2021 LANDFILL GAS AND GROUNDWATER MONITORING REPORT

BARRETT LANDFILL

21001 W Coffee Road, New Berlin, Wisconsin 53146| April 2022

Prepared For:

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1 SITE INFORMATION

The Barrett Landfill is located in the western portion of the City of New Berlin, in Waukesha County, Wisconsin. Figure 1 shows the location of the landfill and locations of the private wells. Figure 2 shows topography of the Site. The site can be accessed from two separate locations, one on Coffee Road and one on Swartz Road and has the following WDNR associated identification numbers:

Site Address: 21001 Coffee Road, New Berlin Wisconsin 53151
Main Entrance Address: 3601 S. Swartz Road, New Berlin, Wisconsin 53151
FID (Facility Identification Number): 268134130
BRRTS Number: 09-68-534609
Solid Waste License Number: 1940

1.1 SITE BACKGROUND

The 39-acre property was a gravel mining pit that was filled with waste once mining operations ceased. When operational, the landfill accepted a variety of wastes including industrial, construction and demolition, ash, foundry sand, asbestos, vehicle shredding fluff and tannery hides. Some waste was open burned.

A leachate collection system was installed in a portion of the landfill. The extent of this system was not documented nor was it constructed over an engineered liner, but likely over less permeable soils. Leachate from the system collects in a sump/lift station and is pumped to a collection tank near the main entrance on S. Swartz Road.

Monitoring of the landfill gas probes, groundwater monitoring wells and private water supply wells was last conducted in 2019 by Kapur Inc.

2 BIENNIAL MONITORING

Monitoring events at the Barrett Landfill occurs biennially, during the fall of odd-numbered years. During this monitoring event, twenty-seven gas probes, thirteen private water supply wells, and seventeen groundwater monitoring wells/piezometers were sampled by Kapur. Monitoring locations are provided on Figure 1. Field forms can be found in Appendix A. The monitoring results are included in the GEMS submittal for this monitoring event and are presented in Section 3.

2.1 LANDFILL GAS MONITORING

The objective of the landfill gas monitoring program is to monitor the concentration of the landfill gases at the site boundary to ensure that potential gas migration away from the site and towards nearby buildings does not pose a risk. Monitoring of the gas probes (GP-1 through GP-12) was completed on December 20, 2021. Landfill gas was measured at gas probes around the perimeter of the landfill. Twenty-seven measurements were collected from twelve gas probe locations. Majority of the gas probes are installed in clusters to provide monitoring of gas measurements at varying depths (S=Shallow, M=Medium, D=Deep). Currently, GP-4 and GP-7 are listed in the monitoring plan, however these probes have either been previously abandoned or lost. Information on each of the gas probes is provided on the field form in Appendix A.

The gas probes were analyzed for barometric, temperature, percent volume carbon dioxide (CO_2), percent volume oxygen (O_2), percent volume and percent lower explosive limit (LEL) methane (CH_4). Collection of measurements from the gas probes was conducted using a Landtec GEM 5000 Landfill Gas Meter. Gas probe field monitoring forms are provided in Appendix A.

The monitoring results (barometric pressure, pressure trend, percent volume carbon dioxide (CO_2), percent volume oxygen (O_2), and percent LEL methane (CH_4)) are included in the GEMS submittal for this monitoring event.

2.2 GROUNDWATER MONITORING WELLS

A total of seventeen (17) monitoring wells are included in the Operation and Maintenance Plan. Groundwater monitoring was conducted during December 2021, and in accordance with Sampling Analysis Plan (Kapur, 2019). Historic results were reviewed to determine a sampling order. Sampling was conducted from least contaminated, to most contaminated where accessibility permitted and within each well nest. The pump and tubing were decontaminated after each well using a trisodium phosphate (TSP) powder and distilled water and rinsed with distilled water.

Each well sampled using low-flow sampling techniques, utilizing a submersible Proactive Monsoon pump (used with a flow control regulator) and 3/8" vinyl tubing to purge each well. The initial temperature (°C), pH (units), conductivity (25°C), oxidation reduction potential (ORP), Dissolved Oxygen (DO) (mg/L and %) were recorded, and sampling was conducted when three consecutive readings have become stable within 10% of each parameter.

Wells that had significant drawdown (greater than 1 foot), were purged of 3 well casing volumes. Once desired volume was purged, the pump was left in the well until the water recharged enough to be sampled. Temperature, specific conductivity and pH were measured using a handheld Hanna meter. Olfactory color, odor and turbidity was recorded.

All samples were collected using the submersible pumps. All purge water that had exceeded a ch. NR 140 standard during the 2019 sampling event, and all water used in decontamination procedures was disposed of in the leachate storage tank on the eastern portion of the Site.

Each well was sampled for metals (arsenic, lead, nickel, manganese, magnesium, chromium), chloride, sulfates, total kjeldahl nitrogen (TKN), and nitrate plus nitrite. A disposable 0.45-micron filter was connected to the end of the discharge tubing for the samples to be field filtered.

The following laboratory provided bottles were field filtered (using a disposable, in-line 0.45-micron filter) for the following grouping of samples:

- 250 mL plastic HNO3 - Metals (As, Pb, Ni, Mn, Mg, Cr)
- 250 mL plastic Unpreserved - Chloride, Sulfate
- 250 mL plastic H2SO4 - Nitrate plus Nitrate, TKN

One duplicate sample, one field blank and one equipment blank was collected during sampling of the groundwater monitoring wells. The duplicate sample was collected at B-94-25A (this was denoted as B-94-25 on the chain-of-custody, but was a sampler's error, and should have been denoted as B-94-25A as stated on the field form). The field blank was collected by filling sampling containers with distilled water. The equipment blank was collected at the completion of sampling. The pump was decontaminated, connected to the same tubing that was used during the sampling event, and placed in a jug of distilled water. The pump was turned on and sample bottles were filled with the distilled water.

All samples were delivered to a courier, and transported to Pace Analytical in Green Bay, Wisconsin for analysis.

2.3 GROUNDWATER ELEVATION

The depth to water was measured at all monitoring wells that are included in the sampling plan using a Heron Dipper-T Water Level Indicator. Measurements were recorded to the nearest 0.01 foot. The water level indicator was rinsed with distilled water in between each location. The water was contained and disposed of in the leachate storage tank with the other decontamination water.

2.4 PRIVATE WATER SUPPLY WELLS

Monitoring of private water supply wells was conducted during December 2021.

Prior to sampling, letters were sent out by Kapur to notify the property owner of the sampling event. In the letter it urged the property owner to contact Kapur to schedule sampling of their private water supply well. If no response from the property owner was received, Kapur stopped by the residence and hand delivered a second letter. If property owner was home, sampling was conducted at that time.

One property owner was unresponsive: Munoz (GEMS ID 237). The Munoz residence is under new ownership of Beverly Hardy and Charlotte Behr since 2017 (the last sampling event where a sample was obtained). One property owner did not give Kapur permission to sample: Meyer (GEMS ID 238). The Meyer residence is under new ownership since the last sampling event in 2019. A sample from these private water supply wells was not obtained at the time of this report.

Samples were collected from either an outdoor spigot or the closest location to the pump inside the home (without going through treatment devices). The spigot or a faucet inside the home were turned on for 20 minutes (or until a minimum of 50 gallons had been purged from the well).

Each well was sampled for metals (arsenic, lead, chromium, manganese, magnesium), chloride, and nitrate plus nitrite. The following laboratory provided bottles will be field filtered for the following grouping of samples:

- 250 mL plastic HNO3 - Metals (As, Pb, Cr, Mn, Mg)
- 250 mL plastic Unpreserved - Chloride
- 250 mL plastic H2SO4 - Nitrate plus Nitrate

Samples were collected by filling the bottles directly from a spigot/faucet nearest to where the well water enters the home. If collected inside, this location may be different from the purge location. If collected from an outdoor spigot, the hose that was used to run the water away from the home was detached from the spigot, and the sample was collected directly from the spigot. Temperature, specific conductivity and pH were measured using a handheld Hanna meter. Olfactory color, odor and turbidity was recorded.

All samples were delivered to a courier, and transported to Pace Analytical in Green Bay, Wisconsin for analysis.

After receipt of the laboratory results, letters were drafted to each property owner (and approved by the WDNR) with the results of sampling and an explanation of results included.

3 RESULTS

3.1 LANDFILL GAS MONITORING RESULTS

During monitoring activities, the background methane was reading 0.0-0.2% volume (0.0%-4.0% LEL). The landfill gas meter had recently been sent in for factory calibration, and per the manufacturer, the 0.2% volume is within calibration limits. GP-8S methane was detected above the background level at 0.3% volume/6.0% LEL.

3.2 GROUNWATER MONITORING WELL RESULTS

Groundwater samples were collected from seventeen (17) onsite groundwater monitoring wells/piezometers. The analytical results indicated that arsenic and manganese are elevated and exceed the associated ch. NR 140 Enforcement Standard (ES), additionally chloride, sulfate and nitrogen (NO_2 plus NO_3) exceed the associated ch. NR 140 Preventive Action Limit (PAL). Chromium, lead, and nickel had no exceedances of any ch. NR 140 standard. Magnesium and TKN do not have established standards.

Chloride

Chloride was not detected exceeding the ES of 250 mg/L in any location sampled.

Chloride was detected exceeding the PAL of 125 mg/L in three locations:

- B-15 (GEMS ID 225)
- B-94-25A/B-94-25A Dup (906)

Sulfate

Sulfate was not detected exceeding the ES of 250 mg/L in any location sampled.

Sulfate was detected exceeding the PAL of 125 mg/L in one location:

- B-94-14A (GEMS ID 903)

Nitrogen (NO_2 plus NO_3)

Nitrogen (NO_2 plus NO_3) was not detected exceeding the ES of 10 mg/L in any location sampled.

Nitrogen (NO_2 plus NO_3) was detected exceeding the PAL of 2.0 mg/L in two locations:

- B-94-25 (GEMS ID 905)
- B-96-17 (GEMS ID 913)

Arsenic

Arsenic was detected exceeding the ES of 10 ug/L in two locations:

- B-15 (GEMS ID 225)
- B-94-25A/B-94-25A Dup (906)

Arsenic was not detected exceeding the PAL of 1.0 ug/L in any of the other locations sampled.

Manganese

Manganese was detected exceeding the ES of 300 ug/L in one location:

- B-21 (GEMS ID 252).

Manganese was detected exceeding the PAL of 60 ug/L in three locations:

- B-15 (GEMS ID 225)
- B-15A (GEMS ID 251)
- B-96-18B (GEMS ID 916)

Field and Equipment Blanks

There were no detections of any parameter analyzed in the field blank. The equipment blank had detections of chloride, arsenic, chromium, lead, magnesium, manganese, nickel and nitrogen (NO_2 plus NO_3). The only parameter with an exceedance was nitrogen (NO_2 plus NO_3). It was detected exceeding the PAL of 2.0 mg/L. The equipment blank was collected following collection of B-94-25A/B-94-25A Dup, which had no detection of nitrogen (NO_2 plus NO_3). In future sampling events, special care will be taken to change the decontamination water at a minimum of one time per day, and to make sure wells are sampled in a "clean" to "dirty" order.

Monitoring wells B-96-13A (GEMS ID 911), B-94-14R (GEMS ID 902), B-21A (GEMS ID 253), B-96-17A (GEMS ID 914), B-96-18A (GEMS ID 915), B-94-19A (GEMS ID 904), W-23 (GEMS ID 259), W-23A (GEMS ID 259), W-23A (GEMS ID 260), and W-24 (GEMS ID 263) had no exceedances of any ch. NR 140 standard. Analytical results are presented on Figure 2. Laboratory reports are presented in Appendix B.

3.3 GROUNDWATER ELEVATION

The depth to water was measured at all monitoring wells that are included in the sampling plan. Most of the monitoring wells in the monitoring plan are located within well nests (clusters) around the site and extend to different depths, shallow and deep. Using the shallower of the two wells, and any stand-alone wells, the groundwater elevations were plotted on Figure 4. The general groundwater flow is to the north northwest and then turns to the west at the northern end of the property.

3.4 PRIVATE WATER SUPPLY WELL RESULTS

Water samples were collected from thirteen (13) private water supply wells at properties near or adjacent to the Barrett Landfill. The analytical results indicated of the wells sampled, there were no ch. NR 140 ES exceedances of any parameter analyzed. Lead, arsenic, chloride, and manganese had exceedances of the associated ch. NR 140 PAL. Magnesium, chromium, and nitrogen (NO_2 plus NO_3) had no exceedances of any ch. NR 140 standard.

Chloride

Chloride was not detected exceeding the ES of 250ug/L in any location sampled.

Chloride was detected exceeding the PAL of 125 mg/L in two locations:

- Servi (GEMS ID 239)
- Sri Lakshmi Narashimha Temple (GEMS ID 950)

Arsenic

Arsenic was not detected exceeding the ES of 10 ug/L in any location sampled.

Arsenic was detected exceeding the PAL of 1.0 ug/L in five locations:

- Christiansen (GEMS ID 953)
- Kowis (GEMS ID 246)
- Sanchez (GEMS ID 951)
- Sanfelippo (GEMS ID 236)
- Schmidt (GEMS ID 952)

Lead

Lead was not detected exceeding the ES of 15 ug/L in any location sampled.

Lead was detected exceeding the PAL of 1.5 ug/L in three locations:

- Heun (GEMS ID 241)
- Rhyner (GEMS ID 240)
- Sanchez (GEMS ID 951)
- Christiansen (GEMS ID 953)

Manganese

Manganese was not detected exceeding the ES of 300 ug/L in any location sampled.

Manganese was detected exceeding the PAL of 60 ug/L in one location:

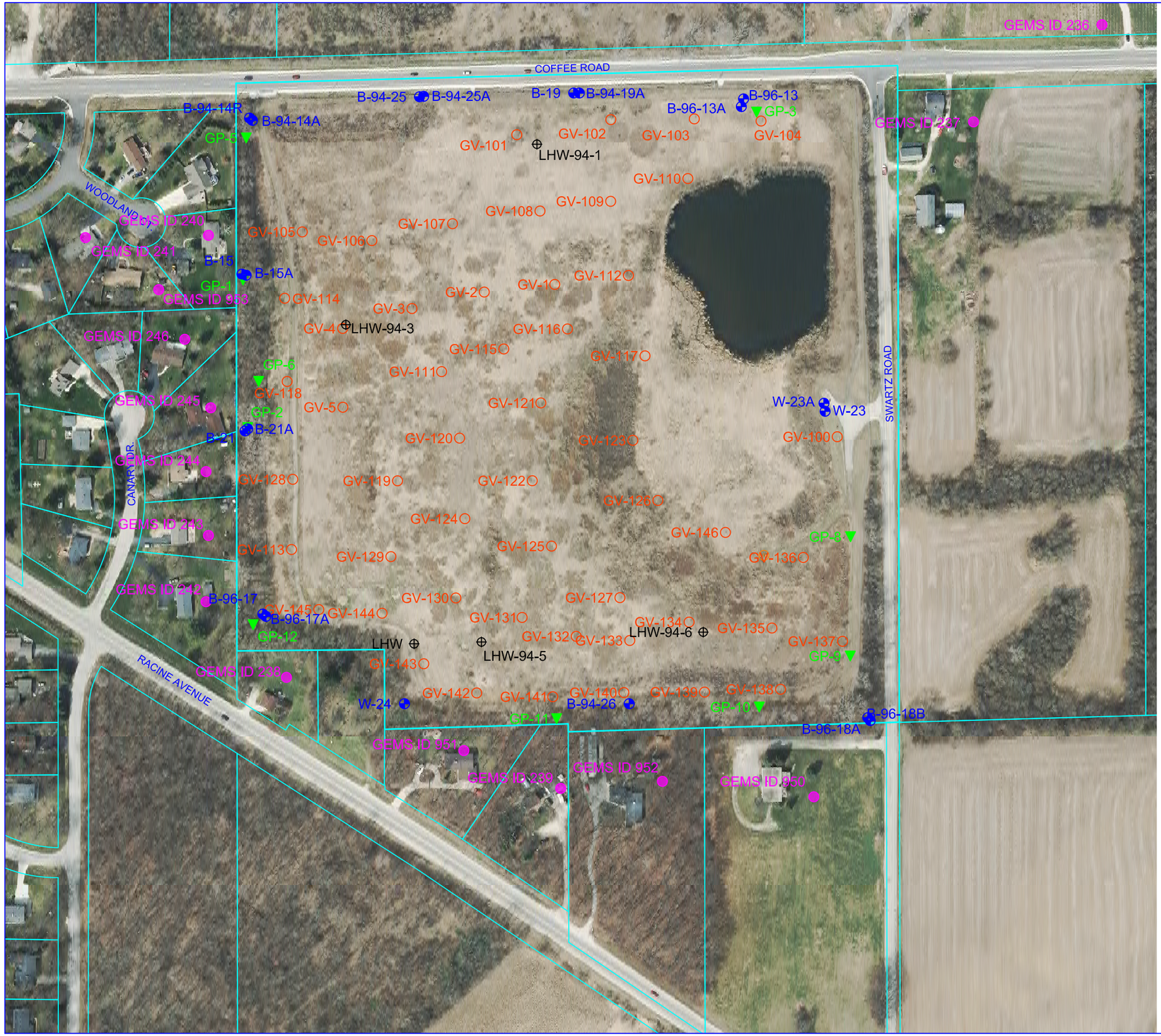
- Sanfelippo (GEMS ID 236)

Private water supply wells at the Berghammer (GEMS ID 245), Werning (GEMS ID 244), Whitehaus (GEMS ID 242) and Wyszkowski (GEMS ID 243) residences had no exceedances of any ch. NR 140 Public Health standard. A sample was not obtained by the time of this report from the private water supply well at the Munoz (GEMS ID 237) and Meyer (GEMS ID 238) residences. In the event where the property owner contacts Kapur, sampling will be scheduled, and those results will be reported at that time. Analytical results are presented on Figure 3. Laboratory reports are presented in Appendix B.

4 CONCLUSION

Based off the 2021 gas and groundwater monitoring findings, these results are consistent with historical results and are showing a general stable trend in concentrations. All results within this report are included in the GEMS submittal.

FIGURES



LEGEND

GP-3▼	GAS PROBE
PRIVATE WELL●	PRIVATE WELL
LHW-2⊕	LEACHATE HEAD WELL
MW-1◕	MONITORING WELL
GV-136○	GAS VENT

kapur
7711 N. Port Washington Road
Milwaukee, Wisconsin 53217
kapurinc.com

PROJECT:
BARRETT LANDFILL PROJECT

LOCATION:
NEW BERLIN, WISCONSIN

CLIENT:

NORTH ARROW:

SCALE: 1" = 200'
0 100 200

SEAL:
all in

SHEET:
SITE LAYOUT

DESIGNED BY:	XXX
DRAWN BY:	XXX
CHECKED BY:	XXX
APPROVED BY:	XXX
DATE:	12/09/2019

PROJECT NO. 190007.01
FIGURE: 1

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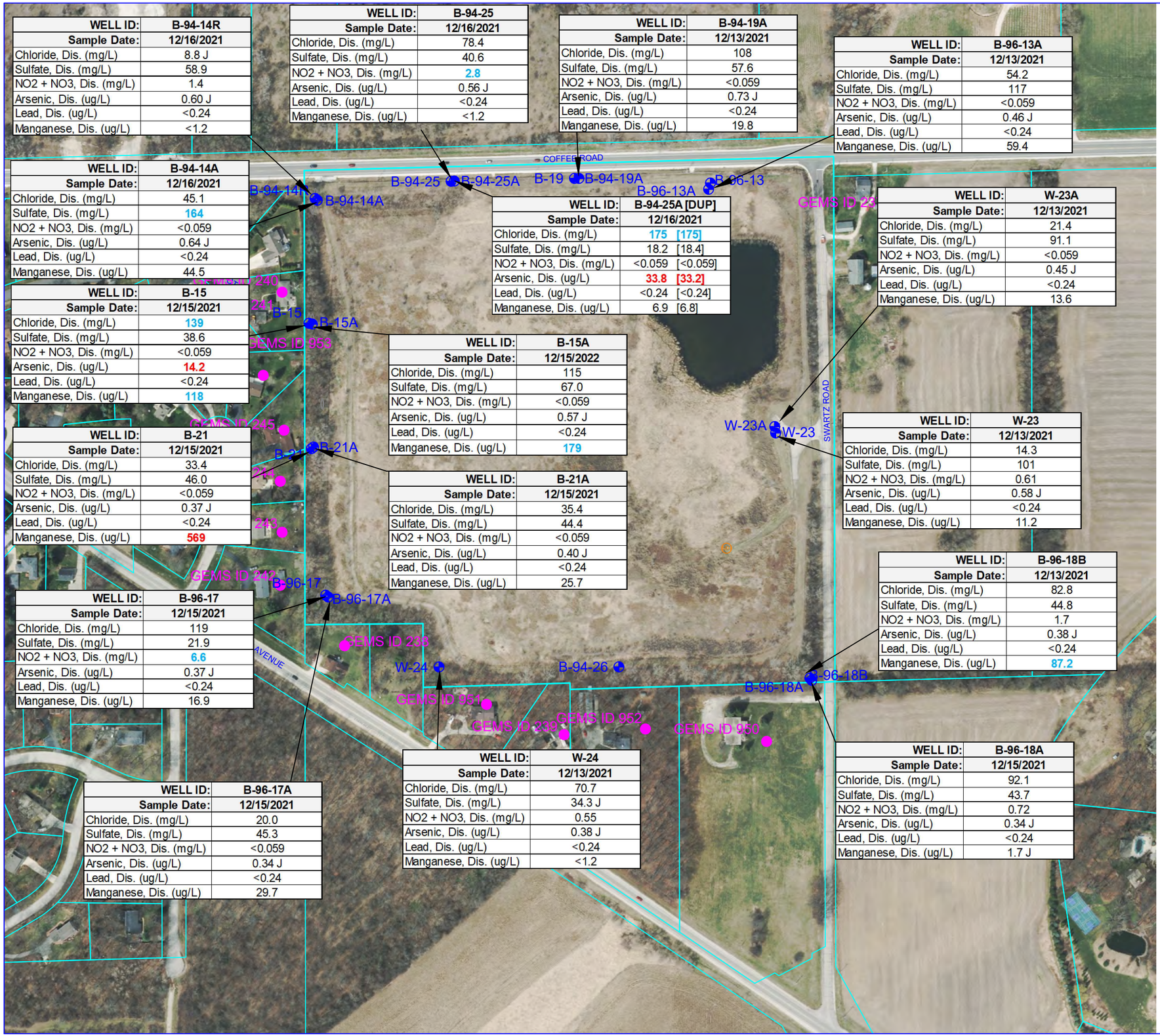

WELL ID:	B-94-14R
Sample Date:	12/16/2021
Chloride, Dis. (mg/L)	8.8 J
Sulfate, Dis. (mg/L)	58.9
NO2 + NO3, Dis. (mg/L)	1.4
Arsenic, Dis. (ug/L)	0.60 J
Lead, Dis. (ug/L)	<0.24
Manganese, Dis. (ug/L)	<1.2

WELL ID:	B-94-25
Sample Date:	12/16/2021
Chloride, Dis. (mg/L)	78.4
Sulfate, Dis. (mg/L)	40.6
NO2 + NO3, Dis. (mg/L)	2.8
Arsenic, Dis. (ug/L)	0.56 J
Lead, Dis. (ug/L)	<0.24
Manganese, Dis. (ug/L)	<1.2

WELL ID:	B-94-19A
Sample Date:	12/13/2021
Chloride, Dis. (mg/L)	108
Sulfate, Dis. (mg/L)	57.6
NO2 + NO3, Dis. (mg/L)	<0.059
Arsenic, Dis. (ug/L)	0.73 J
Lead, Dis. (ug/L)	<0.24
Manganese, Dis. (ug/L)	19.8

WELL ID:	B-96-13A
Sample Date:	12/13/2021
Chloride, Dis. (mg/L)	54.2
Sulfate, Dis. (mg/L)	117
NO2 + NO3, Dis. (mg/L)	<0.059
Arsenic, Dis. (ug/L)	0.46 J
Lead, Dis. (ug/L)	<0.24
Manganese, Dis. (ug/L)	59.4

WELL ID:	B-94-14A
Sample Date:	12/16/2021
Chloride, Dis. (mg/L)	45.1
Sulfate, Dis. (mg/L)	164
NO2 + NO3, Dis. (mg/L)	<0.059
Arsenic, Dis. (ug/L)	0.64 J
Lead, Dis. (ug/L)	<0.24
Manganese, Dis. (ug/L)	44.5

WELL ID:	B-94-25A [DUP]
Sample Date:	12/16/2021
Chloride, Dis. (mg/L)	175 [175]
Sulfate, Dis. (mg/L)	18.2 [18.4]
NO2 + NO3, Dis. (mg/L)	<0.059 [<0.059]
Arsenic, Dis. (ug/L)	33.8 [33.2]
Lead, Dis. (ug/L)	<0.24 [<0.24]
Manganese, Dis. (ug/L)	6.9 [6.8]

WELL ID:	W-23A
Sample Date:	12/13/2021
Chloride, Dis. (mg/L)	21.4
Sulfate, Dis. (mg/L)	91.1
NO2 + NO3, Dis. (mg/L)	<0.059
Arsenic, Dis. (ug/L)	0.45 J
Lead, Dis. (ug/L)	<0.24
Manganese, Dis. (ug/L)	13.6

WELL ID:	B-15
Sample Date:	12/15/2021
Chloride, Dis. (mg/L)	139
Sulfate, Dis. (mg/L)	38.6
NO2 + NO3, Dis. (mg/L)	<0.059
Arsenic, Dis. (ug/L)	14.2
Lead, Dis. (ug/L)	<0.24
Manganese, Dis. (ug/L)	118

WELL ID:	B-15A
Sample Date:	12/15/2022
Chloride, Dis. (mg/L)	115
Sulfate, Dis. (mg/L)	67.0
NO2 + NO3, Dis. (mg/L)	<0.059
Arsenic, Dis. (ug/L)	0.57 J
Lead, Dis. (ug/L)	<0.24
Manganese, Dis. (ug/L)	179

WELL ID:	B-21
Sample Date:	12/15/2021
Chloride, Dis. (mg/L)	33.4
Sulfate, Dis. (mg/L)	46.0
NO2 + NO3, Dis. (mg/L)	<0.059
Arsenic, Dis. (ug/L)	0.37 J
Lead, Dis. (ug/L)	<0.24
Manganese, Dis. (ug/L)	569

WELL ID:	B-21A
Sample Date:	12/15/2021
Chloride, Dis. (mg/L)	35.4
Sulfate, Dis. (mg/L)	44.4
NO2 + NO3, Dis. (mg/L)	<0.059
Arsenic, Dis. (ug/L)	0.40 J
Lead, Dis. (ug/L)	<0.24
Manganese, Dis. (ug/L)	25.7

WELL ID:	W-23
Sample Date:	12/13/2021
Chloride, Dis. (mg/L)	14.3
Sulfate, Dis. (mg/L)	101
NO2 + NO3, Dis. (mg/L)	0.61
Arsenic, Dis. (ug/L)	0.58 J
Lead, Dis. (ug/L)	<0.24
Manganese, Dis. (ug/L)	11.2

WELL ID:	B-96-18B
Sample Date:	12/13/2021
Chloride, Dis. (mg/L)	82.8
Sulfate, Dis. (mg/L)	44.8
NO2 + NO3, Dis. (mg/L)	1.7
Arsenic, Dis. (ug/L)	0.38 J
Lead, Dis. (ug/L)	<0.24
Manganese, Dis. (ug/L)	87.2

WELL ID:	B-96-17
Sample Date:	12/15/2021
Chloride, Dis. (mg/L)	119
Sulfate, Dis. (mg/L)	21.9
NO2 + NO3, Dis. (mg/L)	6.6
Arsenic, Dis. (ug/L)	0.37 J
Lead, Dis. (ug/L)	<0.24
Manganese, Dis. (ug/L)	16.9

WELL ID:	W-24
Sample Date:	12/13/2021
Chloride, Dis. (mg/L)	70.7
Sulfate, Dis. (mg/L)	34.3 J
NO2 + NO3, Dis. (mg/L)	0.55
Arsenic, Dis. (ug/L)	0.38 J
Lead, Dis. (ug/L)	<0.24
Manganese, Dis. (ug/L)	<1.2

WELL ID:	B-96-18A
Sample Date:	12/15/2021
Chloride, Dis. (mg/L)	92.1
Sulfate, Dis. (mg/L)	43.7
NO2 + NO3, Dis. (mg/L)	0.72
Arsenic, Dis. (ug/L)	0.34 J
Lead, Dis. (ug/L)	<0.24
Manganese, Dis. (ug/L)	1.7 J

WELL ID:	B-96-17A
Sample Date:	12/15/2021
Chloride, Dis. (mg/L)	20.0
Sulfate, Dis. (mg/L)	45.3
NO2 + NO3, Dis. (mg/L)	<0.059
Arsenic, Dis. (ug/L)	0.34 J
Lead, Dis. (ug/L)	<0.24
Manganese, Dis. (ug/L)	29.7

LEGEND

- GAS PROBE
- PRIVATE WELL (PRIVATE WELL)
- LEACHATE HEAD WELL
- MW-1 (MONITORING WELL)
- GAS VENT

kapur
7711 N. Port Washington Road
Milwaukee, Wisconsin 53217
kapurinc.com

PROJECT:
BARRETT LANDFILL PROJECT

LOCATION:
NEW BERLIN, WISCONSIN

CLIENT:

NORTH ARROW:

SCALE: 1" = 250'
0 125 250

SEAL:

all in

SHEET:
GROUNDWATER QUALITY - LANDFILL WELLS

DESIGNED BY:	XXX
DRAWN BY:	XXX
CHECKED BY:	XXX
APPROVED BY:	XXX
DATE:	04/20/2022

PROJECT NO. 220129.01

FIGURE:
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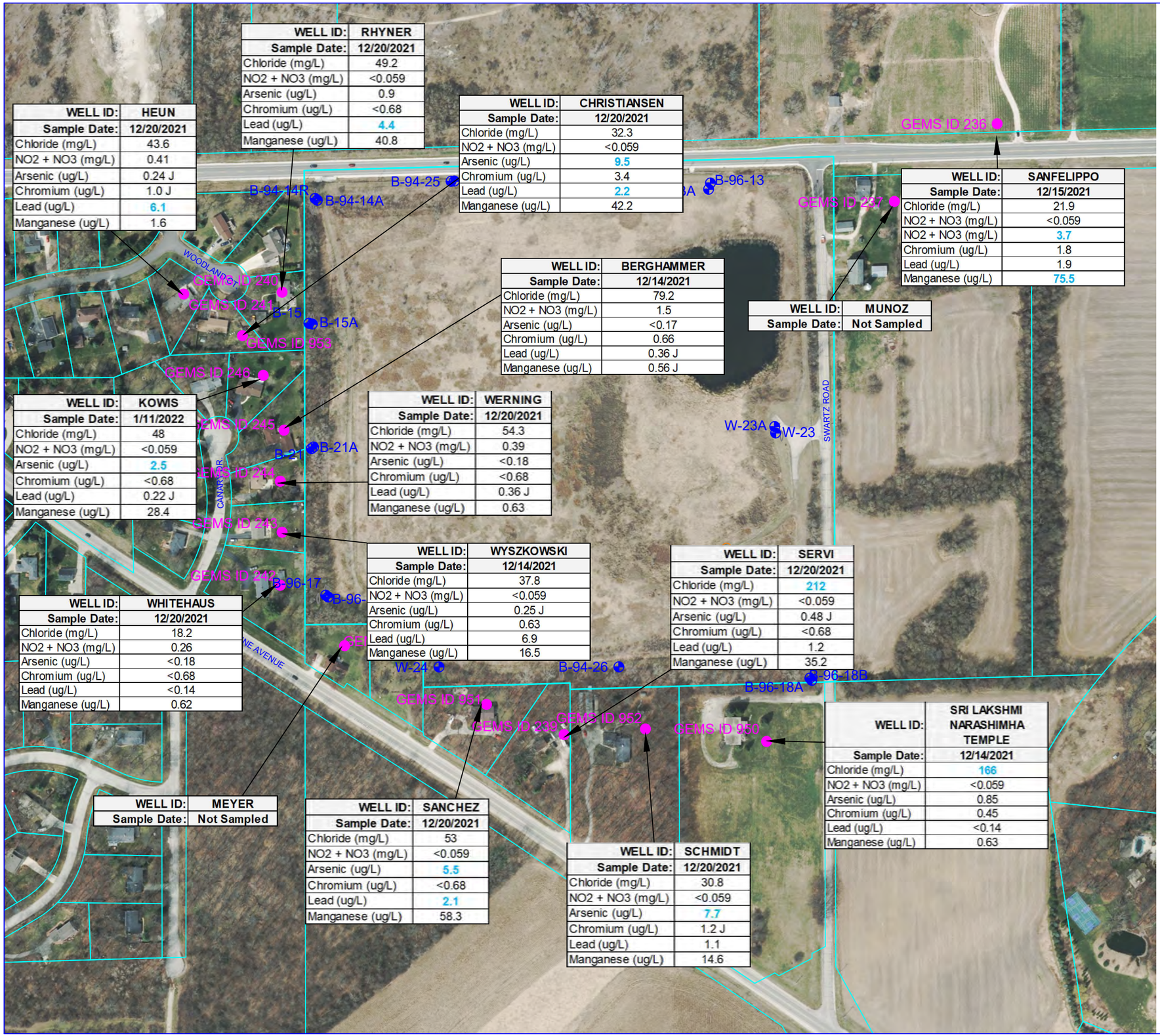


WELL ID:	RHYNER
Sample Date:	12/20/2021
Chloride (mg/L)	49.2
NO2 + NO3 (mg/L)	<0.059
Arsenic (ug/L)	0.9
Chromium (ug/L)	<0.68
Lead (ug/L)	4.4
Manganese (ug/L)	40.8

WELL ID:	HEUN
Sample Date:	12/20/2021
Chloride (mg/L)	43.6
NO2 + NO3 (mg/L)	0.41
Arsenic (ug/L)	0.24 J
Chromium (ug/L)	1.0 J
Lead (ug/L)	6.1
Manganese (ug/L)	1.6

WELL ID:	CHRISTIANSEN
Sample Date:	12/20/2021
Chloride (mg/L)	32.3
NO2 + NO3 (mg/L)	<0.059
Arsenic (ug/L)	9.5
Chromium (ug/L)	3.4
Lead (ug/L)	2.2
Manganese (ug/L)	42.2

