customer Remarks / Special Conditions / Possible Hazards: Type of Ice Used: Wet Blue Dry None SHORT HOLDS PRESENT (<72 hours): Y N N/A

Packing Material Used: Radchem sample(s) screened (<500 cpm): Y N NA

Lab Tracking #: Samples received via: FEDEX UPS Client Courier Pace Courier

Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature) Date/Time: MTJL LAB USE ONLY Table #:

Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature) Date/Time: Acctnum: Template: Prelogin:

Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature) Date/Time: PM: PB:

LAB Sample Temperature Info: Temp Blank Received: Y N NA Therm ID#: Cooler 1 Temp Upon Receipt: ___ °C Cooler 1 Therm Corr. Factor: ___ °C Cooler 1 Corrected Temp: ___ °C Comments:

Trip Blank Received: Y N NA HCL MeOH TSP Other

Non Conformance(s): Page: of: YES / NO



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Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-In Number Here

W0244/305

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Company: Tetra Tech	Billing Information: 21211 Durand Avenue, Union Grove, WI 53182
Address: 8413 Excelsior Dr #160, Madison, WI 53717	
Report To: Luke Specketer (luke.specketer@tetrattech.com)	Email To: ssmolko@wm.com
Copy To: Riley Eklund (riley eklund@tetrattech.com)	Site Collection Info/Address: 21211 Durand Avenue, Union Grove, WI 53182

Customer Project Name/Number: 209-4221498	State: WI County/City: Union Grove Time Zone Collected: []PT []MT [x]CT []ET
Phone: 608-346-1677	Site/Facility ID #: WM Mercury Waste, INC.
Email: luke.specketer@tetrattech.com	Compliance Monitoring? [x] Yes [] No
Collected By (print): Riley Eklund	Purchase Order #: Quote #: 00111458
Collected By (signature): Riley Eklund	Turnaround Date Required: Standard
Sample Disposal: [x] Dispose as appropriate [] Return [] Archive: [] Hold:	Rush: (Expedite Charges Apply) [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day
	Field Filtered (if applicable): [] Yes [x] No
	Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)	Plastic (P) 120 ML Total Mercury
			Date	Time	Date	Time				
D-4C	SL	Grab	4/29/2022	12:40 PM				1	x	
D-9	SL	Grab	4/27/2022	6:25 PM				1	x	
D-9A	SL	Grab	4/27/2022	6:30 PM				1	x	
D-9B	SL	Grab	4/27/2022	6:35 PM				1	x	
D-9C	SL	Grab	4/27/2022	6:55 PM				1	x	
E-2	SL	Grab	4/27/2022	4:10 PM				1	x	
E-3	SL	Grab	4/27/2022	4:25 PM				1	x	
E-4	SL	Grab	4/27/2022	4:45 PM				1	x	
E-4A	SL	Grab	4/28/2022	3:30 PM				1	x	
E-6	SL	Grab	4/29/2022	8:50 AM				1	x	

Container Preservative Type **	Lab Project Manager:
O	
** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____	

Analyses	Lab Profile/Line:
	Lab Sample Receipt Checklist:
	Custody Seals Present/Intact Y N NA
	Custody Signatures Present Y N NA
	Collector Signature Present Y N NA
	Bottles Intact Y N NA
	Correct Bottles Y N NA
	Sufficient Volume Y N NA
	Samples Received on Ice Y N NA
	VOA - Headspace Acceptable Y N NA
	USDA Regulated Soils Y N NA
	Samples in Holding Time Y N NA
	Residual Chloride Present Y N NA
	Cl Strips: _____
	Sample pH Acceptable Y N NA
	pH Strips: _____
	Sulfide Present Y N NA
	Lead Acetate Strips: _____
	LAB USE ONLY:
	Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:	Type of Ice Used: Wet Blue Dry None	SHORT HOLDS PRESENT (<72 hours): Y N N/A
	Packing Material Used: ①	Lab Tracking #:
	Radchem sample(s) screened (<500 cpm): Y N NA	Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: _____ °C
Cooler 1 Therm Corr. Factor: _____ °C
Cooler 1 Corrected Temp: _____ °C
Comments: ①

Relinquished by/Company: (Signature) <i>Riley Eklund</i>	Date/Time: 5/2/22 3:20 PM	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature) <i>Fedex</i>	Date/Time: 5/3/22 1000	Received by/Company: (Signature) <i>Anthony Wenzel</i>	Date/Time: 5/3/22 1000
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY	Trip Blank Received: Y N NA
Table #:	HCL MeOH TSP Other
Acctnum:	
Template:	
Prelogin:	
PM:	Non Conformance(s): Page: _____
PB:	YES / NO of: _____



CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

U244305

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Company: Tetra Tech	Billing Information: 21211 Durand Avenue, Union Grove, WI 53182
Address: 8413 Excelsior Dr #160, Madison, WI 53717	

Report To: Luke Specketer (luke.specketer@tetrattech.com)	Email To: ssmolko@wm.com
Copy To: Riley Eklund (riley eklund@tetrattech.com)	Site Collection Info/Address: 21211 Durand Avenue, Union Grove, WI 53182

Customer Project Name/Number: 209-4221498	State: WI County/City: Union Grove Time Zone Collected: []PT []MT [x]CT []ET
---	---

Phone: 608-346-1677	Site/Facility ID #: WM Mercury Waste, INC.	Compliance Monitoring? [x] Yes [] No
Email: luke.specketer@tetrattech.com		
Collected By (print): Riley Eklund	Purchase Order #: Quote #: 00111458	DW PWS ID #: DW Location Code:
Collected By (signature): Riley Eklund	Turnaround Date Required: Standard	Immediately Packed on Ice: [x] Yes [] No
Sample Disposal: [x] Dispose as appropriate [] Return [] Archive: [] Hold:	Rush: (Expedite Charges Apply) [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day	Field Filtered (if applicable): [] Yes [x] No

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)
			Date	Time	Date	Time			
E-6A	SL	Grab	4/29/2022	10:15 AM				1	x
E-7	SL	Grab	4/29/2022	10:45 AM				1	x
E-7A	SL	Grab	4/29/2022	11:15 AM				1	x
E-9	SL	Grab	4/27/2022	5:40 PM				1	x
E-9A	SL	Grab	4/27/2022	5:50 PM				1	x
E-9B	SL	Grab	4/27/2022	6:05 PM				1	x
E-9C	SL	Grab	4/27/2022	6:10 PM				1	x
F-1	SL	Grab	4/27/2022	10:45 AM				1	x
F-2	SL	Grab	4/27/2022	10:55 AM				1	x
F-3	SL	Grab	4/27/2022	11:05 AM				1	x

Container Preservative Type **	Lab Project Manager:
O	

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips:	
Sample pH Acceptable	Y N NA
pH Strips:	
Sulfide Present	Y N NA
Lead Acetate Strips:	

LAB USE ONLY: Lab Sample # / Comments:

031
032
033
034
035
036
037
038
039
040

Customer Remarks / Special Conditions / Possible Hazards:	Type of Ice Used: Wet Blue Dry None <input checked="" type="radio"/>	SHORT HOLDS PRESENT (<72 hours): Y N N/A
	Packing Material Used: <input checked="" type="radio"/>	Lab Tracking #:
	Radchem sample(s) screened (<500 cpm): Y N NA	Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#: _____

Cooler 1 Temp Upon Receipt: ____ oC

Cooler 1 Therm Corr. Factor: ____ oC

Cooler 1 Corrected Temp: ____ oC

Comments:

Relinquished by/Company: (Signature) <i>Riley Eklund</i>	Date/Time: 5/2/2022 3:20 PM	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature) <i>Fedex</i>	Date/Time: 5/3/22 1000	Received by/Company: (Signature) <i>Anthony Wendel</i>	Date/Time: 5/3/22 1000
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY	
Table #:	Acctnum:
	Template:
	Prelogin:
PM:	
PB:	

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: _____ of: _____



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LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

40244305

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Company: Tetra Tech
 Address: 8413 Excelsior Dr #160, Madison, WI 53717
 Report To: Luke Specketer (luke.specketer@tetratech.com)
 Copy To: Riley Eklund (riley eklund@tetratech.com)
 Customer Project Name/Number: 209-4221498

Billing Information: 21211 Durand Avenue, Union Grove, WI 53182
 Email To: ssmolko@wm.com
 Site Collection Info/Address: 21211 Durand Avenue, Union Grove, WI 53182
 State: WI County/City: Union Grove Time Zone Collected: [JPT [] MT [x] CT [] ET

Phone: 608-346-1677
 Email: luke.specketer@tetratech.com
 Collected By (print): Riley Eklund
 Site/Facility ID #: WM Mercury Waste, INC.
 Compliance Monitoring? [x] Yes [] No
 Purchase Order #: Quote #: 00111458
 Turnaround Date Required: Standard
 DW PWS ID #: DW Location Code:
 Immediately Packed on Ice: [x] Yes [] No
 Sample Disposal: [x] Dispose as appropriate [] Return [] Archive: [] Hold:
 Rush: (Expedite Charges Apply) [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day
 Field Filtered (if applicable): [] Yes [x] No
 Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)
			Date	Time	Date	Time			
F-4	SL	Grab	4/27/2022	11:15 AM				1	x
F-4A	SL	Grab	4/27/2022	11:40 AM				1	x
F-5	SL	Grab	4/27/2022	1:15 PM				1	x
F-5A	SL	Grab	4/27/2022	1:30 PM				1	x
F-6	SL	Grab	4/27/2022	1:40 PM				1	x
F-6A	SL	Grab	4/27/2022	1:50 PM				1	x
F-7	SL	Grab	4/27/2022	2:55 PM				1	x
F-7A	SL	Grab	4/27/2022	3:05 PM				1	x
F-8	SL	Grab	4/27/2022	3:20 PM				1	x
F-9	SL	Grab	4/27/2022	3:40 PM				1	x

Container Preservative Type **
 Lab Project Manager:
 ** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses										Lab Profile/Line:	
Plastic (P) 120 ML Total Mercury										Lab Sample Receipt Checklist:	
										Custody Seals Present/Intact	Y N NA
										Custody Signatures Present	Y N NA
										Collector Signature Present	Y N NA
										Bottles Intact	Y N NA
										Correct Bottles	Y N NA
										Sufficient Volume	Y N NA
										Samples Received on Ice	Y N NA
										VOA - Headspace Acceptable	Y N NA
										USDA Regulated Soils	Y N NA
										Samples in Holding Time	Y N NA
										Residual Chlorine Present	Y N NA
										Cl Strips:	
										Sample pH Acceptable	Y N NA
										pH Strips:	
										Sulfide Present	Y N NA
										Lead Acetate Strips:	
										LAB USE ONLY:	
										Lab Sample # / Comments:	

*041
042
043
044
045
046
047
048
049
050*

Customer Remarks / Special Conditions / Possible Hazards:
 Type of Ice Used: Wet Blue Dry None
 Packing Material Used: *1*
 Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A
 Lab Tracking #:
 Samples received via:
 FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
 Temp Blank Received: Y N NA
 Therm ID#:
 Cooler 1 Temp Upon Receipt: °C
 Cooler 1 Therm Corr. Factor: °C
 Cooler 1 Corrected Temp: °C
 Comments: *1*

Relinquished by/Company: (Signature) *Riley Eklund*
 Date/Time: *5/2/2022 3:20 PM*
 Received by/Company: (Signature) *Anthony Wendel*
 Date/Time: *5/3/22 1000*

MTJL LAB USE ONLY
 Table #:
 Acctnum:
 Template:
 Prelogin:
 PM:
 PB:
 Trip Blank Received: Y N NA
 HCl MeOH TSP Other
 Non Conformance(s): Page: _____
 YES / NO of: _____



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40244305

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Company: Tetra Tech
 Address: 8413 Excelsior Dr #160, Madison, WI 53717
 Report To: Luke Specketer (luke.specketer@tetratech.com) Email To: ssmolko@wm.com
 Copy To: Riley Eklund (riley.eklund@tetratech.com) Site Collection Info/Address: 21211 Durand Avenue, Union Grove, WI 53182

Container Preservative Type **
 Lab Project Manager:
 ** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Customer Project Name/Number: 209-4221498 State: WI County/City: Union Grove Time Zone Collected: []PT []MT [x]CT []ET
 Phone: 608-346-1677 Site/Facility ID #: WM Mercury Waste, INC. Compliance Monitoring? [x] Yes [] No
 Email: luke.specketer@tetratech.com
 Collected By (print): Riley Eklund Purchase Order #: Quote #: 00111458 DW PWS ID #: DW Location Code:
 Collected By (signature): Riley Eklund Turnaround Date Required: Standard Immediately Packed on Ice: [x] Yes [] No
 Sample Disposal: Rush: (Expedite Charges Apply) Field Filtered (if applicable):
 [x] Dispose as appropriate [] Same Day [] Next Day [] Yes [x] No
 [] Return [] 2 Day [] 3 Day
 [] Archive: [] 4 Day [] 5 Day
 [] Hold: Analysis: _____

Analyses										Lab Profile/Line:		
Plastic (P) 120 ML Total Mercury	Lab Sample Receipt Checklist:										Lab Sample Receipt Checklist:	
	Custody Seals Present/Intact	Y	N	NA	Custody Seals Present/Intact	Y	N	NA	Custody Signatures Present	Y	N	NA
	Collector Signature Present	Y	N	NA	Collector Signature Present	Y	N	NA	Bottles Intact	Y	N	NA
	Bottles Intact	Y	N	NA	Bottles Intact	Y	N	NA	Correct Bottles	Y	N	NA
	Correct Bottles	Y	N	NA	Correct Bottles	Y	N	NA	Sufficient Volume	Y	N	NA
	Sufficient Volume	Y	N	NA	Sufficient Volume	Y	N	NA	Samples Received on Ice	Y	N	NA
	Samples Received on Ice	Y	N	NA	Samples Received on Ice	Y	N	NA	VOA - Headspace Acceptable	Y	N	NA
	VOA - Headspace Acceptable	Y	N	NA	VOA - Headspace Acceptable	Y	N	NA	USDA Regulated Soils	Y	N	NA
	USDA Regulated Soils	Y	N	NA	USDA Regulated Soils	Y	N	NA	Samples in Holding Time	Y	N	NA
	Samples in Holding Time	Y	N	NA	Samples in Holding Time	Y	N	NA	Residual Chlorine Present	Y	N	NA
Residual Chlorine Present	Y	N	NA	Residual Chlorine Present	Y	N	NA	Cl Strips:				
Cl Strips:				Cl Strips:				Sample pH Acceptable	Y	N	NA	
Sample pH Acceptable	Y	N	NA	Sample pH Acceptable	Y	N	NA	pH Strips:				
pH Strips:				pH Strips:				Sulfide Present	Y	N	NA	
Sulfide Present	Y	N	NA	Sulfide Present	Y	N	NA	Lead Acetate Strips:				
Lead Acetate Strips:				Lead Acetate Strips:								