WELL ID:	SANFELIPPO
Sample Date:	12/15/2021
Chloride (mg/L)	21.9
NO2 + NO3 (mg/L)	<0.059
NO2 + NO3 (mg/L)	3.7
Chromium (ug/L)	1.8
Lead (ug/L)	1.9
Manganese (ug/L)	75.5

WELL ID:	BERGHAMMER
Sample Date:	12/14/2021
Chloride (mg/L)	79.2
NO2 + NO3 (mg/L)	1.5
Arsenic (ug/L)	<0.17
Chromium (ug/L)	0.66
Lead (ug/L)	0.36 J
Manganese (ug/L)	0.56 J

WELL ID:	MUNOZ
Sample Date:	Not Sampled

WELL ID:	KOWIS
Sample Date:	1/11/2022
Chloride (mg/L)	48
NO2 + NO3 (mg/L)	<0.059
Arsenic (ug/L)	2.5
Chromium (ug/L)	<0.68
Lead (ug/L)	0.22 J
Manganese (ug/L)	28.4

WELL ID:	WERNING
Sample Date:	12/20/2021
Chloride (mg/L)	54.3
NO2 + NO3 (mg/L)	0.39
Arsenic (ug/L)	<0.18
Chromium (ug/L)	<0.68
Lead (ug/L)	0.36 J
Manganese (ug/L)	0.63

WELL ID:	WYSZKOWSKI
Sample Date:	12/14/2021
Chloride (mg/L)	37.8
NO2 + NO3 (mg/L)	<0.059
Arsenic (ug/L)	0.25 J
Chromium (ug/L)	0.63
Lead (ug/L)	6.9
Manganese (ug/L)	16.5

WELL ID:	SERVI
Sample Date:	12/20/2021
Chloride (mg/L)	212
NO2 + NO3 (mg/L)	<0.059
Arsenic (ug/L)	0.48 J
Chromium (ug/L)	<0.68
Lead (ug/L)	1.2
Manganese (ug/L)	35.2

WELL ID:	WHITEHAUS
Sample Date:	12/20/2021
Chloride (mg/L)	18.2
NO2 + NO3 (mg/L)	0.26
Arsenic (ug/L)	<0.18
Chromium (ug/L)	<0.68
Lead (ug/L)	<0.14
Manganese (ug/L)	0.62

WELL ID:	SRI LAKSHMI NARASHIMHA TEMPLE
Sample Date:	12/14/2021
Chloride (mg/L)	166
NO2 + NO3 (mg/L)	<0.059
Arsenic (ug/L)	0.85
Chromium (ug/L)	0.45
Lead (ug/L)	<0.14
Manganese (ug/L)	0.63

WELL ID:	MEYER
Sample Date:	Not Sampled

WELL ID:	SANCHEZ
Sample Date:	12/20/2021
Chloride (mg/L)	53
NO2 + NO3 (mg/L)	<0.059
Arsenic (ug/L)	5.5
Chromium (ug/L)	<0.68
Lead (ug/L)	2.1
Manganese (ug/L)	58.3

WELL ID:	SCHMIDT
Sample Date:	12/20/2021
Chloride (mg/L)	30.8
NO2 + NO3 (mg/L)	<0.059
Arsenic (ug/L)	7.7
Chromium (ug/L)	1.2 J
Lead (ug/L)	1.1
Manganese (ug/L)	14.6

LEGEND

- GAS PROBE
- PRIVATE WELL — PRIVATE WELL
- LEACHATE HEAD WELL
- MW-1 — MONITORING WELL
- GAS VENT

FILENAME: S:_Environ\200039-Barret Landfill Operation and Maintenance\Figures\PW results 2021.dwg

kapur
7711 N. Port Washington Road
Milwaukee, Wisconsin 53217
kapurinc.com

PROJECT: BARRETT LANDFILL PROJECT

LOCATION: NEW BERLIN, WISCONSIN

CLIENT:

NORTH ARROW:

SCALE: 1" = 250'
0 125 250

SEAL:

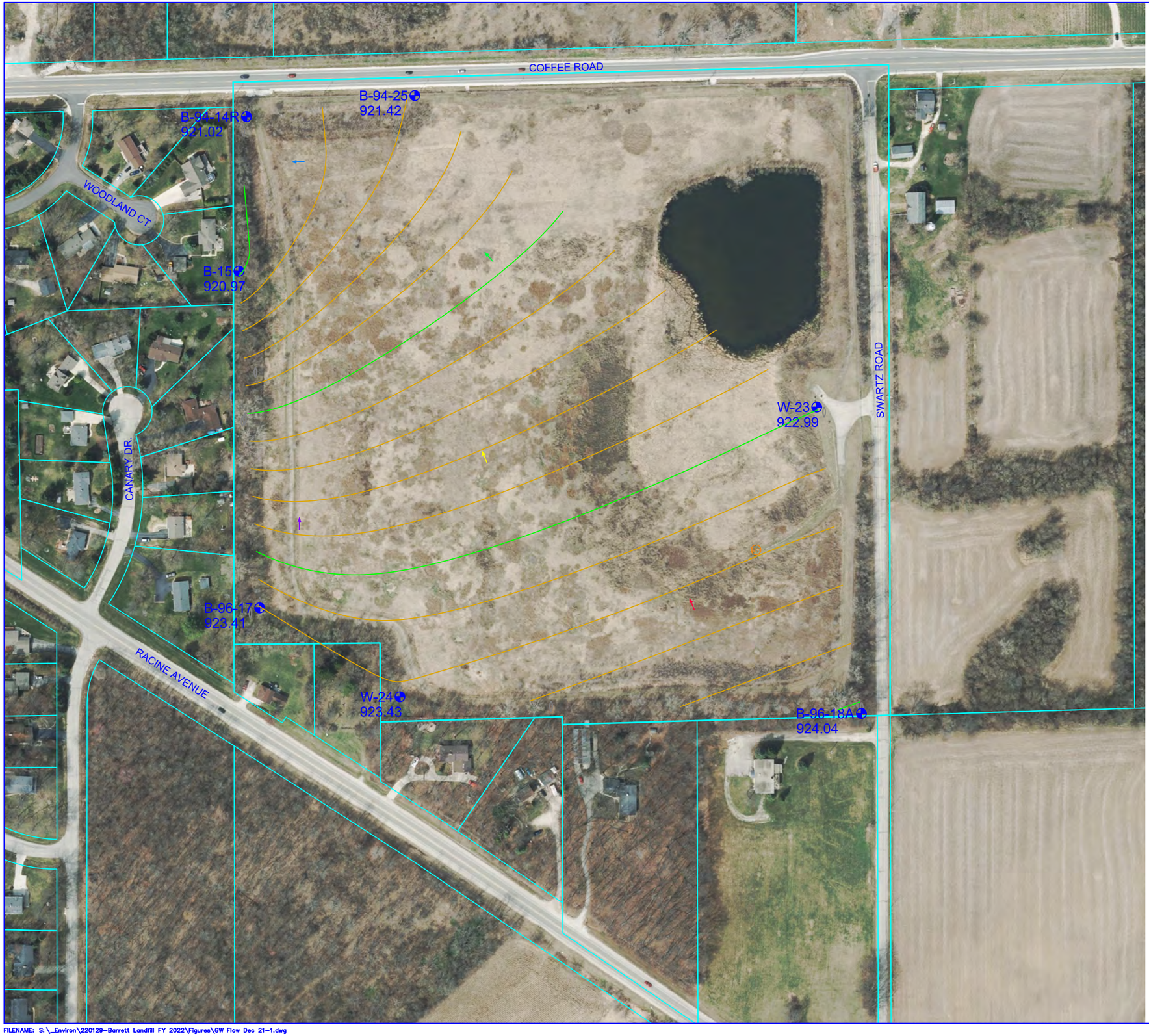
all in

SHEET: GROUNDWATER QUALITY - PRIVATE WELLS

DESIGNED BY:	XXX
DRAWN BY:	XXX
CHECKED BY:	XXX
APPROVED BY:	XXX
DATE:	04/20/2022

PROJECT NO. 220129.01

FIGURE: 3



FILENAME: S:_Environ\220129-Barrett Landfill FY 2022\Figures\GW Flow Dec 21-1.dwg

kapur
7711 N. Port Washington Road
Milwaukee, Wisconsin 53217
kapurinc.com

PROJECT:
BARRETT LANDFILL PROJECT

LOCATION:
NEW BERLIN, WISCONSIN

CLIENT:

NORTH ARROW:

SCALE: 1" = 200'
0 100 200

SEAL:
all in

SHEET:
GROUNDWATER ELEVATION - DECEMBER 2021

DESIGNED BY:	XXX
DRAWN BY:	XXX
CHECKED BY:	XXX
APPROVED BY:	XXX
DATE:	04/20/2022

PROJECT NO.	220129.01
FIGURE:	4

TABLES

Table A.1: Groundwater Analytical Results
Barrett Landfill
21001 West Coffee Road, New Berlin, Wisconsin

Parameter	Units	ch. NR 140 GW Quality Enforcement Standards	ch. NR 140 GW Quality Preventive Action Limits	B-96-13A	B-94-14R	B-94-14A	B-15	B-15A	B-21	B-21A	B-96-17	B-96-17A	B-96-18A	B-96-18B	B-94-19A	B-94-25
			Sample Date	12/13/2021	12/16/2021	12/16/2021	12/15/2021	12/15/2022	12/15/2021	12/15/2021	12/15/2021	12/15/2021	12/15/2021	12/13/2021	12/13/2021	12/16/2021
			GEMS ID	911	902	903	225	251	252	253	913	914	915	916	904	905
Indicator Parameters																
Chloride, Dissolved	mg/L	**250**	**125**	54.2	8.8 J	45.1	**139**	115	33.4	35.4	119	20.0	92.1	82.8	108	78.4
Sulfate, Dissolved	mg/L	**250**	**125**	117	58.9	**164**	38.6	67.0	46.0	44.4	21.9	45.3	43.7	44.8	57.6	40.6
Nitrogen, Kjeldahl, Total, Dissolved	mg/L	NS	NS	<0.21	0.44 J	<0.21	1.3	0.26 J	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	0.57 J	0.39 J
Nitrogen, NO2 plus NO3, Dissolved	mg/L	**10**	**2.0**	<0.059	1.4	<0.059	<0.059	<0.059	<0.059	<0.059	**6.6**	<0.059	0.72	1.7	<0.059	**2.8**
Arsenic, Dissolved	ug/L	**10**	**1.0**	0.46 J	0.60 J	0.64 J	**14.2**	0.57 J	0.37 J	0.40 J	0.37 J	0.34 J	0.34 J	0.38 J	0.73 J	0.56 J
Chromium, Dissolved	ug/L	**100**	**10**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Lead, Dissolved	ug/L	**15**	**1.5**	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
Magnesium, Dissolved	mg/L	NS	NS	53.5	38.6	59.7	74	52.3	47.4	47.5	38.7	49.0	43.8	34.2	62.9	28.7
Manganese, Dissolved	ug/L	**300**	**60**	59.4	<1.2	44.5	**118**	**179**	**569**	25.7	16.9	29.7	1.7 J	**87.2**	19.8	<1.2
Nickel, Dissolved	ug/L	**100**	**20**	1.5	1.2	1.2	3.6	0.63 J	10.3	2.3	13.6	1.2	2.2	7.0	0.39 J	0.80 J
Field Parameters																
Apparent Color	no units			None	None	None	None	None	None	None	None	None	None	None	None	None
Field Specific Conductance	umhos/cm			894	933	974	1362	1096	882	899	1142	907	1050	784	890	886
Field pH	Std. Units			7.08	6.82	6.89	7.16	7.27	7.27	7.23	7.03	6.91	6.75	7.43	7.19	7.34
Odor	no units			None	None	None	None	None	None	None	None	None	None	None	None	None
Groundwater Elevation	feet			908.01	921.02	920.52	920.97	918.02	922.75	915.09	923.41	923.10	924.04	923.84	910.06	921.42
Temperature, Water (C)	deg C			12.7	7.7	8.9	13.9	13.5	10.8	11.8	11.4	11.4	11.9	11.1	13.6	11.0
Turbidity	NTU			None	None	None	None	None	None	None	None	None	None	None	None	None

NOTES:

Only analytes with a detection in at least one sample are shown

NA = Not Analyzed

NS = No Standard

ug/L = micrograms per liter

mg/L = milligrams per liter

Concentrations equal to or exceeding the WI NR 140 GW Quality Enforcement Standards are **bold faced**

Concentrations equal to or exceeding the WI NR 140 GW Quality Preventive Action Limits are **bold faced**

J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

Table A.1: Groundwater Analytical Results
Barrett Landfill
21001 West Coffee Road, New Berlin, Wisconsin

Parameter	Units	ch. NR 140 GW Quality Enforcement Standards	ch. NR 140 GW Quality Preventive Action Limits	B-94-25A		W-23	W-23A	W-24	Field Blank	Equipment Blank
			Sample Date	12/16/2021	12/16/2021 (D)	12/13/2021	12/13/2021	12/13/2021	12/16/2021	12/16/2021
			GEMS ID	906		259	260	263	997	
Indicator Parameters										
Chloride, Dissolved	mg/L	**250**	**125**	**175**	**175**	14.3	21.4	70.7	<0.43	0.70 J
Sulfate, Dissolved	mg/L	**250**	**125**	18.2	18.4	101	91.1	34.3 J	<0.44	<0.44
Nitrogen, Kjeldahl, Total, Dissolved	mg/L	NS	NS	1.7	1.3	<0.21	0.33 J	<0.21	<0.21	<0.21
Nitrogen, NO2 plus NO3, Dissolved	mg/L	**10**	**2.0**	<0.059	<0.059	0.61	<0.059	0.55	<0.059	**6.1**
Arsenic, Dissolved	ug/L	**10**	**1.0**	**33.8**	**33.2**	0.58 J	0.45 J	0.38 J	<0.28	0.80 J
Chromium, Dissolved	ug/L	**100**	**10**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.8 J
Lead, Dissolved	ug/L	**15**	**1.5**	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	0.38 J
Magnesium, Dissolved	mg/L	NS	NS	66.8	62.4	39.4	43.5	36.4	<0.031	1.5
Manganese, Dissolved	ug/L	**300**	**60**	6.9	6.8	11.2	13.6	<1.2	<1.2	7.8
Nickel, Dissolved	ug/L	**100**	**20**	0.63 J	0.68 J	0.94 J	0.52 J	0.54 J	<0.28	0.99 J
Field Parameters										
Apparent Color	no units			None	None	None	None	None		
Field Specific Conductance	umhos/cm			1160	1160	667	640	664		
Field pH	Std. Units			7.55	7.55	7.57	7.22	7.22		
Odor	no units			None	None	None	None	None	NA	NA
Groundwater Elevation	feet			918.27	918.27	922.99	917.13	923.43		
Temperature, Water (C)	deg C			7.2	7.2	11.4	11.2	11.3		
Turbidity	NTU			None	None	None	None	None		

NOTES:

Only analytes with a detection in at least one sample are shown

NA = Not Analyzed

NS = No Standard

ug/L = micrograms per liter

mg/L = milligrams per liter

Concentrations equal to or exceeding the WI NR 140 GW Quality Enforcement Standards are **bold faced**

Concentrations equal to or exceeding the WI NR 140 GW Quality Preventive Action Limits are **bold faced**

J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

Table A.1.i: Groundwater Analytical Results
Barrett Landfill
21001 West Coffee Road, New Berlin, Wisconsin

Parameter	Units	ch. NR 140 GW Quality Enforcement Standards	ch. NR 140 GW Quality Preventive Action Limits	BERGHAMMER	CHRISTIANSEN	HEUN	KOWIS	MEYER	MUNOZ	RHYNER	SANCHEZ
			Sample Date	12/14/2021	12/20/2021	12/20/2021	1/11/2022	NS	NS	12/20/2021	12/20/2021
			GEMS ID	245	953	241	246	238	237	240	951
			Private Well Addreess	3600 S. Canary Rd	3551 S. Woodland Ct.	3561 S. Woodland Ct.	3540 S. Canary Rd	3690 S. Racine Ave	20745 W. Coffee Road	3640 S. Woodland Ct.	3720 S. Racine Ave
Indicator Parameters											
Chloride	mg/L	**250**	**125**	79.2	32.3	43.6	48	Not Sampled	Not Sampled	49.2	53
Nitrogen, NO2 plus NO3	mg/L	**10**	**2.0**	1.5	<0.059	0.41	<0.059			<0.059	<0.059
Arsenic	ug/L	**10**	**1.0**	<0.17	**9.5**	0.24 J	**2.5**			0.9	**5.5**
Chromium	ug/L	**100**	**10**	0.66	3.4	1.0 J	<0.68			<0.68	<0.68
Lead	ug/L	**15**	**1.5**	0.36 J	**2.2**	**6.1**	0.22 J			**4.4**	**2.1**
Magnesium	mg/L	NS	NS	45.9	47.6	41.7	49.1			49.2	48.5
Manganese	ug/L	**300**	**60**	0.56 J	42.2*	1.6	28.4*			40.8*	58.3**
Field Parameters											
Apparent Color	no units			None	Grey	None	None	Not Sampled	Not Sampled	None	None
Field Specific Conductance	umhos/cm			888	760	824	835			838	847
Field pH	Std. Units			7.17	7.47	7.67	7.19			7.21	7.59
Odor	no units			None	None	None	Sulphur			None	None
Temperature, Water (C)	deg C			10.8	8.5	11.3	9.5			12.4	10.7
Turbidity	NTU			None	Cloudy	None	None			None	None

NOTES:
Only analytes with a detection in at least one sample are shown
NA = Not Analyzed
NS = No Standard
ug/L = micrograms per liter
mg/L = milligrams per liter
Concentrations equal to or exceeding the WI NR 140 GW Quality Enforcement Standards are **bold faced**
Concentrations equal to or exceeding the WI NR 140 GW Quality Preventive Action Limits are **bold faced**
J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
*= exceeds manganese Public Welfare Preventive Action Limits (25 ug/L)
**= exceeds manganese Public Welfare Enforcement Standards (50 ug/L)
(D) = Duplicate Sample

Table A.1.i: Groundwater Analytical Results
Barrett Landfill
21001 West Coffee Road, New Berlin, Wisconsin

Parameter	Units	ch. NR 140 GW Quality Enforcement Standards	ch. NR 140 GW Quality Preventive Action Limits	SANFELIPPO	SCHMIDT	SERVI	SRI LAKSHMI NARASHIMHA TEMPLE	WERNING	WHITEHAUS	WYSZKOWSKI
			Sample Date	12/15/2021	12/20/2021	12/20/2021	12/14/2021	12/20/2021	12/20/2021	12/14/2021
			GEMS ID	236	952	239	950	244	242	243
			Private Well Addreess	200770 W. Coffee Rd	3770 S. Racine Ave	3730 S. Racine Ave	3800 Swartz Rd.	3620 S. Canary Rd	3640 S. Canary Rd	3630 S. Canary Rd
Indicator Parameters										
Chloride	mg/L	**250**	**125**	21.9	30.8	**212**	**166**	54.3	18.2	37.8
Nitrogen, NO2 plus NO3	mg/L	**10**	**2.0**	<0.059	<0.059	<0.059	<0.059	0.39	0.26	<0.059
Arsenic	ug/L	**10**	**1.0**	**3.7**	**7.7**	0.48 J	0.85	<0.18	<0.18	0.25 J
Chromium	ug/L	**100**	**10**	1.8	1.2 J	<0.68	0.45	<0.68	<0.68	0.63
Lead	ug/L	**15**	**1.5**	1.9	1.1	1.2	<0.14	0.36 J	<0.14	6.9
Magnesium	mg/L	NS	NS	45	46.8	56.8	<0.18	48.5	44.6	49.8
Manganese	ug/L	**300**	**60**	**75.5**	14.6	35.2*	0.63	0.63	0.62	16.5
Field Parameters										
Apparent Color	no units			None	Grey	None	None	None	None	None
Field Specific Conductance	umhos/cm			761	780	1335	1035	911	767	819
Field pH	Std. Units			7.33	7.23	7.26	7.97	7.49	7.04	7.4
Odor	no units			None	Sulphur	None	None	None	None	None
Temperature, Water (C)	deg C			12.5	10.2	8.3	11.9	10.3	11.3	12.0
Turbidity	NTU			None	None	None	None	None	None	None

NOTES:
Only analytes with a detection in at least one sample are shown
NA = Not Analyzed
NS = No Standard
ug/L = micrograms per liter
mg/L = milligrams per liter
Concentrations equal to or exceeding the WI NR 140 GW Quality Enforcement Standards are **bold faced**
Concentrations equal to or exceeding the WI NR 140 GW Quality Preventive Action Limits are **bold faced**
J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
*= exceeds manganese Public Welfare Preventive Action Limits (25 ug/L)
**= exceeds manganese Public Welfare Enforcement Standards (50 ug/L)
(D) = Duplicate Sample

APPENDIX A

FIELD FORMS

KAPUR & ASSOCIATES LANDFILL GAS PROBE INSPECTION FIELD FORM

Probe	GEMS ID	Time	Photo ID	Protective Casing Condition	Lock Present? Y/N	Lock Condition	Key #	Probe Numbered? Y/N	Cap Present? Y/N	Probe Condition	NOTES
GP-1	280	12:46		good	Y	good		Y	Y	good	Needs Smaller Cap
GP-2S	284	12:14		good rusted	Y	rusted		good	good	good	Smaller well cap
GP-2D	286	12:15									
GP-3S	287	14:12		cracked	Y	good		good	good	good	* Crack
GP-3M	288	14:13									
GP-3D	289	14:14									
GP-4	290			Abandoned							
GP-5S	294	12:48		good	Y	good		Y	Y	good	Well was needed
GP-5M	295	12:49									
GP-5D	296	12:50									
GP-6S	297	12:32		good	Y	good		good	good	good	Replaced cap
GP-6M	298	12:33									
GP-6D	299	12:34									Replaced cap
GP-7	300					Abandoned					
GP-8S	264	11:02		good	Y	good	458	Y	Y	good	New Cap
GP-8M	265	11:03									
GP-8D	266	11:04									
GP-9S	267	11:10		good	Y	good		Y	Y	good	
GP-9M	268	11:11									
GP-9D	269	11:12									
GP-10S	270	11:22		good	Y	good		Y	Y	good	
GP-10M	271	11:23									
GP-10D	272	11:21									
GP-11S	273	11:33		good	Y	good		Y	Y	good	
GP-11M	274	11:34									
GP-11D	275	11:35									
GP-12S	276	11:51		good	Y	good		Y	Y	good	
GP-12M	277	11:53									
GP-12D	278	11:54									

INSPECTORS: _____ DATE: _____

KAPUR & ASSOCIATES MONITORING WELL INSPECTION FIELD FORM

Well ID	GEMS ID	Time	Photo ID	Protective Casing Condition	Lock Present? Y/N	Lock Condition	Key Number	Well Numbered? Y/N	Cap Present? Y/N	Well Condition	NOTES
B-96-13A	911	13:17		good	Y	good		Y	Y	good	
B-94-14A	903		12-14	good	Y	G		Y	Y	g	Slumping of
B-94-14R	902			good	Y	G		Y	Y	g	soil @ Base of wells
B-15	225										
B-15A	251										
B-96-17	913										
B-96-17A	914										
B-96-18A	915										
B-96-18B	916	10:36		good	Y	Bad		Y	Y	good	Need lock
B-94-19A	904	14:08		good	Y	good		Y	Y	good	vent in PVC 6 ft down
B-21	252										
B-21A	253			Ga	Y						
W-23	259	11:51		good	Y	good	2258	Y	Y	good	
W-23A	260	11:52		good	Y	good	2258	Y	Y	good	
W-24	263										
B-94-25	905										
B-94-25A	906										

B-94-19 14:09 good Y good Y Y good

INSPECTORS: ______________________

DATE: 12/13/21

KAPUR & ASSOCIATES LANDFILL GAS VENT INSPECTION FIELD FORM

Vent	Time	Photo ID	Vent Numbered? Y/N	Tilt Direction	Screen Present? Y/N	Hose Clamp Present? Y/N	Hose Clamp Condition	Boot Condition	NOTES
GV-130	11:19		Y	S	Y	Y	good	good	woody vegetation around
GV-140	11:37		Y	S	Y	Y	good	good	
GV-144	11:46		Y	[illegible] N	Y	Y	good	good	
GV-5	12:20		Y	W	Y	Y	good	good	
GV-119	12:23		Y	W	Y	N/A	none	none	needs boot + hose clamp
GV-114	13:05		Y	N	Y	Y	good	good	
GV-112	13:13		Y	NE	Y	Y	good	good	
GV-108	13:16		Y	NW	Y	Y	good	good	
GV-107	13:22		Y	N	Y	Y	good	good	
GV-106	13:26		Y	N	Y	Y	good	good	
GV-105	13:29		Y	NW	Y	Y	good	good	woody vegetation around
GV-104	13:30		Y	N	Y	Y	good	good	
GV-110	13:39		Y	SE	Y	Y	good	good	
GV-114	[illegible]	341	Y	N	Y	Y	good	good	screen starting to come off
GV-103	[illegible]		Y	N	Y	Y	good	good	
GV-102	13:49		Y	NW	Y	Y	good	good	
GV-101	13:49		Y	N	Y	Y	good	good	
GV-140	[illegible]	14:24	Y	N	Y	Y	good	good	woody veg. around
GV-120	14:34		Y	NE	Y	Y	good	good	woody veg around
GV-123	14:40		Y	E	Y	Y	good	good	
GV-117	14:44		Y	E	Y	Y	good	good	

INSPECTORS: Jenny S, Ashley W

DATE: 12/20/21

KAPUR & ASSOCIATES GROUNDWATER QUALITY FIELD FORM LOW-FLOW

PROJECT NAME	Barrett Landfill	WATER LEVEL PROBE	Heron
PROJECT NUMBER	22.0129.01		
LOCATION	New Berlin, WI	WATER QUALITY METER(S)	YSI
FIELD STAFF	Ashley Wagner		
	Jenny Skweres	TURBIDITY METER	NA

WELL ID	B-13A	START PURGE TIME	12:35
SAMPLE DATE	12/13/21	END PURGE TIME	
SAMPLE TIME	13:11	KEY NUMBER	
DEPTH TO WATER (ft)	66.96	PURGE VOLUME (gal)	
DEPTH TO BOTTOM (ft)	99.71	PURGE METHOD	PUMP
1 CASING VOLUME (gal)		SAMPLING METHOD	
PURGE RATE (gal/min)	3 gal total	SAMPLING DEPTH	68.50

CLOCK TIME	# OF MINUTES LAPSED	TEMP. (°C)	DISSOLVED OXYGEN (%)	DISSOLVED OXYGEN (ppm)	SPEC. COND. (ms/cm)	pH (units)	ORP (mV)
12:41		11.6	99.8	10.61	808	7.15	121.2
12:43	2	11.9	105.1	10.43	870	7.16	89.2
12:45	2	12.0	44.2	4.09	873	7.15	54.0
12:47	2	12.2	34.4	3.61	877	7.09	34.0
12:49	2	12.4	27.6	2.90	881	7.10	18.6
12:51	2	12.6	23.6	2.49	883	7.05	8.8
12:53	2	12.7	20.9	2.20	1088	7.07	1.5
12:55	2	12.7	19.3	2.04	886	7.09	-4.1
12:57	2	12.8	17.7	1.85	891	7.10	-9.4
12:59	2	12.9	16.5	1.72	889	7.10	-13.8
13:01	2	12.7	15.4	1.62	890	7.17	-16.0
13:03	2	12.8	14.6	1.54	892	7.12	-16.5
13:05	2	12.9	13.9	1.44	893	7.15	-21.4
13:07		12.8	13.2	1.38	892	7.11	-23.6
13:09		12.7	12.8	1.35	894	7.08	-24.4
13:11							
13:13							
13:15							

NOTES (COLOR, ODOR, CLARITY, ISSUES, WELL/KEY CONDITION)	
SAMPLING PARAMETERS	(# OF CONTAINERS, SIZE OF CONTAINER, CONTAINER TYPE (A = AMBER, G = GLASS, P = PLASTIC), FILTERED? (YES/NO), PRESERVATIVE)
Chloride, Sulfate	1-250 mL; P; None; Yes
Metals ~~(As, Pb, Ni,~~ Mn, Mg, Cr)	1-250 mL; P; HNO_3; Yes
Nitrate + Nitrite, Total Kjeldahl Nitrogen (TKN)	1-250 mL; P; H_2SO_4; Yes
	13:17 / 13:19

KAPUR & ASSOCIATES GROUNDWATER QUALITY FIELD FORM

PROJECT NAME	Barrett Landfill	WATER LEVEL PROBE	Heron
PROJECT NUMBER	22.0129.01	WATER QUALITY METER(S)	YSI
LOCATION	New Berlin, WI		Hanna
FIELD STAFF	Ashley Wagner	TURBIDITY METER	NA
	Jenny Skweres		

WELL ID	B-94-14A				
SAMPLE DATE	12.16.21				
SAMPLE TIME	935				
DEPTH TO WATER (ft)	33.80				
DEPTH TO BOTTOM (ft)	103.19				
1 CASING VOLUME (gal)	4.79				
3 CASING VOLUME (gal)	14.37				
PURGE VOLUME (gal)	9.0 DNJ				
PURGE METHOD	SUBPUMP				
SAMPLING METHOD	↓				
SAMPLING DEPTH	102.0				
TEMPERATURE (°C)	8.9				
DISSOLVED OXYGEN (%)	—				
DISSOLVED OXYGEN (ppm)	—				
SPEC. CONDUCTIVITY (ms/cm)	9.74				
pH (units)	10.89				
ORP (mV)	—				
COLOR	C				
ODOR	N				
CLARITY	C				
NOTES	let recover w/ pump in well 9:24 ~10' recovery				
SAMPLING PARAMETERS	(# OF CONTAINERS, SIZE OF CONTAINER, CONTAINER TYPE (A = AMBER, G = GLASS, P = PLASTIC), FILTERED? (YES/NO), PRESERVATIVE)				
Chloride, Sulfate	1-250 mL; P; None; Yes	1-250 mL; P; None; Yes	1-250 mL; P; None; Yes	1-250 mL; P; None; Yes	1-250 mL; P; None; Yes
Metals (As, Pb, Ni, Mn, Mg, Cr)	1-250 mL; P; HNO_3; Yes	1-250 mL; P; HNO3; Yes	1-250 mL; P; HNO3; Yes	1-250 mL; P; HNO3; Yes	1-250 mL; P; HNO3; Yes
Nitrate + Nitrite, Total Kjeldahl Nitrogen (TKN)	1-250 mL; P; H_2SO_4; Yes	1-250 mL; P; H_2SO_4; Yes	1-250 mL; P; H_2SO_4; Yes	1-250 mL; P; H_2SO_4; Yes	1-250 mL; P; H2SO4; Yes

KAPUR & ASSOCIATES GROUNDWATER QUALITY FIELD FORM LOW-FLOW

PROJECT NAME	Barrett Landfill	WATER LEVEL PROBE	Heron
PROJECT NUMBER	22.0129.01		
LOCATION	New Berlin, WI	WATER QUALITY METER(S)	YSI
FIELD STAFF	Ashley Wagner		Hanna
	Jenny Skweres	TURBIDITY METER	NA

WELL ID	B-14R	START PURGE TIME	~~8:08~~ 836
SAMPLE DATE	12-16-21	END PURGE TIME	
SAMPLE TIME	855	KEY NUMBER	
DEPTH TO WATER (ft)	33.16	PURGE VOLUME (gal)	4.0
DEPTH TO BOTTOM (ft)	42.13	PURGE METHOD	Sub pump
1 CASING VOLUME (gal)		SAMPLING METHOD	Sub. pump
3 CASING VOLUME (gal)		SAMPLING DEPTH	41.0

CLOCK TIME	# OF MINUTES LAPSED	TEMP. (°C)	DISSOLVED OXYGEN (%)	DISSOLVED OXYGEN (ppm)	SPEC. COND. (ms/cm)	pH (units)	ORP (mV)
840	—	8.0	52.5	6.21	768	10.86	-47.6
843	3	7.6	51.3	6.15	781	10.86	-41.6
845	2	7.5	50.6	6.06	781	10.65	-37.7
847	2	7.5	49.8	5.96	781	10.65	-37.5
849	2	7.7	48.2	5.73	781	10.63	-37.3
		measured w/ Hanna			933	6.82	—

YSI shut off →

NOTES (COLOR, ODOR, CLARITY, ISSUES, WELL/KEY CONDITION)	tubing fell off pump @ 820, restarted purge @ 836
SAMPLING PARAMETERS	(# OF CONTAINERS, SIZE OF CONTAINER, CONTAINER TYPE (A = AMBER, G = GLASS, P = PLASTIC), FILTERED? (YES/NO), PRESERVATIVE)
Chloride, Sulfate	1-250 mL; P; None; Yes
Metals (As, Pb, Ni, Mn, Mg, Cr)	1-250 mL; P; HNO_3; Yes
Nitrate + Nitrite, Total Kjeldahl Nitrogen (TKN)	1-250 mL; P; H_2SO_4; Yes

KAPUR & ASSOCIATES GROUNDWATER QUALITY FIELD FORM LOW-FLOW

PROJECT NAME	Barrett Landfill	WATER LEVEL PROBE	Heron
PROJECT NUMBER	22.0129.01	WATER QUALITY METER(S)	YSI
LOCATION	New Berlin, WI		Hanna
FIELD STAFF	Ashley Wagner	TURBIDITY METER	NA
	Jenny Skweres		

WELL ID	B15	START PURGE TIME	12/5/24 14:40
SAMPLE DATE	12/5/24	END PURGE TIME	
SAMPLE TIME	15:15	KEY NUMBER	
DEPTH TO WATER (ft)	30.10	PURGE VOLUME (gal)	
DEPTH TO BOTTOM (ft)	42.20	PURGE METHOD	PUMP
1 CASING VOLUME (gal)	4.29	SAMPLING METHOD	
3 CASING VOLUME (gal)	12.71	SAMPLING DEPTH	

CLOCK TIME	# OF MINUTES LAPSED	TEMP. (°C)	DISSOLVED OXYGEN (%)	DISSOLVED OXYGEN (ppm)	SPEC. COND. (ms/cm)	pH (units)	ORP (mV)
15:01		13.5	25.5	2.65	1088	8.50	-69.3
15:03	2	13.6	24.5	2.54	1082	8.40	-68.9
15:05	2	13.6	23.00	2.34	1087	8.34	-71.5
15:07	2	13.8	21.3	2.19	1084	8.31	-76.6
15:09	2	13.9	20.6	2.11	1082	8.30	-78.6
15:11	2	13.9	20.6	2.05	1077	8.29	-81.2