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)
			Date	Time	Date	Time			
F-9A	SL	Grab	4/27/2022	3:45 PM				1	x
G-1	SL	Grab	4/27/2022	8:15 AM				1	x
G-2	SL	Grab	4/27/2022	9:00 AM				1	x
G-3	SL	Grab	4/27/2022	9:10 AM				1	x
G-4	SL	Grab	4/27/2022	9:20 AM				1	x
G-5	SL	Grab	4/27/2022	9:30 AM				1	x
G-6	SL	Grab	4/27/2022	9:35 AM				1	x
G-7	SL	Grab	4/27/2022	9:45 AM				1	x
G-8	SL	Grab	4/27/2022	10:00 AM				1	x
G-9	SL	Grab	4/27/2022	10:10 AM				1	x

Analyses										Lab Profile/Line:
										LAB USE ONLY: Lab Sample # / Comments:

051
052
053
054
055
056
057
058
059
060

Customer Remarks / Special Conditions / Possible Hazards:
 Type of Ice Used: Wet Blue Dry None
 Packing Material Used: 1
 Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A
 Lab Tracking #:
 Samples received via:
 FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
 Temp Blank Received: Y N NA
 Therm ID#: _____
 Cooler 1 Temp Upon Receipt: ____ °C
 Cooler 1 Therm Corr. Factor: ____ °C
 Cooler 1 Corrected Temp: ____ °C
 Comments:

Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature) Date/Time:
 Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature) Date/Time:
 Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature) Date/Time:

MTJL LAB USE ONLY
 Table #:
 Acctnum:
 Template:
 Prelogin:
 PM:
 PB:
 Trip Blank Received: Y N NA
 HCL MeOH TSP Other
 Non Conformance(s): Page: _____
 YES / NO of: _____



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10244305

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Company: Tetra Tech
Address: 8413 Excelsior Dr #160, Madison, WI 53717

Billing Information: 21211 Durand Avenue, Union Grove, WI 53182

Report To: Luke Specketer (luke.specketer@tetratech.com)
Email To: ssmolko@wm.com

Copy To: Riley Eklund (riley eklund@tetratech.com)
Site Collection Info/Address: 21211 Durand Avenue, Union Grove, WI 53182

Customer Project Name/Number: 209-4221498
State: WI County/City: Union Grove Time Zone Collected: []PT []MT [x]CT []ET

Phone: 608-346-1677
Email: luke.specketer@tetratech.com

Site/Facility ID #: WM Mercury Waste, INC.
Compliance Monitoring? [x] Yes [] No

Collected By (print): Riley Eklund
Purchase Order #: 00111458
DW PWS ID #:
DW Location Code:

Collected By (signature): Riley Eklund
Turnaround Date Required: Standard
Immediately Packed on Ice: [x] Yes [] No

Sample Disposal: [x] Dispose as appropriate [] Return [] Archive: [] Hold:
Rush: (Expedite Charges Apply) [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day
Field Filtered (if applicable): [] Yes [x] No
Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID Matrix * Comp / Grab Collected (or Composite Start) Composite End Res Cl # of Ctns

G-9A SL Grab 4/27/2022 10:15 AM 1 x
H-1 SL Grab 4/26/2022 3:30 PM 1 x
H-2 SL Grab 4/26/2022 4:10 PM 1 x
H-3 SL Grab 4/26/2022 4:20 PM 1 x
H-4 SL Grab 4/26/2022 4:40 PM 1 x
H-5 SL Grab 4/26/2022 5:00 PM 1 x
H-6 SL Grab 4/26/2022 5:10 PM 1 x
H-7 SL Grab 4/26/2022 5:20 PM 1 x
H-8 SL Grab 4/26/2022 5:35 PM 1 x
H-9 SL Grab 4/26/2022 5:50 PM 1 x

Container Type: Plastic (P) or Glass (G)
Plastic (P) 120 ML Total Mercury

Container Preservative Type **
Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses
Lab Profile/Line:

Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips: _____
Sample pH Acceptable Y N NA
pH Strips: _____
Sulfide Present Y N NA
Lead Acetate Strips: _____

LAB USE ONLY:
Lab Sample # / Comments:

061
062
063
064
065
066
067
068
069
070

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)	Composite End	Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)	Plastic (P) 120 ML Total Mercury	Analyses	Lab Profile/Line
G-9A	SL	Grab	4/27/2022 10:15 AM			1	x			061
H-1	SL	Grab	4/26/2022 3:30 PM			1	x			062
H-2	SL	Grab	4/26/2022 4:10 PM			1	x			063
H-3	SL	Grab	4/26/2022 4:20 PM			1	x			064
H-4	SL	Grab	4/26/2022 4:40 PM			1	x			065
H-5	SL	Grab	4/26/2022 5:00 PM			1	x			066
H-6	SL	Grab	4/26/2022 5:10 PM			1	x			067
H-7	SL	Grab	4/26/2022 5:20 PM			1	x			068
H-8	SL	Grab	4/26/2022 5:35 PM			1	x			069
H-9	SL	Grab	4/26/2022 5:50 PM			1	x			070

Customer Remarks / Special Conditions / Possible Hazards: Type of Ice Used: Wet Blue Dry None
Packing Material Used: ①
Radchem sample(s) screened (<500 cpm): Y N NA
SHORT HOLDS PRESENT (<72 hours): Y N N/A
Lab Tracking #:
Samples received via: FEDEX UPS Client Courier Pace Courier
LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#:
Cooler 1 Temp Upon Receipt: °C
Cooler 1 Therm Corr. Factor: °C
Cooler 1 Corrected Temp: °C
Comments: ①

Relinquished by/Company: (Signature) Date/Time: 5/2/2022 3:20 PM Received by/Company: (Signature) Date/Time: MTJL LAB USE ONLY Table #:
Relinquished by/Company: (Signature) Date/Time: 5/3/22 1000 Anthony Wendel Date/Time: 5/3/22 1000 Acctnum: Template: Prelogin:
Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature) Date/Time: PM: PB: Trip Blank Received: Y N NA HCL MeOH TSP Other
Non-Conformance(s): Page: of: YES / NO



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40244305

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Company: Tetra Tech	Billing Information: 21211 Durand Avenue, Union Grove, WI 53182
Address: 8413 Excelsior Dr #160, Madison, WI 53717	
Report To: Luke Specketer (luke.specketer@tetrattech.com)	Email To: ssmolko@wm.com
Copy To: Riley Eklund (riley eklund@tetrattech.com)	Site Collection Info/Address: 21211 Durand Avenue, Union Grove, WI 53182
Customer Project Name/Number: 209-4221498	State: WI County/City: Union Grove Time Zone Collected: []PT []MT [x]CT []ET

Container Preservative Type **	Lab Project Manager:
O	
** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other	

Phone: 608-346-1677	Site/Facility ID #: WM Mercury Waste, INC.	Compliance Monitoring? [x] Yes [] No
Email: luke.specketer@tetrattech.com		
Collected By (print): Riley Eklund	Purchase Order #: Quote #: 00111458	DW PWS ID #: DW Location Code:
Collected By (signature): Riley Eklund	Turnaround Date Required: Standard	Immediately Packed on Ice: [x] Yes [] No
Sample Disposal: [x] Dispose as appropriate [] Return [] Archive: [] Hold:	Rush: (Expedite Charges Apply) [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day	Field Filtered (if applicable): [] Yes [x] No
Analysis: _____		

Analyses										Lab Profile/Line:
Plastic (P) 120 ML Total Mercury										Lab Sample Receipt Checklist:
										Custody Seals Present/Intact Y N NA
										Custody Signatures Present Y N NA
										Collector Signature Present Y N NA
										Bottles Intact Y N NA
										Correct Bottles Y N NA
										Sufficient Volume Y N NA
										Samples Received on Ice Y N NA
										VOA - Headspace Acceptable Y N NA
										USDA Regulated Soils Y N NA
									Samples in Holding Time Y N NA	
									Residual Chlorine Present Y N NA	
									Cl Strips: _____	
									Sample pH Acceptable Y N NA	
									pH Strips: _____	
									Sulfide Present Y N NA	
									Lead Acetate Strips: _____	

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)
			Date	Time	Date	Time			
H-9A	SL	Grab	4/26/2022	6:10 PM				1	x
I-1	SL	Grab	4/26/2022	10:25 AM				1	x
I-2	SL	Grab	4/26/2022	2:00 PM				1	x
I-3	SL	Grab	4/26/2022	2:25 PM				1	x
I-4	SL	Grab	4/26/2022	2:45 PM				1	x
I-5	SL	Grab	4/26/2022	3:00 PM				1	x
I-6	SL	Grab	4/26/2022	3:15 PM				1	x
	SL	Grab						1	x
	SL	Grab						1	x
	SL	Grab						1	x

LAB USE ONLY:										
Lab Sample # / Comments:										
										071
										072
										073
										074
										075
										076
										077

Customer Remarks / Special Conditions / Possible Hazards:	Type of Ice Used: Wet Blue Dry None	SHORT HOLDS PRESENT (<72 hours): Y N N/A
	Packing Material Used: ①	Lab Tracking #:
	Radchem sample(s) screened (<500 cpm): Y N NA	Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: ____ °C
Cooler 1 Therm Corr. Factor: ____ °C
Cooler 1 Corrected Temp: ____ °C
Comments: ①

Relinquished by/Company: (Signature) <i>Riley Eklund</i>	Date/Time: 5/2/2022 3:20 PM	Received by/Company: (Signature) _____	Date/Time: _____
Relinquished by/Company: (Signature) <i>Fedex</i>	Date/Time: 5/3/22 1000	Received by/Company: (Signature) <i>Anthony Wendel</i>	Date/Time: 5/3/22 1000
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY	
Table #:	
Acctnum:	
Template:	
Prelogin:	
PM:	
PB:	
Trip Blank Received: Y N NA	HCL MeOH TSP Other
Non-Conformance(s): YES / NO	Page: _____ of: _____



CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

U0244305

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Company: Tetra Tech
Billing Information: 21211 Durand Avenue, Union Grove, WI 53182

Address: 8413 Excelsior Dr #160, Madison, WI 53717

Report To: Luke Specketer (luke.specketer@tetratech.com) Email To: ssmolko@wm.com

Copy To: Riley Eklund (riley eklund@tetratech.com) Site Collection Info/Address: 21211 Durand Avenue, Union Grove, WI 53182

Customer Project Name/Number: 209-4221498 State: WI County/City: Union Grove Time Zone Collected: []PT []MT [x]CT []ET

Phone: 608-346-1677 Site/Facility ID #: WM Mercury Waste, INC. Compliance Monitoring? [x] Yes [] No

Email: luke.specketer@tetratech.com Collected By (print): Riley Eklund Purchase Order #: DW PWS ID #: Quote #: 00111458 DW Location Code:

Collected By (signature): Riley Eklund Turnaround Date Required: Standard Immediately Packed on Ice: [x] Yes [] No

Sample Disposal: [x] Dispose as appropriate [] Return [] Archive: [] Hold: Rush: (Expedite Charges Apply) [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day Field Filtered (if applicable): [] Yes [x] No Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID Matrix * Comp / Grab Collected (or Composite Start) Composite End Res Cl # of Ctns

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
RINSE # 1	WW	Grab	4/26/2022	6:00 PM				1
RINSE # 2	WW	Grab	4/27/2022	11:30 AM				1
RINSE # 3	WW	Grab	4/27/2022	6:00 PM				1
RINSE # 4	WW	Grab	4/28/2022	10:00 AM				1
RINSE # 5	WW	Grab	4/29/2022	1:15 PM				1

Container Type: Plastic (P) or Glass (G)
Plastic (P) 250 ML Total Mercury

Container Preservative Type **

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Analyses	Lab Profile/Line:
	Lab Sample Receipt Checklist:
	Custody Seals Present/Intact Y N NA
	Custody Signatures Present Y N NA
	Collector Signature Present Y N NA
	Bottles Intact Y N NA
	Correct Bottles Y N NA
	Sufficient Volume Y N NA
	Samples Received on Ice Y N NA
	VOA - Headspace Acceptable Y N NA
	USDA Regulated <u>Boils</u> Y N NA
	Samples in Holding Time Y N NA
	Residual Chlorine Present Y N NA
	Cl Strips: _____
	Sample pH Acceptable Y N NA
	pH Strips: _____
	Sulfide Present Y N NA
	Lead Acetate Strips: _____
	LAB USE ONLY:
	Lab Sample # / Comments:

078
079
080
081
082

Customer Remarks / Special Conditions / Possible Hazards: Type of Ice Used: Wet Blue Dry None

Packing Material Used: ①

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#: _____
Cooler 1 Temp Upon Receipt: _____ °C
Cooler 1 Therm Corr. Factor: _____ °C
Cooler 1 Corrected Temp: _____ °C

Relinquished by/Company: (Signature) Date/Time: 5/2/2022 3:20 PM

Received by/Company: (Signature) Date/Time: 5/3/22 1000

MTJL LAB USE ONLY Table #:

Relinquished by/Company: (Signature) Date/Time: 5/3/22 1000

Received by/Company: (Signature) Date/Time: 5/3/22 1000

Acctnum: Template: Prelogin: PM: PB:

Trip Blank Received: Y N NA HCL MeOH TSP Other

Non Conformance(s): Page: of: YES / NO

Client Name: Tetra Tech

Sample Preservation Receipt Form
Project #: U0244305

Pace Lab #	Glass							Plastic					Vials					Jars				General			VOA Vials (>6mm)	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)					
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JG9U	JG9U	WG9U	WP9U	SP5T								ZPLC	GN			
021																																				2.5 / 5 / 10
022																																				2.5 / 5 / 10
023																																				2.5 / 5 / 10
024																																				2.5 / 5 / 10
025																																				2.5 / 5 / 10
026																																				2.5 / 5 / 10
027																																				2.5 / 5 / 10
028																																				2.5 / 5 / 10
029																																				2.5 / 5 / 10
030																																				2.5 / 5 / 10
031																																				2.5 / 5 / 10
032																																				2.5 / 5 / 10
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034																																				2.5 / 5 / 10
035																																				2.5 / 5 / 10
036																																				2.5 / 5 / 10
037																																				2.5 / 5 / 10
038																																				2.5 / 5 / 10
039																																				2.5 / 5 / 10
040																																				2.5 / 5 / 10
041																																				2.5 / 5 / 10
042																																				2.5 / 5 / 10
043																																				2.5 / 5 / 10
044																																				2.5 / 5 / 10
045																																				2.5 / 5 / 10
046																																				2.5 / 5 / 10
047																																				2.5 / 5 / 10
048																																				2.5 / 5 / 10

Client Name: Tetra Tech

Sample Preservation Receipt Form
Project #: W0244305

Pace Lab #	Glass							Plastic					Vials					Jars				General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)						
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T								ZPLC	GN				
049																																					2.5 / 5 / 10
050																																					2.5 / 5 / 10
051																																					2.5 / 5 / 10
052																																					2.5 / 5 / 10
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072																																					2.5 / 5 / 10
073																																					2.5 / 5 / 10
074																																					2.5 / 5 / 10
075																																					2.5 / 5 / 10
076																																					2.5 / 5 / 10

Sample Condition Upon Receipt Form (SCUR)

Project #: **WO# : 40244305**


Client Name: Tetra Tech

Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____

Tracking #: MA# 2726 7725 5335

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR-107 Type of Ice: Wet Blue Dry None

Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 44 /Corr: 38,3.8

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Person examining contents:
 Date: 5/3/22 /Initials: AW
 Labeled By Initials: SKW

Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>028; "4:40PM"</u> <u>5/3/22 AW</u>
-Includes date/time/ID/Analysis Matrix: <u>S.W</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample login

SIWP SAMPLING ANALYTICAL RESULTS

June 07, 2022

Luke Specketer
TETRATECH - Madison
8413 Excelsior Drive
Madison, WI 53717

RE: Project: 209-4221563 WM MERCURY WASTE
Pace Project No.: 40245578

Dear Luke Specketer:

Enclosed are the analytical results for sample(s) received by the laboratory on May 26, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40245578

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40245578

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40245578001	S1	Solid	05/24/22 11:00	05/26/22 10:15
40245578002	S2	Solid	05/24/22 11:30	05/26/22 10:15
40245578003	S3	Solid	05/24/22 11:50	05/26/22 10:15
40245578004	S4	Solid	05/24/22 12:45	05/26/22 10:15
40245578005	S5	Solid	05/24/22 13:10	05/26/22 10:15
40245578006	S6	Solid	05/24/22 13:30	05/26/22 10:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40245578

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40245578001	S1	EPA 7471	AJT	1
		ASTM D2974-87	K1S	1
40245578002	S2	EPA 7471	AJT	1
		ASTM D2974-87	K1S	1
40245578003	S3	EPA 7471	AJT	1
		ASTM D2974-87	K1S	1
40245578004	S4	EPA 7471	AJT	1
		ASTM D2974-87	K1S	1
40245578005	S5	EPA 7471	AJT	1
		ASTM D2974-87	K1S	1
40245578006	S6	EPA 7471	AJT	1
		ASTM D2974-87	K1S	1

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40245578

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40245578001	S1					
EPA 7471	Mercury	3.0	mg/kg	0.081	06/07/22 13:42	
ASTM D2974-87	Percent Moisture	17.0	%	0.10	05/27/22 09:19	
40245578002	S2					
EPA 7471	Mercury	1.1	mg/kg	0.046	06/07/22 13:19	
ASTM D2974-87	Percent Moisture	25.8	%	0.10	05/27/22 09:19	
40245578003	S3					
EPA 7471	Mercury	0.66	mg/kg	0.041	06/07/22 13:21	
ASTM D2974-87	Percent Moisture	15.6	%	0.10	05/27/22 09:19	
40245578004	S4					
EPA 7471	Mercury	753	mg/kg	39.6	06/07/22 13:44	
ASTM D2974-87	Percent Moisture	21.6	%	0.10	05/27/22 09:19	
40245578005	S5					
EPA 7471	Mercury	185	mg/kg	22.2	06/07/22 13:47	
ASTM D2974-87	Percent Moisture	21.3	%	0.10	05/27/22 09:19	
40245578006	S6					
EPA 7471	Mercury	1.9	mg/kg	0.039	06/07/22 13:39	
ASTM D2974-87	Percent Moisture	15.8	%	0.10	05/27/22 09:19	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40245578

Sample: S1 **Lab ID: 40245578001** Collected: 05/24/22 11:00 Received: 05/26/22 10:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	3.0	mg/kg	0.081	0.023	2	06/06/22 12:40	06/07/22 13:42	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	17.0	%	0.10	0.10	1		05/27/22 09:19		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE
Pace Project No.: 40245578

Sample: S2 **Lab ID: 40245578002** Collected: 05/24/22 11:30 Received: 05/26/22 10:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	1.1	mg/kg	0.046	0.013	1	06/06/22 12:40	06/07/22 13:19	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	25.8	%	0.10	0.10	1		05/27/22 09:19		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40245578

Sample: S3 **Lab ID: 40245578003** Collected: 05/24/22 11:50 Received: 05/26/22 10:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.66	mg/kg	0.041	0.012	1	06/06/22 12:40	06/07/22 13:21	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	15.6	%	0.10	0.10	1		05/27/22 09:19		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40245578

Sample: S4 **Lab ID: 40245578004** Collected: 05/24/22 12:45 Received: 05/26/22 10:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	753	mg/kg	39.6	11.3	1000	06/06/22 12:40	06/07/22 13:44	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	21.6	%	0.10	0.10	1		05/27/22 09:19		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE
Pace Project No.: 40245578

Sample: S5 **Lab ID: 40245578005** Collected: 05/24/22 13:10 Received: 05/26/22 10:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	185	mg/kg	22.2	6.4	500	06/06/22 12:40	06/07/22 13:47	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	21.3	%	0.10	0.10	1		05/27/22 09:19		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40245578

Sample: S6 **Lab ID: 40245578006** Collected: 05/24/22 13:30 Received: 05/26/22 10:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	1.9	mg/kg	0.039	0.011	1	06/06/22 12:40	06/07/22 13:39	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	15.8	%	0.10	0.10	1		05/27/22 09:19		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40245578

QC Batch: 417512

Analysis Method: EPA 7471

QC Batch Method: EPA 7471

Analysis Description: 7471 Mercury

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40245578001, 40245578002, 40245578003, 40245578004, 40245578005, 40245578006

METHOD BLANK: 2404330

Matrix: Solid

Associated Lab Samples: 40245578001, 40245578002, 40245578003, 40245578004, 40245578005, 40245578006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.010	0.035	06/07/22 12:30	

LABORATORY CONTROL SAMPLE: 2404331

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.83	0.81	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2404332 2404333

Parameter	Units	2404332		2404333		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/kg	0.065	0.93	0.97	0.99	98	101	85-115	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40245578

QC Batch:	416892	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40245578001, 40245578002, 40245578003, 40245578004, 40245578005, 40245578006

SAMPLE DUPLICATE: 2400643

Parameter	Units	40245496001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.2	5.2	1	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40245578

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40245578

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40245578001	S1	EPA 7471	417512	EPA 7471	417539
40245578002	S2	EPA 7471	417512	EPA 7471	417539
40245578003	S3	EPA 7471	417512	EPA 7471	417539
40245578004	S4	EPA 7471	417512	EPA 7471	417539
40245578005	S5	EPA 7471	417512	EPA 7471	417539
40245578006	S6	EPA 7471	417512	EPA 7471	417539
40245578001	S1	ASTM D2974-87	416892		
40245578002	S2	ASTM D2974-87	416892		
40245578003	S3	ASTM D2974-87	416892		
40245578004	S4	ASTM D2974-87	416892		
40245578005	S5	ASTM D2974-87	416892		
40245578006	S6	ASTM D2974-87	416892		

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40245578



CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Company: **Tetra Tech**
 Address: **8413 Excelsior Dr #160, Madison, WI 53717**
 Report To: **Luke Specketer (luke.specketer@tetrattech.com)**
 Copy To: **Riley Eklund (riley.eklund@tetrattech.com)**
 Customer Project Name/Number: **209-4221563**
 Phone: **608-346-1677**
 Email: **luke.specketer@tetrattech.com**
 Collected By (print): **Riley Eklund**
 Collected By (signature): *Riley Eklund*
 Sample Disposal: Dispose as appropriate
 Return
 Archive: _____
 Hold: _____

Billing Information: **21211 Durand Avenue, Union Grove, WI 53182**
 Email To: **ssmolko@wm.com**
 Site Collection Info/Address: **21211 Durand Avenue, Union Grove, WI 53182**
 State: **WI** County/City: **Union Grove** Time Zone Collected: []PT []MT [x]CT []ET
 Compliance Monitoring? Yes [] No
 DW PWS ID #: _____
 DW Location Code: _____
 Immediately Packed on Ice: Yes [] No
 Field Filtered (if applicable): Yes No
 Analysis: _____

Container Preservative Type **
 U _____
 Lab Project Manager: _____
 ** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Analyses										Lab Profile/Line:
Plastic (P) 120 ML Total Mercury										Lab Sample Receipt Checklist: Custody Seals Present/Intact Y N NA Custody Signatures Present Y N NA Collector Signature Present Y N NA Bottles Intact Y N NA Correct Bottles Y N NA Sufficient Volume Y N NA Samples Received on Ice Y N NA VOA - Headspace Acceptable Y N NA USDA Regulated Soils Y N NA Samples in Holding Time Y N NA Residual Chlorine Present Y N NA Cl Strips: _____ Sample pH Acceptable Y N NA pH Strips: _____ Sulfide Present Y N NA Lead Acetate Strips: _____
										LAB USE ONLY: Lab Sample # / Comments: 5126122mp 5/26/22 mp 0081 002 003 004 005 006 00 5126122mp

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)
			Date	Time	Date	Time			
S1	SL	Grab	5/24/2022	11:00				1	x
S2	SL	Grab	5/24/2022	11:30				1	x
S3	SL	Grab	5/24/2022	11:50				1	x
S4	SL	Grab	5/24/2022	12:45				1	x
S5	SL	Grab	5/24/2022	13:10				1	x
S6	SL	Grab	5/24/2022	13:30				1	x

Customer Remarks / Special Conditions / Possible Hazards: _____
 Type of Ice Used: Wet Blue Dry None
 Packing Material Used: _____
 Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N NA
 Lab Tracking #: _____
 Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
 Temp Blank Received: _____
 Therm ID#: _____
 Cooler 1 Temp Upon Receipt: _____
 Cooler 1 Therm Corr. Factor: _____
 Cooler 1 Corrected Temp: _____
 Comments: _____

Relinquished by/Company: (Signature) *Riley Eklund* Date/Time: **5/25/2022 9:25 AM**
 Relinquished by/Company: (Signature) *Fedex* Date/Time: **5/26/22 10:15**
 Relinquished by/Company: (Signature) _____ Date/Time: _____

Received by/Company: (Signature) _____ Date/Time: _____
 Received by/Company: (Signature) *Morgan D. ...* Date/Time: **5/26/22**
 Received by/Company: (Signature) _____ Date/Time: _____

MTJL LAB USE ONLY
 Table #: _____
 Acctnum: _____
 Template: _____
 Prelogin: _____
 PM: _____
 PB: _____
 Trip Blank Received: Y N NA
 HCL MeOH TSP Other
 Non Conformance(s): _____ Page: _____
 YES / NO of: _____

Sample Preservation Receipt Form

Client Name: TetraTech

Project # 41245578

All containers needing preservation have been checked and noted below: Yes No N/A

Initial when completed:

Date/Time:

Lab Lot# of pH paper:

Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass					Plastic					Vials					Jars				General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU							
001																													2.5 / 5 / 10
002																													2.5 / 5 / 10
003																													2.5 / 5 / 10
004																													2.5 / 5 / 10
005																													2.5 / 5 / 10
006																													2.5 / 5 / 10
007																													2.5 / 5 / 10
008																													2.5 / 5 / 10
009																													2.5 / 5 / 10
010																													2.5 / 5 / 10
011																													2.5 / 5 / 10
012																													2.5 / 5 / 10
013																													2.5 / 5 / 10
014																													2.5 / 5 / 10
015																													2.5 / 5 / 10
016																													2.5 / 5 / 10
017																													2.5 / 5 / 10
018																													2.5 / 5 / 10
019																													2.5 / 5 / 10
020																													2.5 / 5 / 10

5/26/20
MP

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm): Yes No N/A *If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9A	40 mL clear ascorbic	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG5U	100 mL amber glass unpres			VG9D	40 mL clear vial DI	ZPLC	ziploc bag
AG2S	500 mL amber glass H2SO4					GN	
BG3U	250 mL clear glass unpres						

Sample Condition Upon Receipt Form (SCUR)

Client Name: TetraTech
 Courier: CS Logistics Fed Ex Speedee UPS Walto
 Client Pace Other:

Project #: _____

WO#: 40245578



Tracking #: 2735 3424 9043
 Custody Seal on Cooler/Box Present: yes no Seals intact: yes no
 Custody Seal on Samples Present: yes no Seals intact: yes no
 Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR - III Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun
 Cooler Temperature Uncorr: _____ /Corr: 0°
 Temp Blank Present: yes no Biological Tissue is Frozen: yes no
 Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:
 Date: 5/26/22 Initials: MP
 Labeled By Initials: ADW

Chain of Custody Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out: <u>5/26/22 MP</u> <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>Pg# 5126122 MP</u>
Chain of Custody Relinquished: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No -VOA Samples frozen upon receipt <input type="checkbox"/> Yes <input type="checkbox"/> No	5. Date/Time:
Short Hold Time Analysis (<72hr): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume: For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No -Pace Containers Used: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A -Pace IR Containers Used: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	9.
Containers Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A -Includes date/time/ID/Analysis Matrix: <u>S</u>	12.
Trip Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Trip Blank Custody Seals Present <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Pace Trip Blank Lot # (if purchased): _____	13.

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample login
 Page 2 of 2

June 07, 2022

Luke Specketer
TETRATECH - Madison
8413 Excelsior Drive
Madison, WI 53717

RE: Project: 209-4221563 WM MERCURY WASTE
Pace Project No.: 40245577

Dear Luke Specketer:

Enclosed are the analytical results for sample(s) received by the laboratory on May 26, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40245577

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40245577

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40245577001	S1A	Solid	05/24/22 11:15	05/26/22 10:15
40245577002	S2A	Solid	05/24/22 11:40	05/26/22 10:15
40245577003	S3A	Solid	05/24/22 12:00	05/26/22 10:15
40245577004	S4A	Solid	05/24/22 13:00	05/26/22 10:15
40245577005	S5A	Solid	05/24/22 13:20	05/26/22 10:15
40245577006	S6A	Solid	05/24/22 13:45	05/26/22 10:15

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SAMPLE ANALYTE COUNT

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40245577

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40245577001	S1A	EPA 7471	AJT	1
		ASTM D2974-87	K1S	1
40245577002	S2A	EPA 7471	AJT	1
		ASTM D2974-87	K1S	1
40245577003	S3A	EPA 7471	AJT	1
		ASTM D2974-87	K1S	1
40245577004	S4A	EPA 7471	AJT	1
		ASTM D2974-87	K1S	1
40245577005	S5A	EPA 7471	AJT	1
		ASTM D2974-87	K1S	1
40245577006	S6A	EPA 7471	AJT	1
		ASTM D2974-87	K1S	1

PASI-G = Pace Analytical Services - Green Bay

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SUMMARY OF DETECTION

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40245577

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40245577001	S1A					
EPA 7471	Mercury	0.53	mg/kg	0.039	06/07/22 13:00	
ASTM D2974-87	Percent Moisture	19.0	%	0.10	05/27/22 09:18	
40245577002	S2A					
EPA 7471	Mercury	0.16	mg/kg	0.046	06/07/22 13:02	
ASTM D2974-87	Percent Moisture	25.3	%	0.10	05/27/22 09:18	
40245577003	S3A					
EPA 7471	Mercury	0.49	mg/kg	0.039	06/07/22 13:05	
ASTM D2974-87	Percent Moisture	17.4	%	0.10	05/27/22 09:19	
40245577004	S4A					
EPA 7471	Mercury	0.051	mg/kg	0.044	06/07/22 13:12	
ASTM D2974-87	Percent Moisture	20.7	%	0.10	05/27/22 09:19	
40245577005	S5A					
EPA 7471	Mercury	0.89	mg/kg	0.040	06/07/22 13:14	
ASTM D2974-87	Percent Moisture	15.4	%	0.10	05/27/22 09:19	
40245577006	S6A					
EPA 7471	Mercury	0.036J	mg/kg	0.040	06/07/22 13:16	
ASTM D2974-87	Percent Moisture	14.5	%	0.10	05/27/22 09:19	

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40245577

Sample: S1A **Lab ID: 40245577001** Collected: 05/24/22 11:15 Received: 05/26/22 10:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.53	mg/kg	0.039	0.011	1	06/06/22 12:40	06/07/22 13:00	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	19.0	%	0.10	0.10	1		05/27/22 09:18		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE
Pace Project No.: 40245577

Sample: S2A **Lab ID: 40245577002** Collected: 05/24/22 11:40 Received: 05/26/22 10:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.16	mg/kg	0.046	0.013	1	06/06/22 12:40	06/07/22 13:02	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	25.3	%	0.10	0.10	1		05/27/22 09:18		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40245577

Sample: S3A **Lab ID: 40245577003** Collected: 05/24/22 12:00 Received: 05/26/22 10:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.49	mg/kg	0.039	0.011	1	06/06/22 12:40	06/07/22 13:05	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	17.4	%	0.10	0.10	1		05/27/22 09:19		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40245577

Sample: S4A **Lab ID: 40245577004** Collected: 05/24/22 13:00 Received: 05/26/22 10:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.051	mg/kg	0.044	0.012	1	06/06/22 12:40	06/07/22 13:12	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	20.7	%	0.10	0.10	1		05/27/22 09:19		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40245577

Sample: S5A **Lab ID: 40245577005** Collected: 05/24/22 13:20 Received: 05/26/22 10:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.89	mg/kg	0.040	0.011	1	06/06/22 12:40	06/07/22 13:14	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	15.4	%	0.10	0.10	1		05/27/22 09:19		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40245577

Sample: S6A **Lab ID: 40245577006** Collected: 05/24/22 13:45 Received: 05/26/22 10:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.036J	mg/kg	0.040	0.011	1	06/06/22 12:40	06/07/22 13:16	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	14.5	%	0.10	0.10	1		05/27/22 09:19		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40245577

QC Batch: 417512	Analysis Method: EPA 7471
QC Batch Method: EPA 7471	Analysis Description: 7471 Mercury
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40245577001, 40245577002, 40245577003, 40245577004, 40245577005, 40245577006

METHOD BLANK: 2404330 Matrix: Solid
Associated Lab Samples: 40245577001, 40245577002, 40245577003, 40245577004, 40245577005, 40245577006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.010	0.035	06/07/22 12:30	

LABORATORY CONTROL SAMPLE: 2404331

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.83	0.81	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2404332 2404333

Parameter	Units	40245901013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.065	0.93	0.92	0.97	0.99	98	101	85-115	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40245577

QC Batch: 416892

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40245577001, 40245577002, 40245577003, 40245577004, 40245577005, 40245577006

SAMPLE DUPLICATE: 2400643

Parameter	Units	40245496001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.2	5.2	1	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40245577

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40245577

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40245577001	S1A	EPA 7471	417512	EPA 7471	417539
40245577002	S2A	EPA 7471	417512	EPA 7471	417539
40245577003	S3A	EPA 7471	417512	EPA 7471	417539
40245577004	S4A	EPA 7471	417512	EPA 7471	417539
40245577005	S5A	EPA 7471	417512	EPA 7471	417539
40245577006	S6A	EPA 7471	417512	EPA 7471	417539
40245577001	S1A	ASTM D2974-87	416892		
40245577002	S2A	ASTM D2974-87	416892		
40245577003	S3A	ASTM D2974-87	416892		
40245577004	S4A	ASTM D2974-87	416892		
40245577005	S5A	ASTM D2974-87	416892		
40245577006	S6A	ASTM D2974-87	416892		

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CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

40245577

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Company: **Tetra Tech**
 Address: **8413 Excelsior Dr #160, Madison, WI 53717**
 Report To: **Luke Specketer (luke.specketer@tetrattech.com)**
 Copy To: **Riley Eklund (riley eklund@tetrattech.com)**

Container Preservative Type **
 Lab Project Manager:
 ** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Customer Project Name/Number: **209-4221563**
 State: **WI County/City: Union Grove Time Zone Collected: []PT []MT [x]CT []ET**
 Phone: **608-346-1677**
 Email: **luke.specketer@tetrattech.com**
 Collected By (print): **Riley Eklund**
 Collected By (signature): *Riley Eklund*
 Sample Disposal: [x] Dispose as appropriate [] Return [] Archive [] Hold

Analyses										Lab Profile/Line:
										Lab Sample Receipt Checklist
										Custody Seals Present/Intact Y N NA
										Custody Signatures Present 5/24/22 MP
										Collector Signature Present Y N NA
										Bottles Intact Y N NA
										Correct Bottles Y N NA
										Sufficient Volume Y N NA
										Samples Received on Ice Y N NA
										VOA - Headspace Acceptable Y N NA
										USDA Regulated Soils Y N NA
										Samples in Holding Time Y N NA
										Residual Chlorine Present Y N NA
										Cl Strips: _____
										Sample pH Acceptable Y N NA
										pH Strips: _____
										Sulfide Present Y N NA
										Lead Acetate Strips: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)	Plastic (P) 120 ML Total Mercury
			Date	Time	Date	Time				
S1A	SL	Grab	5/24/2022	11:15				1		x
S2A	SL	Grab	5/24/2022	11:40				1		x
S3A	SL	Grab	5/24/2022	12:00				1		x
S4A	SL	Grab	5/24/2022	13:00				1		x
S5A	SL	Grab	5/24/2022	13:20				1		x
S6A	SL	Grab	5/24/2022	13:45				1		x

LAB USE ONLY:
 Lab Sample # / Comments:
 001
 002
 003
 004
 005
 006

Customer Remarks / Special Conditions / Possible Hazards:
 Type of Ice Used: Wet Blue Dry None
 Packing Material Used:
 Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N NA
 Lab Tracking #: *see 500 5/24/22 MP*
 Samples received via: FEDEX UPS Client Courier Pace Courier
 Lab Sample Temperature Info:
 Temp Blank Received: Y N NA
 Therm ID#: *see 500 5/24/22 MP*
 Cooler 1 Temp Upon Receipt: _____
 Cooler 1 Therm Corr. Factor: _____
 Cooler 1 Corrected Temp: _____
 Comments:

Relinquished by/Company: (Signature) *Riley Eklund* Date/Time: *5/25/22 9:25 AM*
 Relinquished by/Company: (Signature) *Fedex* Date/Time: *10:15 5/24/22*
 Relinquished by/Company: (Signature) Date/Time:

Received by/Company: (Signature) *M. J. ...* Date/Time: *10:15 5/24/22*
 MTJL LAB USE ONLY
 Table #:
 Acctnum:
 Template:
 Prelogin:
 PM:
 PB:
 Trip Blank Received: Y N NA
 HCL MeOH TSP Other
 Non Conformance(s): YES / NO
 Page: _____ of: _____

Client Name: TetraTech Sample Preservation Receipt Form
 Project # 40245577

All containers needing preservation have been checked and noted below: Yes No N/A

Initial when completed: Date/Time:

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass						Plastic					Vials					Jars				General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)	
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU								SP5T
001																															2.5 / 5 / 10
002																															2.5 / 5 / 10
003																															2.5 / 5 / 10
004																															2.5 / 5 / 10
005																															2.5 / 5 / 10
006																															2.5 / 5 / 10
007																															2.5 / 5 / 10
008																															2.5 / 5 / 10
009																															2.5 / 5 / 10
010																															2.5 / 5 / 10
011																															2.5 / 5 / 10
012																															2.5 / 5 / 10
013																															2.5 / 5 / 10
014																															2.5 / 5 / 10
015																															2.5 / 5 / 10
016																															2.5 / 5 / 10
017																															2.5 / 5 / 10
018																															2.5 / 5 / 10
019																															2.5 / 5 / 10
020																															2.5 / 5 / 10

5/26/22
MP

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm): Yes No N/A *If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9A	40 mL clear ascorbic	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG5U	100 mL amber glass unpres			VG9D	40 mL clear vial DI	ZPLC	ziploc bag
AG2S	500 mL amber glass H2SO4					GN	
BG3U	250 mL clear glass unpres						

Sample Condition Upon Receipt Form (SCUR)

Client Name: TetraTech

Project #:

WO#: 40245577

Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____



Tracking #: 2735 3424 9043

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used SR - III Type of Ice: Wet Blue Dry None

Samples on ice, cooling process has begun

Cooler Temperature Uncorr: — /Corr: 0°

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Person examining contents:

Date: 5/26/22 Initials: MP

Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Labeled By Initials: MP

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<u>5/26/22 MP</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2. Pg# <u>5126122 MP</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>S</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample login

June 06, 2022

Luke Specketer
TETRATECH - Madison
8413 Excelsior Drive
Madison, WI 53717

RE: Project: 209-4221563 WM MERCURY WASTE
Pace Project No.: 40245579

Dear Luke Specketer:

Enclosed are the analytical results for sample(s) received by the laboratory on May 26, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40245579

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40245579

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40245579001	POND SURFACE	Water	05/24/22 09:00	05/26/22 10:15
40245579002	POND DISCHARGE	Water	05/24/22 09:10	05/26/22 10:15
40245579003	PW1	Water	05/24/22 10:30	05/26/22 10:15
40245579004	PW2	Water	05/24/22 10:00	05/26/22 10:15
40245579005	RINSE #1	Water	05/24/22 12:15	05/26/22 10:15
40245579006	RINSE #2	Water	05/24/22 14:00	05/26/22 10:15

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SAMPLE ANALYTE COUNT

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40245579

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40245579001	POND SURFACE	EPA 7470	AJT	1
40245579002	POND DISCHARGE	EPA 7470	AJT	1
40245579003	PW1	EPA 7470	AJT	1
40245579004	PW2	EPA 7470	AJT	1
40245579005	RINSE #1	EPA 7470	AJT	1
40245579006	RINSE #2	EPA 7470	AJT	1

PASI-G = Pace Analytical Services - Green Bay

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SUMMARY OF DETECTION

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40245579

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40245579001	POND SURFACE					
EPA 7470	Mercury	0.90	ug/L	0.20	06/06/22 10:56	
40245579002	POND DISCHARGE					
EPA 7470	Mercury	0.42	ug/L	0.20	06/06/22 11:08	

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40245579

Sample: POND SURFACE **Lab ID: 40245579001** Collected: 05/24/22 09:00 Received: 05/26/22 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay									
Mercury	0.90	ug/L	0.20	0.066	1	06/03/22 10:40	06/06/22 10:56	7439-97-6	

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40245579

Sample: POND DISCHARGE **Lab ID: 40245579002** Collected: 05/24/22 09:10 Received: 05/26/22 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury	0.42	ug/L	0.20	0.066	1	06/03/22 10:40	06/06/22 11:08	7439-97-6	

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40245579

Sample: PW1 **Lab ID: 40245579003** Collected: 05/24/22 10:30 Received: 05/26/22 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury	<0.066	ug/L	0.20	0.066	1	06/03/22 10:40	06/06/22 11:10	7439-97-6	

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40245579

Sample: PW2 **Lab ID: 40245579004** Collected: 05/24/22 10:00 Received: 05/26/22 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay									
Mercury	<0.066	ug/L	0.20	0.066	1	06/03/22 10:40	06/06/22 11:13	7439-97-6	

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40245579

Sample: RINSE #1 **Lab ID: 40245579005** Collected: 05/24/22 12:15 Received: 05/26/22 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury	<0.066	ug/L	0.20	0.066	1	06/03/22 10:40	06/06/22 11:15	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40245579

Sample: RINSE #2 **Lab ID: 40245579006** Collected: 05/24/22 14:00 Received: 05/26/22 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury	<0.066	ug/L	0.20	0.066	1	06/03/22 10:40	06/06/22 11:17	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40245579

QC Batch:	417399	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40245579001, 40245579002, 40245579003, 40245579004, 40245579005, 40245579006

METHOD BLANK: 2403499 Matrix: Water
Associated Lab Samples: 40245579001, 40245579002, 40245579003, 40245579004, 40245579005, 40245579006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.066	0.20	06/06/22 10:52	

LABORATORY CONTROL SAMPLE: 2403500

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.7	94	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2403501 2403502

Parameter	Units	40245579001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.90	5	5	5.6	5.8	95	98	85-115	3	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40245579

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40245579

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40245579001	POND SURFACE	EPA 7470	417399	EPA 7470	417427
40245579002	POND DISCHARGE	EPA 7470	417399	EPA 7470	417427
40245579003	PW1	EPA 7470	417399	EPA 7470	417427
40245579004	PW2	EPA 7470	417399	EPA 7470	417427
40245579005	RINSE #1	EPA 7470	417399	EPA 7470	417427
40245579006	RINSE #2	EPA 7470	417399	EPA 7470	417427

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CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-In Number Here

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Company: Tetra Tech		Billing Information: 21211 Durand Avenue, Union Grove, WI 53182	
Address: 8413 Excelsior Dr #160, Madison, WI 53717			
Report To: Luke Specketer (luke.specketer@tetrattech.com)		Email To: ssmolko@wm.com	
Copy To: Riley Eklund (riley.eklund@tetrattech.com)		Site Collection Info/Address: 21211 Durand Avenue, Union Grove, WI 53182	
Customer Project Name/Number: 209-4221563		State: WI County/City: Union Grove Time Zone Collected: []PT []MT [x]CT []ET	
Phone: 608-346-1677	Site/Facility ID #: WM Mercury Waste, INC.	Compliance Monitoring? [x] Yes [] No	
Email: luke.specketer@tetrattech.com			
Collected By (print): Riley Eklund	Purchase Order #: 957947	DW PWS ID #:	
	Quote #:	DW Location Code:	
Collected By (signature): Riley Eklund	Turnaround Date Required: Standard	Immediately Packed on Ice: [x] Yes [] No	
Sample Disposal: [x] Dispose as appropriate [] Return [] Archive: [] Hold:	Rush: (Expedite Charges Apply) [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day	Field Filtered (if applicable): [] Yes [x] No	
Analysis: _____			

Container Preservative Type **		Lab Project Manager:
1		
** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____		

Analyses	Lab Profile/Line:	
	Lab Sample Receipt Checklist:	
Plastic (P) 250 ML Total Mercury	Custody Seals Present/Intact	Y N NA
	Custody Signatures Present	Y N NA
	Collector Signature Present	Y N NA
	Bottles Intact	Y N NA
	Correct Bottles	Y N NA
	Sufficient Volume	Y N NA
	Samples Received on Ice	Y N NA
	VOA - Headspace Acceptable	Y N NA
	USDA Regulated Soils	Y N NA
	Samples in Holding Time	Y N NA
	Residual Chlorine Present	Y N NA
	Cl Strips:	
	Sample pH Acceptable	Y N NA
	pH Strips:	
	Sulfide Present	Y N NA
Lead Acetate Strips:		
LAB USE ONLY: Lab Sample # / Comments:		
	001	
	002	
	003	
	004	
	005	
	006	