NOTES (COLOR, ODOR, CLARITY, ISSUES, WELL/KEY CONDITION)	Hanna pH = 7.16 conductivity = 1362
SAMPLING PARAMETERS	(# OF CONTAINERS, SIZE OF CONTAINER, CONTAINER TYPE (A = AMBER, G = GLASS, P = PLASTIC), FILTERED? (YES/NO), PRESERVATIVE)
Chloride, Sulfate	1-250 mL; P; None; Yes
Metals (As, Pb, Ni, Mn, Mg, Cr)	1-250 mL; P; HNO_3; Yes
Nitrate + Nitrite, Total Kjeldahl Nitrogen (TKN)	1-250 mL; P; H_2SO_4; Yes

KAPUR & ASSOCIATES GROUNDWATER QUALITY FIELD FORM

PROJECT NAME	Barrett Landfill	WATER LEVEL PROBE	Heron
PROJECT NUMBER	22.0129.01		
LOCATION	New Berlin, WI	WATER QUALITY METER(S)	YSI
FIELD STAFF	Ashley Wagner		Hanna
	Jenny Skweres	TURBIDITY METER	NA

WELL ID	B46-BR15A				
SAMPLE DATE	12/15/21				
SAMPLE TIME	15:57				
DEPTH TO WATER (ft)	44.08				
DEPTH TO BOTTOM (ft)	81.00				
1 CASING VOLUME (gal)	6.9				
3 CASING VOLUME (gal)	20.72				
PURGE VOLUME (gal)	10 gal				
PURGE METHOD	Pump				
SAMPLING METHOD	~~45.90~~ 80.19				
SAMPLING DEPTH	13.5				
TEMPERATURE (°C)	-				
DISSOLVED OXYGEN (%)	1046				
DISSOLVED OXYGEN (ppm)	7.24				
SPEC. CONDUCTIVITY (ms/cm)	C				
pH (units)	NC				
ORP (mV)					
COLOR					
ODOR					
CLARITY					
NOTES					
SAMPLING PARAMETERS	(# OF CONTAINERS, SIZE OF CONTAINER, CONTAINER TYPE (A = AMBER, G = GLASS, P = PLASTIC), FILTERED? (YES/NO), PRESERVATIVE)				
Chloride, Sulfate	1-250 mL; P; None; Yes	1-250 mL; P; None; Yes	1-250 mL; P; None; Yes	1-250 mL; P; None; Yes	1-250 mL; P; None; Yes
Metals (As, Pb, Ni, Mn, Mg, Cr)	1-250 mL; P; HNO_3; Yes	1-250 mL; P; HNO3; Yes	1-250 mL; P; HNO3; Yes	1-250 mL; P; HNO3; Yes	1-250 mL; P; HNO3; Yes
Nitrate + Nitrite, Total Kjeldahl Nitrogen (TKN)	1-250 mL; P; H_2SO_4; Yes	1-250 mL; P; H_2SO_4; Yes	1-250 mL; P; H_2SO_4; Yes	1-250 mL; P; H_2SO_4; Yes	1-250 mL; P; H2SO4; Yes
		1			

KAPUR & ASSOCIATES GROUNDWATER QUALITY FIELD FORM LOW-FLOW

PROJECT NAME	Barrett Landfill	WATER LEVEL PROBE	Heron
PROJECT NUMBER	22.0129.01	WATER QUALITY METER(S)	YSI
LOCATION	New Berlin, WI		Hanna
FIELD STAFF	Ashley Wagner	TURBIDITY METER	NA
	Jenny Skweres		

WELL ID	B-96-17	START PURGE TIME	11:20
SAMPLE DATE	12/15/21	END PURGE TIME	
SAMPLE TIME		KEY NUMBER	
DEPTH TO WATER (ft)	51.03	PURGE VOLUME (gal)	10 gal
DEPTH TO BOTTOM (ft)	91.56	PURGE METHOD	PUMP
1 CASING VOLUME (gal)	1.71	SAMPLING METHOD	
3 CASING VOLUME (gal)	5.63	SAMPLING DEPTH	

CLOCK TIME	# OF MINUTES LAPSED	TEMP. (°C)	DISSOLVED OXYGEN (%)	DISSOLVED OXYGEN (ppm)	SPEC. COND. (ms/cm)	pH (units)	ORP (mV)
11:28	—	11.7	78.5	10.0	948	8.48	64.5
11:43	5	11.5	75.0	8.76	951	8.49	71.9
11:45	2	11.6	74.0	8.01	948	8.49	74.3
11:47	2	11.6	76.4	8.30	949	8.50	77.1
11:49	2	11.5	76.1	8.29	954	7.50	77.5
11:51	2	11.4	76.6	8.33	950	7.51	78.1

YSI shut off

NOTES (COLOR, ODOR, CLARITY, ISSUES, WELL/KEY CONDITION)	turbid when started purging, cleared up w/ time Hanna Meter pH = 7.05 Conductivity = 1142 C, N, C
SAMPLING PARAMETERS	(# OF CONTAINERS, SIZE OF CONTAINER, CONTAINER TYPE (A = AMBER, G = GLASS, P = PLASTIC), FILTERED? (YES/NO), PRESERVATIVE)
Chloride, Sulfate	1-250 mL; P; None; Yes
Metals (As, Pb, Ni, Mn, Mg, Cr)	1-250 mL; P; HNO_3; Yes
Nitrate + Nitrite, Total Kjeldahl Nitrogen (TKN)	1-250 mL; P; H_2SO_4; Yes

KAPUR & ASSOCIATES GROUNDWATER QUALITY FIELD FORM LOW-FLOW

PROJECT NAME	Barrett Landfill	WATER LEVEL PROBE	Heron
PROJECT NUMBER	22.0129.01		
LOCATION	New Berlin, WI	WATER QUALITY METER(S)	YSI
FIELD STAFF	Ashley Wagner		Hanna
	Jenny Skweres	TURBIDITY METER	NA

WELL ID	BW-17A	START PURGE TIME	11:06
SAMPLE DATE	12/15/21	END PURGE TIME	11:30
SAMPLE TIME	11:35	KEY NUMBER	
DEPTH TO WATER (ft)	91.23	PURGE VOLUME (gal)	4.5
DEPTH TO BOTTOM (ft)	92.17	PURGE METHOD	PUMP
1 CASING VOLUME (gal)	1.61	SAMPLING METHOD	
3 CASING VOLUME (gal)	20.01	SAMPLING DEPTH	50.65

CLOCK TIME	# OF MINUTES LAPSED	TEMP. (°C)	DISSOLVED OXYGEN (%)	DISSOLVED OXYGEN (ppm)	SPEC. COND. (ms/cm)	pH (units)	ORP (mV)
11:11	2	10.9	16.8	1.86	735	8.91	24.5
11:13	2	11.1	15.7	1.98	730	8.72	23.0
11:15 (11:17)	4	11.2	15.6	1.71	741	8.57	15.3
11:19	2	11.35	14.8	1.62	739	8.49	4.6
11:21	2	11.3	14.1	1.54	739	8.47	1.9
11:23	2	11.3	13.3	1.45	739	8.45	-10.0
11:25	2	11.3	12.7	1.38	742	8.51	-12.1
11:27	2	11.4	12.3	1.35	740	8.52	-12.3
11:29	2	11.4	12.1	1.33	739	8.54	-12.3

NOTES (COLOR, ODOR, CLARITY, ISSUES, WELL/KEY CONDITION): pH & Conductivity = Hanna Meter

SAMPLING PARAMETERS	(# OF CONTAINERS, SIZE OF CONTAINER, CONTAINER TYPE (A = AMBER, G = GLASS, P = PLASTIC), FILTERED? (YES/NO), PRESERVATIVE)
Chloride, Sulfate	1-250 mL; P; None; Yes
Metals (As, Pb, Ni, Mn, Mg, Cr)	1-250 mL; P; HNO_3; Yes
Nitrate + Nitrite, Total Kjeldahl Nitrogen (TKN)	1-250 mL; P; H_2SO_4; Yes

KAPUR & ASSOCIATES GROUNDWATER QUALITY FIELD FORM LOW-FLOW

PROJECT NAME	Barrett Landfill	WATER LEVEL PROBE	Heron
PROJECT NUMBER	22.0129.01		
LOCATION	New Berlin, WI	WATER QUALITY METER(S)	YSI
FIELD STAFF	Ashley Wagner		Hanna
	Jenny Skweres	TURBIDITY METER	NA

WELL ID	MW-8A	START PURGE TIME	10:00
SAMPLE DATE	12/15/21	END PURGE TIME	10:25
SAMPLE TIME	10:30	KEY NUMBER	5
DEPTH TO WATER (ft)	49.83	PURGE VOLUME (gal)	~9 gal
DEPTH TO BOTTOM (ft)	59.02	PURGE METHOD	PUMP
1 CASING VOLUME (gal)	1.49	SAMPLING METHOD	
3 CASING VOLUME (gal)	4.49	SAMPLING DEPTH	49.83

CLOCK TIME	# OF MINUTES LAPSED	TEMP. (°C)	DISSOLVED OXYGEN (%)	DISSOLVED OXYGEN (ppm)	SPEC. COND. (ms/cm)	pH (units)	ORP (mV)
10:10	3	11.8	78.9	8.50	863	8.35	150.0
10:13	3	11.8	75.9	8.20	858	8.34	143.8
10:16	3	11.9	76.4	8.26	864	8.34	141.1
10:19	3	11.9	76.4	8.23	864	8.37	137.8
10:21	2	11.9	77.5	8.33	866	8.40	135.4

10:19

NOTES (COLOR, ODOR, CLARITY, ISSUES, WELL/KEY CONDITION)	PH FROM HANNA METER: 6.75 CONDUCTIVITY ~1050 C, NC
SAMPLING PARAMETERS	(# OF CONTAINERS, SIZE OF CONTAINER, CONTAINER TYPE (A = AMBER, G = GLASS, P = PLASTIC), FILTERED? (YES/NO), PRESERVATIVE)
Chloride, Sulfate	1-250 mL; P; None; Yes
Metals (As, Pb, Ni, Mn, Mg, Cr)	1-250 mL; P; HNO_3; Yes
Nitrate + Nitrite, Total Kjeldahl Nitrogen (TKN)	1-250 mL; P; H_2SO_4; Yes

KAPUR & ASSOCIATES GROUNDWATER QUALITY FIELD FORM LOW-FLOW

PROJECT NAME	Barrett Landfill	WATER LEVEL PROBE	Heron
PROJECT NUMBER	22.0129.01		
LOCATION	New Berlin, WI	WATER QUALITY METER(S)	YSI
FIELD STAFF	Ashley Wagner		Hanna
	Jenny Skweres	TURBIDITY METER	NA

WELL ID	B14 - DUP	START PURGE TIME	15:20
SAMPLE DATE	12/13/21	END PURGE TIME	
SAMPLE TIME	15:50	KEY NUMBER	
DEPTH TO WATER (ft)	50.82	PURGE VOLUME (gal)	
DEPTH TO BOTTOM (ft)	85.55	PURGE METHOD	
1 CASING VOLUME (gal)	5.69	SAMPLING METHOD	PUMP
3 CASING VOLUME (gal)	16.98	SAMPLING DEPTH	@ 52.80

CLOCK TIME	# OF MINUTES LAPSED	TEMP. (°C)	DISSOLVED OXYGEN (%)	DISSOLVED OXYGEN (ppm)	SPEC. COND. (ms/cm)	pH (units)	ORP (mV)
15:35		11.3	21.5	2.32	797	7.59	-18.3
15:37	2	11.1	17.5	1.92	7101	7.39	-24.3
15:39	2	11.1	14.9	1.62	771	7.28	-28.6
15:41	2	11.0	13.2	1.44	777	7.27	-32.8
15:43	2	11.0	11.7	1.29	780	7.24	-36.6
~~15:45~~	~~2~~	11.0	11.4	N/R		7.20	N/A
15:45	2	11.0	11.1	1.22	781	7.34	-38.1
15:47	2	11.0	10.4	1.14	784	7.29	-39.7
15:49	2	11.0	9.9	1.08	784	7.43	-41.3

NOTES (COLOR, ODOR, CLARITY, ISSUES, WELL/KEY CONDITION)	C, N, C
SAMPLING PARAMETERS	(# OF CONTAINERS, SIZE OF CONTAINER, CONTAINER TYPE (A = AMBER, G = GLASS, P = PLASTIC), FILTERED? (YES/NO), PRESERVATIVE)
Chloride, Sulfate	1-250 mL; P; None; Yes
Metals (As, Pb, Ni, Mn, Mg, Cr)	1-250 mL; P; HNO_3; Yes
Nitrate + Nitrite, Total Kjeldahl Nitrogen (TKN)	1-250 mL; P; H_2SO_4; Yes

KAPUR & ASSOCIATES GROUNDWATER QUALITY FIELD FORM LOW-FLOW

PROJECT NAME	Barrett Landfill	WATER LEVEL PROBE	Heron
PROJECT NUMBER	22.0129.01		
LOCATION	New Berlin, WI	WATER QUALITY METER(S)	YSI
FIELD STAFF	Ashley Wagner		Hanna
	Jenny Skweres	TURBIDITY METER	NA

WELL ID	B19A	START PURGE TIME	13:40
SAMPLE DATE	12/13/21	END PURGE TIME	14:00
SAMPLE TIME	14:01	KEY NUMBER	
DEPTH TO WATER (ft)	14.70	PURGE VOLUME (gal)	3 gal
DEPTH TO BOTTOM (ft)	19.16	PURGE METHOD	PUMP
1 CASING VOLUME (gal)	4.88	SAMPLING METHOD	
3 CASING VOLUME (gal)	14.15	SAMPLING DEPTH	

CLOCK TIME	# OF MINUTES LAPSED	TEMP. (°C)	DISSOLVED OXYGEN (%)	DISSOLVED OXYGEN (ppm)	SPEC. COND. (ms/cm)	pH (units)	ORP (mV)
13:46	2	12.8	23.1	2.97	893	7.34	-86.9
13:48	2	13.3	21.0	2.19	895	7.23	-94.0
13:51	2	13.9	18.2	1.88	896	7.14	-98.8
13:53	2	13.5	16.0	1.65	897	7.14	-103.4
13:55	2	13.5	15.0	1.56	896	7.12	-105.7
13:57	2	13.6	14.2	1.47	890	7.19	-111.4

NOTES (COLOR, ODOR, CLARITY, ISSUES, WELL/KEY CONDITION)	
SAMPLING PARAMETERS	(# OF CONTAINERS, SIZE OF CONTAINER, CONTAINER TYPE (A = AMBER, G = GLASS, P = PLASTIC), FILTERED? (YES/NO), PRESERVATIVE)
Chloride, Sulfate	1-250 mL; P; None; Yes
Metals (As, Pb, Ni, Mn, Mg, Cr)	1-250 mL; P; HNO_3; Yes
Nitrate + Nitrite, Total Kjeldahl Nitrogen (TKN)	1-250 mL; P; H_2SO_4; Yes

KAPUR & ASSOCIATES GROUNDWATER QUALITY FIELD FORM LOW-FLOW

PROJECT NAME	Barrett Landfill	WATER LEVEL PROBE	Heron
PROJECT NUMBER	22.0129.01	WATER QUALITY METER(S)	YSI
LOCATION	New Berlin, WI		Hanna
FIELD STAFF	Ashley Wagner	TURBIDITY METER	NA
	Jenny Skweres		

WELL ID	B21	START PURGE TIME	12:35
SAMPLE DATE	12/15/21	END PURGE TIME	
SAMPLE TIME		KEY NUMBER	
DEPTH TO WATER (ft)	41.24	PURGE VOLUME (gal)	1.5
DEPTH TO BOTTOM (ft)	55.91	PURGE METHOD	PUMP
1 CASING VOLUME (gal)		SAMPLING METHOD	PUMP
3 CASING VOLUME (gal)		SAMPLING DEPTH	50.65

CLOCK TIME	# OF MINUTES LAPSED	TEMP. (°C)	DISSOLVED OXYGEN (%)	DISSOLVED OXYGEN (ppm)	SPEC. COND. (ms/cm)	pH (units)	ORP (mV)
13:00	2	11.0	12.6	1.34	708	9.76	-0.5
13:03	3	10.9	12.6	1.31	706	9.92	-9.0
13:05	2	10.9	12.8	1.33	705	9.88	-9.0
13:07	2	10.8	12.8	1.31	717	9.90	-11.2
13:09	2	10.8	11.9	1.33	717	9.93	-12.0
13:11	2	10.8	11.9	1.31	717	9.91	-14.0

NOTES (COLOR, ODOR, CLARITY, ISSUES, WELL/KEY CONDITION)	HANNA METER pH = 7.27 COND = 882
SAMPLING PARAMETERS	(# OF CONTAINERS, SIZE OF CONTAINER, CONTAINER TYPE (A = AMBER, G = GLASS, P = PLASTIC), FILTERED? (YES/NO), PRESERVATIVE)
Chloride, Sulfate	1-250 mL; P; None; Yes
Metals (As, Pb, Ni, Mn, Mg, Cr)	1-250 mL; P; HNO_3; Yes
Nitrate + Nitrite, Total Kjeldahl Nitrogen (TKN)	1-250 mL; P; H_2SO_4; Yes

KAPUR & ASSOCIATES GROUNDWATER QUALITY FIELD FORM LOW-FLOW

PROJECT NAME	Barrett Landfill	WATER LEVEL PROBE	Heron
PROJECT NUMBER	22.0129.01		
LOCATION	New Berlin, WI	WATER QUALITY METER(S)	YSI
FIELD STAFF	Ashley Wagner		Hanna
	Jenny Skweres	TURBIDITY METER	NA

WELL ID	D21A	START PURGE TIME	12:30
SAMPLE DATE	12/15/21	END PURGE TIME	12:52
SAMPLE TIME	12:55	KEY NUMBER	
DEPTH TO WATER (ft)	48.6	PURGE VOLUME (gal)	5 gal
DEPTH TO BOTTOM (ft)	84.77	PURGE METHOD	PUMP
1 CASING VOLUME (gal)	5.89	SAMPLING METHOD	
3 CASING VOLUME (gal)	17.6	SAMPLING DEPTH	50.91

CLOCK TIME	# OF MINUTES LAPSED	TEMP. (°C)	DISSOLVED OXYGEN (%)	DISSOLVED OXYGEN (ppm)	SPEC. COND. (ms/cm)	pH (units)	ORP (mV)
12:40	2	11.5	16.1	1.75	7.37	9.51	37.1
12:42	2	11.6	15.2	1.65	7.36	9.52	30.7
12:44	2	11.6	14.7	1.60	7.36	9.05	24.1
12:48	4	11.8	14.1	1.52	7.36	8.98	14.1
12:50	2	11.8	13.9	1.49	7.37	8.77	11.0
12:52	2	11.8	13.7	1.49	7.37	8.75	7.5
12:55							

NOTES (COLOR, ODOR, CLARITY, ISSUES, WELL/KEY CONDITION)	pH = 7.23 Hanna Meter Conductivity = 899 C, N, C
SAMPLING PARAMETERS	(# OF CONTAINERS, SIZE OF CONTAINER, CONTAINER TYPE (A = AMBER, G = GLASS, P = PLASTIC), FILTERED? (YES/NO), PRESERVATIVE)
Chloride, Sulfate	1-250 mL; P; None; Yes
Metals (As, Pb, Ni, Mn, Mg, Cr)	1-250 mL; P; HNO_3; Yes
Nitrate + Nitrite, Total Kjeldahl Nitrogen (TKN)	1-250 mL; P; H_2SO_4; Yes

KAPUR & ASSOCIATES GROUNDWATER QUALITY FIELD FORM LOW-FLOW

PROJECT NAME	Barrett Landfill	WATER LEVEL PROBE	Heron
PROJECT NUMBER	22.0129.01	WATER QUALITY METER(S)	YSI
LOCATION	New Berlin, WI		Hanna
FIELD STAFF	Ashley Wagner	TURBIDITY METER	NA
	Jenny Skweres		

WELL ID	MW-28 MW-28A	START PURGE TIME	11:25
SAMPLE DATE	10/21/25	END PURGE TIME	
SAMPLE TIME		KEY NUMBER	
DEPTH TO WATER (ft)	68.37	PURGE VOLUME (gal)	
DEPTH TO BOTTOM (ft)	100.0	PURGE METHOD	PUMP
1 CASING VOLUME (gal)		SAMPLING METHOD	
3 CASING VOLUME (gal)		SAMPLING DEPTH	@ 78

CLOCK TIME	# OF MINUTES LAPSED	TEMP. (°C)	DISSOLVED OXYGEN (%)	DISSOLVED OXYGEN (ppm)	SPEC. COND. (ms/cm)	pH (units)	ORP (mV)
11:25	2	12.2	—	—	1102	7.12	—
11:27	2	11.4			1060	7.51	
11:29	2	11.5			1055	7.33	
11:31	2	11.9			1047	7.21	
11:33	2	11.5			1045	7.25	
11:35	2	11.5			1038	7.19	
11:37	2	11.7			1040	7.21	
11:39	2	11.7			1040	7.22	
11:41	2						

NOTES (COLOR, ODOR, CLARITY, ISSUES, WELL/KEY CONDITION)	
SAMPLING PARAMETERS	(# OF CONTAINERS, SIZE OF CONTAINER, CONTAINER TYPE (A = AMBER, G = GLASS, P = PLASTIC), FILTERED? (YES/NO), PRESERVATIVE)
Chloride, Sulfate	1-250 mL; P; None; Yes
Metals (As, Pb, Ni, Mn, Mg, Cr)	1-250 mL; P; HNO_3; Yes
Nitrate + Nitrite, Total Kjeldahl Nitrogen (TKN)	1-250 mL; P; H_2SO_4; Yes

KAPUR & ASSOCIATES GROUNDWATER QUALITY FIELD FORM LOW-FLOW

PROJECT NAME	Barrett Landfill	WATER LEVEL PROBE	Heron
PROJECT NUMBER	22.0129.01	WATER QUALITY METER(S)	YSI
LOCATION	New Berlin, WI		Hanna
FIELD STAFF	Ashley Wagner	TURBIDITY METER	NA
	Jenny Skweres		

WELL ID	MW24	START PURGE TIME	14:30
SAMPLE DATE	11/3/21	END PURGE TIME	
SAMPLE TIME	15:00	KEY NUMBER	
DEPTH TO WATER (ft)	88.61	PURGE VOLUME (gal)	
DEPTH TO BOTTOM (ft)	93.37	PURGE METHOD	PUMP
1 CASING VOLUME (gal)	0.96	SAMPLING METHOD	
3 CASING VOLUME (gal)	2.30	SAMPLING DEPTH	89.7

CLOCK TIME	# OF MINUTES LAPSED	TEMP. (°C)	DISSOLVED OXYGEN (%)	DISSOLVED OXYGEN (ppm)	SPEC. COND. (ms/cm)	pH (units)	ORP (mV)
14:45		11.0	35.5	3.88	055	7.56	-8.9
14:47	2	11.2	33.6	3.67	057	7.47	-10.0
14:49	2	11.2	32.5	3.56	060	7.40	-11.0
14:51	2	11.2	31.6	3.47	063	7.34	-11.8
14:53	2	11.3	30.8	3.38	064	7.22	-12.3

NOTES (COLOR, ODOR, CLARITY, ISSUES, WELL/KEY CONDITION)	CLEAR
SAMPLING PARAMETERS	(# OF CONTAINERS, SIZE OF CONTAINER, CONTAINER TYPE (A = AMBER, G = GLASS, P = PLASTIC), FILTERED? (YES/NO), PRESERVATIVE)
Chloride, Sulfate	1-250 mL; P; None; Yes
Metals (As, Pb, Ni, Mn, Mg, Cr)	1-250 mL; P; HNO_3; Yes
Nitrate + Nitrite, Total Kjeldahl Nitrogen (TKN)	1-250 mL; P; H_2SO_4; Yes

KAPUR & ASSOCIATES GROUNDWATER QUALITY FIELD FORM LOW-FLOW

PROJECT NAME	Barrett Landfill	WATER LEVEL PROBE	Heron
PROJECT NUMBER	22.0129.01		
LOCATION	New Berlin, WI	WATER QUALITY METER(S)	YSI
FIELD STAFF	Ashley Wagner		Hanna
	Jenny Skweres	TURBIDITY METER	NA

WELL ID	B-94-25	START PURGE TIME	10:00
SAMPLE DATE	12.16.21	END PURGE TIME	1022
SAMPLE TIME	1025	KEY NUMBER	
DEPTH TO WATER (ft)	29.21	PURGE VOLUME (gal)	
DEPTH TO BOTTOM (ft)	~~39.80~~ 39.52	PURGE METHOD	SUB. PUMP
1 CASING VOLUME (gal)		SAMPLING METHOD	SUB PUMP
3 CASING VOLUME (gal)		SAMPLING DEPTH	38.0

CLOCK TIME	# OF MINUTES LAPSED	TEMP. (°C)	DISSOLVED OXYGEN (%)	DISSOLVED OXYGEN (ppm)	SPEC. COND. (ms/cm)	pH (units)	ORP (mV)
1010	—	4.3	62.5	7.65	777	9.96	-41.7
1012	2	10.4	69.3	7.72	798	9.50	-31.7
1015	3	11.6	73.4	7.97	769	9.18	-26.4
1017	2	11.4	73.2	7.96	755	9.09	-23.0
1019	2	11.1	73.0	8.03	757	9.00	-20.9
1021	2	11.0	72.5	7.99	768	8.94	-18.6
		HANNA METER →			886	7.34	

NOTES (COLOR, ODOR, CLARITY, ISSUES, WELL/KEY CONDITION)	CLEAR NONE CLEAR
SAMPLING PARAMETERS	(# OF CONTAINERS, SIZE OF CONTAINER, CONTAINER TYPE (A = AMBER, G = GLASS, P = PLASTIC), FILTERED? (YES/NO), PRESERVATIVE)
Chloride, Sulfate	1-250 mL; P; None; Yes
Metals (As, Pb, Ni, Mn, Mg, Cr)	1-250 mL; P; HNO_3; Yes
Nitrate + Nitrite, Total Kjeldahl Nitrogen (TKN)	1-250 mL; P; H_2SO_4; Yes

KAPUR & ASSOCIATES GROUNDWATER QUALITY FIELD FORM LOW-FLOW

PROJECT NAME	Barrett Landfill	WATER LEVEL PROBE	Heron
PROJECT NUMBER	22.0129.01		
LOCATION	New Berlin, WI	WATER QUALITY METER(S)	YSI
FIELD STAFF	Ashley Wagner		Hanna
	Jenny Skweres	TURBIDITY METER	NA

WELL ID	B-44-25A	START PURGE TIME	1033
SAMPLE DATE	12/16/21	END PURGE TIME	1049
SAMPLE TIME	1053	KEY NUMBER	
DEPTH TO WATER (ft)	33.17	PURGE VOLUME (gal)	2.0
DEPTH TO BOTTOM (ft)	60.65	PURGE METHOD	LF Sub Pump
1 CASING VOLUME (gal)		SAMPLING METHOD	
3 CASING VOLUME (gal)		SAMPLING DEPTH	

CLOCK TIME	# OF MINUTES LAPSED	TEMP. (°C)	DISSOLVED OXYGEN (%)	DISSOLVED OXYGEN (ppm)	SPEC. COND. (ms/cm)	pH (units)	ORP (mV)
1043	—	7.6	6.5	0.77	1028	8.42	-186.6
1045	2	7.2	6.6	0.78	1026	8.43	-188.6
1047	2	7.2	6.0	0.73	1020	8.44	-191.8
10							
		Hanna Meter			1460	7.55	—

NOTES (COLOR, ODOR, CLARITY, ISSUES, WELL/KEY CONDITION)	Took Dup @ 1055
SAMPLING PARAMETERS	(# OF CONTAINERS, SIZE OF CONTAINER, CONTAINER TYPE (A = AMBER, G = GLASS, P = PLASTIC), FILTERED? (YES/NO), PRESERVATIVE)
Chloride, Sulfate	1-250 mL; P; None; Yes
Metals (As, Pb, Ni, Mn, Mg, Cr)	1-250 mL; P; HNO_3; Yes
Nitrate + Nitrite, Total Kjeldahl Nitrogen (TKN)	1-250 mL; P; H_2SO_4; Yes
	Took Equip Blank @ 1115

KAPUR & ASSOCIATES GROUNDWATER QUALITY FIELD FORM

PROJECT NAME	Barrett Landfill	WATER LEVEL PROBE	Heron
PROJECT NUMBER	22.0129.01	WATER QUALITY METER(S)	YSI
LOCATION	New Berlin, WI		Hanna
FIELD STAFF	Ashley Wagner	TURBIDITY METER	NA
	Jenny Skweres		

WELL ID	W-23	W-23A	B96-13A	B14A	B14-18D
SAMPLE DATE	11/3/21	11/3/21			
SAMPLE TIME	11:40	11:00	13:11		
DEPTH TO WATER (ft)	82.25	88.30	69.46	49.70	50.82
DEPTH TO BOTTOM (ft)	87.23	100.0	99.11	79.16	85.55
1 CASING VOLUME (gal)	0.81	5.43	5.25	4.80	
3 CASING VOLUME (gal)	2.43	15.43	15.75	14.15	
PURGE VOLUME (gal)					
PURGE METHOD	PUMP				
SAMPLING METHOD	PUMP	→			
SAMPLING DEPTH	87.78	92.5			
TEMPERATURE (°C)	12.2				
DISSOLVED OXYGEN (%)	—				
DISSOLVED OXYGEN (ppm)	—				
SPEC. CONDUCTIVITY (ms/cm)	7.12				
pH (units)	7.62				
ORP (mV)	—				
COLOR		C			
ODOR		N			
CLARITY		C			
NOTES					

SAMPLING PARAMETERS	(# OF CONTAINERS, SIZE OF CONTAINER, CONTAINER TYPE (A = AMBER, G = GLASS, P = PLASTIC), FILTERED? (YES/NO), PRESERVATIVE)				
Chloride, Sulfate	1-250 mL; P; None; Yes	1-250 mL; P; None; Yes	1-250 mL; P; None; Yes	1-250 mL; P; None; Yes	1-250 mL; P; None; Yes
Metals (As, Pb, Ni, Mn, Mg, Cr)	1-250 mL; P; HNO_3; Yes	1-250 mL; P; HNO3; Yes	1-250 mL; P; HNO3; Yes	1-250 mL; P; HNO3; Yes	1-250 mL; P; HNO3; Yes
Nitrate + Nitrite, Total Kjeldahl Nitrogen (TKN)	1-250 mL; P; H_2SO_4; Yes	1-250 mL; P; H_2SO_4; Yes	1-250 mL; P; H_2SO_4; Yes	1-250 mL; P; H_2SO_4; Yes	1-250 mL; P; H2SO4; Yes
Start time	11:35	10:30			

KAPUR & ASSOCIATES PRIVATE WELL WATER QUALITY FIELD FORM

PROJECT NAME	Barrett Landfill	**WATER LEVEL PROBE**	NA
PROJECT NUMBER	22.0129.01		
LOCATION	New Berlin, WI	**WATER QUALITY METER(S)**	Hanna
FIELD STAFF	Ashley Wagner		
	Jenny Skweres	**TURBIDITY METER**	NA

		Eric	Cathy		
WELL ID	Temple	Wyszkowski	Berghammer	Santhillo	
SAMPLE DATE	12-14-21	12-14-21	12-14-21	12/15/21	
SAMPLE TIME	9:15	9:55	1035	13:50	
WELL ADDRESS	3700 S	3630 S	3600 S.		
	Swartz	canary	canary		
OWNER'S PHONE NUMBER	651-621-9036				
PURGE RATE (gal/min)	3.0	1.15	3.0	pressure tank	
PURGE VOLUME (gal)	60	25	60	kicked on (3X)	
PURGE LOCATION	Hall Sink	Basement Sink	Basement Sink	Basement	
SAMPLING LOCATION	↓	Pressure tank	Pressure tank/inf.	Pressure tank	
TEMPERATURE (°C)	11.9	12.0	~~10.08~~ 10.8	12.5	
DISSOLVED OXYGEN (ppm)	NA	NA	NA	NA	NA
DISSOLVED OXYGEN (%)	NA	NA	NA	NA	NA
us/cm **Spec. Conductivity (~~ms~~/cm)**	1035	819	888	706	
pH (units)	7.97 ~~8.06~~	7.40	7.17	7.37	
ORP (mV)	NA	NA	NA	NA	NA
COLOR	clear	clear	clear	C	
ODOR	none	none	none	N	
CLARITY	clear	clear	clear	C	
NOTES Start	851	928	1010		
Ptank		||||	||||		
Stop	911	~~948~~ 950	1030		
	20 min	22 min	20		
SAMPLING PARAMETERS	**(# OF CONTAINERS, SIZE OF CONTAINER, CONTAINER TYPE (A = AMBER, G = GLASS, P = PLASTIC), FILTERED? (YES/NO), PRESERVATIVE)**				
Chloride	1-250 mL; P; None; No	1-250 mL; P; None; No	1-250 mL; P; None; No	1-250 mL; P; None; No	1-250 mL; P; None; No
Metals (As, Pb, Cr, Mn, Mg)	1-250 mL; P; HNO_3; No	1-250 mL; P; HNO3; No	1-250 mL; P; HNO3; No	1-250 mL; P; HNO3; No	1-250 mL; P; HNO3; No
Nitrate + Nitrite	1-250 mL; P; H_2SO_4; No	1-250 mL; P; H_2SO_4; No	1-250 mL; P; H_2SO_4; No	1-250 mL; P; H_2SO_4; No	1-250 mL; P; H2SO4; No
*	new well		[illegible]		
	Piping				
		52 sec/gal	30 Low turns on Ptank		

~~0.02~~ 1.15 gal/min

had to turn water on again to get sample - so Ptank turned on

50 off

Drain 1.35, 1.33

Fill 31, 33

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KAPUR & ASSOCIATES PRIVATE WELL WATER QUALITY FIELD FORM

PROJECT NAME	Barrett Landfill	WATER LEVEL PROBE	NA
PROJECT NUMBER	22.0129.01		
LOCATION	New Berlin, WI	WATER QUALITY METER(S)	Hanna
FIELD STAFF	Ashley Wagner		
	Jenny Skweres	TURBIDITY METER	NA

WELL ID	[illegible]	Wenning	Huerta		
SAMPLE DATE	12/7/2021	12/2021	12/2021		
SAMPLE TIME	16:05	16:30	16:50		
WELL ADDRESS					
OWNER'S PHONE NUMBER					
PURGE RATE (gal/min)					
PURGE VOLUME (gal)	100 gal	50 gal			
PURGE LOCATION	garage, away	away	PB by pressure tank		
SAMPLING LOCATION	garage	outside	Basement		
TEMPERATURE (°C)	10.7	10.3	11.3		
DISSOLVED OXYGEN (ppm)	NA	NA	NA	NA	NA
DISSOLVED OXYGEN (%)	NA	NA	NA	NA	NA
Spec. Conductivity (ms/cm)	847	911	824		
pH (units)	7.59	7.49	7.67		
ORP (mV)	NA	NA	NA	NA	NA
COLOR		C	C		
ODOR		N	N		
CLARITY		C	C		
NOTES		[illegible]			

SAMPLING PARAMETERS	(# OF CONTAINERS, SIZE OF CONTAINER, CONTAINER TYPE (A = AMBER, G = GLASS, P = PLASTIC), FILTERED? (YES/NO), PRESERVATIVE)				
Chloride	1-250 mL; P; None; No	1-250 mL; P; None; No	1-250 mL; P; None; No	1-250 mL; P; None; No	1-250 mL; P; None; No
Metals (As, Pb, Cr, Mn, Mg)	1-250 mL; P; HNO_3; No	1-250 mL; P; HNO3; No	1-250 mL; P; HNO3; No	1-250 mL; P; HNO3; No	1-250 mL; P; HNO3; No
Nitrate + Nitrite	1-250 mL; P; H_2SO_4; No	1-250 mL; P; H_2SO_4; No	1-250 mL; P; H_2SO_4; No	1-250 mL; P; H_2SO_4; No	1-250 mL; P; H2SO4; No

KAPUR & ASSOCIATES PRIVATE WELL WATER QUALITY FIELD FORM

PROJECT NAME	Barrett Landfill	**WATER LEVEL PROBE**	NA
PROJECT NUMBER	22.0129.01		
LOCATION	New Berlin, WI	**WATER QUALITY METER(S)**	Hanna
FIELD STAFF	Ashley Wagner		
	Jenny Skweres	**TURBIDITY METER**	NA

WELL ID	Zervi	Schmidt	Whitehaus	Christiansen	Bynor
SAMPLE DATE	12/20/21	12/20/21	12/20/21	12/20/21	12/20/21
SAMPLE TIME	10:00	10:15	10:30	15:28	15:36
WELL ADDRESS					
OWNER'S PHONE NUMBER					
PURGE RATE (gal/min)	6.07/min	9.09/min		6.88/min	NM
PURGE VOLUME (gal)					
PURGE LOCATION	away from spigot	away	away	away	pressure tank
SAMPLING LOCATION	outside spigot	outside spigot	outside	outside	basement
TEMPERATURE (°C)	6.3	10.2	~~10.9~~ 11.3	8.5	12.4
DISSOLVED OXYGEN (ppm)	NA	NA	NA	NA	NA
DISSOLVED OXYGEN (%)	NA	NA	NA	NA	NA
Spec. Conductivity (ms/cm)	1335	780	767	760	638
pH (units)	7.26	7.23	7.04	7.47	7.21
ORP (mV)	NA	NA	NA	NA	NA
COLOR	C	green-electricity	C	grey	C
ODOR	N	rotten eggs	N	N	N
CLARITY	C	C	C	cloudy	C
NOTES	10 gal/5 min				owner turned on 15 min prior

SAMPLING PARAMETERS	**(# OF CONTAINERS, SIZE OF CONTAINER, CONTAINER TYPE (A = AMBER, G = GLASS, P = PLASTIC), FILTERED? (YES/NO), PRESERVATIVE)**				
Chloride	1-250 mL; P; None; No	1-250 mL; P; None; No	1-250 mL; P; None; No	1-250 mL; P; None; No	1-250 mL; P; None; No
Metals (As, Pb, Cr, Mn, Mg)	1-250 mL; P; HNO_3; No	1-250 mL; P; HNO3; No	1-250 mL; P; HNO3; No	1-250 mL; P; HNO3; No	1-250 mL; P; HNO3; No
Nitrate + Nitrite	1-250 mL; P; H_2SO_4; No	1-250 mL; P; H_2SO_4; No	1-250 mL; P; H_2SO_4; No	1-250 mL; P; H_2SO_4; No	1-250 mL; P; H2SO4; No

KAPUR & ASSOCIATES LANDFILL GAS MONITORING FIELD FORM

Probe	GEMS ID	Time	Methane % Vol.	Methane % LEL	Oxygen % Vol.	Carbon Dioxide % Vol.	Barometric Pressure (inches of water)	Pressure Trend
GP-1	280	12:40	0.0	0.0	18.8	1.4	28.89	1
GP-2S	284	12:13	0.0	0.0	8.8	0.8	28.89	1
GP-2D	286	12:14	0.0	0.0	8.9	0.1	28.89	1
GP-3S	287	14:12	0.0	0.0	18.7	1.4	28.89	1
GP-3M	288	14:13	0.0	0.0	21.0	0.2	28.88	1
GP-3D	289	14:11	0.0	0.0	20.9	0.2	28.81	1
GP-4	290	Abandoned						
GP-5S	294	12:49	0.0	0.0	19.6	0.8	28.96	1
GP-5M	295	12:50	0.0	0.0	20.4	1.4	28.97	1
GP-5D	296	12:51	0.0	0.0	16.6	4.8	28.97	1
GP-6S	297	12:30	0.0	0.0	18.4	0.4	28.86	1
GP-6M	298	12:31	0.0	0.0	20.4	0.2	28.89	1
GP-6D	299	12:29	0.0	0.0	21.1	0.1	28.89	1
GP-7	300	Abandoned						
GP-8S	264	10:55	0.3	6.0	20.9	0.3	28.89	1
GP-8M	265	10:59	0.0	0.0	19.2	0.7	28.91	1
GP-8D	266	11:01	0.1	2.0	20.9	0.2	28.91	1
GP-9S	267	11:09	0.0	0.0	20.1	0.5	28.91	1
GP-9M	268	11:10	0.0	0.0	20.0	1.1	28.91	1
GP-9D	269	11:11	0.0	0.0	4.0	0.2	28.91	1
GP-10S	270	11:23	0.0	0.0	20.1	1.0	28.92	1
GP-10M	271	11:24	0.0	0.0	20.7	0.5	28.92	1
GP-10D	272	11:25	0.0	0.0	19.4	1.4	28.92	1
GP-11S	273	11:32	0.0	0.0	19.2	2.1	28.92	1
GP-11M	274	11:33	0.0	0.0	13.3	3.0	28.92	1
GP-11D	275	11:34	0.0	0.0	14.8	3.1	28.92	1
GP-12S	276	11:52	0.0	0.0	20.4	0.7	28.92	1
GP-12M	277	11:53	0.0	0.0	20.6	0.4	28.92	1
GP-12D	278	11:54	0.0	0.0	20.9	0.2	28.92	1

Date:	12-20-21		
Instruments Used:	Landtec GEM 5000 (LFG Meter)		
Operators:	Ashley Wagner	Jenny Skweres	
Weather Conditions	**Weather Conditions**	**Weather Conditions**	
Temperature:	37-40°F		
Barometric Pressure:	28.8 in. of water		
Dew Point:			
Ground Condition:	Wet to damp		
Notes:			

APPENDIX B

LABORATORY REPORTS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

January 17, 2022

Travis Peterson
Kapur & Associates, Inc.
7711 N. Port Washington Road
Milwaukee, WI 53217

RE: Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238531

Dear Travis Peterson:

Enclosed are the analytical results for sample(s) received by the laboratory on December 17, 2021. 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,

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Kapur Environmental, Kapur & Associates, Inc.
Ashley Wagner, Kapur & Associates

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238531

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238531

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40238531001	**B-94-25A**	Water	12/16/21 10:53	12/17/21 07:50
40238531002	**B-94-25**	Water	12/16/21 10:25	12/17/21 07:50
40238531003	**W-23**	Water	12/13/21 11:40	12/17/21 07:50
40238531004	**W-23A**	Water	12/13/21 11:00	12/17/21 07:50
40238531005	**B-15**	Water	12/15/21 15:15	12/17/21 07:50
40238531006	**B-15A**	Water	12/15/21 15:57	12/17/21 07:50
40238531007	**B-96-17**	Water	12/15/21 11:55	12/17/21 07:50
40238531008	**B-96-17A**	Water	12/15/21 11:35	12/17/21 07:50
40238531009	**B-96-18B**	Water	12/13/21 15:50	12/17/21 07:50
40238531010	**B-96-18A**	Water	12/15/21 10:30	12/17/21 07:50
40238531011	**B-21**	Water	12/15/21 13:15	12/17/21 07:50
40238531012	**B-21A**	Water	12/15/21 12:55	12/17/21 07:50
40238531013	**B-94-14R**	Water	12/16/21 08:55	12/17/21 07:50
40238531014	**B-94-14A**	Water	12/16/21 09:35	12/17/21 07:50
40238531015	**B-94-19A**	Water	12/13/21 14:00	12/17/21 07:50
40238531016	**W-24**	Water	12/13/21 15:00	12/17/21 07:50
40238531017	**B-96-13A**	Water	12/13/21 13:11	12/17/21 07:50
40238531018	**B-94-25 DUP**	Water	12/16/21 10:55	12/17/21 07:50
40238531019	**FIELD BLANK**	Water	12/16/21 16:20	12/17/21 07:50
40238531020	**EQUIPMENT BLANK**	Water	12/16/21 11:15	12/17/21 07:50

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SAMPLE ANALYTE COUNT

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238531

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40238531001	**B-94-25A**	EPA 6020B	KXS	6
			CDH	6
		EPA 300.0	HMB	2
		EPA 351.2	TMK	1
		EPA 353.2	DAW	1
40238531002	**B-94-25**	EPA 6020B	KXS	6
			CDH	6
		EPA 300.0	HMB	2
		EPA 351.2	TMK	1
		EPA 353.2	DAW	1
40238531003	**W-23**	EPA 6020B	KXS	6
			CDH	6
		EPA 300.0	HMB	2
		EPA 351.2	TMK	1
		EPA 353.2	DAW	1
40238531004	**W-23A**	EPA 6020B	KXS	6
			CDH	6
		EPA 300.0	HMB	2
		EPA 351.2	TMK	1
		EPA 353.2	DAW	1
40238531005	**B-15**	EPA 6020B	KXS	6
			CDH	6
		EPA 300.0	HMB	2
		EPA 351.2	TMK	1
		EPA 353.2	DAW	1
40238531006	**B-15A**	EPA 6020B	KXS	6
			CDH	6
		EPA 300.0	HMB	2
		EPA 351.2	TMK	1
		EPA 353.2	DAW	1
40238531007	**B-96-17**	EPA 6020B	KXS	6
			CDH	6
		EPA 300.0	HMB	2
		EPA 351.2	TMK	1
		EPA 353.2	DAW	1
40238531008	**B-96-17A**	EPA 6020B	KXS	6
			CDH	6

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SAMPLE ANALYTE COUNT

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238531

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 300.0	HMB	2
		EPA 351.2	TMK	1
		EPA 353.2	DAW	1
40238531009	**B-96-18B**	EPA 6020B	KXS	6
			CDH	6
		EPA 300.0	HMB	2
		EPA 351.2	TMK	1
		EPA 353.2	DAW	1
40238531010	**B-96-18A**	EPA 6020B	KXS	6
			CDH	6
		EPA 300.0	HMB	2
		EPA 351.2	TMK	1
		EPA 353.2	DAW	1
40238531011	**B-21**	EPA 6020B	KXS	6
			CDH	6
		EPA 300.0	HMB	2
		EPA 351.2	TMK	1
		EPA 353.2	DAW	1
40238531012	**B-21A**	EPA 6020B	KXS	6
			CDH	6
		EPA 300.0	HMB	2
		EPA 351.2	TMK	1
		EPA 353.2	DAW	1
40238531013	**B-94-14R**	EPA 6020B	KXS	6
			CDH	6
		EPA 300.0	HMB	2
		EPA 351.2	TMK	1
		EPA 353.2	DAW	1
40238531014	**B-94-14A**	EPA 6020B	KXS	6
			CDH	6
		EPA 300.0	HMB	2
		EPA 351.2	TMK	1
		EPA 353.2	DAW	1
40238531015	**B-94-19A**	EPA 6020B	KXS	6
			CDH	6
		EPA 300.0	HMB	2
		EPA 351.2	TMK	1

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SAMPLE ANALYTE COUNT

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238531

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 353.2	DAW	1
40238531016	**W-24**	EPA 6020B	KXS	6
			CDH	6
		EPA 300.0	HMB	2
		EPA 351.2	TMK	1
		EPA 353.2	DAW	1
40238531017	**B-96-13A**	EPA 6020B	KXS	6
			CDH	6
		EPA 300.0	HMB	2
		EPA 351.2	TMK	1
		EPA 353.2	DAW	1
40238531018	**B-94-25 DUP**	EPA 6020B	KXS	6
			CDH	6
		EPA 300.0	HMB	2
		EPA 351.2	TMK	1
		EPA 353.2	DAW	1
40238531019	**FIELD BLANK**	EPA 6020B	KXS	6
		EPA 300.0	HMB	2
		EPA 351.2	TMK	1
		EPA 353.2	DAW	1
40238531020	**EQUIPMENT BLANK**	EPA 6020B	KXS	6
		EPA 300.0	HMB	2
		EPA 351.2	TMK	1
		EPA 353.2	DAW	1

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ANALYTICAL RESULTS

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238531

Sample: B-94-25A **Lab ID: 40238531001** Collected: 12/16/21 10:53 Received: 12/17/21 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS, Dissolved	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Arsenic, Dissolved	**33.8**	ug/L	1.0	0.28	1	12/21/21 05:31	12/22/21 00:39	7440-38-2	
Chromium, Dissolved	**<1.0**	ug/L	3.4	1.0	1	12/21/21 05:31	12/22/21 00:39	7440-47-3	
Lead, Dissolved	**<0.24**	ug/L	1.0	0.24	1	12/21/21 05:31	12/22/21 00:39	7439-92-1	
Magnesium, Dissolved	**66.8**	mg/L	2.5	0.31	10	12/21/21 05:31	12/22/21 00:09	7439-95-4	
Manganese, Dissolved	**6.9**	ug/L	4.0	1.2	1	12/21/21 05:31	12/22/21 00:39	7439-96-5	
Nickel, Dissolved	**0.63J**	ug/L	1.0	0.28	1	12/21/21 05:31	12/22/21 00:39	7440-02-0	
Field Data	Analytical Method: Pace Analytical Services - Green Bay								
Field pH	**7.55**	Std. Units			1		12/16/21 10:53		
Field Specific Conductance	**1160**	umhos/cm			1		12/16/21 10:53		
Turbidity	**N**	no units			1		12/16/21 10:53		
Apparent Color	**N**	no units			1		12/16/21 10:53		
Odor	**N**	no units			1		12/16/21 10:53		
Temperature, Water (C)	**7.2**	deg C			1		12/16/21 10:53		
300.0 IC Anions, Dissolved	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride, Dissolved	**175**	mg/L	10.0	2.2	5		01/04/22 03:34	16887-00-6	M0
Sulfate, Dissolved	**18.2**	mg/L	10.0	2.2	5		01/04/22 03:34	14808-79-8	
351.2 Diss. Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total, Dissolved	**1.7**	mg/L	1.0	0.21	1	12/28/21 20:18	12/29/21 01:05	7727-37-9	
353.2 Nitrogen, Dissolved Pres	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3, Dissolved	**<0.059**	mg/L	0.25	0.059	1		01/04/22 13:18		

Sample: B-94-25 **Lab ID: 40238531002** Collected: 12/16/21 10:25 Received: 12/17/21 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS, Dissolved	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Arsenic, Dissolved	**0.56J**	ug/L	1.0	0.28	1	12/21/21 05:31	12/22/21 01:23	7440-38-2	
Chromium, Dissolved	**<1.0**	ug/L	3.4	1.0	1	12/21/21 05:31	12/22/21 01:23	7440-47-3	
Lead, Dissolved	**<0.24**	ug/L	1.0	0.24	1	12/21/21 05:31	12/22/21 01:23	7439-92-1	
Magnesium, Dissolved	**28.7**	mg/L	0.25	0.031	1	12/21/21 05:31	12/22/21 01:23	7439-95-4	
Manganese, Dissolved	**<1.2**	ug/L	4.0	1.2	1	12/21/21 05:31	12/22/21 01:23	7439-96-5	
Nickel, Dissolved	**0.80J**	ug/L	1.0	0.28	1	12/21/21 05:31	12/22/21 01:23	7440-02-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238531

Sample: B-94-25 **Lab ID: 40238531002** Collected: 12/16/21 10:25 Received: 12/17/21 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Green Bay								
Field pH	**7.34**	Std. Units			1		12/16/21 10:25		
Field Specific Conductance	**886**	umhos/cm			1		12/16/21 10:25		
Turbidity	**N**	no units			1		12/16/21 10:25		
Apparent Color	**N**	no units			1		12/16/21 10:25		
Odor	**N**	no units			1		12/16/21 10:25		
Temperature, Water (C)	**11.0**	deg C			1		12/16/21 10:25		
300.0 IC Anions, Dissolved	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride, Dissolved	**78.4**	mg/L	10.0	2.2	5		01/04/22 04:18	16887-00-6	
Sulfate, Dissolved	**40.6**	mg/L	10.0	2.2	5		01/04/22 04:18	14808-79-8	
351.2 Diss. Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total, Dissolved	**0.39J**	mg/L	1.0	0.21	1	12/28/21 20:18	12/29/21 01:07	7727-37-9	
353.2 Nitrogen, Dissolved Pres	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3, Dissolved	**2.8**	mg/L	0.25	0.059	1		01/04/22 13:19		

Sample: W-23 **Lab ID: 40238531003** Collected: 12/13/21 11:40 Received: 12/17/21 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS, Dissolved	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Arsenic, Dissolved	**0.58J**	ug/L	1.0	0.28	1	12/21/21 05:31	12/22/21 01:38	7440-38-2	
Chromium, Dissolved	**<1.0**	ug/L	3.4	1.0	1	12/21/21 05:31	12/22/21 01:38	7440-47-3	
Lead, Dissolved	**<0.24**	ug/L	1.0	0.24	1	12/21/21 05:31	12/22/21 01:38	7439-92-1	
Magnesium, Dissolved	**39.4**	mg/L	0.25	0.031	1	12/21/21 05:31	12/22/21 01:38	7439-95-4	
Manganese, Dissolved	**11.2**	ug/L	4.0	1.2	1	12/21/21 05:31	12/22/21 01:38	7439-96-5	
Nickel, Dissolved	**0.94J**	ug/L	1.0	0.28	1	12/21/21 05:31	12/22/21 01:38	7440-02-0	
Field Data	Analytical Method: Pace Analytical Services - Green Bay								
Field pH	**7.57**	Std. Units			1		12/13/21 11:40		
Field Specific Conductance	**667**	umhos/cm			1		12/13/21 11:40		
Turbidity	**N**	no units			1		12/13/21 11:40		
Apparent Color	**N**	no units			1		12/13/21 11:40		
Odor	**N**	no units			1		12/13/21 11:40		
Temperature, Water (C)	**11.4**	deg C			1		12/13/21 11:40		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238531

Sample: W-23 **Lab ID: 40238531003** Collected: 12/13/21 11:40 Received: 12/17/21 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions, Dissolved	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride, Dissolved	**14.3**	mg/L	10.0	2.2	5		01/04/22 04:33	16887-00-6	
Sulfate, Dissolved	**101**	mg/L	10.0	2.2	5		01/04/22 04:33	14808-79-8	
351.2 Diss. Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total, Dissolved	**<0.21**	mg/L	1.0	0.21	1	12/28/21 20:18	12/29/21 01:10	7727-37-9	
353.2 Nitrogen, Dissolved Pres	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3, Dissolved	**0.61**	mg/L	0.25	0.059	1		01/04/22 13:22		

Sample: W-23A **Lab ID: 40238531004** Collected: 12/13/21 11:00 Received: 12/17/21 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS, Dissolved	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Arsenic, Dissolved	**0.45J**	ug/L	1.0	0.28	1	12/21/21 05:31	12/22/21 01:45	7440-38-2	
Chromium, Dissolved	**<1.0**	ug/L	3.4	1.0	1	12/21/21 05:31	12/22/21 01:45	7440-47-3	
Lead, Dissolved	**<0.24**	ug/L	1.0	0.24	1	12/21/21 05:31	12/22/21 01:45	7439-92-1	
Magnesium, Dissolved	**43.5**	mg/L	0.25	0.031	1	12/21/21 05:31	12/22/21 01:45	7439-95-4	
Manganese, Dissolved	**13.6**	ug/L	4.0	1.2	1	12/21/21 05:31	12/22/21 01:45	7439-96-5	
Nickel, Dissolved	**0.52J**	ug/L	1.0	0.28	1	12/21/21 05:31	12/22/21 01:45	7440-02-0	
Field Data	Analytical Method: Pace Analytical Services - Green Bay								
Field pH	**7.22**	Std. Units			1		12/13/21 11:00		
Field Specific Conductance	**640**	umhos/cm			1		12/13/21 11:00		
Turbidity	**N**	no units			1		12/13/21 11:00		
Apparent Color	**N**	no units			1		12/13/21 11:00		
Odor	**N**	no units			1		12/13/21 11:00		
Temperature, Water (C)	**11.2**	deg C			1		12/13/21 11:00		
300.0 IC Anions, Dissolved	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride, Dissolved	**21.4**	mg/L	10.0	2.2	5		01/04/22 04:48	16887-00-6	
Sulfate, Dissolved	**91.1**	mg/L	10.0	2.2	5		01/04/22 04:48	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238531

Sample: W-23A **Lab ID: 40238531004** Collected: 12/13/21 11:00 Received: 12/17/21 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Diss. Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total, Dissolved	**0.33J**	mg/L	1.0	0.21	1	12/28/21 20:18	12/29/21 01:12	7727-37-9	
353.2 Nitrogen, Dissolved Pres	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3, Dissolved	**<0.059**	mg/L	0.25	0.059	1		01/04/22 13:22		

Sample: B-15 **Lab ID: 40238531005** Collected: 12/15/21 15:15 Received: 12/17/21 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS, Dissolved	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Arsenic, Dissolved	**14.2**	ug/L	1.0	0.28	1	12/21/21 05:31	12/22/21 01:52	7440-38-2	
Chromium, Dissolved	**<1.0**	ug/L	3.4	1.0	1	12/21/21 05:31	12/22/21 01:52	7440-47-3	
Lead, Dissolved	**<0.24**	ug/L	1.0	0.24	1	12/21/21 05:31	12/22/21 01:52	7439-92-1	
Magnesium, Dissolved	**74.0**	mg/L	0.25	0.031	1	12/21/21 05:31	12/22/21 01:52	7439-95-4	
Manganese, Dissolved	**118**	ug/L	4.0	1.2	1	12/21/21 05:31	12/22/21 01:52	7439-96-5	
Nickel, Dissolved	**3.6**	ug/L	1.0	0.28	1	12/21/21 05:31	12/22/21 01:52	7440-02-0	
Field Data	Analytical Method: Pace Analytical Services - Green Bay								
Field pH	**7.16**	Std. Units			1		12/15/21 15:15		
Field Specific Conductance	**1362**	umhos/cm			1		12/15/21 15:15		
Turbidity	**N**	no units			1		12/15/21 15:15		
Apparent Color	**N**	no units			1		12/15/21 15:15		
Odor	**N**	no units			1		12/15/21 15:15		
Temperature, Water (C)	**13.9**	deg C			1		12/15/21 15:15		
300.0 IC Anions, Dissolved	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride, Dissolved	**139**	mg/L	10.0	2.2	5		01/04/22 05:03	16887-00-6	
Sulfate, Dissolved	**38.6**	mg/L	10.0	2.2	5		01/04/22 05:03	14808-79-8	
351.2 Diss. Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total, Dissolved	**1.3**	mg/L	1.0	0.21	1	12/28/21 20:18	12/29/21 01:13	7727-37-9	
353.2 Nitrogen, Dissolved Pres	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3, Dissolved	**<0.059**	mg/L	0.25	0.059	1		01/04/22 13:23		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238531

Sample: B-15A **Lab ID: 40238531006** Collected: 12/15/21 15:57 Received: 12/17/21 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS, Dissolved	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Arsenic, Dissolved	**0.57J**	ug/L	1.0	0.28	1	12/21/21 05:31	12/22/21 02:00	7440-38-2	
Chromium, Dissolved	**<1.0**	ug/L	3.4	1.0	1	12/21/21 05:31	12/22/21 02:00	7440-47-3	
Lead, Dissolved	**<0.24**	ug/L	1.0	0.24	1	12/21/21 05:31	12/22/21 02:00	7439-92-1	
Magnesium, Dissolved	**52.3**	mg/L	0.25	0.031	1	12/21/21 05:31	12/22/21 02:00	7439-95-4	
Manganese, Dissolved	**179**	ug/L	4.0	1.2	1	12/21/21 05:31	12/22/21 02:00	7439-96-5	
Nickel, Dissolved	**0.63J**	ug/L	1.0	0.28	1	12/21/21 05:31	12/22/21 02:00	7440-02-0	
Field Data	Analytical Method: Pace Analytical Services - Green Bay								
Field pH	**7.27**	Std. Units			1		12/15/21 15:57		
Field Specific Conductance	**1096**	umhos/cm			1		12/15/21 15:57		
Turbidity	**N**	no units			1		12/15/21 15:57		
Apparent Color	**N**	no units			1		12/15/21 15:57		
Odor	**N**	no units			1		12/15/21 15:57		
Temperature, Water (C)	**13.5**	deg C			1		12/15/21 15:57		
300.0 IC Anions, Dissolved	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride, Dissolved	**115**	mg/L	10.0	2.2	5		01/04/22 05:17	16887-00-6	
Sulfate, Dissolved	**67.0**	mg/L	10.0	2.2	5		01/04/22 05:17	14808-79-8	
351.2 Diss. Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total, Dissolved	**0.26J**	mg/L	1.0	0.21	1	12/28/21 20:18	12/29/21 01:14	7727-37-9	
353.2 Nitrogen, Dissolved Pres	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3, Dissolved	**<0.059**	mg/L	0.25	0.059	1		01/04/22 13:24		

Sample: B-96-17 **Lab ID: 40238531007** Collected: 12/15/21 11:55 Received: 12/17/21 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS, Dissolved	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Arsenic, Dissolved	**0.37J**	ug/L	1.0	0.28	1	12/21/21 05:31	12/22/21 02:07	7440-38-2	
Chromium, Dissolved	**<1.0**	ug/L	3.4	1.0	1	12/21/21 05:31	12/22/21 02:07	7440-47-3	
Lead, Dissolved	**<0.24**	ug/L	1.0	0.24	1	12/21/21 05:31	12/22/21 02:07	7439-92-1	
Magnesium, Dissolved	**38.7**	mg/L	0.25	0.031	1	12/21/21 05:31	12/22/21 02:07	7439-95-4	
Manganese, Dissolved	**16.9**	ug/L	4.0	1.2	1	12/21/21 05:31	12/22/21 02:07	7439-96-5	
Nickel, Dissolved	**13.6**	ug/L	1.0	0.28	1	12/21/21 05:31	12/22/21 02:07	7440-02-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238531

Sample: B-96-17 **Lab ID: 40238531007** Collected: 12/15/21 11:55 Received: 12/17/21 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Green Bay								
Field pH	**7.03**	Std. Units			1		12/15/21 11:55		
Field Specific Conductance	**1142**	umhos/cm			1		12/15/21 11:55		
Turbidity	**N**	no units			1		12/15/21 11:55		
Apparent Color	**N**	no units			1		12/15/21 11:55		
Odor	**N**	no units			1		12/15/21 11:55		
Temperature, Water (C)	**11.4**	deg C			1		12/15/21 11:55		
300.0 IC Anions, Dissolved	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride, Dissolved	**119**	mg/L	10.0	2.2	5		01/04/22 05:32	16887-00-6	
Sulfate, Dissolved	**21.9**	mg/L	10.0	2.2	5		01/04/22 05:32	14808-79-8	
351.2 Diss. Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total, Dissolved	**<0.21**	mg/L	1.0	0.21	1	12/28/21 20:18	12/29/21 01:15	7727-37-9	
353.2 Nitrogen, Dissolved Pres	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3, Dissolved	**6.6**	mg/L	0.25	0.059	1		01/04/22 13:24		

Sample: B-96-17A **Lab ID: 40238531008** Collected: 12/15/21 11:35 Received: 12/17/21 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS, Dissolved	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Arsenic, Dissolved	**0.34J**	ug/L	1.0	0.28	1	12/21/21 05:31	12/22/21 02:15	7440-38-2	
Chromium, Dissolved	**<1.0**	ug/L	3.4	1.0	1	12/21/21 05:31	12/22/21 02:15	7440-47-3	
Lead, Dissolved	**<0.24**	ug/L	1.0	0.24	1	12/21/21 05:31	12/22/21 02:15	7439-92-1	
Magnesium, Dissolved	**49.0**	mg/L	0.25	0.031	1	12/21/21 05:31	12/22/21 02:15	7439-95-4	
Manganese, Dissolved	**29.7**	ug/L	4.0	1.2	1	12/21/21 05:31	12/22/21 02:15	7439-96-5	
Nickel, Dissolved	**1.2**	ug/L	1.0	0.28	1	12/21/21 05:31	12/22/21 02:15	7440-02-0	
Field Data	Analytical Method: Pace Analytical Services - Green Bay								
Field pH	**6.91**	Std. Units			1		12/15/21 11:35		
Field Specific Conductance	**907**	umhos/cm			1		12/15/21 11:35		
Turbidity	**N**	no units			1		12/15/21 11:35		
Apparent Color	**N**	no units			1		12/15/21 11:35		
Odor	**N**	no units			1		12/15/21 11:35		
Temperature, Water (C)	**11.4**	deg C			1		12/15/21 11:35		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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(920)469-2436

ANALYTICAL RESULTS

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238531

Sample: B-96-17A **Lab ID: 40238531008** Collected: 12/15/21 11:35 Received: 12/17/21 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions, Dissolved	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride, Dissolved	**20.0**	mg/L	10.0	2.2	5		01/04/22 05:47	16887-00-6	
Sulfate, Dissolved	**45.3**	mg/L	10.0	2.2	5		01/04/22 05:47	14808-79-8	
351.2 Diss. Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total, Dissolved	**<0.21**	mg/L	1.0	0.21	1	12/28/21 20:18	12/29/21 01:16	7727-37-9	
353.2 Nitrogen, Dissolved Pres	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3, Dissolved	**<0.059**	mg/L	0.25	0.059	1		01/04/22 13:25		

Sample: B-96-18B **Lab ID: 40238531009** Collected: 12/13/21 15:50 Received: 12/17/21 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS, Dissolved	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Arsenic, Dissolved	**0.38J**	ug/L	1.0	0.28	1	12/21/21 05:31	12/22/21 02:37	7440-38-2	
Chromium, Dissolved	**<1.0**	ug/L	3.4	1.0	1	12/21/21 05:31	12/22/21 02:37	7440-47-3	
Lead, Dissolved	**<0.24**	ug/L	1.0	0.24	1	12/21/21 05:31	12/22/21 02:37	7439-92-1	
Magnesium, Dissolved	**34.2**	mg/L	0.25	0.031	1	12/21/21 05:31	12/22/21 02:37	7439-95-4	
Manganese, Dissolved	**87.2**	ug/L	4.0	1.2	1	12/21/21 05:31	12/22/21 02:37	7439-96-5	
Nickel, Dissolved	**7.0**	ug/L	1.0	0.28	1	12/21/21 05:31	12/22/21 02:37	7440-02-0	
Field Data	Analytical Method: Pace Analytical Services - Green Bay								
Field pH	**7.43**	Std. Units			1		12/13/21 15:50		
Field Specific Conductance	**784**	umhos/cm			1		12/13/21 15:50		
Turbidity	**N**	no units			1		12/13/21 15:50		
Apparent Color	**N**	no units			1		12/13/21 15:50		
Odor	**N**	no units			1		12/13/21 15:50		
Temperature, Water (C)	**11.1**	deg C			1		12/13/21 15:50		
300.0 IC Anions, Dissolved	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride, Dissolved	**82.8**	mg/L	10.0	2.2	5		01/04/22 06:47	16887-00-6	
Sulfate, Dissolved	**44.8**	mg/L	10.0	2.2	5		01/04/22 06:47	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238531

Sample: B-96-18B **Lab ID: 40238531009** Collected: 12/13/21 15:50 Received: 12/17/21 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Diss. Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total, Dissolved	**<0.21**	mg/L	1.0	0.21	1	12/28/21 20:18	12/29/21 01:17	7727-37-9	
353.2 Nitrogen, Dissolved Pres	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3, Dissolved	**1.7**	mg/L	0.25	0.059	1		01/04/22 13:26		

Sample: B-96-18A **Lab ID: 40238531010** Collected: 12/15/21 10:30 Received: 12/17/21 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS, Dissolved	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Arsenic, Dissolved	**0.34J**	ug/L	1.0	0.28	1	12/21/21 05:31	12/22/21 02:44	7440-38-2	
Chromium, Dissolved	**<1.0**	ug/L	3.4	1.0	1	12/21/21 05:31	12/22/21 02:44	7440-47-3	
Lead, Dissolved	**<0.24**	ug/L	1.0	0.24	1	12/21/21 05:31	12/22/21 02:44	7439-92-1	
Magnesium, Dissolved	**43.8**	mg/L	0.25	0.031	1	12/21/21 05:31	12/22/21 02:44	7439-95-4	
Manganese, Dissolved	**1.7J**	ug/L	4.0	1.2	1	12/21/21 05:31	12/22/21 02:44	7439-96-5	
Nickel, Dissolved	**2.2**	ug/L	1.0	0.28	1	12/21/21 05:31	12/22/21 02:44	7440-02-0	
Field Data	Analytical Method: Pace Analytical Services - Green Bay								
Field pH	**6.75**	Std. Units			1		12/15/21 10:30		
Field Specific Conductance	**1050**	umhos/cm			1		12/15/21 10:30		
Turbidity	**N**	no units			1		12/15/21 10:30		
Apparent Color	**N**	no units			1		12/15/21 10:30		
Odor	**N**	no units			1		12/15/21 10:30		
Temperature, Water (C)	**11.9**	deg C			1		12/15/21 10:30		
300.0 IC Anions, Dissolved	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride, Dissolved	**92.1**	mg/L	10.0	2.2	5		01/04/22 07:01	16887-00-6	
Sulfate, Dissolved	**43.7**	mg/L	10.0	2.2	5		01/04/22 07:01	14808-79-8	
351.2 Diss. Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total, Dissolved	**<0.21**	mg/L	1.0	0.21	1	12/28/21 20:18	12/29/21 01:18	7727-37-9	
353.2 Nitrogen, Dissolved Pres	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3, Dissolved	**0.72**	mg/L	0.25	0.059	1		01/04/22 13:26		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238531