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)
			Date	Time	Date	Time			
Pond Surface	WW	Grab	5/24/2022	9:00				1	x
Pond Discharge	WW	Grab	5/24/2022	9:10				1	x
PW1	GW	Grab	5/24/2022	10:30				1	x
PW2	GW	Grab	5/24/2022	10:00				1	x
Rinse #1	WW	Grab	5/24/2022	12:15				1	x
Rinse #2	WW	Grab	5/24/2022	14:00				1	x

Customer Remarks / Special Conditions / Possible Hazards:	Type of Ice Used: Wet Blue Dry None
	Packing Material Used:
	Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N NA
Lab Tracking #: <i>see blue stamp</i>
Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp. Blank Received: <i>see blue stamp</i>
Therm ID#: <i>see blue stamp</i>
Cooler 1 Temp Upon Receipt: <i>see blue stamp</i>
Cooler 1 Therm Corr. Factor: <i>see blue stamp</i>
Cooler 1 Corrected Temp: <i>see blue stamp</i>
Comments:

Relinquished by/Company: (Signature) <i>Riley Eklund</i>	Date/Time: 5/25/2022 9:25am	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature) <i>Fedex</i>	Date/Time: 5/26/22	Received by/Company: (Signature) <i>Morgan DeLoe</i>	Date/Time: 5/26/22
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY	
Table #:	
Acctnum:	
Template:	
Prelogin:	
PM:	
PB:	

Trip Blank Received: Y N NA	HCL MeOH TSP Other
Non Conformance(s): YES / NO	Page: of: _____

Sample Condition Upon Receipt Form (SCUR)

Client Name: Tetra Tech

Project #:

WO#: **40245579**

Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other:



Tracking #: 2735 3424 9043

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR - III Type of Ice: Wet Blue Dry None

Samples on ice, cooling process has begun

Cooler Temperature Uncorr: / Corr: 0°

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Person examining contents:

Date: 5/26/22 Initials: MP

Labeled By Initials: MP

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<u>5/26/22 MP</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>PJ# 5/26/22 MP</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
-VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample login

STEP OUT SAMPLNG ANALYTICAL RESULTS

July 28, 2022

Luke Specketer
TETRATECH - Madison
8413 Excelsior Drive
Madison, WI 53717

RE: Project: 209-4221563 WM MERCURY WASTE
Pace Project No.: 40248114

Dear Luke Specketer:

Enclosed are the analytical results for sample(s) received by the laboratory on July 14, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40248114001	SP1N1S	Solid	07/12/22 10:30	07/14/22 10:05
40248114002	SP1N1BS	Solid	07/12/22 10:35	07/14/22 10:05
40248114003	SP1N2S	Solid	07/12/22 10:40	07/14/22 10:05
40248114004	SP1N2BS	Solid	07/12/22 10:45	07/14/22 10:05
40248114005	SP1E1S	Solid	07/12/22 10:55	07/14/22 10:05
40248114006	SP1E1BS	Solid	07/12/22 11:00	07/14/22 10:05
40248114007	SP1E2S	Solid	07/12/22 11:20	07/14/22 10:05
40248114008	SP1E2BS	Solid	07/12/22 11:25	07/14/22 10:05
40248114009	SP1W1S	Solid	07/12/22 11:40	07/14/22 10:05
40248114010	SP1W1BS	Solid	07/12/22 11:45	07/14/22 10:05
40248114011	SP1W2S	Solid	07/12/22 12:05	07/14/22 10:05
40248114012	SP1W2BS	Solid	07/12/22 12:10	07/14/22 10:05
40248114013	SP4N1S	Solid	07/12/22 12:30	07/14/22 10:05
40248114014	SP4N1BS	Solid	07/12/22 12:35	07/14/22 10:05
40248114015	SP4N2S	Solid	07/12/22 12:50	07/14/22 10:05
40248114016	SP4N2BS	Solid	07/12/22 12:55	07/14/22 10:05
40248114017	SP4W1S	Solid	07/12/22 14:15	07/14/22 10:05
40248114018	SP4W1BS	Solid	07/12/22 14:20	07/14/22 10:05
40248114019	SP4W2S	Solid	07/12/22 14:40	07/14/22 10:05
40248114020	SP4W2BS	Solid	07/12/22 14:45	07/14/22 10:05
40248114021	SP5NW1S	Solid	07/12/22 15:05	07/14/22 10:05
40248114022	SP5NW1BS	Solid	07/12/22 15:10	07/14/22 10:05
40248114023	SP5NW2S	Solid	07/12/22 15:30	07/14/22 10:05
40248114024	SP5NW2BS	Solid	07/12/22 15:35	07/14/22 10:05
40248114025	SP5SW1S	Solid	07/12/22 15:55	07/14/22 10:05
40248114026	SP5SW1BS	Solid	07/12/22 16:00	07/14/22 10:05
40248114027	SP5SW2S	Solid	07/12/22 16:10	07/14/22 10:05
40248114028	SP5SW2BS	Solid	07/12/22 16:15	07/14/22 10:05
40248114029	SP5SE1S	Solid	07/12/22 16:30	07/14/22 10:05
40248114030	SP5SE1BS	Solid	07/12/22 16:35	07/14/22 10:05
40248114031	SP5SE2S	Solid	07/12/22 16:45	07/14/22 10:05
40248114032	SP5SE2BS	Solid	07/12/22 16:50	07/14/22 10:05
40248114033	SP5SE3S	Solid	07/12/22 17:05	07/14/22 10:05
40248114034	SP5SE3BS	Solid	07/12/22 17:10	07/14/22 10:05
40248114035	RINSE #1	Water	07/12/22 11:30	07/14/22 10:05
40248114036	RINSE #2	Water	07/12/22 13:00	07/14/22 10:05
40248114037	RINSE #3	Water	07/12/22 15:40	07/14/22 10:05

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SAMPLE SUMMARY

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40248114038	RINSE #4	Water	07/12/22 17:20	07/14/22 10:05

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40248114001	SP1N1S	EPA 7471	AJT	1
		ASTM D2974-87	PDV	1
40248114002	SP1N1BS	EPA 7471	AJT	1
		ASTM D2974-87	PDV	1
40248114003	SP1N2S	EPA 7471	AJT	1
		ASTM D2974-87	PDV	1
40248114004	SP1N2BS	EPA 7471	AJT	1
		ASTM D2974-87	PDV	1
40248114005	SP1E1S	EPA 7471	AJT	1
		ASTM D2974-87	PDV	1
40248114006	SP1E1BS	EPA 7471	AJT	1
		ASTM D2974-87	PDV	1
40248114007	SP1E2S	EPA 7471	AJT	1
		ASTM D2974-87	PDV	1
40248114008	SP1E2BS	EPA 7471	AJT	1
		ASTM D2974-87	PDV	1
40248114009	SP1W1S	EPA 7471	AJT	1
		ASTM D2974-87	PDV	1
40248114010	SP1W1BS	EPA 7471	AJT	1
		ASTM D2974-87	PDV	1
40248114011	SP1W2S	EPA 7471	AJT	1
		ASTM D2974-87	PDV	1
40248114012	SP1W2BS	EPA 7471	AJT	1
		ASTM D2974-87	PDV	1
40248114013	SP4N1S	EPA 7471	AJT	1
		ASTM D2974-87	PDV	1
40248114014	SP4N1BS	EPA 7471	AJT	1
		ASTM D2974-87	PDV	1
40248114015	SP4N2S	EPA 7471	AJT	1
		ASTM D2974-87	PDV	1
40248114016	SP4N2BS	EPA 7471	AJT	1
		ASTM D2974-87	PDV	1
40248114017	SP4W1S	EPA 7471	AJT	1
		ASTM D2974-87	PDV	1
40248114018	SP4W1BS	EPA 7471	AJT	1
		ASTM D2974-87	PDV	1
40248114019	SP4W2S	EPA 7471	AJT	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 209-4221563 WM MERCURY WASTE
Pace Project No.: 40248114

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		ASTM D2974-87	PDV	1
40248114020	SP4W2BS	EPA 7471	AJT	1
		ASTM D2974-87	PDV	1
40248114021	SP5NW1S	EPA 7471	AJT	1
		ASTM D2974-87	PDV	1
40248114022	SP5NW1BS	EPA 7471	AJT	1
		ASTM D2974-87	PDV	1
40248114023	SP5NW2S	EPA 7471	AJT	1
		ASTM D2974-87	PDV	1
40248114024	SP5NW2BS	EPA 7471	AJT	1
		ASTM D2974-87	PDV	1
40248114025	SP5SW1S	EPA 7471	AJT	1
		ASTM D2974-87	PDV	1
40248114026	SP5SW1BS	EPA 7471	AJT	1
		ASTM D2974-87	PDV	1
40248114027	SP5SW2S	EPA 7471	AJT	1
		ASTM D2974-87	PDV	1
40248114028	SP5SW2BS	EPA 7471	AJT	1
		ASTM D2974-87	PDV	1
40248114029	SP5SE1S	EPA 7471	AJT	1
		ASTM D2974-87	PDV	1
40248114030	SP5SE1BS	EPA 7471	AJT	1
		ASTM D2974-87	PDV	1
40248114031	SP5SE2S	EPA 7471	AJT	1
		ASTM D2974-87	PDV	1
40248114032	SP5SE2BS	EPA 7471	AJT	1
		ASTM D2974-87	PDV	1
40248114033	SP5SE3S	EPA 7471	AJT	1
		ASTM D2974-87	PDV	1
40248114034	SP5SE3BS	EPA 7471	AJT	1
		ASTM D2974-87	PDV	1
40248114035	RINSE #1	EPA 7470	AJT	1
40248114036	RINSE #2	EPA 7470	AJT	1
40248114037	RINSE #3	EPA 7470	AJT	1
40248114038	RINSE #4	EPA 7470	AJT	1

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 209-4221563 WM MERCURY WASTE
Pace Project No.: 40248114

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40248114001	SP1N1S					
EPA 7471	Mercury	3.8	mg/kg	0.084	07/19/22 12:45	M0
ASTM D2974-87	Percent Moisture	16.6	%	0.10	07/15/22 12:18	
40248114002	SP1N1BS					
EPA 7471	Mercury	0.22	mg/kg	0.040	07/19/22 11:08	
ASTM D2974-87	Percent Moisture	16.0	%	0.10	07/15/22 12:18	
40248114003	SP1N2S					
EPA 7471	Mercury	2.2	mg/kg	0.075	07/19/22 12:57	
ASTM D2974-87	Percent Moisture	14.9	%	0.10	07/15/22 12:18	
40248114004	SP1N2BS					
EPA 7471	Mercury	0.27	mg/kg	0.041	07/19/22 11:17	
ASTM D2974-87	Percent Moisture	14.7	%	0.10	07/15/22 12:18	
40248114005	SP1E1S					
EPA 7471	Mercury	4.7	mg/kg	0.20	07/19/22 12:59	
ASTM D2974-87	Percent Moisture	16.7	%	0.10	07/15/22 12:54	
40248114006	SP1E1BS					
EPA 7471	Mercury	0.32	mg/kg	0.039	07/19/22 11:24	
ASTM D2974-87	Percent Moisture	13.2	%	0.10	07/15/22 12:54	
40248114007	SP1E2S					
EPA 7471	Mercury	6.3	mg/kg	0.20	07/19/22 13:02	
ASTM D2974-87	Percent Moisture	18.8	%	0.10	07/15/22 12:54	
40248114008	SP1E2BS					
EPA 7471	Mercury	2.7	mg/kg	0.079	07/19/22 13:04	
ASTM D2974-87	Percent Moisture	14.3	%	0.10	07/15/22 12:54	
40248114009	SP1W1S					
EPA 7471	Mercury	0.36	mg/kg	0.039	07/19/22 11:35	
ASTM D2974-87	Percent Moisture	16.7	%	0.10	07/15/22 12:54	
40248114010	SP1W1BS					
EPA 7471	Mercury	0.30	mg/kg	0.039	07/19/22 11:38	
ASTM D2974-87	Percent Moisture	16.1	%	0.10	07/15/22 12:54	
40248114011	SP1W2S					
EPA 7471	Mercury	3.7	mg/kg	0.080	07/19/22 13:06	
ASTM D2974-87	Percent Moisture	18.7	%	0.10	07/15/22 12:54	
40248114012	SP1W2BS					
EPA 7471	Mercury	0.71	mg/kg	0.040	07/19/22 11:45	
ASTM D2974-87	Percent Moisture	15.7	%	0.10	07/15/22 12:54	
40248114013	SP4N1S					
EPA 7471	Mercury	0.081	mg/kg	0.039	07/19/22 11:52	
ASTM D2974-87	Percent Moisture	15.1	%	0.10	07/15/22 12:54	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 209-4221563 WM MERCURY WASTE
Pace Project No.: 40248114

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40248114014	SP4N1BS					
EPA 7471	Mercury	69.1	mg/kg	1.8	07/19/22 13:40	
ASTM D2974-87	Percent Moisture	11.5	%	0.10	07/15/22 12:54	
40248114015	SP4N2S					
EPA 7471	Mercury	71.9	mg/kg	2.0	07/19/22 13:42	
ASTM D2974-87	Percent Moisture	13.8	%	0.10	07/15/22 12:55	
40248114016	SP4N2BS					
EPA 7471	Mercury	1.1	mg/kg	0.038	07/19/22 12:15	
ASTM D2974-87	Percent Moisture	10.3	%	0.10	07/15/22 12:55	
40248114017	SP4W1S					
EPA 7471	Mercury	114	mg/kg	3.6	07/19/22 13:44	
ASTM D2974-87	Percent Moisture	13.1	%	0.10	07/15/22 12:55	
40248114018	SP4W1BS					
EPA 7471	Mercury	0.46	mg/kg	0.037	07/19/22 12:29	
ASTM D2974-87	Percent Moisture	7.7	%	0.10	07/15/22 12:55	
40248114019	SP4W2S					
EPA 7471	Mercury	48.1	mg/kg	2.0	07/19/22 13:47	
ASTM D2974-87	Percent Moisture	13.0	%	0.10	07/15/22 12:55	
40248114020	SP4W2BS					
EPA 7471	Mercury	0.11	mg/kg	0.037	07/19/22 12:42	
ASTM D2974-87	Percent Moisture	16.5	%	0.10	07/15/22 12:55	
40248114021	SP5NW1S					
EPA 7471	Mercury	7.5	mg/kg	0.37	07/26/22 07:11	
ASTM D2974-87	Percent Moisture	12.3	%	0.10	07/15/22 12:55	
40248114022	SP5NW1BS					
EPA 7471	Mercury	0.34	mg/kg	0.038	07/26/22 08:41	
ASTM D2974-87	Percent Moisture	10.0	%	0.10	07/15/22 12:55	
40248114023	SP5NW2S					
EPA 7471	Mercury	1.7	mg/kg	0.40	07/26/22 07:15	
ASTM D2974-87	Percent Moisture	13.6	%	0.10	07/15/22 12:55	
40248114024	SP5NW2BS					
EPA 7471	Mercury	0.054	mg/kg	0.036	07/26/22 08:43	1q
ASTM D2974-87	Percent Moisture	12.1	%	0.10	07/15/22 13:33	
40248114025	SP5SW1S					
EPA 7471	Mercury	0.60	mg/kg	0.36	07/26/22 07:20	1q
ASTM D2974-87	Percent Moisture	13.5	%	0.10	07/15/22 13:33	
40248114026	SP5SW1BS					
EPA 7471	Mercury	0.10	mg/kg	0.035	07/26/22 08:45	1q
ASTM D2974-87	Percent Moisture	9.0	%	0.10	07/15/22 13:33	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40248114027	SP5SW2S					
EPA 7471	Mercury	2.1	mg/kg	0.40	07/26/22 07:25	
ASTM D2974-87	Percent Moisture	12.4	%	0.10	07/15/22 13:33	
40248114028	SP5SW2BS					
EPA 7471	Mercury	0.42	mg/kg	0.035	07/26/22 08:48	
ASTM D2974-87	Percent Moisture	7.1	%	0.10	07/15/22 13:34	
40248114029	SP5SE1S					
EPA 7471	Mercury	5.2	mg/kg	0.39	07/26/22 07:29	
ASTM D2974-87	Percent Moisture	15.2	%	0.10	07/15/22 13:34	
40248114030	SP5SE1BS					
EPA 7471	Mercury	1.7	mg/kg	0.40	07/26/22 07:36	
ASTM D2974-87	Percent Moisture	14.3	%	0.10	07/15/22 13:34	
40248114031	SP5SE2S					
EPA 7471	Mercury	7.0	mg/kg	0.42	07/26/22 07:39	
ASTM D2974-87	Percent Moisture	18.5	%	0.10	07/15/22 13:34	
40248114032	SP5SE2BS					
EPA 7471	Mercury	0.87	mg/kg	0.39	07/26/22 07:41	
ASTM D2974-87	Percent Moisture	12.3	%	0.10	07/15/22 13:34	
40248114033	SP5SE3S					
EPA 7471	Mercury	3.4	mg/kg	0.40	07/26/22 07:43	
ASTM D2974-87	Percent Moisture	13.8	%	0.10	07/15/22 13:34	
40248114034	SP5SE3BS					
EPA 7471	Mercury	0.57	mg/kg	0.36	07/26/22 07:46	1q
ASTM D2974-87	Percent Moisture	11.0	%	0.10	07/15/22 13:34	