Sample: B-21 **Lab ID: 40238531011** Collected: 12/15/21 13:15 Received: 12/17/21 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS, Dissolved	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Arsenic, Dissolved	**0.37J**	ug/L	1.0	0.28	1	12/21/21 05:31	12/22/21 02:51	7440-38-2	
Chromium, Dissolved	**<1.0**	ug/L	3.4	1.0	1	12/21/21 05:31	12/22/21 02:51	7440-47-3	
Lead, Dissolved	**<0.24**	ug/L	1.0	0.24	1	12/21/21 05:31	12/22/21 02:51	7439-92-1	
Magnesium, Dissolved	**47.4**	mg/L	0.25	0.031	1	12/21/21 05:31	12/22/21 02:51	7439-95-4	
Manganese, Dissolved	**569**	ug/L	4.0	1.2	1	12/21/21 05:31	12/22/21 02:51	7439-96-5	
Nickel, Dissolved	**10.3**	ug/L	1.0	0.28	1	12/21/21 05:31	12/22/21 02:51	7440-02-0	
Field Data	Analytical Method: Pace Analytical Services - Green Bay								
Field pH	**7.27**	Std. Units			1		12/15/21 13:15		
Field Specific Conductance	**882**	umhos/cm			1		12/15/21 13:15		
Turbidity	**N**	no units			1		12/15/21 13:15		
Apparent Color	**N**	no units			1		12/15/21 13:15		
Odor	**N**	no units			1		12/15/21 13:15		
Temperature, Water (C)	**10.8**	deg C			1		12/15/21 13:15		
300.0 IC Anions, Dissolved	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride, Dissolved	**33.4**	mg/L	10.0	2.2	5		01/03/22 18:22	16887-00-6	
Sulfate, Dissolved	**46.0**	mg/L	10.0	2.2	5		01/03/22 18:22	14808-79-8	
351.2 Diss. Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total, Dissolved	**<0.21**	mg/L	1.0	0.21	1	12/28/21 20:18	12/29/21 01:19	7727-37-9	
353.2 Nitrogen, Dissolved Pres	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3, Dissolved	**<0.059**	mg/L	0.25	0.059	1		01/04/22 13:30		

Sample: B-21A **Lab ID: 40238531012** Collected: 12/15/21 12:55 Received: 12/17/21 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS, Dissolved	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Arsenic, Dissolved	**0.40J**	ug/L	1.0	0.28	1	12/21/21 05:31	12/22/21 02:59	7440-38-2	
Chromium, Dissolved	**<1.0**	ug/L	3.4	1.0	1	12/21/21 05:31	12/22/21 02:59	7440-47-3	
Lead, Dissolved	**<0.24**	ug/L	1.0	0.24	1	12/21/21 05:31	12/22/21 02:59	7439-92-1	
Magnesium, Dissolved	**47.5**	mg/L	0.25	0.031	1	12/21/21 05:31	12/22/21 02:59	7439-95-4	
Manganese, Dissolved	**25.7**	ug/L	4.0	1.2	1	12/21/21 05:31	12/22/21 02:59	7439-96-5	
Nickel, Dissolved	**2.3**	ug/L	1.0	0.28	1	12/21/21 05:31	12/22/21 02:59	7440-02-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238531

Sample: B-21A **Lab ID: 40238531012** Collected: 12/15/21 12:55 Received: 12/17/21 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Green Bay								
Field pH	**7.23**	Std. Units			1		12/15/21 12:55		
Field Specific Conductance	**899**	umhos/cm			1		12/15/21 12:55		
Turbidity	**N**	no units			1		12/15/21 12:55		
Apparent Color	**N**	no units			1		12/15/21 12:55		
Odor	**N**	no units			1		12/15/21 12:55		
Temperature, Water (C)	**11.8**	deg C			1		12/15/21 12:55		
300.0 IC Anions, Dissolved	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride, Dissolved	**35.4**	mg/L	10.0	2.2	5		01/03/22 19:06	16887-00-6	
Sulfate, Dissolved	**44.4**	mg/L	10.0	2.2	5		01/03/22 19:06	14808-79-8	
351.2 Diss. Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total, Dissolved	**<0.21**	mg/L	1.0	0.21	1	12/28/21 20:18	12/29/21 01:19	7727-37-9	
353.2 Nitrogen, Dissolved Pres	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3, Dissolved	**<0.059**	mg/L	0.25	0.059	1		01/04/22 13:31		

Sample: B-94-14R **Lab ID: 40238531013** Collected: 12/16/21 08:55 Received: 12/17/21 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS, Dissolved	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Arsenic, Dissolved	**0.60J**	ug/L	1.0	0.28	1	12/21/21 05:31	12/22/21 03:06	7440-38-2	
Chromium, Dissolved	**<1.0**	ug/L	3.4	1.0	1	12/21/21 05:31	12/22/21 03:06	7440-47-3	
Lead, Dissolved	**<0.24**	ug/L	1.0	0.24	1	12/21/21 05:31	12/22/21 03:06	7439-92-1	
Magnesium, Dissolved	**38.6**	mg/L	0.25	0.031	1	12/21/21 05:31	12/22/21 03:06	7439-95-4	
Manganese, Dissolved	**<1.2**	ug/L	4.0	1.2	1	12/21/21 05:31	12/22/21 03:06	7439-96-5	
Nickel, Dissolved	**1.2**	ug/L	1.0	0.28	1	12/21/21 05:31	12/22/21 03:06	7440-02-0	
Field Data	Analytical Method: Pace Analytical Services - Green Bay								
Field pH	**6.82**	Std. Units			1		12/16/21 08:55		
Field Specific Conductance	**933**	umhos/cm			1		12/16/21 08:55		
Turbidity	**N**	no units			1		12/16/21 08:55		
Apparent Color	**N**	no units			1		12/16/21 08:55		
Odor	**N**	no units			1		12/16/21 08:55		
Temperature, Water (C)	**7.7**	deg C			1		12/16/21 08:55		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238531

Sample: B-94-14R **Lab ID: 40238531013** Collected: 12/16/21 08:55 Received: 12/17/21 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions, Dissolved	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride, Dissolved	**8.8J**	mg/L	10.0	2.2	5		01/03/22 19:21	16887-00-6	D3
Sulfate, Dissolved	**58.9**	mg/L	10.0	2.2	5		01/03/22 19:21	14808-79-8	
351.2 Diss. Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total, Dissolved	**0.44J**	mg/L	1.0	0.21	1	12/28/21 20:18	12/29/21 01:20	7727-37-9	
353.2 Nitrogen, Dissolved Pres	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3, Dissolved	**1.4**	mg/L	0.25	0.059	1		01/04/22 13:32		

Sample: B-94-14A **Lab ID: 40238531014** Collected: 12/16/21 09:35 Received: 12/17/21 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS, Dissolved	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Arsenic, Dissolved	**0.64J**	ug/L	1.0	0.28	1	12/21/21 05:31	12/22/21 03:14	7440-38-2	
Chromium, Dissolved	**<1.0**	ug/L	3.4	1.0	1	12/21/21 05:31	12/22/21 03:14	7440-47-3	
Lead, Dissolved	**<0.24**	ug/L	1.0	0.24	1	12/21/21 05:31	12/22/21 03:14	7439-92-1	
Magnesium, Dissolved	**59.7**	mg/L	0.25	0.031	1	12/21/21 05:31	12/22/21 03:14	7439-95-4	
Manganese, Dissolved	**44.5**	ug/L	4.0	1.2	1	12/21/21 05:31	12/22/21 03:14	7439-96-5	
Nickel, Dissolved	**1.2**	ug/L	1.0	0.28	1	12/21/21 05:31	12/22/21 03:14	7440-02-0	
Field Data	Analytical Method: Pace Analytical Services - Green Bay								
Field pH	**6.89**	Std. Units			1		12/16/21 09:35		
Field Specific Conductance	**974**	umhos/cm			1		12/16/21 09:35		
Turbidity	**N**	no units			1		12/16/21 09:35		
Apparent Color	**N**	no units			1		12/16/21 09:35		
Odor	**N**	no units			1		12/16/21 09:35		
Temperature, Water (C)	**8.9**	deg C			1		12/16/21 09:35		
300.0 IC Anions, Dissolved	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride, Dissolved	**45.1**	mg/L	10.0	2.2	5		01/03/22 19:36	16887-00-6	
Sulfate, Dissolved	**164**	mg/L	10.0	2.2	5		01/03/22 19:36	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238531

Sample: B-94-14A **Lab ID: 40238531014** Collected: 12/16/21 09:35 Received: 12/17/21 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Diss. Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total, Dissolved	**<0.21**	mg/L	1.0	0.21	1	12/28/21 20:18	12/29/21 01:23	7727-37-9	
353.2 Nitrogen, Dissolved Pres	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3, Dissolved	**<0.059**	mg/L	0.25	0.059	1		01/04/22 13:32		

Sample: B-94-19A **Lab ID: 40238531015** Collected: 12/13/21 14:00 Received: 12/17/21 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS, Dissolved	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Arsenic, Dissolved	**0.73J**	ug/L	1.0	0.28	1	12/21/21 05:31	12/22/21 03:21	7440-38-2	
Chromium, Dissolved	**<1.0**	ug/L	3.4	1.0	1	12/21/21 05:31	12/22/21 03:21	7440-47-3	
Lead, Dissolved	**<0.24**	ug/L	1.0	0.24	1	12/21/21 05:31	12/22/21 03:21	7439-92-1	
Magnesium, Dissolved	**62.9**	mg/L	0.25	0.031	1	12/21/21 05:31	12/22/21 03:21	7439-95-4	
Manganese, Dissolved	**19.8**	ug/L	4.0	1.2	1	12/21/21 05:31	12/22/21 03:21	7439-96-5	
Nickel, Dissolved	**0.39J**	ug/L	1.0	0.28	1	12/21/21 05:31	12/22/21 03:21	7440-02-0	
Field Data	Analytical Method: Pace Analytical Services - Green Bay								
Field pH	**7.19**	Std. Units			1		12/13/21 14:00		
Field Specific Conductance	**890**	umhos/cm			1		12/13/21 14:00		
Turbidity	**N**	no units			1		12/13/21 14:00		
Apparent Color	**N**	no units			1		12/13/21 14:00		
Odor	**N**	no units			1		12/13/21 14:00		
Temperature, Water (C)	**13.6**	deg C			1		12/13/21 14:00		
300.0 IC Anions, Dissolved	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride, Dissolved	**108**	mg/L	10.0	2.2	5		01/03/22 19:51	16887-00-6	
Sulfate, Dissolved	**57.6**	mg/L	10.0	2.2	5		01/03/22 19:51	14808-79-8	
351.2 Diss. Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total, Dissolved	**0.57J**	mg/L	1.0	0.21	1	12/28/21 20:18	12/29/21 01:24	7727-37-9	
353.2 Nitrogen, Dissolved Pres	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3, Dissolved	**<0.059**	mg/L	0.25	0.059	1		01/04/22 13:33		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238531

Sample: W-24 **Lab ID: 40238531016** Collected: 12/13/21 15:00 Received: 12/17/21 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS, Dissolved	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Arsenic, Dissolved	**0.38J**	ug/L	1.0	0.28	1	12/21/21 05:31	12/22/21 03:28	7440-38-2	
Chromium, Dissolved	**<1.0**	ug/L	3.4	1.0	1	12/21/21 05:31	12/22/21 03:28	7440-47-3	
Lead, Dissolved	**<0.24**	ug/L	1.0	0.24	1	12/21/21 05:31	12/22/21 03:28	7439-92-1	
Magnesium, Dissolved	**36.4**	mg/L	0.25	0.031	1	12/21/21 05:31	12/22/21 03:28	7439-95-4	
Manganese, Dissolved	**<1.2**	ug/L	4.0	1.2	1	12/21/21 05:31	12/22/21 03:28	7439-96-5	
Nickel, Dissolved	**0.54J**	ug/L	1.0	0.28	1	12/21/21 05:31	12/22/21 03:28	7440-02-0	
Field Data	Analytical Method: Pace Analytical Services - Green Bay								
Field pH	**7.22**	Std. Units			1		12/13/21 15:00		
Field Specific Conductance	**664**	umhos/cm			1		12/13/21 15:00		
Turbidity	**N**	no units			1		12/13/21 15:00		
Apparent Color	**N**	no units			1		12/13/21 15:00		
Odor	**N**	no units			1		12/13/21 15:00		
Temperature, Water (C)	**11.3**	deg C			1		12/13/21 15:00		
300.0 IC Anions, Dissolved	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride, Dissolved	**70.7**	mg/L	40.0	8.6	20		01/03/22 21:07	16887-00-6	
Sulfate, Dissolved	**34.3J**	mg/L	40.0	8.9	20		01/03/22 21:07	14808-79-8	D3
351.2 Diss. Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total, Dissolved	**<0.21**	mg/L	1.0	0.21	1	12/28/21 20:18	12/29/21 01:25	7727-37-9	
353.2 Nitrogen, Dissolved Pres	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3, Dissolved	**0.55**	mg/L	0.25	0.059	1		01/04/22 13:33		

Sample: B-96-13A **Lab ID: 40238531017** Collected: 12/13/21 13:11 Received: 12/17/21 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS, Dissolved	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Arsenic, Dissolved	**0.46J**	ug/L	1.0	0.28	1	12/21/21 05:31	12/22/21 03:36	7440-38-2	
Chromium, Dissolved	**<1.0**	ug/L	3.4	1.0	1	12/21/21 05:31	12/22/21 03:36	7440-47-3	
Lead, Dissolved	**<0.24**	ug/L	1.0	0.24	1	12/21/21 05:31	12/22/21 03:36	7439-92-1	
Magnesium, Dissolved	**53.5**	mg/L	0.25	0.031	1	12/21/21 05:31	12/22/21 03:36	7439-95-4	
Manganese, Dissolved	**59.4**	ug/L	4.0	1.2	1	12/21/21 05:31	12/22/21 03:36	7439-96-5	
Nickel, Dissolved	**1.5**	ug/L	1.0	0.28	1	12/21/21 05:31	12/22/21 03:36	7440-02-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238531

Sample: B-96-13A **Lab ID: 40238531017** Collected: 12/13/21 13:11 Received: 12/17/21 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Green Bay								
Field pH	**7.08**	Std. Units			1		12/13/21 13:11		
Field Specific Conductance	**894**	umhos/cm			1		12/13/21 13:11		
Turbidity	**N**	no units			1		12/13/21 13:11		
Apparent Color	**N**	no units			1		12/13/21 13:11		
Odor	**N**	no units			1		12/13/21 13:11		
Temperature, Water (C)	**12.7**	deg C			1		12/13/21 13:11		
300.0 IC Anions, Dissolved	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride, Dissolved	**54.2**	mg/L	10.0	2.2	5		01/03/22 21:22	16887-00-6	
Sulfate, Dissolved	**117**	mg/L	10.0	2.2	5		01/03/22 21:22	14808-79-8	
351.2 Diss. Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total, Dissolved	**<0.21**	mg/L	1.0	0.21	1	12/28/21 20:18	12/29/21 01:25	7727-37-9	
353.2 Nitrogen, Dissolved Pres	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3, Dissolved	**<0.059**	mg/L	0.25	0.059	1		01/04/22 13:34		

Sample: B-94-25 DUP **Lab ID: 40238531018** Collected: 12/16/21 10:55 Received: 12/17/21 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS, Dissolved	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Arsenic, Dissolved	**33.2**	ug/L	1.0	0.28	1	12/21/21 05:31	12/22/21 03:43	7440-38-2	
Chromium, Dissolved	**<1.0**	ug/L	3.4	1.0	1	12/21/21 05:31	12/22/21 03:43	7440-47-3	
Lead, Dissolved	**<0.24**	ug/L	1.0	0.24	1	12/21/21 05:31	12/22/21 03:43	7439-92-1	
Magnesium, Dissolved	**62.4**	mg/L	0.25	0.031	1	12/21/21 05:31	12/22/21 03:43	7439-95-4	
Manganese, Dissolved	**6.8**	ug/L	4.0	1.2	1	12/21/21 05:31	12/22/21 03:43	7439-96-5	
Nickel, Dissolved	**0.68J**	ug/L	1.0	0.28	1	12/21/21 05:31	12/22/21 03:43	7440-02-0	
Field Data	Analytical Method: Pace Analytical Services - Green Bay								
Field pH	**7.34**	Std. Units			1		12/16/21 10:55		
Field Specific Conductance	**886**	umhos/cm			1		12/16/21 10:55		
Turbidity	**N**	no units			1		12/16/21 10:55		
Apparent Color	**N**	no units			1		12/16/21 10:55		
Odor	**N**	no units			1		12/16/21 10:55		
Temperature, Water (C)	**11.0**	deg C			1		12/16/21 10:55		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238531

Sample: B-94-25 DUP **Lab ID: 40238531018** Collected: 12/16/21 10:55 Received: 12/17/21 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions, Dissolved	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride, Dissolved	**175**	mg/L	10.0	2.2	5		01/03/22 21:37	16887-00-6	
Sulfate, Dissolved	**18.4**	mg/L	10.0	2.2	5		01/03/22 21:37	14808-79-8	
351.2 Diss. Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total, Dissolved	**1.3**	mg/L	1.0	0.21	1	12/28/21 20:18	12/29/21 01:26	7727-37-9	
353.2 Nitrogen, Dissolved Pres	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3, Dissolved	**<0.059**	mg/L	0.25	0.059	1		01/04/22 13:35		

Sample: FIELD BLANK **Lab ID: 40238531019** Collected: 12/16/21 16:20 Received: 12/17/21 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Arsenic	**<0.28**	ug/L	1.0	0.28	1	12/22/21 05:29	12/28/21 08:44	7440-38-2	
Chromium	**<1.0**	ug/L	3.4	1.0	1	12/22/21 05:29	12/28/21 08:44	7440-47-3	
Lead	**<0.24**	ug/L	1.0	0.24	1	12/22/21 05:29	12/28/21 08:44	7439-92-1	
Magnesium	**<0.031**	mg/L	0.25	0.031	1	12/22/21 05:29	12/28/21 08:44	7439-95-4	
Manganese	**<1.2**	ug/L	4.0	1.2	1	12/22/21 05:29	12/28/21 08:44	7439-96-5	
Nickel	**<0.28**	ug/L	1.0	0.28	1	12/22/21 05:29	12/28/21 08:44	7440-02-0	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride	**<0.43**	mg/L	2.0	0.43	1		01/04/22 12:37	16887-00-6	
Sulfate	**<0.44**	mg/L	2.0	0.44	1		01/04/22 12:37	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**<0.21**	mg/L	1.0	0.21	1	12/22/21 20:40	12/23/21 02:05	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**<0.059**	mg/L	0.25	0.059	1		01/04/22 13:06		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238531

Sample: EQUIPMENT BLANK **Lab ID: 40238531020** Collected: 12/16/21 11:15 Received: 12/17/21 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Arsenic	**0.80J**	ug/L	1.0	0.28	1	12/22/21 05:29	12/28/21 08:52	7440-38-2	
Chromium	**1.8J**	ug/L	3.4	1.0	1	12/22/21 05:29	12/28/21 08:52	7440-47-3	
Lead	**0.38J**	ug/L	1.0	0.24	1	12/22/21 05:29	12/28/21 08:52	7439-92-1	
Magnesium	**1.5**	mg/L	0.25	0.031	1	12/22/21 05:29	12/28/21 08:52	7439-95-4	
Manganese	**7.8**	ug/L	4.0	1.2	1	12/22/21 05:29	12/28/21 08:52	7439-96-5	
Nickel	**0.99J**	ug/L	1.0	0.28	1	12/22/21 05:29	12/28/21 08:52	7440-02-0	
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride	**0.70J**	mg/L	2.0	0.43	1		01/04/22 12:52	16887-00-6	
Sulfate	**<0.44**	mg/L	2.0	0.44	1		01/04/22 12:52	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**<0.21**	mg/L	1.0	0.21	1	12/22/21 20:40	12/23/21 02:08	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**6.1**	mg/L	0.25	0.059	1		01/04/22 13:07		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238531

QC Batch: 404821
QC Batch Method: EPA 3010A
Analysis Method: EPA 6020B
Analysis Description: 6020B MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238531019, 40238531020

METHOD BLANK: 2336566 Matrix: Water
Associated Lab Samples: 40238531019, 40238531020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	<0.28	1.0	12/28/21 02:04	
Chromium	ug/L	<1.0	3.4	12/28/21 02:04	
Lead	ug/L	<0.24	1.0	12/28/21 02:04	
Magnesium	mg/L	<0.031	0.25	12/28/21 02:04	
Manganese	ug/L	<1.2	4.0	12/28/21 02:04	
Nickel	ug/L	<0.28	1.0	12/28/21 02:04	

LABORATORY CONTROL SAMPLE: 2336567

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	250	242	97	80-120	
Chromium	ug/L	250	243	97	80-120	
Lead	ug/L	250	253	101	80-120	
Magnesium	mg/L	10	10	100	80-120	
Manganese	ug/L	250	247	99	80-120	
Nickel	ug/L	250	244	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2336568 2336569

Parameter	Units	40238332001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	1.0	250	250	252	256	100	102	75-125	1	20	
Chromium	ug/L	1.3J	250	250	248	253	99	101	75-125	2	20	
Lead	ug/L	121	250	250	390	396	107	110	75-125	1	20	
Magnesium	mg/L	34700 ug/L	10	10	46.0	46.6	113	119	75-125	1	20	
Manganese	ug/L	12.9	250	250	261	264	99	101	75-125	1	20	
Nickel	ug/L	2.2	250	250	246	251	98	99	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238531

QC Batch: 404663
QC Batch Method: EPA 3010A
Analysis Method: EPA 6020B
Analysis Description: 6020B MET Dissolved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238531001, 40238531002, 40238531003, 40238531004, 40238531005, 40238531006, 40238531007, 40238531008, 40238531009, 40238531010, 40238531011, 40238531012, 40238531013, 40238531014, 40238531015, 40238531016, 40238531017, 40238531018

METHOD BLANK: 2335935 Matrix: Water
Associated Lab Samples: 40238531001, 40238531002, 40238531003, 40238531004, 40238531005, 40238531006, 40238531007, 40238531008, 40238531009, 40238531010, 40238531011, 40238531012, 40238531013, 40238531014, 40238531015, 40238531016, 40238531017, 40238531018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<0.28	1.0	12/21/21 23:54	
Chromium, Dissolved	ug/L	<1.0	3.4	12/21/21 23:54	
Lead, Dissolved	ug/L	<0.24	1.0	12/21/21 23:54	
Magnesium, Dissolved	mg/L	<0.031	0.25	12/21/21 23:54	
Manganese, Dissolved	ug/L	<1.2	4.0	12/21/21 23:54	
Nickel, Dissolved	ug/L	<0.28	1.0	12/21/21 23:54	

LABORATORY CONTROL SAMPLE: 2335936

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	250	251	100	80-120	
Chromium, Dissolved	ug/L	250	243	97	80-120	
Lead, Dissolved	ug/L	250	239	96	80-120	
Magnesium, Dissolved	mg/L	10	9.8	98	80-120	
Manganese, Dissolved	ug/L	250	244	98	80-120	
Nickel, Dissolved	ug/L	250	240	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2335937 2335938

Parameter	Units	40238531001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	33.8	250	250	284	296	100	105	75-125	4	20	
Chromium, Dissolved	ug/L	<1.0	250	250	246	242	98	97	75-125	1	20	
Lead, Dissolved	ug/L	<0.24	250	250	249	247	100	99	75-125	1	20	
Magnesium, Dissolved	mg/L	66.8	10	10	77.1	79.0	103	122	75-125	2	20	
Manganese, Dissolved	ug/L	6.9	250	250	252	249	98	97	75-125	1	20	
Nickel, Dissolved	ug/L	0.63J	250	250	238	234	95	93	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238531

QC Batch: 405311 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions,Dissolved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238531001, 40238531002, 40238531003, 40238531004, 40238531005, 40238531006, 40238531007, 40238531008, 40238531009, 40238531010

METHOD BLANK: 2339098 Matrix: Water
Associated Lab Samples: 40238531001, 40238531002, 40238531003, 40238531004, 40238531005, 40238531006, 40238531007, 40238531008, 40238531009, 40238531010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	01/04/22 02:19	
Sulfate	mg/L	<0.44	2.0	01/04/22 02:19	

LABORATORY CONTROL SAMPLE: 2339099

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	21.1	106	90-110	
Sulfate	mg/L	20	20.6	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2339100 2339101

Parameter	Units	40238531001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	175	100	100	286	286	111	112	90-110	0	15	M0
Sulfate	mg/L	18.2	100	100	121	122	103	103	90-110	0	15	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238531

QC Batch: 405368
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions,Dissolved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238531011, 40238531012, 40238531013, 40238531014, 40238531015, 40238531016, 40238531017, 40238531018

METHOD BLANK: 2339387 Matrix: Water
Associated Lab Samples: 40238531011, 40238531012, 40238531013, 40238531014, 40238531015, 40238531016, 40238531017, 40238531018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	01/03/22 17:52	
Sulfate	mg/L	<0.44	2.0	01/03/22 17:52	

LABORATORY CONTROL SAMPLE: 2339388

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	21.1	106	90-110	
Sulfate	mg/L	20	20.6	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2339389 2339390

Parameter	Units	40238531011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	33.4	100	100	142	143	109	109	90-110	0	15	
Sulfate	mg/L	46.0	100	100	154	154	107	108	90-110	0	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2339391 2339392

Parameter	Units	40238573001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	593	400	400	1030	1020	109	107	90-110	1	15	
Sulfate	mg/L	103	400	400	514	512	103	102	90-110	0	15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238531

QC Batch: 405369
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238531019, 40238531020

METHOD BLANK: 2339393 Matrix: Water
Associated Lab Samples: 40238531019, 40238531020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	01/04/22 11:38	
Sulfate	mg/L	<0.44	2.0	01/04/22 11:38	

LABORATORY CONTROL SAMPLE: 2339394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	18.8	94	90-110	
Sulfate	mg/L	20	18.3	91	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2339395 2339396

Parameter	Units	40238544001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	376	400	400	810	768	108	98	90-110	5	15	
Sulfate	mg/L	404	400	400	827	781	106	94	90-110	6	15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238531

QC Batch: 404925
QC Batch Method: EPA 351.2
Analysis Method: EPA 351.2
Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238531019, 40238531020

METHOD BLANK: 2337294 Matrix: Water
Associated Lab Samples: 40238531019, 40238531020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.21	1.0	12/23/21 01:42	

LABORATORY CONTROL SAMPLE: 2337295

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	5	4.9	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2337296 2337297

Parameter	Units	40238438001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	<0.21	5	5	4.4	4.4	87	87	90-110	1	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2337298 2337299

Parameter	Units	40238688001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	<0.21	5	5	4.6	4.7	91	94	90-110	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238531

QC Batch: 405189 — Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 — Analysis Description: 351.2 TKN Dissolved
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40238531001, 40238531002, 40238531003, 40238531004, 40238531005, 40238531006, 40238531007, 40238531008, 40238531009, 40238531010, 40238531011, 40238531012, 40238531013, 40238531014, 40238531015, 40238531016, 40238531017, 40238531018

METHOD BLANK: 2338542 — Matrix: Water

Associated Lab Samples: 40238531001, 40238531002, 40238531003, 40238531004, 40238531005, 40238531006, 40238531007, 40238531008, 40238531009, 40238531010, 40238531011, 40238531012, 40238531013, 40238531014, 40238531015, 40238531016, 40238531017, 40238531018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total, Dissolved	mg/L	<0.21	1.0	12/29/21 01:03	

LABORATORY CONTROL SAMPLE: 2338543

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total, Dissolved	mg/L	5	5.2	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2338544 2338545

Parameter	Units	40238531001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total, Dissolved	mg/L	1.7	5	5	6.3	7.1	92	107	90-110	11	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2338546 2338547

Parameter	Units	40238531002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total, Dissolved	mg/L	0.39J	5	5	5.0	5.0	93	93	90-110	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238531

QC Batch: 405525
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238531019, 40238531020

METHOD BLANK: 2339925 Matrix: Water
Associated Lab Samples: 40238531019, 40238531020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.059	0.25	01/04/22 12:56	

LABORATORY CONTROL SAMPLE: 2339926

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.4	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2339927 2339928

Parameter	Units	40238524006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.059	2.5	2.5	2.4	2.4	96	96	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2339929 2339930

Parameter	Units	40238751001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.059	2.5	2.5	2.3	2.3	93	93	90-110	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238531

QC Batch: 405526 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrogen, Dissolved, preserved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238531001, 40238531002, 40238531003, 40238531004, 40238531005, 40238531006, 40238531007, 40238531008, 40238531009, 40238531010, 40238531011, 40238531012, 40238531013, 40238531014, 40238531015, 40238531016, 40238531017, 40238531018

METHOD BLANK: 2339931 Matrix: Water
Associated Lab Samples: 40238531001, 40238531002, 40238531003, 40238531004, 40238531005, 40238531006, 40238531007, 40238531008, 40238531009, 40238531010, 40238531011, 40238531012, 40238531013, 40238531014, 40238531015, 40238531016, 40238531017, 40238531018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3, Dissolved	mg/L	<0.059	0.25	01/04/22 13:17	

LABORATORY CONTROL SAMPLE: 2339932

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3, Dissolved	mg/L	2.5	2.6	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2339933 2339934

Parameter	Units	40238531010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3, Dissolved	mg/L	0.72	2.5	2.5	3.1	3.1	94	93	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2339935 2339936

Parameter	Units	40238717002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3, Dissolved	mg/L	<0.059	2.5	2.5	2.4	2.4	96	96	90-110	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238531

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

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238531

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40238531019	**FIELD BLANK**	EPA 3010A	404821	EPA 6020B	404908
40238531020	**EQUIPMENT BLANK**	EPA 3010A	404821	EPA 6020B	404908
40238531001	**B-94-25A**	EPA 3010A	404663	EPA 6020B	404769
40238531002	**B-94-25**	EPA 3010A	404663	EPA 6020B	404769
40238531003	**W-23**	EPA 3010A	404663	EPA 6020B	404769
40238531004	**W-23A**	EPA 3010A	404663	EPA 6020B	404769
40238531005	**B-15**	EPA 3010A	404663	EPA 6020B	404769
40238531006	**B-15A**	EPA 3010A	404663	EPA 6020B	404769
40238531007	**B-96-17**	EPA 3010A	404663	EPA 6020B	404769
40238531008	**B-96-17A**	EPA 3010A	404663	EPA 6020B	404769
40238531009	**B-96-18B**	EPA 3010A	404663	EPA 6020B	404769
40238531010	**B-96-18A**	EPA 3010A	404663	EPA 6020B	404769
40238531011	**B-21**	EPA 3010A	404663	EPA 6020B	404769
40238531012	**B-21A**	EPA 3010A	404663	EPA 6020B	404769
40238531013	**B-94-14R**	EPA 3010A	404663	EPA 6020B	404769
40238531014	**B-94-14A**	EPA 3010A	404663	EPA 6020B	404769
40238531015	**B-94-19A**	EPA 3010A	404663	EPA 6020B	404769
40238531016	**W-24**	EPA 3010A	404663	EPA 6020B	404769
40238531017	**B-96-13A**	EPA 3010A	404663	EPA 6020B	404769
40238531018	**B-94-25 DUP**	EPA 3010A	404663	EPA 6020B	404769
40238531001	**B-94-25A**				
40238531002	**B-94-25**				
40238531003	**W-23**				
40238531004	**W-23A**				
40238531005	**B-15**				
40238531006	**B-15A**				
40238531007	**B-96-17**				
40238531008	**B-96-17A**				
40238531009	**B-96-18B**				
40238531010	**B-96-18A**				
40238531011	**B-21**				
40238531012	**B-21A**				
40238531013	**B-94-14R**				
40238531014	**B-94-14A**				
40238531015	**B-94-19A**				
40238531016	**W-24**				
40238531017	**B-96-13A**				
40238531018	**B-94-25 DUP**				
40238531019	**FIELD BLANK**	EPA 300.0	405369		
40238531020	**EQUIPMENT BLANK**	EPA 300.0	405369		
40238531001	**B-94-25A**	EPA 300.0	405311		
40238531002	**B-94-25**	EPA 300.0	405311		
40238531003	**W-23**	EPA 300.0	405311		
40238531004	**W-23A**	EPA 300.0	405311		
40238531005	**B-15**	EPA 300.0	405311		
40238531006	**B-15A**	EPA 300.0	405311		
40238531007	**B-96-17**	EPA 300.0	405311		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238531