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Sample: SP1N1S **Lab ID: 40248114001** Collected: 07/12/22 10:30 Received: 07/14/22 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	3.8	mg/kg	0.084	0.024	2	07/18/22 13:15	07/19/22 12:45	7439-97-6	M0
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	16.6	%	0.10	0.10	1		07/15/22 12:18		

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Sample: SP1N1BS **Lab ID: 40248114002** Collected: 07/12/22 10:35 Received: 07/14/22 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.22	mg/kg	0.040	0.011	1	07/18/22 13:15	07/19/22 11:08	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	16.0	%	0.10	0.10	1		07/15/22 12:18		

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Sample: SP1N2S **Lab ID: 40248114003** Collected: 07/12/22 10:40 Received: 07/14/22 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	2.2	mg/kg	0.075	0.021	2	07/18/22 13:15	07/19/22 12:57	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	14.9	%	0.10	0.10	1		07/15/22 12:18		

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Sample: SP1N2BS **Lab ID: 40248114004** Collected: 07/12/22 10:45 Received: 07/14/22 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.27	mg/kg	0.041	0.012	1	07/18/22 13:15	07/19/22 11:17	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	14.7	%	0.10	0.10	1		07/15/22 12:18		

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Sample: SP1E1S **Lab ID: 40248114005** Collected: 07/12/22 10:55 Received: 07/14/22 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	4.7	mg/kg	0.20	0.057	5	07/18/22 13:15	07/19/22 12:59	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	16.7	%	0.10	0.10	1		07/15/22 12:54		

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Sample: SP1E1BS **Lab ID: 40248114006** Collected: 07/12/22 11:00 Received: 07/14/22 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.32	mg/kg	0.039	0.011	1	07/18/22 13:15	07/19/22 11:24	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	13.2	%	0.10	0.10	1		07/15/22 12:54		

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Sample: SP1E2S **Lab ID: 40248114007** Collected: 07/12/22 11:20 Received: 07/14/22 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	6.3	mg/kg	0.20	0.056	5	07/18/22 13:15	07/19/22 13:02	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	18.8	%	0.10	0.10	1		07/15/22 12:54		

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Sample: SP1E2BS **Lab ID: 40248114008** Collected: 07/12/22 11:25 Received: 07/14/22 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	2.7	mg/kg	0.079	0.023	2	07/18/22 13:15	07/19/22 13:04	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	14.3	%	0.10	0.10	1		07/15/22 12:54		

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Sample: SP1W1S **Lab ID: 40248114009** Collected: 07/12/22 11:40 Received: 07/14/22 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.36	mg/kg	0.039	0.011	1	07/18/22 13:15	07/19/22 11:35	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	16.7	%	0.10	0.10	1		07/15/22 12:54		

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Sample: SP1W1BS **Lab ID: 40248114010** Collected: 07/12/22 11:45 Received: 07/14/22 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.30	mg/kg	0.039	0.011	1	07/18/22 13:15	07/19/22 11:38	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	16.1	%	0.10	0.10	1		07/15/22 12:54		

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Sample: SP1W2S **Lab ID: 40248114011** Collected: 07/12/22 12:05 Received: 07/14/22 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	3.7	mg/kg	0.080	0.023	2	07/18/22 13:15	07/19/22 13:06	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	18.7	%	0.10	0.10	1		07/15/22 12:54		

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Sample: SP1W2BS **Lab ID: 40248114012** Collected: 07/12/22 12:10 Received: 07/14/22 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.71	mg/kg	0.040	0.011	1	07/18/22 13:15	07/19/22 11:45	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	15.7	%	0.10	0.10	1		07/15/22 12:54		

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Sample: SP4N1S **Lab ID: 40248114013** Collected: 07/12/22 12:30 Received: 07/14/22 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.081	mg/kg	0.039	0.011	1	07/18/22 13:15	07/19/22 11:52	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	15.1	%	0.10	0.10	1		07/15/22 12:54		

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Sample: SP4N1BS **Lab ID: 40248114014** Collected: 07/12/22 12:35 Received: 07/14/22 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	69.1	mg/kg	1.8	0.51	50	07/18/22 13:15	07/19/22 13:40	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	11.5	%	0.10	0.10	1		07/15/22 12:54		

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Sample: SP4N2S **Lab ID: 40248114015** Collected: 07/12/22 12:50 Received: 07/14/22 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	71.9	mg/kg	2.0	0.57	50	07/18/22 13:15	07/19/22 13:42	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	13.8	%	0.10	0.10	1		07/15/22 12:55		

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Sample: SP4N2BS **Lab ID: 40248114016** Collected: 07/12/22 12:55 Received: 07/14/22 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	1.1	mg/kg	0.038	0.011	1	07/18/22 13:15	07/19/22 12:15	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	10.3	%	0.10	0.10	1		07/15/22 12:55		

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Sample: SP4W1S **Lab ID: 40248114017** Collected: 07/12/22 14:15 Received: 07/14/22 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	114	mg/kg	3.6	1.0	100	07/18/22 13:15	07/19/22 13:44	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	13.1	%	0.10	0.10	1		07/15/22 12:55		

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Sample: SP4W1BS **Lab ID: 40248114018** Collected: 07/12/22 14:20 Received: 07/14/22 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.46	mg/kg	0.037	0.011	1	07/18/22 13:15	07/19/22 12:29	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	7.7	%	0.10	0.10	1		07/15/22 12:55		

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Sample: SP4W2S **Lab ID: 40248114019** Collected: 07/12/22 14:40 Received: 07/14/22 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	48.1	mg/kg	2.0	0.57	50	07/18/22 13:15	07/19/22 13:47	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	13.0	%	0.10	0.10	1		07/15/22 12:55		

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Sample: SP4W2BS **Lab ID: 40248114020** Collected: 07/12/22 14:45 Received: 07/14/22 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.11	mg/kg	0.037	0.011	1	07/18/22 13:15	07/19/22 12:42	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	16.5	%	0.10	0.10	1		07/15/22 12:55		

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Sample: SP5NW1S **Lab ID: 40248114021** Collected: 07/12/22 15:05 Received: 07/14/22 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	7.5	mg/kg	0.37	0.11	10	07/25/22 09:54	07/26/22 07:11	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	12.3	%	0.10	0.10	1		07/15/22 12:55		

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Sample: SP5NW1BS **Lab ID: 40248114022** Collected: 07/12/22 15:10 Received: 07/14/22 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.34	mg/kg	0.038	0.011	1	07/25/22 09:54	07/26/22 08:41	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	10.0	%	0.10	0.10	1		07/15/22 12:55		

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Sample: SP5NW2S **Lab ID: 40248114023** Collected: 07/12/22 15:30 Received: 07/14/22 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	1.7	mg/kg	0.40	0.11	10	07/25/22 09:54	07/26/22 07:15	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	13.6	%	0.10	0.10	1		07/15/22 12:55		

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Sample: SP5NW2BS **Lab ID: 40248114024** Collected: 07/12/22 15:35 Received: 07/14/22 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.054	mg/kg	0.036	0.010	1	07/25/22 09:54	07/26/22 08:43	7439-97-6	1q
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	12.1	%	0.10	0.10	1		07/15/22 13:33		

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE
Pace Project No.: 40248114

Sample: SP5SW1S **Lab ID: 40248114025** Collected: 07/12/22 15:55 Received: 07/14/22 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.60	mg/kg	0.36	0.10	10	07/25/22 09:54	07/26/22 07:20	7439-97-6	1q
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	13.5	%	0.10	0.10	1		07/15/22 13:33		

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Sample: SP5SW1BS **Lab ID: 40248114026** Collected: 07/12/22 16:00 Received: 07/14/22 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.10	mg/kg	0.035	0.0099	1	07/25/22 09:54	07/26/22 08:45	7439-97-6	1q
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	9.0	%	0.10	0.10	1		07/15/22 13:33		

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE
Pace Project No.: 40248114

Sample: SP5SW2S **Lab ID: 40248114027** Collected: 07/12/22 16:10 Received: 07/14/22 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	2.1	mg/kg	0.40	0.11	10	07/25/22 09:54	07/26/22 07:25	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	12.4	%	0.10	0.10	1		07/15/22 13:33		

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Sample: SP5SW2BS **Lab ID: 40248114028** Collected: 07/12/22 16:15 Received: 07/14/22 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.42	mg/kg	0.035	0.010	1	07/25/22 09:54	07/26/22 08:48	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	7.1	%	0.10	0.10	1		07/15/22 13:34		

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Sample: SP5SE1S **Lab ID: 40248114029** Collected: 07/12/22 16:30 Received: 07/14/22 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	5.2	mg/kg	0.39	0.11	10	07/25/22 09:54	07/26/22 07:29	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	15.2	%	0.10	0.10	1		07/15/22 13:34		

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Sample: SP5SE1BS **Lab ID: 40248114030** Collected: 07/12/22 16:35 Received: 07/14/22 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	1.7	mg/kg	0.40	0.11	10	07/25/22 09:54	07/26/22 07:36	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	14.3	%	0.10	0.10	1		07/15/22 13:34		

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Sample: SP5SE2S **Lab ID: 40248114031** Collected: 07/12/22 16:45 Received: 07/14/22 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	7.0	mg/kg	0.42	0.12	10	07/25/22 09:54	07/26/22 07:39	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	18.5	%	0.10	0.10	1		07/15/22 13:34		

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Sample: SP5SE2BS **Lab ID: 40248114032** Collected: 07/12/22 16:50 Received: 07/14/22 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.87	mg/kg	0.39	0.11	10	07/25/22 09:54	07/26/22 07:41	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	12.3	%	0.10	0.10	1		07/15/22 13:34		

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Sample: SP5SE3S **Lab ID: 40248114033** Collected: 07/12/22 17:05 Received: 07/14/22 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	3.4	mg/kg	0.40	0.11	10	07/25/22 09:54	07/26/22 07:43	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	13.8	%	0.10	0.10	1		07/15/22 13:34		

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Sample: SP5SE3BS **Lab ID: 40248114034** Collected: 07/12/22 17:10 Received: 07/14/22 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.57	mg/kg	0.36	0.10	10	07/25/22 09:54	07/26/22 07:46	7439-97-6	1q
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	11.0	%	0.10	0.10	1		07/15/22 13:34		

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Sample: RINSE #1 **Lab ID: 40248114035** Collected: 07/12/22 11:30 Received: 07/14/22 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay									
Mercury	<0.066	ug/L	0.20	0.066	1	07/27/22 10:25	07/28/22 06:53	7439-97-6	

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Sample: RINSE #2 **Lab ID: 40248114036** Collected: 07/12/22 13:00 Received: 07/14/22 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury	<0.066	ug/L	0.20	0.066	1	07/27/22 10:25	07/28/22 06:55	7439-97-6	

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Sample: RINSE #3 **Lab ID: 40248114037** Collected: 07/12/22 15:40 Received: 07/14/22 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury	<0.066	ug/L	0.20	0.066	1	07/27/22 10:25	07/28/22 06:57	7439-97-6	

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

Sample: RINSE #4 **Lab ID: 40248114038** Collected: 07/12/22 17:20 Received: 07/14/22 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay								
Mercury	<0.066	ug/L	0.20	0.066	1	07/27/22 10:25	07/28/22 07:04	7439-97-6	

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QUALITY CONTROL DATA

Project: 209-4221563 WM MERCURY WASTE
Pace Project No.: 40248114

QC Batch: 421864 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40248114035, 40248114036, 40248114037, 40248114038

METHOD BLANK: 2429937 Matrix: Water
Associated Lab Samples: 40248114035, 40248114036, 40248114037, 40248114038

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.066	0.20	07/28/22 06:41	

LABORATORY CONTROL SAMPLE: 2429938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2429939 2429940

Parameter	Units	40248064001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.066	5	5	4.9	4.9	98	98	85-115	0	20	

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QUALITY CONTROL DATA

Project: 209-4221563 WM MERCURY WASTE
Pace Project No.: 40248114

QC Batch:	421038	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40248114001, 40248114002, 40248114003, 40248114004, 40248114005, 40248114006, 40248114007, 40248114008, 40248114009, 40248114010, 40248114011, 40248114012, 40248114013, 40248114014, 40248114015, 40248114016, 40248114017, 40248114018, 40248114019, 40248114020

METHOD BLANK: 2425366 Matrix: Solid
Associated Lab Samples: 40248114001, 40248114002, 40248114003, 40248114004, 40248114005, 40248114006, 40248114007, 40248114008, 40248114009, 40248114010, 40248114011, 40248114012, 40248114013, 40248114014, 40248114015, 40248114016, 40248114017, 40248114018, 40248114019, 40248114020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.010	0.035	07/19/22 10:49	

LABORATORY CONTROL SAMPLE: 2425367

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.83	0.85	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2425368 2425369

Parameter	Units	40248114001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	3.8	1	0.98	3.2	3.5	-59	-36	85-115	7	20	M0

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QUALITY CONTROL DATA

Project: 209-4221563 WM MERCURY WASTE
Pace Project No.: 40248114

QC Batch:	421603	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40248114021, 40248114022, 40248114023, 40248114024, 40248114025, 40248114026, 40248114027, 40248114028, 40248114029, 40248114030, 40248114031, 40248114032, 40248114033, 40248114034