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40238531008	**B-96-17A**	EPA 300.0	405311		
40238531009	**B-96-18B**	EPA 300.0	405311		
40238531010	**B-96-18A**	EPA 300.0	405311		
40238531011	**B-21**	EPA 300.0	405368		
40238531012	**B-21A**	EPA 300.0	405368		
40238531013	**B-94-14R**	EPA 300.0	405368		
40238531014	**B-94-14A**	EPA 300.0	405368		
40238531015	**B-94-19A**	EPA 300.0	405368		
40238531016	**W-24**	EPA 300.0	405368		
40238531017	**B-96-13A**	EPA 300.0	405368		
40238531018	**B-94-25 DUP**	EPA 300.0	405368		
40238531019	**FIELD BLANK**	EPA 351.2	404925	EPA 351.2	404930
40238531020	**EQUIPMENT BLANK**	EPA 351.2	404925	EPA 351.2	404930
40238531001	**B-94-25A**	EPA 351.2	405189	EPA 351.2	405192
40238531002	**B-94-25**	EPA 351.2	405189	EPA 351.2	405192
40238531003	**W-23**	EPA 351.2	405189	EPA 351.2	405192
40238531004	**W-23A**	EPA 351.2	405189	EPA 351.2	405192
40238531005	**B-15**	EPA 351.2	405189	EPA 351.2	405192
40238531006	**B-15A**	EPA 351.2	405189	EPA 351.2	405192
40238531007	**B-96-17**	EPA 351.2	405189	EPA 351.2	405192
40238531008	**B-96-17A**	EPA 351.2	405189	EPA 351.2	405192
40238531009	**B-96-18B**	EPA 351.2	405189	EPA 351.2	405192
40238531010	**B-96-18A**	EPA 351.2	405189	EPA 351.2	405192
40238531011	**B-21**	EPA 351.2	405189	EPA 351.2	405192
40238531012	**B-21A**	EPA 351.2	405189	EPA 351.2	405192
40238531013	**B-94-14R**	EPA 351.2	405189	EPA 351.2	405192
40238531014	**B-94-14A**	EPA 351.2	405189	EPA 351.2	405192
40238531015	**B-94-19A**	EPA 351.2	405189	EPA 351.2	405192
40238531016	**W-24**	EPA 351.2	405189	EPA 351.2	405192
40238531017	**B-96-13A**	EPA 351.2	405189	EPA 351.2	405192
40238531018	**B-94-25 DUP**	EPA 351.2	405189	EPA 351.2	405192
40238531019	**FIELD BLANK**	EPA 353.2	405525		
40238531020	**EQUIPMENT BLANK**	EPA 353.2	405525		
40238531001	**B-94-25A**	EPA 353.2	405526		
40238531002	**B-94-25**	EPA 353.2	405526		
40238531003	**W-23**	EPA 353.2	405526		
40238531004	**W-23A**	EPA 353.2	405526		
40238531005	**B-15**	EPA 353.2	405526		
40238531006	**B-15A**	EPA 353.2	405526		
40238531007	**B-96-17**	EPA 353.2	405526		
40238531008	**B-96-17A**	EPA 353.2	405526		
40238531009	**B-96-18B**	EPA 353.2	405526		
40238531010	**B-96-18A**	EPA 353.2	405526		
40238531011	**B-21**	EPA 353.2	405526		
40238531012	**B-21A**	EPA 353.2	405526		
40238531013	**B-94-14R**	EPA 353.2	405526		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238531

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40238531014	**B-94-14A**	EPA 353.2	405526		
40238531015	**B-94-19A**	EPA 353.2	405526		
40238531016	**W-24**	EPA 353.2	405526		
40238531017	**B-96-13A**	EPA 353.2	405526		
40238531018	**B-94-25 DUP**	EPA 353.2	405526		

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UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

COC 12/14/21

COC No. L1038531

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	Kapur & Associates Inc.
Branch/Location:	Glendale, WI
Project Contact:	Ashley Wagner
Phone:	(414)410-5206
Project Number:	21.0122.01
Project Name:	Barrett Landfill
Project State:	Wisconsin
Sampled By (Print):	Jennifer Skweres
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Travis Peterson
Mail To Company:	Kapur & Associates Inc.
Mail To Address:	7711 N Port Washington Rd. Milwaukee, WI 53217
Invoice To Contact:	same
Invoice To Company:	as
Invoice To Address:	above
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

FILTERED? (YES/NO) Y/N
PRESERVATION (CODE)* Pick Letter

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested: Chloride, Sulfate	As, Pb, Ni, Mn, Mg, Cr	Nitrate + Nitrite, TKN	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	Y/N				Y	Y	Y			
	Pick Letter				A	D	C			
001	B-94-25A	12/16/21	10:53	GW	X	X	X			
002	B-94-25	12/16/21	10:25	GW	X	X	X			
003	W-23	12/13/21	11:40	GW	X	X	X			
004	W-23A	12/13/21	11:00	GW	X	X	X			
005	B-15	12/15/21	15:15	GW	X	X	X			
006	B-15A	12/15/21	15:57	GW	X	X	X			
007	B-96-17	12/15/21	11:55	GW	X	X	X			
008	B-96-17A	12/15/21	11:35	GW	X	X	X			
009	B--96-18B	12/13/21	15:50	GW	X	X	X			
010	B-96-18A	12/15/21	10:30	GW	X	X	X			
011	B-21	12/15/21	13:15	GW	X	X	X			
012	B-21A	12/15/21	12:55	GW	X	X	X			
013	B-14R	12/16/21	8:55	GW	X	X	X			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	12/16/21 16:47		
	12/17/21 0750		12/17/21 0750

PACE Project No.: L1038531

Receipt Temp = 4.4 °C

Sample Receipt pH: (OK) Adjusted

Cooler Custody Seal: Present / ~~Not Present~~

Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

Pace Analytical®
www.pacelabs.com

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

COC No. UD38531 (Old 12/17/21)

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	Kapur & Associates Inc.
Branch/Location:	Glendale, WI
Project Contact:	Ashley Wagner
Phone:	(414)410-5206
Project Number:	21.0122.01
Project Name:	Barrett Landfill
Project State:	Wisconsin
Sampled By (Print):	Jennifer Skweres
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Travis Peterson
Mail To Company:	Kapur & Associates Inc.
Mail To Address:	7711 N Port Washington Rd. Milwaukee, WI 53217
Invoice To Contact:	same
Invoice To Company:	as
Invoice To Address:	above
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO)	PRESERVATION (CODE)*	Chloride, Sulfate	As, Pb, Ni, Mn, Mg, Cr	Nitrate + Nitrite, TKN	Chloride, Sulfate	As, Pb, Ni, Mn, Mg, Cr	Nitrate + Nitrite, TKN	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	Analyses Requested				Y/N	Pick Letter	Y / A	Y / D	Y / C	N / A	N / D	N / C			
014	B-94-14A	12/16/21	9:35	GW			X	X	X						
015	B-19A	12/13/21	14:00	GW			X	X	X						
016	W-24	12/13/21	15:00	GW			X	X	X						
017	B-13A	12/13/21	13:11	GW			X	X	X						
							X	X	X						
							X	X	X						
018	B-94-25 Dup	11/19/19	10:55	GW			X	X	X						
019	Field Blank	12/16/21	16:20	DI						X	X	X			
020	Equipment Blank	11/19/19	11:15	DI						X	X	X			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	12/16/21 16:46		
C S Logsdon	12/17/21 0750	Susan Kilby Pace	12/17/21 0750

PACE Project No. UD38531

Receipt Temp 4.4 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / ~~Not Present~~

Intact / Not Intact

Sample Preservation Receipt Form

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: Kapur Project # 40038531

All containers needing preservation have been checked and noted below: ☐Yes ☐No ☐N/A Initial when completed: DW Date/ Time:

Lab Lot# of pH paper: 10D0104 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	ZPLC	GN						
001										/		/	/															X			X		2.5 / 5 / 10
002										/		/	/															X			X		2.5 / 5 / 10
003										/		/	/															X			X		2.5 / 5 / 10
004										/		/	/															X			X		2.5 / 5 / 10
005										/		/	/															X			X		2.5 / 5 / 10
006										/		/	/															X			X		2.5 / 5 / 10
007										/		/	/															X			X		2.5 / 5 / 10
008										/		/	/															X			X		2.5 / 5 / 10
009										/		/	/															X			X		2.5 / 5 / 10
010										/		/	/															X			X		2.5 / 5 / 10
011										/		/	/															X			X		2.5 / 5 / 10
012										/		/	/															X			X		2.5 / 5 / 10
013										/		/	/															X			X		2.5 / 5 / 10
014										/		/	/															X			X		2.5 / 5 / 10
015										/		/	/															X			X		2.5 / 5 / 10
016										/		/	/															X			X		2.5 / 5 / 10
017										/		/	/															X			X		2.5 / 5 / 10
018										/		/	/															X			X		2.5 / 5 / 10
019										/		/	/															X			X		2.5 / 5 / 10
020										/		/	/															X			X		2.5 / 5 / 10

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
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: 26Mar2020
	Document No.: **ENV-FRM-GBAY-0014-Rev.00**	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40238531

40238531

Client Name: Kapur & Assoc

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

Tracking #:

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 - 105 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 4.4 /Corr: 4.4

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: 12/17/21 /Initials: SKV

Labeled By Initials: MP

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD: ☐Yes ☑No ☐N/A		8.
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☑Yes ☐No ☐N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☑Yes ☐No ☐N/A	12. 12/17/21 SW 013-ID is B-94-14R 12/17/21 SW 015-ID is B-94-19A
Trip Blank Present:	☐Yes ☐No ☑N/A	13. 017-ID is B-96-13A 020-ID is EB-1. 12/17/21 SKV
Trip Blank Custody Seals Present	☐Yes ☐No ☑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: No year on samples for collect dates. COC has 013 & 020 collected 2019. 12/17/21 SKV

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

Page 2 of 2

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

January 17, 2022

Travis Peterson
Kapur & Associates, Inc.
7711 N. Port Washington Road
Milwaukee, WI 53217

RE: Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238533

Dear Travis Peterson:

Enclosed are the analytical results for sample(s) received by the laboratory on December 17, 2021. 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
- Pace Analytical Services - Indianapolis

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

Sincerely,

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Kapur Environmental, Kapur & Associates, Inc.
Ashley Wagner, Kapur & Associates

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238533

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

Pace Analytical Services Indianapolis
7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Wisconsin Laboratory #: 999788130
USDA Soil Permit #: P330-19-00257

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238533

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40238533001	**BERGHAMMER**	Water	12/14/21 10:35	12/17/21 07:50

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SAMPLE ANALYTE COUNT

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238533

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40238533001	**BERGHAMMER**	EPA 200.7	TXW	1	PASI-G
		EPA 200.8	CAW	4	PASI-I
			CDH	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 353.2	DAW	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay
PASI-I = Pace Analytical Services - Indianapolis

Pace Analytical Services, LLC
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Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238533

Sample: BERGHAMMER **Lab ID: 40238533001** Collected: 12/14/21 10:35 Received: 12/17/21 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Green Bay								
Magnesium	**45.9**	mg/L	1.0	0.18	1	12/22/21 06:16	12/27/21 23:44	7439-95-4	
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8 Pace Analytical Services - Indianapolis								
Arsenic	**<0.17**	ug/L	0.58	0.17	1		12/27/21 14:26	7440-38-2	
Chromium	**0.66**	ug/L	0.34	0.10	1		12/27/21 14:26	7440-47-3	
Lead	**0.36J**	ug/L	0.47	0.14	1		12/27/21 14:26	7439-92-1	
Manganese	**0.56J**	ug/L	0.58	0.18	1		12/27/21 14:26	7439-96-5	
Field Data	Analytical Method: Pace Analytical Services - Green Bay								
Field pH	**7.17**	Std. Units			1		12/14/21 10:35		
Field Specific Conductance	**888**	umhos/cm			1		12/14/21 10:35		
Turbidity	**N**	NTU			1		12/14/21 10:35		
Apparent Color	**N**	no units			1		12/14/21 10:35		
Odor	**N**	no units			1		12/14/21 10:35		
Temperature, Water (C)	**10.8**	deg C			1		12/14/21 10:35		
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride	**79.2**	mg/L	10.0	2.2	5		01/03/22 14:24	16887-00-6	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**1.5**	mg/L	0.25	0.059	1		01/04/22 13:02		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238533

QC Batch: 656454
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: ICPMS Metals, No Prep
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 40238533001

METHOD BLANK: 3026468 Matrix: Water
Associated Lab Samples: 40238533001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	<0.17	0.58	12/27/21 14:06	
Chromium	ug/L	<0.10	0.34	12/27/21 14:06	
Lead	ug/L	<0.14	0.47	12/27/21 14:06	
Manganese	ug/L	<0.18	0.58	12/27/21 14:06	

LABORATORY CONTROL SAMPLE: 3026469

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	40	41.6	104	85-115	
Chromium	ug/L	40	42.4	106	85-115	
Lead	ug/L	40	42.4	106	85-115	
Manganese	ug/L	40	41.7	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3026470 3026471

Parameter	Units	40238535001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	0.25J	40	40	40.6	40.8	101	101	70-130	1	20	
Chromium	ug/L	0.63	40	40	40.5	41.1	100	101	70-130	1	20	
Lead	ug/L	6.9	40	40	48.7	50.2	105	108	70-130	3	20	
Manganese	ug/L	16.5	40	40	54.3	55.2	95	97	70-130	2	20	

MATRIX SPIKE SAMPLE: 3026834

Parameter	Units	10592237001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	1.0	40	40.6	99	70-130	
Chromium	ug/L	0.22J	40	39.5	98	70-130	
Lead	ug/L	0.18J	40	40.6	101	70-130	
Manganese	ug/L	0.33J	40	39.0	97	70-130	

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238533

QC Batch: 404824
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238533001

METHOD BLANK: 2336579 Matrix: Water
Associated Lab Samples: 40238533001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Magnesium	mg/L	<0.18	1.0	12/27/21 23:16	

LABORATORY CONTROL SAMPLE: 2336580

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	mg/L	10	10.4	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2336581 2336582

Parameter	Units	10591903001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Magnesium	mg/L	1430 ug/L	10	10	11.7	11.3	103	99	70-130	4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2336583 2336584

Parameter	Units	40238655005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Magnesium	mg/L	51300 ug/L	10	10	60.2	60.1	90	89	70-130	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: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238533

QC Batch: 405310
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238533001

METHOD BLANK: 2339094 Matrix: Water
Associated Lab Samples: 40238533001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	01/03/22 11:11	

LABORATORY CONTROL SAMPLE: 2339095

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	18.8	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2339096 2339097

Parameter	Units	40238524004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	6.9J	100	100	110	111	103	104	90-110	1	15	

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

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238533

QC Batch: 405525
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238533001

METHOD BLANK: 2339925 Matrix: Water
Associated Lab Samples: 40238533001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.059	0.25	01/04/22 12:56	

LABORATORY CONTROL SAMPLE: 2339926

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.4	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2339927 2339928

Parameter	Units	40238524006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.059	2.5	2.5	2.4	2.4	96	96	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2339929 2339930

Parameter	Units	40238751001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.059	2.5	2.5	2.3	2.3	93	93	90-110	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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238533

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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(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238533

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40238533001	**BERGHAMMER**	EPA 200.7	404824	EPA 200.7	404898
40238533001	**BERGHAMMER**	EPA 200.8	656454		
40238533001	**BERGHAMMER**				
40238533001	**BERGHAMMER**	EPA 300.0	405310		
40238533001	**BERGHAMMER**	EPA 353.2	405525		

(Please Print Clearly)	
Company Name:	Kapur & Associates Inc.
Branch/Location:	Glendale, WI
Project Contact:	Ashley Wagner
Phone:	(414)410-5206
Project Number:	21.0122.01
Project Name:	Barrett Landfill
Project State:	Wisconsin
Sampled By (Print):	Jennifer Skweres
Sampled By (Sign):	[signature]
PO #:	Regulatory Program:

Pace Analytical®
www.pacelabs.com

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

COC No. 40238533

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:	
Mail To Contact:	Travis Peterson
Mail To Company:	Kapur & Associates Inc.
Mail To Address:	7711 N Port Washington Rd. Milwaukee, WI 53217
Invoice To Contact:	same
Invoice To Company:	as
Invoice To Address:	above
Invoice To Phone:	

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, Sl = Sludge
W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

					FILTERED? (YES/NO) Y/N	N	N	N						
					PRESERVATION (CODE)* Pick Letter	A	C	D						
PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested	Chloride	As, Pb, Cr, Mn, Mg	Nitrate + Nitrite					CLIENT COMMENTS	LAB COMMENTS (Lab Use Only) / Profile #
001	Berghammer	12/14/21	10:35	DW		X	X	X						

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	12/16/21 14:06		
[signature]	12/17/21 0750	[signature] Pace	12/17/21 0750

PACE Project No. 40238533
Receipt Temp = 4.4 °C
Sample Receipt pH: OK / Adjusted
Cooler Custody Seal: Present / Not Present
Intact / Not Intact

C019a(27Jun2006)
Version 6.0 06/14/06

Sample Preservation Receipt Form

Client Name: Kapur

Project # CD-38533

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Green Bay, WI 54302

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

Lab Lot# of pH paper: 10D0104 Lab Std #ID of preservation (if pH adjusted):

Initial when completed: KL Date/ Time:

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							
001																																	2.5 / 5 / 10
002										1		1	1															X			X		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																													12/1/21	SW			2.5 / 5 / 10

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
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: Kapur & Assoc

Project #:

WO#: 40238533

40238533

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

Tracking #:

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 - 105 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 4.4 /Corr: 4.4

Temp Blank Present: ☒ yes ☐ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents: Date: 12/17/21 /Initials: SKW

Labeled By Initials: SRK

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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January 17, 2022

Travis Peterson
Kapur & Associates, Inc.
7711 N. Port Washington Road
Milwaukee, WI 53217

RE: Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238750

Dear Travis Peterson:

Enclosed are the analytical results for sample(s) received by the laboratory on December 22, 2021. 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
- Pace Analytical Services - Indianapolis

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

Sincerely,

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Kapur Environmental, Kapur & Associates, Inc.
Ashley Wagner, Kapur & Associates

Pace Analytical Services, LLC
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(920)469-2436

CERTIFICATIONS

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238750

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

Pace Analytical Services Indianapolis
7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Wisconsin Laboratory #: 999788130
USDA Soil Permit #: P330-19-00257

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238750

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40238750001	**CHRISTIANSEN**	Water	12/20/21 15:28	12/22/21 07:30

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SAMPLE ANALYTE COUNT

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238750

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40238750001	**CHRISTIANSEN**	EPA 200.7	TXW	1	PASI-G
		EPA 200.8	CAW	4	PASI-I
			CDH	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 353.2	DAW	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay
PASI-I = Pace Analytical Services - Indianapolis

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ANALYTICAL RESULTS

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238750

Sample: CHRISTIANSEN **Lab ID: 40238750001** Collected: 12/20/21 15:28 Received: 12/22/21 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Green Bay								
Magnesium	**47.6**	mg/L	1.0	0.18	1	12/27/21 06:28	12/27/21 22:20	7439-95-4	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Indianapolis								
Arsenic	**9.5**	ug/L	0.59	0.18	1	01/05/22 09:35	01/05/22 15:08	7440-38-2	N2
Chromium	**3.4**	ug/L	2.3	0.68	1	01/05/22 09:35	01/05/22 15:08	7440-47-3	N2
Lead	**2.2**	ug/L	0.47	0.14	1	01/05/22 09:35	01/05/22 15:08	7439-92-1	N2
Manganese	**42.2**	ug/L	0.58	0.18	1	01/05/22 09:35	01/05/22 15:08	7439-96-5	N2
Field Data	Analytical Method: Pace Analytical Services - Green Bay								
Field pH	**7.47**	Std. Units			1		12/20/21 15:28		
Field Specific Conductance	**760**	umhos/cm			1		12/20/21 15:28		
Turbidity	**Y**	NTU			1		12/20/21 15:28		
Apparent Color	**Y**	no units			1		12/20/21 15:28		
Odor	**N**	no units			1		12/20/21 15:28		
Temperature, Water (C)	**8.5**	deg C			1		12/20/21 15:28		
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride	**32.3**	mg/L	10.0	2.2	5		01/05/22 01:53	16887-00-6	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**<0.059**	mg/L	0.25	0.059	1		01/04/22 13:15		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238750

QC Batch: 405005
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238750001

METHOD BLANK: 2337690 Matrix: Water
Associated Lab Samples: 40238750001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Magnesium	mg/L	<0.18	1.0	12/27/21 21:51	

LABORATORY CONTROL SAMPLE: 2337691

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	mg/L	10	10.8	108	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2337692 2337693

Parameter	Units	40238719001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Magnesium	mg/L	42500 ug/L	10	10	51.6	50.4	91	79	70-130	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2337694 2337695

Parameter	Units	40238758001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Magnesium	mg/L	41.7	10	10	52.4	50.5	107	88	70-130	4	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238750

QC Batch: 657542
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 40238750001

METHOD BLANK: 3030060 Matrix: Water
Associated Lab Samples: 40238750001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	<0.18	0.59	01/05/22 14:59	N2
Chromium	ug/L	<0.68	2.3	01/05/22 14:59	N2
Lead	ug/L	<0.14	0.47	01/05/22 14:59	N2
Manganese	ug/L	<0.18	0.58	01/05/22 14:59	N2

LABORATORY CONTROL SAMPLE: 3030061

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	40	38.8	97	85-115	N2
Chromium	ug/L	40	41.1	103	85-115	N2
Lead	ug/L	40	41.2	103	85-115	N2
Manganese	ug/L	40	41.0	102	85-115	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3030062 3030063

Parameter	Units	40238759001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	0.48J	40	40	39.3	39.4	97	97	70-130	0	20	N2
Chromium	ug/L	<0.68	40	40	41.1	40.4	101	100	70-130	2	20	N2
Lead	ug/L	1.2	40	40	44.3	43.9	108	107	70-130	1	20	N2
Manganese	ug/L	35.2	40	40	75.1	73.1	100	95	70-130	3	20	N2

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238750

QC Batch: 405488
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238750001

METHOD BLANK: 2339794 Matrix: Water
Associated Lab Samples: 40238750001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	01/04/22 19:42	

LABORATORY CONTROL SAMPLE: 2339795

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.8	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2339796 2339797

Parameter	Units	40238743002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	461	1000	1000	1570	1550	111	109	90-110	1	15	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2339798 2339799

Parameter	Units	40238755001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	30.8	100	100	140	139	109	109	90-110	0	15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238750

QC Batch: 405525
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238750001

METHOD BLANK: 2339925 Matrix: Water
Associated Lab Samples: 40238750001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.059	0.25	01/04/22 12:56	

LABORATORY CONTROL SAMPLE: 2339926

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.4	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2339927 2339928

Parameter	Units	40238524006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.059	2.5	2.5	2.4	2.4	96	96	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2339929 2339930

Parameter	Units	40238751001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.059	2.5	2.5	2.3	2.3	93	93	90-110	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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1241 Bellevue Street - Suite 9
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QUALIFIERS

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238750

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

M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238750

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40238750001	**CHRISTIANSEN**	EPA 200.7	405005	EPA 200.7	405075
40238750001	**CHRISTIANSEN**	EPA 200.8	657542	EPA 200.8	657598
40238750001	**CHRISTIANSEN**				
40238750001	**CHRISTIANSEN**	EPA 300.0	405488		
40238750001	**CHRISTIANSEN**	EPA 353.2	405525		

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

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CHAIN OF CUSTODY

COC No. 40238750

(Please Print Clearly)	
Company Name:	Kapur & Associates Inc.
Branch/Location:	Glendale, WI
Project Contact:	Ashley Wagner
Phone:	(414)410-5206
Project Number:	~~21.0122.01~~ 22.0129.01
Project Name:	Barrett Landfill
Project State:	Wisconsin
Sampled By (Print):	Jennifer Skweres
Sampled By (Sign):	
PO #:	Regulatory Program:

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:	
Mail To Contact:	Ashley Wagner
Mail To Company:	Kapur & Associates Inc.
Mail To Address:	7711 N Port Washington Rd. Milwaukee, WI 53217
Invoice To Contact:	same
Invoice To Company:	as
Invoice To Address:	above
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested: Chloride	As, Pb, Cr, Mn, Mg	Nitrate + Nitrite	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
FILTERED? (YES/NO)	Y / N	N	N	N						
PRESERVATION (CODE)*	Pick Letter	A	C	D						
001	Christiansen	12/20/21	15:28	DW	X	X	X			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	12-21-21 15:28		
	12/22/21 0730		12/22/21 0730

PACE Project No.: 40238750
Receipt Temp = 0 °C
Sample Receipt pH: OK / Adjusted
Cooler Custody Seal: Present / Not Present
Intact / Not Intact

Client Name: Kapur

Sample Preservation Receipt Form

Project # 40238750

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Green Bay, WI 54302

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

Lab Lot# of pH paper: 10D0104 Lab Std #ID of preservation (if pH adjusted):

Initial when completed: ZW Date/ Time:

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							
001																																	2.5 / 5 / 10
002										1		1	1															X			X		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

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
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: Kapur & Assoc. Project #:

WO#: 40238750

40238750

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

Tracking #:

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 - 105 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 0 /Corr: 0

Temp Blank Present: ☐ yes ☒ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents: Date: 12/22/21 /Initials: SRK

Labeled By Initials: SRK

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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January 17, 2022

Travis Peterson
Kapur & Associates, Inc.
7711 N. Port Washington Road
Milwaukee, WI 53217

RE: Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238758

Dear Travis Peterson:

Enclosed are the analytical results for sample(s) received by the laboratory on December 22, 2021. 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
- Pace Analytical Services - Indianapolis

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

Sincerely,

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Kapur Environmental, Kapur & Associates, Inc.
Ashley Wagner, Kapur & Associates

Pace Analytical Services, LLC
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CERTIFICATIONS

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238758

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Wisconsin Laboratory #: 999788130
USDA Soil Permit #: P330-19-00257

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SAMPLE SUMMARY

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238758

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40238758001	**HEUN**	Water	12/20/21 16:50	12/22/21 07:30

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SAMPLE ANALYTE COUNT

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238758

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40238758001	**HEUN**	EPA 200.7	TXW	1	PASI-G
		EPA 200.8	CAW	4	PASI-I
			CDH	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 353.2	DAW	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay
PASI-I = Pace Analytical Services - Indianapolis

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ANALYTICAL RESULTS

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238758

Sample: HEUN **Lab ID: 40238758001** Collected: 12/20/21 16:50 Received: 12/22/21 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
	Pace Analytical Services - Green Bay								
Magnesium	**41.7**	mg/L	20.0	3.6	20	12/27/21 06:28	12/28/21 15:16	7439-95-4	
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8								
	Pace Analytical Services - Indianapolis								
Arsenic	**0.24J**	ug/L	0.59	0.18	1		12/29/21 15:22	7440-38-2	
Chromium	**1.0J**	ug/L	2.3	0.68	1		12/29/21 15:22	7440-47-3	
Lead	**6.1**	ug/L	0.47	0.14	1		12/29/21 15:22	7439-92-1	
Manganese	**1.6**	ug/L	0.58	0.18	1		12/29/21 15:22	7439-96-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**7.67**	Std. Units			1		12/20/21 16:50		
Field Specific Conductance	**824**	umhos/cm			1		12/20/21 16:50		
Turbidity	**N**	NTU			1		12/20/21 16:50		
Apparent Color	**N**	no units			1		12/20/21 16:50		
Odor	**N**	no units			1		12/20/21 16:50		
Temperature, Water (C)	**11.3**	deg C			1		12/20/21 16:50		
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**43.6**	mg/L	10.0	2.2	5		01/05/22 14:21	16887-00-6	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
	Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**0.41**	mg/L	0.25	0.059	1		01/05/22 10:43		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238758

QC Batch: 656941
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: ICPMS Metals, No Prep
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 40238758001

METHOD BLANK: 3027841 Matrix: Water
Associated Lab Samples: 40238758001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	<0.18	0.59	12/29/21 14:24	
Chromium	ug/L	<0.68	2.3	12/29/21 14:24	
Lead	ug/L	<0.14	0.47	12/29/21 14:24	
Manganese	ug/L	<0.18	0.58	12/29/21 14:24	

LABORATORY CONTROL SAMPLE: 3027842

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	40	41.7	104	85-115	
Chromium	ug/L	40	42.8	107	85-115	
Lead	ug/L	40	42.5	106	85-115	
Manganese	ug/L	40	42.3	106	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3027843 3027844

Parameter	Units	40238757001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	<0.18	40	40	41.5	40.4	103	101	70-130	3	20	
Chromium	ug/L	<0.68	40	40	40.3	39.2	100	97	70-130	3	20	
Lead	ug/L	0.36J	40	40	42.5	41.5	105	103	70-130	2	20	
Manganese	ug/L	0.63	40	40	39.7	38.2	98	94	70-130	4	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

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238758

QC Batch: 405005
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238758001

METHOD BLANK: 2337690 Matrix: Water
Associated Lab Samples: 40238758001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Magnesium	mg/L	<0.18	1.0	12/27/21 21:51	

LABORATORY CONTROL SAMPLE: 2337691

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	mg/L	10	10.8	108	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2337692 2337693

Parameter	Units	40238719001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Magnesium	mg/L	42500 ug/L	10	10	51.6	50.4	91	79	70-130	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2337694 2337695

Parameter	Units	40238758001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Magnesium	mg/L	41.7	10	10	52.4	50.5	107	88	70-130	4	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: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238758

QC Batch: 405559
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238758001

METHOD BLANK: 2340078 Matrix: Water
Associated Lab Samples: 40238758001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	01/05/22 12:07	

LABORATORY CONTROL SAMPLE: 2340079

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	18.9	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2340080 2340081

Parameter	Units	40238757001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	54.3	100	100	173	170	119	116	90-110	1	15	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2340082 2340083

Parameter	Units	40238890001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	466	400	400	942	923	119	114	90-110	2	15	M0

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: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238758

QC Batch: 405584
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238758001

METHOD BLANK: 2340179 Matrix: Water
Associated Lab Samples: 40238758001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.059	0.25	01/05/22 10:39	

LABORATORY CONTROL SAMPLE: 2340180

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2340181 2340182

Parameter	Units	40238759001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.059	2.5	2.5	2.4	2.4	97	96	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2340183 2340184

Parameter	Units	40238988005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.70	2.5	2.5	3.1	3.1	97	97	90-110	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

Pace Analytical Services, LLC
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(920)469-2436

QUALIFIERS

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238758

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

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238758

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40238758001	**HEUN**	EPA 200.7	405005	EPA 200.7	405075
40238758001	**HEUN**	EPA 200.8	656941		
40238758001	**HEUN**				
40238758001	**HEUN**	EPA 300.0	405559		
40238758001	**HEUN**	EPA 353.2	405584		

(Please Print Clearly)

Company Name:	Kapur & Associates Inc.
Branch/Location:	Glendale, WI
Project Contact:	Ashley Wagner
Phone:	(414)410-5206
Project Number:	~~21.0122.01~~ 22.0129.01
Project Name:	Barrett Landfill
Project State:	Wisconsin
Sampled By (Print):	Jennifer Skweres
Sampled By (Sign):	[signature]
PO #:	Regulatory Program:

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CHAIN OF CUSTODY

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

COC No. 40238758

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:	
Mail To Contact:	Ashley Wagner
Mail To Company:	Kapur & Associates Inc.
Mail To Address:	7711 N Port Washington Rd. Milwaukee, WI 53217
Invoice To Contact:	same
Invoice To Company:	as
Invoice To Address:	above
Invoice To Phone:	

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, Sl = Sludge
W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

					FILTERED? (YES/NO) Y/N	N	N	N								
					PRESERVATION (CODE)* Pick Letter	A	C	D								
PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested	Chloride	As, Pb, Cr, Mn, Mg	Nitrate + Nitrite						CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	Heun	12/20/21	16:50	DW		X	X	X								

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	15:28 12-21-21		
[signature]	12/22/21 0730	[signature]	12/22/21 0730

PACE Project No. 40238758

Receipt Temp = 0 °C

Sample Receipt pH
(OK) / Adjusted

Cooler Custody Seal
Present / ~~Not Present~~
Intact / Not Intact

C019a(27Jun2006)

Version 6.0 06/14/06

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: Kapur Project # 40238758

All containers needing preservation have been checked and noted below: ☒Yes ☐No ☐N/A Initial when completed: SW Date/ Time:

Lab Lot# of pH paper: 110D0104 Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass: AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	Plastic: BP1U	BP3U	BP3B	BP3N	BP3S	Vials: VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	Jars: JGFU	JG9U	WGFU	WPFU	General: SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001										1		1	1															X			X		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

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
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: 26Mar2020
	Document No.: **ENV-FRM-GBAY-0014-Rev.00**	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

Client Name: Kapur & Assoc.