METHOD BLANK: 2428894 Matrix: Solid
Associated Lab Samples: 40248114021, 40248114022, 40248114023, 40248114024, 40248114025, 40248114026, 40248114027, 40248114028, 40248114029, 40248114030, 40248114031, 40248114032, 40248114033, 40248114034

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.010	0.035	07/26/22 06:50	

LABORATORY CONTROL SAMPLE: 2428895

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.83	0.87	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2428896 2428897

Parameter	Units	40248608005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	<0.011	0.96	0.96	1.0	1.0	102	103	85-115	1	20	

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QUALITY CONTROL DATA

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

QC Batch: 420944

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40248114001, 40248114002, 40248114003, 40248114004

SAMPLE DUPLICATE: 2424575

Parameter	Units	40248086002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	4.9	4.8	1	10	

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QUALITY CONTROL DATA

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

QC Batch:	420949	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40248114005, 40248114006, 40248114007, 40248114008, 40248114009, 40248114010, 40248114011, 40248114012, 40248114013, 40248114014, 40248114015, 40248114016, 40248114017, 40248114018, 40248114019, 40248114020, 40248114021, 40248114022, 40248114023

SAMPLE DUPLICATE: 2424609

Parameter	Units	40248125004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.3	13.1	1	10	

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QUALITY CONTROL DATA

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

QC Batch:	420952	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40248114024, 40248114025, 40248114026, 40248114027, 40248114028, 40248114029, 40248114030, 40248114031, 40248114032, 40248114033, 40248114034

SAMPLE DUPLICATE: 2424678

Parameter	Units	40248124001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.0	16.5	3	10	

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QUALIFIERS

Project: 209-4221563 WM MERCURY WASTE

Pace Project No.: 40248114

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1q Analyte was measured in the associated method blank at a concentration of -0.013mg/kg.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 209-4221563 WM MERCURY WASTE
Pace Project No.: 40248114

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40248114035	RINSE #1	EPA 7470	421864	EPA 7470	421903
40248114036	RINSE #2	EPA 7470	421864	EPA 7470	421903
40248114037	RINSE #3	EPA 7470	421864	EPA 7470	421903
40248114038	RINSE #4	EPA 7470	421864	EPA 7470	421903
40248114001	SP1N1S	EPA 7471	421038	EPA 7471	421081
40248114002	SP1N1BS	EPA 7471	421038	EPA 7471	421081
40248114003	SP1N2S	EPA 7471	421038	EPA 7471	421081
40248114004	SP1N2BS	EPA 7471	421038	EPA 7471	421081
40248114005	SP1E1S	EPA 7471	421038	EPA 7471	421081
40248114006	SP1E1BS	EPA 7471	421038	EPA 7471	421081
40248114007	SP1E2S	EPA 7471	421038	EPA 7471	421081
40248114008	SP1E2BS	EPA 7471	421038	EPA 7471	421081
40248114009	SP1W1S	EPA 7471	421038	EPA 7471	421081
40248114010	SP1W1BS	EPA 7471	421038	EPA 7471	421081
40248114011	SP1W2S	EPA 7471	421038	EPA 7471	421081
40248114012	SP1W2BS	EPA 7471	421038	EPA 7471	421081
40248114013	SP4N1S	EPA 7471	421038	EPA 7471	421081
40248114014	SP4N1BS	EPA 7471	421038	EPA 7471	421081
40248114015	SP4N2S	EPA 7471	421038	EPA 7471	421081
40248114016	SP4N2BS	EPA 7471	421038	EPA 7471	421081
40248114017	SP4W1S	EPA 7471	421038	EPA 7471	421081
40248114018	SP4W1BS	EPA 7471	421038	EPA 7471	421081
40248114019	SP4W2S	EPA 7471	421038	EPA 7471	421081
40248114020	SP4W2BS	EPA 7471	421038	EPA 7471	421081
40248114021	SP5NW1S	EPA 7471	421603	EPA 7471	421680
40248114022	SP5NW1BS	EPA 7471	421603	EPA 7471	421680
40248114023	SP5NW2S	EPA 7471	421603	EPA 7471	421680
40248114024	SP5NW2BS	EPA 7471	421603	EPA 7471	421680
40248114025	SP5SW1S	EPA 7471	421603	EPA 7471	421680
40248114026	SP5SW1BS	EPA 7471	421603	EPA 7471	421680
40248114027	SP5SW2S	EPA 7471	421603	EPA 7471	421680
40248114028	SP5SW2BS	EPA 7471	421603	EPA 7471	421680
40248114029	SP5SE1S	EPA 7471	421603	EPA 7471	421680
40248114030	SP5SE1BS	EPA 7471	421603	EPA 7471	421680
40248114031	SP5SE2S	EPA 7471	421603	EPA 7471	421680
40248114032	SP5SE2BS	EPA 7471	421603	EPA 7471	421680
40248114033	SP5SE3S	EPA 7471	421603	EPA 7471	421680
40248114034	SP5SE3BS	EPA 7471	421603	EPA 7471	421680
40248114001	SP1N1S	ASTM D2974-87	420944		
40248114002	SP1N1BS	ASTM D2974-87	420944		
40248114003	SP1N2S	ASTM D2974-87	420944		
40248114004	SP1N2BS	ASTM D2974-87	420944		
40248114005	SP1E1S	ASTM D2974-87	420949		
40248114006	SP1E1BS	ASTM D2974-87	420949		
40248114007	SP1E2S	ASTM D2974-87	420949		
40248114008	SP1E2BS	ASTM D2974-87	420949		
40248114009	SP1W1S	ASTM D2974-87	420949		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 209-4221563 WM MERCURY WASTE
Pace Project No.: 40248114

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40248114010	SP1W1BS	ASTM D2974-87	420949		
40248114011	SP1W2S	ASTM D2974-87	420949		
40248114012	SP1W2BS	ASTM D2974-87	420949		
40248114013	SP4N1S	ASTM D2974-87	420949		
40248114014	SP4N1BS	ASTM D2974-87	420949		
40248114015	SP4N2S	ASTM D2974-87	420949		
40248114016	SP4N2BS	ASTM D2974-87	420949		
40248114017	SP4W1S	ASTM D2974-87	420949		
40248114018	SP4W1BS	ASTM D2974-87	420949		
40248114019	SP4W2S	ASTM D2974-87	420949		
40248114020	SP4W2BS	ASTM D2974-87	420949		
40248114021	SP5NW1S	ASTM D2974-87	420949		
40248114022	SP5NW1BS	ASTM D2974-87	420949		
40248114023	SP5NW2S	ASTM D2974-87	420949		
40248114024	SP5NW2BS	ASTM D2974-87	420952		
40248114025	SP5SW1S	ASTM D2974-87	420952		
40248114026	SP5SW1BS	ASTM D2974-87	420952		
40248114027	SP5SW2S	ASTM D2974-87	420952		
40248114028	SP5SW2BS	ASTM D2974-87	420952		
40248114029	SP5SE1S	ASTM D2974-87	420952		
40248114030	SP5SE1BS	ASTM D2974-87	420952		
40248114031	SP5SE2S	ASTM D2974-87	420952		
40248114032	SP5SE2BS	ASTM D2974-87	420952		
40248114033	SP5SE3S	ASTM D2974-87	420952		
40248114034	SP5SE3BS	ASTM D2974-87	420952		

REPORT OF LABORATORY ANALYSIS

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40248114

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LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Company: **Tetra Tech** Billing Information: **21211 Durand Avenue, Union Grove, WI 53182**

Address: **8413 Excelsior Dr #160, Madison, WI 53717**

Report To: **Luke Specketer (luke.specketer@tetratech.com)** Email To: **ssmolko@wm.com**

Copy To: **Riley Eklund (riley eklund@tetratech.com)** Site Collection Info/Address: **21211 Durand Avenue, Union Grove, WI 53182**

Customer Project Name/Number: **209-4221563** State: **WI** County/City: **Union Grove** Time Zone Collected: []PT []MT []CT []ET

Phone: **608-346-1677** Site/Facility ID #: **WM Mercury Waste, INC.** Compliance Monitoring? [] Yes [] No

Email: **luke.specketer@tetratech.com**

Collected By (print): **Riley Eklund** Purchase Order #: **957947** DW PWS ID #: _____ DW Location Code: _____

Collected By (signature): *Riley Eklund* Turnaround Date Required: **Standard** Immediately Packed on Ice: [] Yes [] No

Sample Disposal: [] Dispose as appropriate [] Return [] Archive: _____ [] Hold: _____ Rush: (Expedite Charges Apply) [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day Field Filtered (if applicable): [] Yes [] No Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)	Plastic (P) 120 ML Total Mercury
			Date	Time	Date	Time				
SP1W2S	SL	Grab	7/12/2022	12:05						x
SP1W2BS	SL	Grab	7/12/2022	12:10						x
SP4N1S	SL	Grab	7/12/2022	12:30						x
SP4N1BS	SL	Grab	7/12/2022	12:35						x
SP4N2S	SL	Grab	7/12/2022	12:50						x
SP4N2BS	SL	Grab	7/12/2022	12:55						x
SP4W1S	SL	Grab	7/12/2022	14:15						x
SP4W1BS	SL	Grab	7/12/2022	14:20						x
SP4W2S	SL	Grab	7/12/2022	14:40						x
SP4W2BS	SL	Grab	7/12/2022	14:45						x

Container Preservative Type ** Lab Project Manager: _____

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Analyses										Lab Profile/Line:
										Lab Sample Receipt Checklist:
										Custody Seals Present/Intact Y N NA
										Custody Signatures Present Y N NA
										Collector Signature Present Y N NA
										Bottles Intact Y N NA
										Correct Bottles Y N NA
										Sufficient Volume Y N NA
										Samples Received on Ice Y N NA
										VOA - Headspace Acceptable Y N NA
										USDA Regulated Soils Y N NA
										Samples in Holding Time Y N NA
										Residual Chlorine Present Y N NA
										Cl Strips: _____
										Sample pH Acceptable Y N NA
										pH Strips: _____
										Sulfide Present Y N NA
										Lead Acetate Strips: _____
										LAB USE ONLY:
										Lab Sample # / Comments:

011
012
013
014
015
016
017
018
019
020

Customer Remarks / Special Conditions / Possible Hazards: _____

Type of Ice Used: Wet Blue Dry None SHORT HOLDS PRESENT (<72 hours): Y N N/A

Packing Material Used: _____ Lab Tracking #: _____

Radchem sample(s) screened (<500 cpm): Y N NA Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:	
Temp Blank Received: Y N NA	
Therm ID#:	
Cooler 1 Temp Upon Receipt: ____oC	
Cooler 1 Therm Corr. Factor: ____oC	
Cooler 1 Corrected Temp: ____oC	
Comments:	

Relinquished by/Company: (Signature) *Riley Eklund* Date/Time: **7/13/2022 11:00 AM** Received by/Company: (Signature) _____ Date/Time: _____

Relinquished by/Company: (Signature) *Ted Gx* Date/Time: **1005 7/14/22** Received by/Company: (Signature) *Susan Killye Pace* Date/Time: **1005 7/14/22**

Relinquished by/Company: (Signature) _____ Date/Time: _____ Received by/Company: (Signature) _____ Date/Time: _____

MTJL LAB USE ONLY

Table #: _____

Acctnum: _____

Template: _____

Prelogin: _____

PM: _____

PB: _____

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): _____ Page: _____

YES / NO of: _____

40248114

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LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Company: Tetra Tech
 Address: 8413 Excelsior Dr #160, Madison, WI 53717
 Report To: Luke Specketer (luke.specketer@tetratech.com)
 Copy To: Riley Eklund (riley eklund@tetratech.com)

Container Preservative Type **
 Lab Project Manager:
 ** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Customer Project Name/Number: 209-4221563
 State: WI County/City: Union Grove Time Zone Collected: []PT []MT [x]CT []ET
 Phone: 608-346-1677
 Email: luke.specketer@tetratech.com
 Collected By (print): Riley Eklund
 Collected By (signature): Riley Eklund
 Sample Disposal: [x] Dispose as appropriate [] Return [] Archive [] Hold

Analyses
 Lab Profile/Line:
 Lab Sample Receipt Checklist:
 Custody Seals Present/Intact Y N NA
 Custody Signatures Present Y N NA
 Collector Signature Present Y N NA
 Bottles Intact Y N NA
 Correct Bottles Y N NA
 Sufficient Volume Y N NA
 Samples Received on Ice Y N NA
 VOA - Headspace Acceptable Y N NA
 USDA Regulated Soils Y N NA
 Samples in Holding Time Y N NA
 Residual Chlorine Present Y N NA
 Cl Strips: _____
 Sample pH Acceptable Y N NA
 pH Strips: _____
 Sulfide Present Y N NA
 Lead Acetate Strips: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)	Plastic (P) 120 ML Total Mercury
			Date	Time	Date	Time				
SP5NW1S	SL	Grab	7/12/2022	15:05				1	x	
SP5NW1BS	SL	Grab	7/12/2022	15:10				1	x	
SP5NW2S	SL	Grab	7/12/2022	15:30				1	x	
SP5NW2BS	SL	Grab	7/12/2022	15:35				1	x	
SP5SW1S	SL	Grab	7/12/2022	15:55				1	x	
SP5SW1BS	SL	Grab	7/12/2022	16:00				1	x	
SP5SW2S	SL	Grab	7/12/2022	16:10				1	x	
SP5SW2BS	SL	Grab	7/12/2022	16:15				1	x	
SP5SE1S	SL	Grab	7/12/2022	16:30				1	x	
SP5SE1BS	SL	Grab	7/12/2022	16:35				1	x	

LAB USE ONLY:
 Lab Sample # / Comments:
 021
 022
 023
 024
 025
 026
 027
 028
 029
 030

Customer Remarks / Special Conditions / Possible Hazards:
 Type of Ice Used: Wet Blue Dry None
 Packing Material Used:
 Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A
 Lab Tracking #:
 Samples received via:
 FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
 Temp Blank Received: Y N NA
 Therm ID#:
 Cooler 1 Temp Upon Receipt: ___oC
 Cooler 1 Therm Corr. Factor: ___oC
 Cooler 1 Corrected Temp: ___oC
 Comments:

Relinquished by/Company (Signature): *Riley Eklund*
 Date/Time: 7/13/2022 11:00 AM
 Relinquished by/Company (Signature): *Fed Ex*
 Date/Time: 7/14/22 1005
 Relinquished by/Company (Signature):
 Date/Time:

Received by/Company (Signature): *Susan K. White Pace*
 Date/Time: 7/14/22 1005
 MTJL LAB USE ONLY
 Table #:
 Acctnum:
 Template:
 Prelogin:
 PM:
 PB:
 Trip Blank Received: Y N NA
 HCL MeOH TSP Other
 Non Conformance(s):
 YES / NO
 Page: ___ of: ___

402418114

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ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Company: **Tetra Tech** Billing Information: **21211 Durand Avenue, Union Grove, WI 53182**
 Address: **8413 Excelsior Dr #160, Madison, WI 53717**
 Report To: **Luke Specketer (luke.specketer@tetratech.com)** Email To: **ssmolko@wm.com**
 Copy To: **Riley Eklund (riley eklund@tetratech.com)** Site Collection Info/Address: **21211 Durand Avenue, Union Grove, WI 53182**