WO#: 40238758

40238758

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

Tracking #: _____

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 - 105 **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 0 /Corr: 0

Temp Blank Present: ☐ yes ☒ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents: Date: 12/22/21 /Initials: SRK

Labeled By Initials: SRK

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

January 21, 2022

Travis Peterson
Kapur & Associates, Inc.
7711 N. Port Washington Road
Milwaukee, WI 53217

RE: Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40239324

Dear Travis Peterson:

Enclosed are the analytical results for sample(s) received by the laboratory on January 12, 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
- Pace Analytical Services - Indianapolis

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

Sincerely,

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Kapur Environmental, Kapur & Associates, Inc.
Ashley Wagner, Kapur & Associates

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40239324

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

Pace Analytical Services Indianapolis
7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Wisconsin Laboratory #: 999788130
USDA Soil Permit #: P330-19-00257

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40239324

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40239324001	**KOWIS**	Water	01/11/22 10:15	01/12/22 07:50

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SAMPLE ANALYTE COUNT

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40239324

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40239324001	**KOWIS**	EPA 200.7	TXW	1	PASI-G
		EPA 200.8	CAW	4	PASI-I
			CDH	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 353.2	DAW	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay
PASI-I = Pace Analytical Services - Indianapolis

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(920)469-2436

ANALYTICAL RESULTS

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40239324

Sample: KOWIS **Lab ID: 40239324001** Collected: 01/11/22 10:15 Received: 01/12/22 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
	Pace Analytical Services - Green Bay								
Magnesium	**49.1**	mg/L	1.0	0.18	1	01/17/22 10:44	01/18/22 11:57	7439-95-4	
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8								
	Pace Analytical Services - Indianapolis								
Arsenic	**2.5**	ug/L	0.59	0.18	1		01/19/22 16:55	7440-38-2	
Chromium	**<0.68**	ug/L	2.3	0.68	1		01/19/22 16:55	7440-47-3	
Lead	**0.22J**	ug/L	0.47	0.14	1		01/19/22 16:55	7439-92-1	
Manganese	**28.4**	ug/L	0.58	0.18	1		01/19/22 16:55	7439-96-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**7.19**	Std. Units			1		01/11/22 10:15		
Field Specific Conductance	**835**	umhos/cm			1		01/11/22 10:15		
Turbidity	**N**	NTU			1		01/11/22 10:15		
Apparent Color	**N**	no units			1		01/11/22 10:15		
Odor	**Y**	no units			1		01/11/22 10:15		
Temperature, Water (C)	**9.5**	deg C			1		01/11/22 10:15		
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**48.0**	mg/L	2.0	0.43	1		01/17/22 22:05	16887-00-6	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
	Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**<0.059**	mg/L	0.25	0.059	1		01/14/22 12:04		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40239324

QC Batch: 658852
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: ICPMS Metals, No Prep
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 40239324001

METHOD BLANK: 3035711 Matrix: Water
Associated Lab Samples: 40239324001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	<0.18	0.59	01/19/22 16:46	
Chromium	ug/L	<0.68	2.3	01/19/22 16:46	
Lead	ug/L	<0.14	0.47	01/19/22 16:46	
Manganese	ug/L	<0.18	0.58	01/19/22 16:46	

LABORATORY CONTROL SAMPLE: 3035712

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	40	41.4	103	85-115	
Chromium	ug/L	40	42.3	106	85-115	
Lead	ug/L	40	40.8	102	85-115	
Manganese	ug/L	40	41.7	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3035713 3035714

Parameter	Units	40239324001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	2.5	40	40	43.2	43.4	102	102	70-130	0	20	
Chromium	ug/L	<0.68	40	40	40.6	41.2	101	102	70-130	1	20	
Lead	ug/L	0.22J	40	40	40.8	41.1	101	102	70-130	1	20	
Manganese	ug/L	28.4	40	40	66.4	67.0	95	97	70-130	1	20	

MATRIX SPIKE SAMPLE: 3035715

Parameter	Units	50306864001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	<1.0	40	42.0	104	70-130	
Chromium	ug/L	<2.0	40	41.7	104	70-130	
Lead	ug/L	2.8	40	44.3	104	70-130	
Manganese	ug/L	<1.0	40	41.2	103	70-130	

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: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40239324

QC Batch: 406325
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40239324001

METHOD BLANK: 2343907 Matrix: Water
Associated Lab Samples: 40239324001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Magnesium	mg/L	<0.18	1.0	01/18/22 11:37	

LABORATORY CONTROL SAMPLE: 2343908

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	mg/L	10	10	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2343909 2343910

Parameter	Units	40239323001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Magnesium	mg/L	40200 ug/L	10	10	50.4	51.4	102	112	70-130	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2343911 2343912

Parameter	Units	40239443001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Magnesium	mg/L	<911 ug/L	10	10	9.9	10.0	99	100	70-130	1	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

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40239324

QC Batch: 406104
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40239324001

METHOD BLANK: 2342698 Matrix: Water
Associated Lab Samples: 40239324001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	01/17/22 15:34	

LABORATORY CONTROL SAMPLE: 2342699

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.1	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2342700 2342701

Parameter	Units	40239329003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	278	200	200	486	483	104	103	90-110	1	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2342702 2342703

Parameter	Units	40239350002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	151	400	400	592	590	110	110	90-110	0	15	

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

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40239324

QC Batch: 406228
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40239324001

METHOD BLANK: 2343296 Matrix: Water
Associated Lab Samples: 40239324001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.059	0.25	01/14/22 11:50	

LABORATORY CONTROL SAMPLE: 2343297

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2343298 2343299

Parameter	Units	40239329001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	17.5	12.5	12.5	30.6	30.6	105	105	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2343300 2343301

Parameter	Units	40239400002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	4.3	2.5	2.5	6.8	6.8	98	98	90-110	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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40239324

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.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40239324

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40239324001	**KOWIS**	EPA 200.7	406325	EPA 200.7	406416
40239324001	**KOWIS**	EPA 200.8	658852		
40239324001	**KOWIS**				
40239324001	**KOWIS**	EPA 300.0	406104		
40239324001	**KOWIS**	EPA 353.2	406228		

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

COC No. 1D239324

Pace Analytical®
www.pacelabs.com

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	Kapur & Associates Inc.
Branch/Location:	Glendale, WI
Project Contact:	Ashley Wagner
Phone:	(414)410-5206
Project Number:	22.0129.01
Project Name:	Barrett Landfill
Project State:	Wisconsin
Sampled By (Print):	Jennifer Skweres
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Ashley Wagner
Mail To Company:	Kapur & Associates Inc.
Mail To Address:	7711 N Port Washington Rd. Milwaukee, WI 53217
Invoice To Contact:	same
Invoice To Company:	as
Invoice To Address:	above
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Biota	DW = Drinking Water
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
SI = Sludge	WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested	Chloride	As, Pb, Cr, Mn, Mg	Nitrate + Nitrite	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
FILTERED? (YES/NO)	Y / N	N	N	N							
PRESERVATION (CODE)*	Pick Letter	A	C	D							
001	Kowis	01/11/22	10:15	DW		X	X	X			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	01/11/21 13:40		
Logistics	1/12/22 750		1/12/22 750

PACE Project No.
1D239324

Receipt Temp = 2.6 °C

Sample Receipt pH
OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

C019a(27Jun2006)

Version 6.0 06/14/06

Sample Preservation Receipt Form

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: Kapur Project # CD239524

All containers needing preservation have been checked and noted below: ☒Yes ☐No ☐N/A Initial when completed: MP Date/ Time:

Lab Lot# of pH paper: 101001L Lab Std #ID of preservation (if pH adjusted):

	Glass								Plastic					Vials						Jars				General							
Pace Lab #	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	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001										1		1	1															X			X		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

1/12/22 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
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

Client Name: Kapur

WO#: 40239324

40239324

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

Tracking #:

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 - 114 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 2.5 /Corr: 2.6

Temp Blank Present: ☐ yes ☒ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents:

Date: 1/12/22 Initials: MP

Labeled By Initials: JP

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

Page 2 of 2

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

January 17, 2022

Travis Peterson
Kapur & Associates, Inc.
7711 N. Port Washington Road
Milwaukee, WI 53217

RE: Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238752

Dear Travis Peterson:

Enclosed are the analytical results for sample(s) received by the laboratory on December 22, 2021. 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
- Pace Analytical Services - Indianapolis

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

Sincerely,

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Kapur Environmental, Kapur & Associates, Inc.
Ashley Wagner, Kapur & Associates

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238752

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Wisconsin Laboratory #: 999788130
USDA Soil Permit #: P330-19-00257

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238752

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40238752001	**RHYNER**	Water	12/20/21 15:36	12/22/21 07:30

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Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238752

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40238752001	**RHYNER**	EPA 200.7	TXW	1	PASI-G
		EPA 200.8	CAW	4	PASI-I
			CDH	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 353.2	DAW	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay
PASI-I = Pace Analytical Services - Indianapolis

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238752

Sample: RHYNER **Lab ID: 40238752001** Collected: 12/20/21 15:36 Received: 12/22/21 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
	Pace Analytical Services - Green Bay								
Magnesium	**49.2**	mg/L	1.0	0.18	1	12/27/21 06:28	12/27/21 22:25	7439-95-4	
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8								
	Pace Analytical Services - Indianapolis								
Arsenic	**0.90**	ug/L	0.59	0.18	1		12/29/21 15:12	7440-38-2	
Chromium	**<0.68**	ug/L	2.3	0.68	1		12/29/21 15:12	7440-47-3	
Lead	**4.4**	ug/L	0.47	0.14	1		12/29/21 15:12	7439-92-1	
Manganese	**40.8**	ug/L	0.58	0.18	1		12/29/21 15:12	7439-96-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**7.21**	Std. Units			1		12/20/21 15:36		
Field Specific Conductance	**838**	umhos/cm			1		12/20/21 15:36		
Turbidity	**N**	NTU			1		12/20/21 15:36		
Apparent Color	**N**	no units			1		12/20/21 15:36		
Odor	**N**	no units			1		12/20/21 15:36		
Temperature, Water (C)	**12.4**	deg C			1		12/20/21 15:36		
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**49.2**	mg/L	2.0	0.43	1		01/05/22 02:23	16887-00-6	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
	Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**<0.059**	mg/L	0.25	0.059	1		01/05/22 10:40		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238752

QC Batch: 656941
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: ICPMS Metals, No Prep
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 40238752001

METHOD BLANK: 3027841 Matrix: Water
Associated Lab Samples: 40238752001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	<0.18	0.59	12/29/21 14:24	
Chromium	ug/L	<0.68	2.3	12/29/21 14:24	
Lead	ug/L	<0.14	0.47	12/29/21 14:24	
Manganese	ug/L	<0.18	0.58	12/29/21 14:24	

LABORATORY CONTROL SAMPLE: 3027842

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	40	41.7	104	85-115	
Chromium	ug/L	40	42.8	107	85-115	
Lead	ug/L	40	42.5	106	85-115	
Manganese	ug/L	40	42.3	106	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3027843 3027844

Parameter	Units	40238757001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	<0.18	40	40	41.5	40.4	103	101	70-130	3	20	
Chromium	ug/L	<0.68	40	40	40.3	39.2	100	97	70-130	3	20	
Lead	ug/L	0.36J	40	40	42.5	41.5	105	103	70-130	2	20	
Manganese	ug/L	0.63	40	40	39.7	38.2	98	94	70-130	4	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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238752

QC Batch: 405005
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238752001

METHOD BLANK: 2337690 Matrix: Water
Associated Lab Samples: 40238752001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Magnesium	mg/L	<0.18	1.0	12/27/21 21:51	

LABORATORY CONTROL SAMPLE: 2337691

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	mg/L	10	10.8	108	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2337692 2337693

Parameter	Units	40238719001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Magnesium	mg/L	42500 ug/L	10	10	51.6	50.4	91	79	70-130	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2337694 2337695

Parameter	Units	40238758001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Magnesium	mg/L	41.7	10	10	52.4	50.5	107	88	70-130	4	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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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(920)469-2436

QUALITY CONTROL DATA

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238752

QC Batch: 405488
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238752001

METHOD BLANK: 2339794 Matrix: Water
Associated Lab Samples: 40238752001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	01/04/22 19:42	

LABORATORY CONTROL SAMPLE: 2339795

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.8	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2339796 2339797

Parameter	Units	40238743002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	461	1000	1000	1570	1550	111	109	90-110	1	15	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2339798 2339799

Parameter	Units	40238755001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	30.8	100	100	140	139	109	109	90-110	0	15	

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238752

QC Batch: 405584
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238752001

METHOD BLANK: 2340179 Matrix: Water
Associated Lab Samples: 40238752001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.059	0.25	01/05/22 10:39	

LABORATORY CONTROL SAMPLE: 2340180

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2340181 2340182

Parameter	Units	40238759001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.059	2.5	2.5	2.4	2.4	97	96	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2340183 2340184

Parameter	Units	40238988005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.70	2.5	2.5	3.1	3.1	97	97	90-110	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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238752

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

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238752

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40238752001	**RHYNER**	EPA 200.7	405005	EPA 200.7	405075
40238752001	**RHYNER**	EPA 200.8	656941		
40238752001	**RHYNER**				
40238752001	**RHYNER**	EPA 300.0	405488		
40238752001	**RHYNER**	EPA 353.2	405584		

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

COC No. 40238752

Pace Analytical®
www.pacelabs.com

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	Kapur & Associates Inc.
Branch/Location:	Glendale, WI
Project Contact:	Ashley Wagner
Phone:	(414)410-5206
Project Number:	~~21.0122.01~~ 22.0129.01
Project Name:	Barrett Landfill
Project State:	Wisconsin
Sampled By (Print):	Jennifer Skweres
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Ashley Wagner
Mail To Company:	Kapur & Associates Inc.
Mail To Address:	7711 N Port Washington Rd. Milwaukee, WI 53217
Invoice To Contact:	same
Invoice To Company:	as
Invoice To Address:	above
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Biota	DW = Drinking Water
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
SI = Sludge	WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested: Chloride	As, Pb, Cr, Mn, Mg	Nitrate + Nitrite	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	FILTERED? (YES/NO)	Y / N			N	N	N			
	PRESERVATION (CODE)*	Pick Letter			A	C	D			
001	Rhyner	12/20/21	15:36	DW	X	X	X			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	12-21-21 5:28		
CS Logistics	12/22/21 0730		12/22/21 0730
		Paul	

PACE Project No.
40238752

Receipt Temp = 0 °C

Sample Receipt pH
OK / Adjusted

Cooler Custody Seal
Present / ~~Not Present~~
Intact / Not Intact

C019a(27Jun2006)

Version 6.0 06/14/06

Client Name: Kapur

Sample Preservation Receipt Form

Project # 40238752

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

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

Lab Lot# of pH paper: 10D0104 Lab Std #ID of preservation (if pH adjusted):

Initial when completed: EW Date/ Time:

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							
001																																	
002																												X			X		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
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019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10
																													12/22/21			2.5 / 5 / 10

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
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40238752

40238752

Client Name: Kapur & Assoc.

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

Tracking #: _____

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 - 105 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 0 /Corr: 0

Temp Blank Present: ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents: Date: 12/22/21 /Initials: SKC

Labeled By Initials: SRK

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

Page 2 of 2

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

January 17, 2022

Travis Peterson
Kapur & Associates, Inc.
7711 N. Port Washington Road
Milwaukee, WI 53217

RE: Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238751

Dear Travis Peterson:

Enclosed are the analytical results for sample(s) received by the laboratory on December 22, 2021. 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
- Pace Analytical Services - Indianapolis

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

Sincerely,

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Kapur Environmental, Kapur & Associates, Inc.
Ashley Wagner, Kapur & Associates

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238751

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Wisconsin Laboratory #: 999788130
USDA Soil Permit #: P330-19-00257

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238751

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40238751001	**SANCHEZ**	Water	12/20/21 16:05	12/22/21 07:30

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SAMPLE ANALYTE COUNT

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238751

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40238751001	**SANCHEZ**	EPA 200.7	TXW	1	PASI-G
		EPA 200.8	CAW	4	PASI-I
			CDH	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 353.2	DAW	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay
PASI-I = Pace Analytical Services - Indianapolis

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238751

Sample: SANCHEZ **Lab ID: 40238751001** Collected: 12/20/21 16:05 Received: 12/22/21 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
	Pace Analytical Services - Green Bay								
Magnesium	**48.5**	mg/L	1.0	0.18	1	12/27/21 06:28	12/27/21 22:22	7439-95-4	
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8								
	Pace Analytical Services - Indianapolis								
Arsenic	**5.5**	ug/L	0.59	0.18	1		12/29/21 15:07	7440-38-2	
Chromium	**<0.68**	ug/L	2.3	0.68	1		12/29/21 15:07	7440-47-3	
Lead	**2.1**	ug/L	0.47	0.14	1		12/29/21 15:07	7439-92-1	
Manganese	**58.3**	ug/L	0.58	0.18	1		12/29/21 15:07	7439-96-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**7.59**	Std. Units			1		12/20/21 16:05		
Field Specific Conductance	**847**	umhos/cm			1		12/20/21 16:05		
Turbidity	**N**	NTU			1		12/20/21 16:05		
Apparent Color	**N**	no units			1		12/20/21 16:05		
Odor	**N**	no units			1		12/20/21 16:05		
Temperature, Water (C)	**10.7**	deg C			1		12/20/21 16:05		
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**53.0**	mg/L	2.0	0.43	1		01/05/22 02:08	16887-00-6	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
	Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**<0.059**	mg/L	0.25	0.059	1		01/04/22 13:15		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238751

QC Batch: 656941
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: ICPMS Metals, No Prep
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 40238751001

METHOD BLANK: 3027841 Matrix: Water
Associated Lab Samples: 40238751001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	<0.18	0.59	12/29/21 14:24	
Chromium	ug/L	<0.68	2.3	12/29/21 14:24	
Lead	ug/L	<0.14	0.47	12/29/21 14:24	
Manganese	ug/L	<0.18	0.58	12/29/21 14:24	

LABORATORY CONTROL SAMPLE: 3027842

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	40	41.7	104	85-115	
Chromium	ug/L	40	42.8	107	85-115	
Lead	ug/L	40	42.5	106	85-115	
Manganese	ug/L	40	42.3	106	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3027843 3027844

Parameter	Units	40238757001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	<0.18	40	40	41.5	40.4	103	101	70-130	3	20	
Chromium	ug/L	<0.68	40	40	40.3	39.2	100	97	70-130	3	20	
Lead	ug/L	0.36J	40	40	42.5	41.5	105	103	70-130	2	20	
Manganese	ug/L	0.63	40	40	39.7	38.2	98	94	70-130	4	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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238751

QC Batch: 405005
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238751001

METHOD BLANK: 2337690 Matrix: Water
Associated Lab Samples: 40238751001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Magnesium	mg/L	<0.18	1.0	12/27/21 21:51	

LABORATORY CONTROL SAMPLE: 2337691

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	mg/L	10	10.8	108	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2337692 2337693

Parameter	Units	40238719001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Magnesium	mg/L	42500 ug/L	10	10	51.6	50.4	91	79	70-130	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2337694 2337695

Parameter	Units	40238758001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Magnesium	mg/L	41.7	10	10	52.4	50.5	107	88	70-130	4	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

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238751

QC Batch: 405488
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238751001

METHOD BLANK: 2339794 Matrix: Water
Associated Lab Samples: 40238751001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	01/04/22 19:42	

LABORATORY CONTROL SAMPLE: 2339795

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.8	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2339796 2339797

Parameter	Units	40238743002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	461	1000	1000	1570	1550	111	109	90-110	1	15	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2339798 2339799

Parameter	Units	40238755001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	30.8	100	100	140	139	109	109	90-110	0	15	

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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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238751

QC Batch: 405525
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238751001

METHOD BLANK: 2339925 Matrix: Water
Associated Lab Samples: 40238751001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.059	0.25	01/04/22 12:56	

LABORATORY CONTROL SAMPLE: 2339926

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.4	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2339927 2339928

Parameter	Units	40238524006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.059	2.5	2.5	2.4	2.4	96	96	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2339929 2339930

Parameter	Units	40238751001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.059	2.5	2.5	2.3	2.3	93	93	90-110	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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238751

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

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238751

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40238751001	**SANCHEZ**	EPA 200.7	405005	EPA 200.7	405075
40238751001	**SANCHEZ**	EPA 200.8	656941		
40238751001	**SANCHEZ**				
40238751001	**SANCHEZ**	EPA 300.0	405488		
40238751001	**SANCHEZ**	EPA 353.2	405525		

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

COC No. 40238751

Pace Analytical®
www.pacelabs.com

CHAIN OF CUSTODY

(Please Print Clearly)	
Company Name:	Kapur & Associates Inc.
Branch/Location:	Glendale, WI
Project Contact:	Ashley Wagner
Phone:	(414)410-5206
Project Number:	~~21.0122.01~~ 22.0129.01
Project Name:	Barrett Landfill
Project State:	Wisconsin
Sampled By (Print):	Jennifer Skweres
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Ashley Wagner
Mail To Company:	Kapur & Associates Inc.
Mail To Address:	7711 N Port Washington Rd. Milwaukee, WI 53217
Invoice To Contact:	same
Invoice To Company:	as
Invoice To Address:	above
Invoice To Phone:	

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested: Chloride	As, Pb, Cr, Mn, Mg	Nitrate + Nitrite	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	FILTERED? (YES/NO)	Y/N			N	N	N			
	PRESERVATION (CODE)*	Pick Letter			A	C	D			
001	Sanchez	12/20/21	16:05	DW	X	X	X			

Relinquished By:	Date/Time:	Received By:	Date/Time:
	12-21-21 15:28		
	12/22/21 0730		12/22/21 0730

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

PACE Project No. 40238751

Receipt Temp = 0 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / ~~Not Present~~ Intact / Not Intact

C019a(27Jun2006)

Version 6.0 06/14/06

Client Name: Kapur

Sample Preservation Receipt Form

Project # 40238751

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

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

Lab Lot# of pH paper: 710D0104 Lab Std #ID of preservation (if pH adjusted):

Initial when completed: SW Date/ Time:

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							
001										1		1	1																				2.5 / 5 / 10
002	1																											X			X		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
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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																													12/23/21 SW				2.5 / 5 / 10

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
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO#: 40238751

40238751

Client Name: Kapur & Assoc.

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

Tracking #:

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 - 105 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 0 /Corr: 0

Temp Blank Present: ☐ yes ☒ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents: Date: 12/22/21 /Initials: SKC

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

Labeled By Initials: SRK

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

January 17, 2022

Travis Peterson
Kapur & Associates, Inc.
7711 N. Port Washington Road
Milwaukee, WI 53217

RE: Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238536

Dear Travis Peterson:

Enclosed are the analytical results for sample(s) received by the laboratory on December 17, 2021. 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
- Pace Analytical Services - Indianapolis

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

Sincerely,

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Kapur Environmental, Kapur & Associates, Inc.
Ashley Wagner, Kapur & Associates

Pace Analytical Services, LLC
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(920)469-2436

CERTIFICATIONS

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238536

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Wisconsin Laboratory #: 999788130
USDA Soil Permit #: P330-19-00257

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SAMPLE SUMMARY

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238536

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40238536001	**SANFELIPPO**	Water	12/15/21 13:50	12/17/21 07:50

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SAMPLE ANALYTE COUNT

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238536

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40238536001	**SANFELIPPO**	EPA 200.7	TXW	1	PASI-G
		EPA 200.8	CAW	4	PASI-I
			CDH	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 353.2	DAW	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay
PASI-I = Pace Analytical Services - Indianapolis

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ANALYTICAL RESULTS

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238536

Sample: SANFELIPPO **Lab ID: 40238536001** Collected: 12/15/21 13:50 Received: 12/17/21 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
	Pace Analytical Services - Green Bay								
Magnesium	**45.0**	mg/L	1.0	0.18	1	12/22/21 06:16	12/27/21 23:49	7439-95-4	
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8								
	Pace Analytical Services - Indianapolis								
Arsenic	**3.7**	ug/L	0.58	0.17	1		12/27/21 14:16	7440-38-2	
Chromium	**1.8**	ug/L	0.34	0.10	1		12/27/21 14:16	7440-47-3	
Lead	**1.9**	ug/L	0.47	0.14	1		12/27/21 14:16	7439-92-1	
Manganese	**75.5**	ug/L	0.58	0.18	1		12/27/21 14:16	7439-96-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**7.33**	Std. Units			1		12/15/21 13:50		
Field Specific Conductance	**761**	umhos/cm			1		12/15/21 13:50		
Turbidity	**N**	NTU			1		12/15/21 13:50		
Apparent Color	**N**	no units			1		12/15/21 13:50		
Odor	**N**	no units			1		12/15/21 13:50		
Temperature, Water (C)	**12.5**	deg C			1		12/15/21 13:50		
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**21.9**	mg/L	2.0	0.43	1		01/03/22 14:54	16887-00-6	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
	Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**<0.059**	mg/L	0.25	0.059	1		01/04/22 13:05		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238536

QC Batch: 656454
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: ICPMS Metals, No Prep
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 40238536001

METHOD BLANK: 3026468 Matrix: Water
Associated Lab Samples: 40238536001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	<0.17	0.58	12/27/21 14:06	
Chromium	ug/L	<0.10	0.34	12/27/21 14:06	
Lead	ug/L	<0.14	0.47	12/27/21 14:06	
Manganese	ug/L	<0.18	0.58	12/27/21 14:06	

LABORATORY CONTROL SAMPLE: 3026469

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	40	41.6	104	85-115	
Chromium	ug/L	40	42.4	106	85-115	
Lead	ug/L	40	42.4	106	85-115	
Manganese	ug/L	40	41.7	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3026470 3026471

Parameter	Units	40238535001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	0.25J	40	40	40.6	40.8	101	101	70-130	1	20	
Chromium	ug/L	0.63	40	40	40.5	41.1	100	101	70-130	1	20	
Lead	ug/L	6.9	40	40	48.7	50.2	105	108	70-130	3	20	
Manganese	ug/L	16.5	40	40	54.3	55.2	95	97	70-130	2	20	

MATRIX SPIKE SAMPLE: 3026834

Parameter	Units	10592237001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	1.0	40	40.6	99	70-130	
Chromium	ug/L	0.22J	40	39.5	98	70-130	
Lead	ug/L	0.18J	40	40.6	101	70-130	
Manganese	ug/L	0.33J	40	39.0	97	70-130	

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: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238536

QC Batch: 404824
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238536001

METHOD BLANK: 2336579 Matrix: Water
Associated Lab Samples: 40238536001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Magnesium	mg/L	<0.18	1.0	12/27/21 23:16	

LABORATORY CONTROL SAMPLE: 2336580

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	mg/L	10	10.4	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2336581 2336582

Parameter	Units	10591903001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Magnesium	mg/L	1430 ug/L	10	10	11.7	11.3	103	99	70-130	4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2336583 2336584

Parameter	Units	40238655005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Magnesium	mg/L	51300 ug/L	10	10	60.2	60.1	90	89	70-130	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: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238536

QC Batch: 405310
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238536001

METHOD BLANK: 2339094 Matrix: Water
Associated Lab Samples: 40238536001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	01/03/22 11:11	

LABORATORY CONTROL SAMPLE: 2339095

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	18.8	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2339096 2339097

Parameter	Units	40238524004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	6.9J	100	100	110	111	103	104	90-110	1	15	

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: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238536

QC Batch: 405525
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238536001

METHOD BLANK: 2339925 Matrix: Water
Associated Lab Samples: 40238536001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.059	0.25	01/04/22 12:56	

LABORATORY CONTROL SAMPLE: 2339926

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.4	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2339927 2339928

Parameter	Units	40238524006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.059	2.5	2.5	2.4	2.4	96	96	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2339929 2339930

Parameter	Units	40238751001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.059	2.5	2.5	2.3	2.3	93	93	90-110	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

Pace Analytical Services, LLC
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QUALIFIERS

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238536

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.

Pace Analytical Services, LLC
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(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238536

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40238536001	**SANFELIPPO**	EPA 200.7	404824	EPA 200.7	404898
40238536001	**SANFELIPPO**	EPA 200.8	656454		
40238536001	**SANFELIPPO**				
40238536001	**SANFELIPPO**	EPA 300.0	405310		
40238536001	**SANFELIPPO**	EPA 353.2	405525		

(Please Print Clearly)	
Company Name:	Kapur & Associates Inc.
Branch/Location:	Glendale, WI
Project Contact:	Ashley Wagner
Phone:	(414)410-5206
Project Number:	21.0122.01
Project Name:	Barrett Landfill
Project State:	Wisconsin
Sampled By (Print):	Jennifer Skweres
Sampled By (Sign):	
PO #:	Regulatory Program:

Pace Analytical®
www.pacelabs.com

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

COC No. 400-585536

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:	
Mail To Contact:	Travis Peterson
Mail To Company:	Kapur & Associates Inc.
Mail To Address:	7711 N Port Washington Rd. Milwaukee, WI 53217
Invoice To Contact:	same
Invoice To Company:	as
Invoice To Address:	above
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Biota	DW = Drinking Water
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
SI = Sludge	WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested: Chloride	As, Pb, Cr, Mn, Mg	Nitrate + Nitrite	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	FILTERED? (YES/NO)	Y / N			N	N	N			
	PRESERVATION (CODE)*	Pick Letter			A	C	D			
001	Sanfelippo	12/15/21	13:50	DW	X	X	X			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	12/16/21 16:46		
CS Logistics	12/17/21 0752	Susan Ulfe Pace	12/17/21 0752

PACE Project No. 400-585536

Receipt Temp = 4.4 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present

Intact / Not Intact

C019a(27Jun2006)

Version 6.0 06/14/06

Sample Preservation Receipt Form

Client Name: Kapur

Project # WO#:385536

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

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

Lab Lot# of pH paper: 10D0104 Lab Std #ID of preservation (if pH adjusted):

Initial when completed: SAL Date/ Time:

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							
001										1		1	1																				2.5 / 5 / 10
002																												X			X		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
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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

12/7/20 SAL

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
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: Kapur & Assoc Project #:

WO# : 40238536

40238536

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

Tracking #:

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 - 105 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 4.4 /Corr: 4.4

Temp Blank Present: ☒ yes ☐ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents: Date: 12/17/21 /Initials: SKW

Labeled By Initials: SRK

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

Page 2 of 2

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

January 17, 2022

Travis Peterson
Kapur & Associates, Inc.
7711 N. Port Washington Road
Milwaukee, WI 53217

RE: Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238755

Dear Travis Peterson:

Enclosed are the analytical results for sample(s) received by the laboratory on December 22, 2021. 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
- Pace Analytical Services - Indianapolis

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

Sincerely,

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Kapur Environmental, Kapur & Associates, Inc.
Ashley Wagner, Kapur & Associates

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238755

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

Pace Analytical Services Indianapolis
7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Wisconsin Laboratory #: 999788130
USDA Soil Permit #: P330-19-00257

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238755

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40238755001	**SCHMIDT**	Water	12/20/21 10:15	12/22/21 07:30

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SAMPLE ANALYTE COUNT

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238755

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40238755001	**SCHMIDT**	EPA 200.7	TXW	1	PASI-G
		EPA 200.8	CAW	4	PASI-I
			CDH	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 353.2	DAW	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay
PASI-I = Pace Analytical Services - Indianapolis

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238755

Sample: SCHMIDT **Lab ID: 40238755001** Collected: 12/20/21 10:15 Received: 12/22/21 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
	Pace Analytical Services - Green Bay								
Magnesium	**46.8**	mg/L	1.0	0.18	1	12/27/21 06:28	12/27/21 22:30	7439-95-4	
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8								
	Pace Analytical Services - Indianapolis								
Arsenic	**7.7**	ug/L	0.59	0.18	1		12/29/21 15:02	7440-38-2	
Chromium	**1.2J**	ug/L	2.3	0.68	1		12/29/21 15:02	7440-47-3	
Lead	**1.1**	ug/L	0.47	0.14	1		12/29/21 15:02	7439-92-1	
Manganese	**14.6**	ug/L	0.58	0.18	1		12/29/21 15:02	7439-96-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**7.23**	Std. Units			1		12/20/21 10:15		
Field Specific Conductance	**780**	umhos/cm			1		12/20/21 10:15		
Turbidity	**N**	NTU			1		12/20/21 10:15		
Apparent Color	**Y**	no units			1		12/20/21 10:15		
Odor	**Y**	no units			1		12/20/21 10:15		
Temperature, Water (C)	**10.2**	deg C			1		12/20/21 10:15		
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**30.8**	mg/L	10.0	2.2	5		01/05/22 02:52	16887-00-6	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
	Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**<0.059**	mg/L	0.25	0.059	1		01/05/22 10:41		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238755

QC Batch: 656941
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: ICPMS Metals, No Prep
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 40238755001

METHOD BLANK: 3027841 Matrix: Water
Associated Lab Samples: 40238755001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	<0.18	0.59	12/29/21 14:24	
Chromium	ug/L	<0.68	2.3	12/29/21 14:24	
Lead	ug/L	<0.14	0.47	12/29/21 14:24	
Manganese	ug/L	<0.18	0.58	12/29/21 14:24	

LABORATORY CONTROL SAMPLE: 3027842

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	40	41.7	104	85-115	
Chromium	ug/L	40	42.8	107	85-115	
Lead	ug/L	40	42.5	106	85-115	
Manganese	ug/L	40	42.3	106	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3027843 3027844

Parameter	Units	40238757001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	<0.18	40	40	41.5	40.4	103	101	70-130	3	20	
Chromium	ug/L	<0.68	40	40	40.3	39.2	100	97	70-130	3	20	
Lead	ug/L	0.36J	40	40	42.5	41.5	105	103	70-130	2	20	
Manganese	ug/L	0.63	40	40	39.7	38.2	98	94	70-130	4	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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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(920)469-2436

QUALITY CONTROL DATA

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238755

QC Batch: 405005
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238755001

METHOD BLANK: 2337690 Matrix: Water
Associated Lab Samples: 40238755001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Magnesium	mg/L	<0.18	1.0	12/27/21 21:51	

LABORATORY CONTROL SAMPLE: 2337691

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	mg/L	10	10.8	108	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2337692 2337693

Parameter	Units	40238719001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Magnesium	mg/L	42500 ug/L	10	10	51.6	50.4	91	79	70-130	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2337694 2337695

Parameter	Units	40238758001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Magnesium	mg/L	41.7	10	10	52.4	50.5	107	88	70-130	4	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

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238755

QC Batch: 405488
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238755001

METHOD BLANK: 2339794 Matrix: Water
Associated Lab Samples: 40238755001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	01/04/22 19:42	

LABORATORY CONTROL SAMPLE: 2339795

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.8	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2339796 2339797

Parameter	Units	40238743002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	461	1000	1000	1570	1550	111	109	90-110	1	15	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2339798 2339799

Parameter	Units	40238755001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	30.8	100	100	140	139	109	109	90-110	0	15	

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238755

QC Batch: 405584
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238755001

METHOD BLANK: 2340179 Matrix: Water
Associated Lab Samples: 40238755001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.059	0.25	01/05/22 10:39	

LABORATORY CONTROL SAMPLE: 2340180

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2340181 2340182

Parameter	Units	40238759001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.059	2.5	2.5	2.4	2.4	97	96	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2340183 2340184

Parameter	Units	40238988005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.70	2.5	2.5	3.1	3.1	97	97	90-110	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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238755

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

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238755

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40238755001	**SCHMIDT**	EPA 200.7	405005	EPA 200.7	405075
40238755001	**SCHMIDT**	EPA 200.8	656941		
40238755001	**SCHMIDT**				
40238755001	**SCHMIDT**	EPA 300.0	405488		
40238755001	**SCHMIDT**	EPA 353.2	405584		

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

COC No. 40238755

Pace Analytical®
www.pacelabs.com

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	Kapur & Associates Inc.
Branch/Location:	Glendale, WI
Project Contact:	Ashley Wagner
Phone:	(414)410-5206
Project Number:	~~21.0122.01~~ 22.0129.01
Project Name:	Barrett Landfill
Project State:	Wisconsin
Sampled By (Print):	Jennifer Skweres
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Ashley Wagner
Mail To Company:	Kapur & Associates Inc.
Mail To Address:	7711 N Port Washington Rd. Milwaukee, WI 53217
Invoice To Contact:	same
Invoice To Company:	as
Invoice To Address:	above
Invoice To Phone:	

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☐ NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Biota	DW = Drinking Water
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
Sl = Sludge	WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested: Chloride	As, Pb, Cr, Mn, Mg	Nitrate + Nitrite	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	FILTERED? (YES/NO)	Y / N			N	N	N			
	PRESERVATION (CODE)*	Pick Letter			A	C	D			
001	Schmidt	12/20/21	10:15	DW	X	X	X	GEMS ID 952		

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	12-21-21 15:28		
C S Logsdon	12/22/21 0730	Susan K Ulke	12/22/21 0730

PACE Project No.
40238755

Receipt Temp = 0 °C

Sample Receipt pH
(OK) / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

Client Name: Kapur

Sample Preservation Receipt Form

Project # 40238755

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

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

Lab Lot# of pH paper: 10D0104 Lab Std #ID of preservation (if pH adjusted):

Initial when completed: DW Date/ Time:

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						
001																																2.5 / 5 / 10
002																												X			X	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
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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

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
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: Kapur & Assoc. Project #:

WO# : 40238755

40238755

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

Tracking #: _____

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 - 105 **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 0 /Corr: 0

Person examining contents: Date: 12/22/21 /Initials: SKC

Temp Blank Present: ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Labeled By Initials: SRK

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

Page 2 of 2

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

January 17, 2022

Travis Peterson
Kapur & Associates, Inc.
7711 N. Port Washington Road
Milwaukee, WI 53217

RE: Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238759

Dear Travis Peterson:

Enclosed are the analytical results for sample(s) received by the laboratory on December 22, 2021. 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
- Pace Analytical Services - Indianapolis