Customer Project Name/Number: **209-4221563** State: **WI** County/City: **Union Grove** Time Zone Collected: []PT []MT [x]CT []ET
 Phone: **608-346-1677** Site/Facility ID #: **WM Mercury Waste, INC.** Compliance Monitoring? [x] Yes [] No
 Email: **luke.specketer@tetratech.com**
 Collected By (print): **Riley Eklund** Purchase Order #: **957947** DW PWS ID #: _____
 Quote #: _____ DW Location Code: _____
 Collected By (signature): *Riley Eklund* Turnaround Date Required: **Standard** Immediately Packed on Ice: [x] Yes [] No
 Sample Disposal: Rush: (Expedite Charges Apply) Field Filtered (if applicable):
 [x] Dispose as appropriate [] Same Day [] Next Day [] Yes [x] No
 [] Return [] 2 Day [] 3 Day [] No
 [] Archive: _____ [] 4 Day [] 5 Day
 [] Hold: _____ Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)	Plastic (P) 120 ML Total Mercury
			Date	Time	Date	Time				
SP5SE2S	SL	Grab	7/12/2022	16:45						x
SP5SE2BS	SL	Grab	7/12/2022	16:50						x
SP5SE3S	SL	Grab	7/12/2022	17:05						x
SP5SE3BS	SL	Grab	7/12/2022	17:10						x

Container Preservative Type ** Lab Project Manager:
 U
 ** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Analyses										Lab Profile/Line:
										Lab Sample Receipt Checklist
										Custody Seals Present/Intact Y N NA
										Custody Signatures Present Y N NA
										Collector Signature Present Y N NA
										Bottles Intact Y N NA
										Correct Bottles Y N NA
										Sufficient Volume Y N NA
										Samples Received on Ice Y N NA
										VOA - Headspace Acceptable Y N NA
										USDA Regulated Soils Y N NA
										Samples in Holding Time Y N NA
										Residual Chlorine Present Y N NA
										Cl Strips:
										Sample pH Acceptable Y N NA
										pH Strips: _____
										Sulfide Present Y N NA
										Lead Acetate Strips: _____
										LAB USE ONLY:
										Lab Sample # / Comments:

031
032
033
034

Customer Remarks / Special Conditions / Possible Hazards: Type of Ice Used: Wet Blue Dry None SHORT HOLDS PRESENT (<72 hours): Y N N/A
 Packing Material Used: Lab Tracking #: _____
 Radchem sample(s) screened (<500 cpm): Y N NA Samples received via: FEDEX UPS Client Courier Pace Courier

Relinquished by/Company: (Signature) <i>Riley Eklund</i>	Date/Time: 7/13/2022 11:00 AM	Received by/Company: (Signature) <i>Susan Kelly Pace</i>	Date/Time: 7/14/22 1005	MTJL LAB USE ONLY	Temp Blank Received: Y N NA
Relinquished by/Company: (Signature) <i>Tom G</i>	Date/Time: 7/14/22	Received by/Company: (Signature) <i>Susan Kelly Pace</i>	Date/Time: 7/14/22 1005	Table #:	Therm ID#:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Acctnum:	Cooler 1 Temp Upon Receipt: ___oC
				Template:	Cooler 1 Therm Corr. Factor: ___oC
				Prelogin:	Cooler 1 Collected Temp: ___oC
				PM:	Comments: <i>①</i>
				PB:	Trip Blank Received: Y N NA
					HCL MeOH TSP Other
					Non Conformance(s): Page: _____
					YES / NO of: _____

40248114

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ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Company: Tetra Tech
 Address: 8413 Excelsior Dr #160, Madison, WI 53717
 Report To: Luke Specketer (luke.specketer@tetratech.com)
 Copy To: Riley Eklund (riley eklund@tetratech.com)

Container Preservative Type **
 1
 Lab Project Manager:
 ** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Customer Project Name/Number: 209-4221563
 State: WI County/City: Union Grove Time Zone Collected: []PT []MT [x]CT []ET
 Phone: 608-346-1677
 Email: luke.specketer@tetratech.com
 Collected By (print): Riley Eklund
 Site/Facility ID #: WM Mercury Waste, INC.
 Compliance Monitoring? [x] Yes [] No
 Purchase Order #: 957947
 Quote #:
 Turnaround Date Required: Standard
 Immediately Packed on Ice: [x] Yes [] No
 Field Filtered (if applicable): [] Yes [x] No
 Analysis: _____
 Sample Disposal: [x] Dispose as appropriate [] Return [] Archive [] Hold
 Rush: (Expedite Charges Apply) [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day

Analyses										Lab Profile/Line:
										Lab Sample Receipt Checklist: Custody Seals Present/Intact Y N NA Custody Signatures Present Y N NA Collector Signature Present Y N NA Bottles Intact Y N NA Correct Bottles Y N NA Sufficient Volume Y N NA Samples Received on Ice Y N NA VOA - Headspace Acceptable Y N NA USDA Regulated Solids Y N NA Samples in Holding Time Y N NA Residual Chloride Present Y N NA Cl Strips: _____ Sample pH Acceptable Y N NA pH Strips: _____ Sulfide Present Y N NA Lead Acetate Strips: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)
			Date	Time	Date	Time			
Rinse #1	WW	Grab	7/12/2022	11:30				1	x
Rinse #2	WW	Grab	7/12/2022	13:00				1	x
Rinse #3	WW	Grab	7/12/2022	15:40				1	x
Rinse #4	WW	Grab	7/12/2022	17:20				1	x

Plastic (P) 250 ML Total Mercury									
----------------------------------	--	--	--	--	--	--	--	--	--

Customer Remarks / Special Conditions / Possible Hazards:
 Type of Ice Used: Wet Blue Dry None
 Packing Material Used:
 Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A
 Lab Tracking #:
 Samples received via:
 FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
 Temp Blank Received: Y N NA
 Therm ID: _____
 Cooler 1 Temp Upon Receipt: ____oC
 Cooler 1 Therm Corr. Factor: ____oC
 Cooler 1 Corrected Temp: ____oC
 Comments:

Relinquished by/Company (Signature): *Riley Eklund*
 Date/Time: 7/13/2022 11:00 AM
 Received by/Company (Signature): *Susan K. Pace*
 Date/Time: 7/14/22 1005

MTJL LAB USE ONLY
 Table #:
 Acctnum:
 Template:
 Prelogin:
 PM:
 PB:
 Trip Blank Received: Y N NA
 HCL MeOH TSP Other
 Non Conformance(s): Page: _____
 YES / NO of: _____

035
036
037
038

Client Name: Tetra Tech Sample Preservation Receipt Form
 Project #: 40248114

Pace Lab #	Glass							Plastic					Vials					Jars				General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act. pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)				
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JG9U	JG9U	WG9U	WPFU	SP5T								ZPLC	GN		
021																																			2.5 / 5 / 10
022																																			2.5 / 5 / 10
023																																			2.5 / 5 / 10
024																																			2.5 / 5 / 10
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Sample Condition Upon Receipt Form (SCUR)

Client Name: Tetra Tech

Project #:

WO#: 40248114

Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other:



Tracking #: 2754 9260 5817

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR - 117 Type of Ice: Wet Blue Dry None

Samples on ice, cooling process has begun

Cooler Temperature Uncorr: -0.5 / Corr: 0

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Person examining contents:
 Date: 7/14/22 / Initials: SKW
 Labeled By Initials: MP

Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>Pg#</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>S+W</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

7/14/22
SKW

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample login

August 22, 2022

Luke Specketer
TETRATECH - Madison
8413 Excelsior Drive
Madison, WI 53717

RE: Project: 209-4221563 WM MERCURY SOL.
Pace Project No.: 40250049

Dear Luke Specketer:

Enclosed are the analytical results for sample(s) received by the laboratory on August 18, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: 209-4221563 WM MERCURY SOL.

Pace Project No.: 40250049

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 209-4221563 WM MERCURY SOL.

Pace Project No.: 40250049

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40250049001	4N1	Solid	08/17/22 11:20	08/18/22 09:25
40250049002	4N1B	Solid	08/17/22 11:30	08/18/22 09:25

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 209-4221563 WM MERCURY SOL.

Pace Project No.: 40250049

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40250049001	4N1	EPA 7471	AJT	1
		ASTM D2974-87	PDV	1
40250049002	4N1B	EPA 7471	AJT	1
		ASTM D2974-87	PDV	1

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 209-4221563 WM MERCURY SOL.

Pace Project No.: 40250049

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40250049001	4N1					
EPA 7471	Mercury	0.038J	mg/kg	0.041	08/22/22 09:47	
ASTM D2974-87	Percent Moisture	15.2	%	0.10	08/19/22 11:02	
40250049002	4N1B					
EPA 7471	Mercury	11.9	mg/kg	0.37	08/22/22 10:17	
ASTM D2974-87	Percent Moisture	12.0	%	0.10	08/19/22 11:02	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY SOL.

Pace Project No.: 40250049

Sample: 4N1 **Lab ID: 40250049001** Collected: 08/17/22 11:20 Received: 08/18/22 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	0.038J	mg/kg	0.041	0.012	1	08/22/22 06:26	08/22/22 09:47	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	15.2	%	0.10	0.10	1		08/19/22 11:02		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 209-4221563 WM MERCURY SOL.

Pace Project No.: 40250049

Sample: 4N1B **Lab ID: 40250049002** Collected: 08/17/22 11:30 Received: 08/18/22 09:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Green Bay								
Mercury	11.9	mg/kg	0.37	0.11	10	08/22/22 06:26	08/22/22 10:17	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay								
Percent Moisture	12.0	%	0.10	0.10	1		08/19/22 11:02		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 209-4221563 WM MERCURY SOL.

Pace Project No.: 40250049

QC Batch: 423909

Analysis Method: EPA 7471

QC Batch Method: EPA 7471

Analysis Description: 7471 Mercury

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40250049001, 40250049002

METHOD BLANK: 2441364

Matrix: Solid

Associated Lab Samples: 40250049001, 40250049002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.010	0.035	08/22/22 09:42	

LABORATORY CONTROL SAMPLE: 2441365

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.83	0.83	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2441366 2441367

Parameter	Units	2441366		2441367		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40250049001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Mercury	mg/kg	0.038J	0.97	0.98	1.0	1.0	100	99	85-115	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 209-4221563 WM MERCURY SOL.

Pace Project No.: 40250049

QC Batch: 423914

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40250049001, 40250049002

SAMPLE DUPLICATE: 2441408

Parameter	Units	40250050012 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.9	17.4	3	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 209-4221563 WM MERCURY SOL.

Pace Project No.: 40250049

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 209-4221563 WM MERCURY SOL.

Pace Project No.: 40250049

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40250049001	4N1	EPA 7471	423909	EPA 7471	424010
40250049002	4N1B	EPA 7471	423909	EPA 7471	424010
40250049001	4N1	ASTM D2974-87	423914		
40250049002	4N1B	ASTM D2974-87	423914		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or

MTJL Log-In Number Here

40250049

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Company: Tetra Tech
Billing Information: 8413 Excelsior Drive, Suite 160, Madison, WI 53717
Address: 8413 Excelsior Dr, Suite 160, Madison, WI 53717
Report To: Luke Specketer (luke.specketer@tetrattech.com)
Email To: Luke Specketer (luke.specketer@tetrattech.com)
Copy To: Riley Eklund (riley eklund@tetrattech.com)
Site Collection Info/Address: 21211 Durand Avenue, Union Grove, WI 53182
Customer Project Name/Number: 209-4221563
State: WI County/City: Union Grove Time Zone Collected: []PT []MT [x]CT []ET

Container Preservative Type **
Lab Project Manager:
** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Phone: 608-346-1677
Email: luke.specketer@tetrattech.com
Collected By (print): Riley Eklund
Purchase Order #:
Quote #:
Turnaround Date Required: 2 Day
Sample Disposal: [x] Dispose as appropriate [] Return [] Archive: [] Hold:
Rush: (Expedite Charges Apply) [] Same Day [] Next Day [x] 2 Day [] 3 Day [] 4 Day [] 5 Day
Field Filtered (if applicable): [] Yes [x] No
Analysis:
Compliance Monitoring? [x] Yes [] No
DW PWS ID #:
DW Location Code:
Immediately Packed on Ice: [x] Yes [] No

Table with columns for Analyses and Container Type: Plastic (P) or Glass (G). Row 1: Plastic (P) 120 ML Total Mercury.

Lab Profile/Line:
Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Solids Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips:
Sample pH Acceptable Y N NA
pH Strips:
Sulfide Present Y N NA
Lead Acetate Strips:
LAB USE ONLY:
Lab Sample # / Comments:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Table with columns: Customer Sample ID, Matrix *, Comp / Grab, Collected (or Composite Start) Date/Time, Composite End Date/Time, Res Cl, # of Ctns. Rows: 4N1, 4N1B.

Customer Remarks / Special Conditions / Possible Hazards:
Type of Ice Used: Wet Blue Dry None
Packing Material Used:
Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A
Lab Tracking #:
Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#:
Cooler 1 Temp Upon Receipt: °C
Cooler 1 Therm Corr. Factor: °C
Cooler 1 Corrected Temp: °C
Comments:

Relinquished by/Company: (Signature)
Date/Time: 8/17/2022 4:40 pm
Relinquished by/Company: (Signature)
Date/Time: 8/18/22 0925
Relinquished by/Company: (Signature)

Received by/Company: (Signature)
Date/Time:
Received by/Company: (Signature)
Date/Time: 8/18/22 0925
Received by/Company: (Signature)

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other
Non Conformance(s):
Page:
of:
YES / NO

Sample Preservation Receipt Form

Client Name: Tetra Tech

Project # 40250049

All containers needing preservation have been checked and noted below: Yes No N/A

Initial when completed:

Date/Time:

Lab Lot# of pH paper:

Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass							Plastic					Vials					Jars				General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)				
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC								GN			
001																																			2.5 / 5 / 10
002																																			2.5 / 5 / 10
003																																			2.5 / 5 / 10
004																																			2.5 / 5 / 10
005																																			2.5 / 5 / 10
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019																																			2.5 / 5 / 10
020																																			2.5 / 5 / 10

8/18/22
 JW

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : Yes No N/A *If yes look in headspace column


AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9A	40 mL clear ascorbic	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG5U	100 mL amber glass unpres			VG9D	40 mL clear vial DI	ZPLC	ziploc bag
AG2S	500 mL amber glass H2SO4					GN	
BG3U	250 mL clear glass unpres						

Sample Condition Upon Receipt Form (SCUR)

Client Name: TetraTech Project #: _____

Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____

Tracking #: 7912 8838 6696

WO#: **40250049**

 40250049

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no
 Custody Seal on Samples Present: yes no Seals intact: yes no
 Packing Material: Bubble Wrap Bubble Bags None Other _____
 Thermometer Used SR-115 Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun
 Cooler Temperature Uncorr: 1.5 /Corr: 1.1
 Temp Blank Present: Yes no Biological Tissue is Frozen: yes no
 Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:
 Date: 8/18/22 /Initials: AW
 Labeled By Initials: PDV

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested: <u>8/18/22</u>	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>S</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logi