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

Sincerely,

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Kapur Environmental, Kapur & Associates, Inc.
Ashley Wagner, Kapur & Associates

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238759

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

Pace Analytical Services Indianapolis
7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Wisconsin Laboratory #: 999788130
USDA Soil Permit #: P330-19-00257

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238759

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40238759001	**SERVI**	Water	12/20/21 10:00	12/22/21 07:30

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(920)469-2436

SAMPLE ANALYTE COUNT

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238759

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40238759001	**SERVI**	EPA 200.7	TXW	1	PASI-G
		EPA 200.8	CAW	4	PASI-I
			CDH	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 353.2	DAW	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay
PASI-I = Pace Analytical Services - Indianapolis

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238759

Sample: SERVI **Lab ID: 40238759001** Collected: 12/20/21 10:00 Received: 12/22/21 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Green Bay								
Magnesium	**56.8**	mg/L	1.0	0.18	1	12/27/21 06:28	12/27/21 22:49	7439-95-4	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Indianapolis								
Arsenic	**0.48J**	ug/L	0.59	0.18	1	01/05/22 09:35	01/05/22 15:13	7440-38-2	N2
Chromium	**<0.68**	ug/L	2.3	0.68	1	01/05/22 09:35	01/05/22 15:13	7440-47-3	N2
Lead	**1.2**	ug/L	0.47	0.14	1	01/05/22 09:35	01/05/22 15:13	7439-92-1	N2
Manganese	**35.2**	ug/L	0.58	0.18	1	01/05/22 09:35	01/05/22 15:13	7439-96-5	N2
Field Data	Analytical Method: Pace Analytical Services - Green Bay								
Field pH	**7.26**	Std. Units			1		12/20/21 10:00		
Field Specific Conductance	**1335**	umhos/cm			1		12/20/21 10:00		
Turbidity	**N**	NTU			1		12/20/21 10:00		
Apparent Color	**N**	no units			1		12/20/21 10:00		
Odor	**N**	no units			1		12/20/21 10:00		
Temperature, Water (C)	**8.3**	deg C			1		12/20/21 10:00		
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride	**212**	mg/L	20.0	4.3	10		01/05/22 15:21	16887-00-6	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**<0.059**	mg/L	0.25	0.059	1		01/05/22 10:43		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238759

QC Batch: 405005
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238759001

METHOD BLANK: 2337690 Matrix: Water
Associated Lab Samples: 40238759001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Magnesium	mg/L	<0.18	1.0	12/27/21 21:51	

LABORATORY CONTROL SAMPLE: 2337691

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	mg/L	10	10.8	108	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2337692 2337693

Parameter	Units	40238719001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Magnesium	mg/L	42500 ug/L	10	10	51.6	50.4	91	79	70-130	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2337694 2337695

Parameter	Units	40238758001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Magnesium	mg/L	41.7	10	10	52.4	50.5	107	88	70-130	4	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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238759

QC Batch: 657542
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 40238759001

METHOD BLANK: 3030060 Matrix: Water
Associated Lab Samples: 40238759001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	<0.18	0.59	01/05/22 14:59	N2
Chromium	ug/L	<0.68	2.3	01/05/22 14:59	N2
Lead	ug/L	<0.14	0.47	01/05/22 14:59	N2
Manganese	ug/L	<0.18	0.58	01/05/22 14:59	N2

LABORATORY CONTROL SAMPLE: 3030061

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	40	38.8	97	85-115	N2
Chromium	ug/L	40	41.1	103	85-115	N2
Lead	ug/L	40	41.2	103	85-115	N2
Manganese	ug/L	40	41.0	102	85-115	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3030062 3030063

Parameter	Units	40238759001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	0.48J	40	40	39.3	39.4	97	97	70-130	0	20	N2
Chromium	ug/L	<0.68	40	40	41.1	40.4	101	100	70-130	2	20	N2
Lead	ug/L	1.2	40	40	44.3	43.9	108	107	70-130	1	20	N2
Manganese	ug/L	35.2	40	40	75.1	73.1	100	95	70-130	3	20	N2

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238759

QC Batch: 405559
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238759001

METHOD BLANK: 2340078 Matrix: Water
Associated Lab Samples: 40238759001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	01/05/22 12:07	

LABORATORY CONTROL SAMPLE: 2340079

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	18.9	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2340080 2340081

Parameter	Units	40238757001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	54.3	100	100	173	170	119	116	90-110	1	15	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2340082 2340083

Parameter	Units	40238890001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	466	400	400	942	923	119	114	90-110	2	15	M0

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238759

QC Batch: 405584
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238759001

METHOD BLANK: 2340179 Matrix: Water
Associated Lab Samples: 40238759001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.059	0.25	01/05/22 10:39	

LABORATORY CONTROL SAMPLE: 2340180

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2340181 2340182

Parameter	Units	40238759001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.059	2.5	2.5	2.4	2.4	97	96	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2340183 2340184

Parameter	Units	40238988005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.70	2.5	2.5	3.1	3.1	97	97	90-110	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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238759

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

M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238759

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40238759001	**SERVI**	EPA 200.7	405005	EPA 200.7	405075
40238759001	**SERVI**	EPA 200.8	657542	EPA 200.8	657598
40238759001	**SERVI**				
40238759001	**SERVI**	EPA 300.0	405559		
40238759001	**SERVI**	EPA 353.2	405584		

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Pace Analytical®
www.pacelabs.com

COC No. 40238759

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	Kapur & Associates Inc.
Branch/Location:	Glendale, WI
Project Contact:	Ashley Wagner
Phone:	(414)410-5206
Project Number:	~~21.0122.01~~ 22.0129.01
Project Name:	Barrett Landfill
Project State:	Wisconsin
Sampled By (Print):	Jennifer Skweres
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Ashley Wagner
Mail To Company:	Kapur & Associates Inc.
Mail To Address:	7711 N Port Washington Rd. Milwaukee, WI 53217
Invoice To Contact:	same
Invoice To Company:	as
Invoice To Address:	above
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SL = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested: Chloride	As, Pb, Cr, Mn, Mg	Nitrate + Nitrite	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	FILTERED? (YES/NO)				N	N	N			
	PRESERVATION (CODE)*				A	C	D			
001	Servi	12/20/21	10:00	DW	X	X	X			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	12-21-21 15:28		
C&S Logistics	12/22/21 0730	Susan K Wylie	12/22/21 0730

PACE Project No. 40238759

Receipt Temp = 0 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal
Present / ~~Not Present~~
Intact / Not Intact

Sample Preservation Receipt Form

Client Name: Kapur

Project # 40238759

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

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

Lab Lot# of pH paper: 10D0104 Lab Std #ID of preservation (if pH adjusted):

Initial when completed: DW Date/ Time:

	Glass								Plastic					Vials						Jars				General									
Pace Lab #	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	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001										/		/	/															X			X		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
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017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

12/22/21 1800 DW

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

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: Kapur & Assoc. Project #:

WO# : 40238759

40238759

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

Tracking #:

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 - 105 Type of Ice: (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 0 /Corr: 0

Temp Blank Present: ☐ yes ☒ no Biological Tissue is Frozen: ☐ yes ☐ no

Person examining contents: Date: 12/22/21 /Initials: SKL

Labeled By Initials: SRK

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

January 17, 2022

Travis Peterson
Kapur & Associates, Inc.
7711 N. Port Washington Road
Milwaukee, WI 53217

RE: Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238532

Dear Travis Peterson:

Enclosed are the analytical results for sample(s) received by the laboratory on December 17, 2021. 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
- Pace Analytical Services - Indianapolis

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

Sincerely,

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Kapur Environmental, Kapur & Associates, Inc.
Ashley Wagner, Kapur & Associates

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238532

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

Pace Analytical Services Indianapolis
7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Wisconsin Laboratory #: 999788130
USDA Soil Permit #: P330-19-00257

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Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238532

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40238532001	**SRI LAKSHMI NARASIMHA TEMPLE**	Water	12/14/21 09:15	12/17/21 07:50

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SAMPLE ANALYTE COUNT

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238532

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40238532001	**SRI LAKSHMI NARASIMHA TEMPLE**	EPA 200.7	TXW	1	PASI-G
		EPA 200.8	CAW	4	PASI-I
			CDH	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 353.2	DAW	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay
PASI-I = Pace Analytical Services - Indianapolis

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ANALYTICAL RESULTS

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238532

Sample: SRI LAKSHMI NARASIMHA TEMPLE **Lab ID: 40238532001** Collected: 12/14/21 09:15 Received: 12/17/21 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
	Pace Analytical Services - Green Bay								
Magnesium	**<0.18**	mg/L	1.0	0.18	1	12/22/21 06:16	12/27/21 23:36	7439-95-4	
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8								
	Pace Analytical Services - Indianapolis								
Arsenic	**0.85**	ug/L	0.58	0.17	1		12/27/21 14:21	7440-38-2	
Chromium	**0.45**	ug/L	0.34	0.10	1		12/27/21 14:21	7440-47-3	
Lead	**<0.14**	ug/L	0.47	0.14	1		12/27/21 14:21	7439-92-1	
Manganese	**0.63**	ug/L	0.58	0.18	1		12/27/21 14:21	7439-96-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**7.97**	Std. Units			1		12/14/21 09:15		
Field Specific Conductance	**1035**	umhos/cm			1		12/14/21 09:15		
Turbidity	**N**	NTU			1		12/14/21 09:15		
Apparent Color	**N**	no units			1		12/14/21 09:15		
Odor	**N**	no units			1		12/14/21 09:15		
Temperature, Water (C)	**11.9**	deg C			1		12/14/21 09:15		
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**166**	mg/L	20.0	4.3	10		01/04/22 07:31	16887-00-6	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
	Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**<0.059**	mg/L	0.25	0.059	1		01/04/22 13:02		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238532

QC Batch: 656454
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: ICPMS Metals, No Prep
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 40238532001

METHOD BLANK: 3026468 Matrix: Water
Associated Lab Samples: 40238532001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	<0.17	0.58	12/27/21 14:06	
Chromium	ug/L	<0.10	0.34	12/27/21 14:06	
Lead	ug/L	<0.14	0.47	12/27/21 14:06	
Manganese	ug/L	<0.18	0.58	12/27/21 14:06	

LABORATORY CONTROL SAMPLE: 3026469

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	40	41.6	104	85-115	
Chromium	ug/L	40	42.4	106	85-115	
Lead	ug/L	40	42.4	106	85-115	
Manganese	ug/L	40	41.7	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3026470 3026471

Parameter	Units	40238535001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	0.25J	40	40	40.6	40.8	101	101	70-130	1	20	
Chromium	ug/L	0.63	40	40	40.5	41.1	100	101	70-130	1	20	
Lead	ug/L	6.9	40	40	48.7	50.2	105	108	70-130	3	20	
Manganese	ug/L	16.5	40	40	54.3	55.2	95	97	70-130	2	20	

MATRIX SPIKE SAMPLE: 3026834

Parameter	Units	10592237001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	1.0	40	40.6	99	70-130	
Chromium	ug/L	0.22J	40	39.5	98	70-130	
Lead	ug/L	0.18J	40	40.6	101	70-130	
Manganese	ug/L	0.33J	40	39.0	97	70-130	

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: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238532

QC Batch: 404824
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238532001

METHOD BLANK: 2336579 Matrix: Water
Associated Lab Samples: 40238532001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Magnesium	mg/L	<0.18	1.0	12/27/21 23:16	

LABORATORY CONTROL SAMPLE: 2336580

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	mg/L	10	10.4	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2336581 2336582

Parameter	Units	10591903001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Magnesium	mg/L	1430 ug/L	10	10	11.7	11.3	103	99	70-130	4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2336583 2336584

Parameter	Units	40238655005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Magnesium	mg/L	51300 ug/L	10	10	60.2	60.1	90	89	70-130	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238532

QC Batch: 405310
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238532001

METHOD BLANK: 2339094 Matrix: Water
Associated Lab Samples: 40238532001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	01/03/22 11:11	

LABORATORY CONTROL SAMPLE: 2339095

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	18.8	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2339096 2339097

Parameter	Units	40238524004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	6.9J	100	100	110	111	103	104	90-110	1	15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238532

QC Batch: 405525
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238532001

METHOD BLANK: 2339925 Matrix: Water
Associated Lab Samples: 40238532001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.059	0.25	01/04/22 12:56	

LABORATORY CONTROL SAMPLE: 2339926

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.4	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2339927 2339928

Parameter	Units	40238524006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.059	2.5	2.5	2.4	2.4	96	96	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2339929 2339930

Parameter	Units	40238751001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.059	2.5	2.5	2.3	2.3	93	93	90-110	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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QUALIFIERS

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238532

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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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238532

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40238532001	**SRI LAKSHMI NARASIMHA TEMPLE**	EPA 200.7	404824	EPA 200.7	404898
40238532001	**SRI LAKSHMI NARASIMHA TEMPLE**	EPA 200.8	656454		
40238532001	**SRI LAKSHMI NARASIMHA TEMPLE**				
40238532001	**SRI LAKSHMI NARASIMHA TEMPLE**	EPA 300.0	405310		
40238532001	**SRI LAKSHMI NARASIMHA TEMPLE**	EPA 353.2	405525		

Pace Analytical®
www.pacelabs.com

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

COC No. UD-38532 12/17/21 CDW

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	Kapur & Associates Inc.
Branch/Location:	Glendale, WI
Project Contact:	Ashley Wagner
Phone:	(414)410-5206
Project Number:	21.0122.01
Project Name:	Barrett Landfill
Project State:	Wisconsin
Sampled By (Print):	Jennifer Skweres
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Travis Peterson
Mail To Company:	Kapur & Associates Inc.
Mail To Address:	7711 N Port Washington Rd. Milwaukee, WI 53217
Invoice To Contact:	same
Invoice To Company:	as
Invoice To Address:	above
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested: Chloride	As, Pb, Cr, Mn, Mg	Nitrate + Nitrite	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
FILTERED? (YES/NO)	Y / N	N	N	N						
PRESERVATION (CODE)*	Pick Letter	A	C	D						
061	Sri Lakshmi Narasimha Temple	12/14/21	9:15	DW	X	X	X			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	12/16/21 16:46		
	12/17/21 0750	Susan Kluge	12/17/21 0750

PACE Project No. UD-38532

Receipt Temp = 4.4 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present

Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

Sample Preservation Receipt Form

Client Name: Kapur

Project # 402-38532

Pace Analytical Services, LLC
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All containers needing preservation have been checked and noted below: ☐Yes ☐No ☐N/A

Lab Lot# of pH paper: 10D0104 Lab Std #ID of preservation (if pH adjusted):

Initial when completed: KAL Date/ Time:

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							
001										1		1	1																				2.5 / 5 / 10
002																												X			X		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
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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																													12				2.5 / 5 / 10

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
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: Kapur & Assoc

Project #:

WO# : 40238532

40238532

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

Tracking #:

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 - 105 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 4.4 /Corr: 4.4

Temp Blank Present: ☒ yes ☐ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents: Date: 12/17/21 /Initials: SKW

Labeled By Initials: SRK

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

Page 2 of 2

Pace Analytical Services, LLC
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January 17, 2022

Travis Peterson
Kapur & Associates, Inc.
7711 N. Port Washington Road
Milwaukee, WI 53217

RE: Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238757

Dear Travis Peterson:

Enclosed are the analytical results for sample(s) received by the laboratory on December 22, 2021. 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
- Pace Analytical Services - Indianapolis

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

Sincerely,

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Kapur Environmental, Kapur & Associates, Inc.
Ashley Wagner, Kapur & Associates

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238757

Pace Analytical Services Green Bay

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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
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Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Wisconsin Laboratory #: 999788130
USDA Soil Permit #: P330-19-00257

Pace Analytical Services, LLC
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(920)469-2436

SAMPLE SUMMARY

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238757

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40238757001	**WERNING**	Water	12/20/21 16:30	12/22/21 07:30

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Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238757

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40238757001	**WERNING**	EPA 200.7	TXW	1	PASI-G
		EPA 200.8	CAW	4	PASI-I
			CDH	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 353.2	DAW	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay
PASI-I = Pace Analytical Services - Indianapolis

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ANALYTICAL RESULTS

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238757

Sample: WERNING **Lab ID: 40238757001** Collected: 12/20/21 16:30 Received: 12/22/21 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
	Pace Analytical Services - Green Bay								
Magnesium	**48.5**	mg/L	1.0	0.18	1	12/27/21 06:28	12/27/21 22:32	7439-95-4	
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8								
	Pace Analytical Services - Indianapolis								
Arsenic	**<0.18**	ug/L	0.59	0.18	1		12/29/21 14:48	7440-38-2	
Chromium	**<0.68**	ug/L	2.3	0.68	1		12/29/21 14:48	7440-47-3	
Lead	**0.36J**	ug/L	0.47	0.14	1		12/29/21 14:48	7439-92-1	
Manganese	**0.63**	ug/L	0.58	0.18	1		12/29/21 14:48	7439-96-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**7.49**	Std. Units			1		12/20/21 16:30		
Field Specific Conductance	**911**	umhos/cm			1		12/20/21 16:30		
Turbidity	**N**	NTU			1		12/20/21 16:30		
Apparent Color	**N**	no units			1		12/20/21 16:30		
Odor	**N**	no units			1		12/20/21 16:30		
Temperature, Water (C)	**10.3**	deg C			1		12/20/21 16:30		
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**54.3**	mg/L	10.0	2.2	5		01/05/22 13:37	16887-00-6	M0
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
	Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**0.39**	mg/L	0.25	0.059	1		01/05/22 10:42		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238757

QC Batch: 656941
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: ICPMS Metals, No Prep
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 40238757001

METHOD BLANK: 3027841 Matrix: Water
Associated Lab Samples: 40238757001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	<0.18	0.59	12/29/21 14:24	
Chromium	ug/L	<0.68	2.3	12/29/21 14:24	
Lead	ug/L	<0.14	0.47	12/29/21 14:24	
Manganese	ug/L	<0.18	0.58	12/29/21 14:24	

LABORATORY CONTROL SAMPLE: 3027842

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	40	41.7	104	85-115	
Chromium	ug/L	40	42.8	107	85-115	
Lead	ug/L	40	42.5	106	85-115	
Manganese	ug/L	40	42.3	106	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3027843 3027844

Parameter	Units	40238757001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	<0.18	40	40	41.5	40.4	103	101	70-130	3	20	
Chromium	ug/L	<0.68	40	40	40.3	39.2	100	97	70-130	3	20	
Lead	ug/L	0.36J	40	40	42.5	41.5	105	103	70-130	2	20	
Manganese	ug/L	0.63	40	40	39.7	38.2	98	94	70-130	4	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

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238757

QC Batch: 405005
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238757001

METHOD BLANK: 2337690 Matrix: Water
Associated Lab Samples: 40238757001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Magnesium	mg/L	<0.18	1.0	12/27/21 21:51	

LABORATORY CONTROL SAMPLE: 2337691

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	mg/L	10	10.8	108	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2337692 2337693

Parameter	Units	40238719001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Magnesium	mg/L	42500 ug/L	10	10	51.6	50.4	91	79	70-130	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2337694 2337695

Parameter	Units	40238758001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Magnesium	mg/L	41.7	10	10	52.4	50.5	107	88	70-130	4	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: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238757

QC Batch: 405559
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238757001

METHOD BLANK: 2340078 Matrix: Water
Associated Lab Samples: 40238757001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	01/05/22 12:07	

LABORATORY CONTROL SAMPLE: 2340079

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	18.9	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2340080 2340081

Parameter	Units	40238757001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	54.3	100	100	173	170	119	116	90-110	1	15	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2340082 2340083

Parameter	Units	40238890001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	466	400	400	942	923	119	114	90-110	2	15	M0

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: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238757

QC Batch: 405584
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238757001

METHOD BLANK: 2340179 Matrix: Water
Associated Lab Samples: 40238757001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.059	0.25	01/05/22 10:39	

LABORATORY CONTROL SAMPLE: 2340180

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2340181 2340182

Parameter	Units	40238759001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.059	2.5	2.5	2.4	2.4	97	96	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2340183 2340184

Parameter	Units	40238988005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.70	2.5	2.5	3.1	3.1	97	97	90-110	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

Pace Analytical Services, LLC
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QUALIFIERS

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238757

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

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238757

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40238757001	**WERNING**	EPA 200.7	405005	EPA 200.7	405075
40238757001	**WERNING**	EPA 200.8	656941		
40238757001	**WERNING**				
40238757001	**WERNING**	EPA 300.0	405559		
40238757001	**WERNING**	EPA 353.2	405584		

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

COC No. 40238757

Pace Analytical®
www.pacelabs.com

CHAIN OF CUSTODY

(Please Print Clearly)	
Company Name:	Kapur & Associates Inc.
Branch/Location:	Glendale, WI
Project Contact:	Ashley Wagner
Phone:	(414)410-5206
Project Number:	~~21.0122.01~~ 22.0129.01
Project Name:	Barrett Landfill
Project State:	Wisconsin
Sampled By (Print):	Jennifer Skweres
Sampled By (Sign):	
PO #:	Regulatory Program:

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:	
Mail To Contact:	Ashley Wagner
Mail To Company:	Kapur & Associates Inc.
Mail To Address:	7711 N Port Washington Rd. Milwaukee, WI 53217
Invoice To Contact:	same
Invoice To Company:	as
Invoice To Address:	above
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested: Chloride	As, Pb, Cr, Mn, Mg	Nitrate + Nitrite	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	FILTERED? (YES/NO)				Y/N: N	N	N			
	PRESERVATION (CODE)*				Pick Letter: A	C	D			
001	Werning	12/20/21	16:30	DW	X	X	X			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	12-21-21 15:28		
Logistics	12/22/21 0730	Susan Kilby	12/22/21 0730

PACE Project No.: 40238757

Receipt Temp = 0 °C

Sample Receipt pH: (OK) / Adjusted

Cooler Custody Seal: Present / (Not Present)

Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

Client Name: Kapur

Sample Preservation Receipt Form

Project # 40238757

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

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

Lab Lot# of pH paper: 10D0104 Lab Std #ID of preservation (if pH adjusted):

Initial when completed: RW Date/ Time:

	Glass								Plastic					Vials						Jars				General			VOA Vials (>6mm) *					
Pace Lab #	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		H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001										1		1	1																			2.5 / 5 / 10
002																												X			X		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
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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
																												10/22/21		SU			2.5 / 5 / 10

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
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: Kapur & Assoc. Project #:

WO#: 40238757

40238757

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

Tracking #:

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 - 105 **Type of Ice:** Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 0 /Corr: 0

Temp Blank Present: yes no **Biological Tissue is Frozen:** yes no

Person examining contents: Date: 12/22/21 /Initials: SRK

Labeled By Initials: SRK

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

Pace Analytical Services, LLC
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January 17, 2022

Travis Peterson
Kapur & Associates, Inc.
7711 N. Port Washington Road
Milwaukee, WI 53217

RE: Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238753

Dear Travis Peterson:

Enclosed are the analytical results for sample(s) received by the laboratory on December 22, 2021. 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
- Pace Analytical Services - Indianapolis

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

Sincerely,

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Kapur Environmental, Kapur & Associates, Inc.
Ashley Wagner, Kapur & Associates

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238753

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Wisconsin Laboratory #: 999788130
USDA Soil Permit #: P330-19-00257

Pace Analytical Services, LLC
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Green Bay, WI 54302
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SAMPLE SUMMARY

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238753

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40238753001	**WHITEHAUS**	Water	12/20/21 10:30	12/22/21 07:30

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238753

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40238753001	**WHITEHAUS**	EPA 200.7	TXW	1	PASI-G
		EPA 200.8	CAW	4	PASI-I
			CDH	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 353.2	DAW	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay
PASI-I = Pace Analytical Services - Indianapolis

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ANALYTICAL RESULTS

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238753

Sample: WHITEHAUS **Lab ID: 40238753001** Collected: 12/20/21 10:30 Received: 12/22/21 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
	Pace Analytical Services - Green Bay								
Magnesium	**44.6**	mg/L	1.0	0.18	1	12/27/21 06:28	12/27/21 22:27	7439-95-4	
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8								
	Pace Analytical Services - Indianapolis								
Arsenic	**<0.18**	ug/L	0.59	0.18	1		12/29/21 15:17	7440-38-2	
Chromium	**<0.68**	ug/L	2.3	0.68	1		12/29/21 15:17	7440-47-3	
Lead	**<0.14**	ug/L	0.47	0.14	1		12/29/21 15:17	7439-92-1	
Manganese	**0.62**	ug/L	0.58	0.18	1		12/29/21 15:17	7439-96-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**7.04**	Std. Units			1		12/20/21 10:30		
Field Specific Conductance	**767**	umhos/cm			1		12/20/21 10:30		
Turbidity	**N**	NTU			1		12/20/21 10:30		
Apparent Color	**N**	no units			1		12/20/21 10:30		
Odor	**N**	no units			1		12/20/21 10:30		
Temperature, Water (C)	**11.3**	deg C			1		12/20/21 10:30		
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**18.2**	mg/L	2.0	0.43	1		01/05/22 02:37	16887-00-6	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
	Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**0.26**	mg/L	0.25	0.059	1		01/05/22 10:41		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238753

QC Batch: 656941
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: ICPMS Metals, No Prep
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 40238753001

METHOD BLANK: 3027841 Matrix: Water
Associated Lab Samples: 40238753001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	<0.18	0.59	12/29/21 14:24	
Chromium	ug/L	<0.68	2.3	12/29/21 14:24	
Lead	ug/L	<0.14	0.47	12/29/21 14:24	
Manganese	ug/L	<0.18	0.58	12/29/21 14:24	

LABORATORY CONTROL SAMPLE: 3027842

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	40	41.7	104	85-115	
Chromium	ug/L	40	42.8	107	85-115	
Lead	ug/L	40	42.5	106	85-115	
Manganese	ug/L	40	42.3	106	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3027843 3027844

Parameter	Units	40238757001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	<0.18	40	40	41.5	40.4	103	101	70-130	3	20	
Chromium	ug/L	<0.68	40	40	40.3	39.2	100	97	70-130	3	20	
Lead	ug/L	0.36J	40	40	42.5	41.5	105	103	70-130	2	20	
Manganese	ug/L	0.63	40	40	39.7	38.2	98	94	70-130	4	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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238753

QC Batch: 405005
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238753001

METHOD BLANK: 2337690 Matrix: Water
Associated Lab Samples: 40238753001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Magnesium	mg/L	<0.18	1.0	12/27/21 21:51	

LABORATORY CONTROL SAMPLE: 2337691

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	mg/L	10	10.8	108	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2337692 2337693

Parameter	Units	40238719001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Magnesium	mg/L	42500 ug/L	10	10	51.6	50.4	91	79	70-130	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2337694 2337695

Parameter	Units	40238758001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Magnesium	mg/L	41.7	10	10	52.4	50.5	107	88	70-130	4	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

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238753

QC Batch: 405488
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238753001

METHOD BLANK: 2339794 Matrix: Water
Associated Lab Samples: 40238753001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	01/04/22 19:42	

LABORATORY CONTROL SAMPLE: 2339795

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.8	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2339796 2339797

Parameter	Units	40238743002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	461	1000	1000	1570	1550	111	109	90-110	1	15	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2339798 2339799

Parameter	Units	40238755001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	30.8	100	100	140	139	109	109	90-110	0	15	

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238753

QC Batch: 405584
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238753001

METHOD BLANK: 2340179 Matrix: Water
Associated Lab Samples: 40238753001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.059	0.25	01/05/22 10:39	

LABORATORY CONTROL SAMPLE: 2340180

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2340181 2340182

Parameter	Units	40238759001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.059	2.5	2.5	2.4	2.4	97	96	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2340183 2340184

Parameter	Units	40238988005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.70	2.5	2.5	3.1	3.1	97	97	90-110	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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238753

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

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 22.0129.01 BARRETT LANDFILL
Pace Project No.: 40238753

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40238753001	**WHITEHAUS**	EPA 200.7	405005	EPA 200.7	405075
40238753001	**WHITEHAUS**	EPA 200.8	656941		
40238753001	**WHITEHAUS**				
40238753001	**WHITEHAUS**	EPA 300.0	405488		
40238753001	**WHITEHAUS**	EPA 353.2	405584		

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

COC No. 402387S3

Pace Analytical®
www.pacelabs.com

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	Kapur & Associates Inc.
Branch/Location:	Glendale, WI
Project Contact:	Ashley Wagner
Phone:	(414)410-5206
Project Number:	~~21.0122.01~~ 22.0129.01
Project Name:	Barrett Landfill
Project State:	Wisconsin
Sampled By (Print):	Jennifer Skweres
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Ashley Wagner
Mail To Company:	Kapur & Associates Inc.
Mail To Address:	7711 N Port Washington Rd. Milwaukee, WI 53217
Invoice To Contact:	same
Invoice To Company:	as
Invoice To Address:	above
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Biota	DW = Drinking Water
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
SI = Sludge	WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Chloride	As, Pb, Cr, Mn, Mg	Nitrate + Nitrite	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
						N	A	C	D				
001	Whitehaus	12/20/21	10:30	DW		X	X	X					

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	12-21-21 1518		
CS Logistics	12/22/21 0730	Susan K Myhre	12/22/21 0730

PACE Project No.
402387S3

Receipt Temp = 0 °C

Sample Receipt pH
OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

Client Name: Kapur

Sample Preservation Receipt Form

Project # 40238753

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

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

Lab Lot# of pH paper: 710D0104 Lab Std #ID of preservation (if pH adjusted):

Initial when completed: DW Date/ Time:

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							
001																																	
002																												X			X		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

12/22/21 (DW)

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
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: Kapur & Assoc. Project #:

WO#: 40238753

40238753

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

Tracking #: _____

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 - 105 **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 0 /Corr: 0

Temp Blank Present: ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents: Date: 12/22/21 /Initials: SKC

Labeled By Initials: SRK

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

Page 2 of 2

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

January 17, 2022

Travis Peterson
Kapur & Associates, Inc.
7711 N. Port Washington Road
Milwaukee, WI 53217

RE: Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238535

Dear Travis Peterson:

Enclosed are the analytical results for sample(s) received by the laboratory on December 17, 2021. 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
- Pace Analytical Services - Indianapolis

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

Sincerely,

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Kapur Environmental, Kapur & Associates, Inc.
Ashley Wagner, Kapur & Associates

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238535

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

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Wisconsin Laboratory #: 999788130
USDA Soil Permit #: P330-19-00257

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238535

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40238535001	**WYSZKOWSKI**	Water	12/14/21 09:55	12/17/21 07:50

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238535

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40238535001	**WYSZKOWSKI**	EPA 200.7	TXW	1	PASI-G
		EPA 200.8	CAW	4	PASI-I
			CDH	6	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 353.2	DAW	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay
PASI-I = Pace Analytical Services - Indianapolis

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238535

Sample: WYSZKOWSKI **Lab ID: 40238535001** Collected: 12/14/21 09:55 Received: 12/17/21 07:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
	Pace Analytical Services - Green Bay								
Magnesium	**49.8**	mg/L	1.0	0.18	1	12/22/21 06:16	12/27/21 23:46	7439-95-4	
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8								
	Pace Analytical Services - Indianapolis								
Arsenic	**0.25J**	ug/L	0.58	0.17	1		12/27/21 14:45	7440-38-2	
Chromium	**0.63**	ug/L	0.34	0.10	1		12/27/21 14:45	7440-47-3	
Lead	**6.9**	ug/L	0.47	0.14	1		12/27/21 14:45	7439-92-1	
Manganese	**16.5**	ug/L	0.58	0.18	1		12/27/21 14:45	7439-96-5	
Field Data	Analytical Method:								
	Pace Analytical Services - Green Bay								
Field pH	**7.4**	Std. Units			1		12/14/21 09:55		
Field Specific Conductance	**819**	umhos/cm			1		12/14/21 09:55		
Turbidity	**N**	NTU			1		12/14/21 09:55		
Apparent Color	**N**	no units			1		12/14/21 09:55		
Odor	**N**	no units			1		12/14/21 09:55		
Temperature, Water (C)	**12**	deg C			1		12/14/21 09:55		
300.0 IC Anions	Analytical Method: EPA 300.0								
	Pace Analytical Services - Green Bay								
Chloride	**37.8**	mg/L	10.0	2.2	5		01/03/22 14:39	16887-00-6	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
	Pace Analytical Services - Green Bay								
Nitrogen, NO2 plus NO3	**<0.059**	mg/L	0.25	0.059	1		01/04/22 13:05		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238535

QC Batch: 656454
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: ICPMS Metals, No Prep
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 40238535001

METHOD BLANK: 3026468 Matrix: Water
Associated Lab Samples: 40238535001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	<0.17	0.58	12/27/21 14:06	
Chromium	ug/L	<0.10	0.34	12/27/21 14:06	
Lead	ug/L	<0.14	0.47	12/27/21 14:06	
Manganese	ug/L	<0.18	0.58	12/27/21 14:06	

LABORATORY CONTROL SAMPLE: 3026469

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	40	41.6	104	85-115	
Chromium	ug/L	40	42.4	106	85-115	
Lead	ug/L	40	42.4	106	85-115	
Manganese	ug/L	40	41.7	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3026470 3026471

Parameter	Units	40238535001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	0.25J	40	40	40.6	40.8	101	101	70-130	1	20	
Chromium	ug/L	0.63	40	40	40.5	41.1	100	101	70-130	1	20	
Lead	ug/L	6.9	40	40	48.7	50.2	105	108	70-130	3	20	
Manganese	ug/L	16.5	40	40	54.3	55.2	95	97	70-130	2	20	

MATRIX SPIKE SAMPLE: 3026834

Parameter	Units	10592237001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	1.0	40	40.6	99	70-130	
Chromium	ug/L	0.22J	40	39.5	98	70-130	
Lead	ug/L	0.18J	40	40.6	101	70-130	
Manganese	ug/L	0.33J	40	39.0	97	70-130	

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

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238535

QC Batch: 404824
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238535001

METHOD BLANK: 2336579 Matrix: Water
Associated Lab Samples: 40238535001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Magnesium	mg/L	<0.18	1.0	12/27/21 23:16	

LABORATORY CONTROL SAMPLE: 2336580

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	mg/L	10	10.4	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2336581 2336582

Parameter	Units	10591903001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Magnesium	mg/L	1430 ug/L	10	10	11.7	11.3	103	99	70-130	4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2336583 2336584

Parameter	Units	40238655005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Magnesium	mg/L	51300 ug/L	10	10	60.2	60.1	90	89	70-130	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: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238535

QC Batch: 405310
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238535001

METHOD BLANK: 2339094 Matrix: Water
Associated Lab Samples: 40238535001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.43	2.0	01/03/22 11:11	

LABORATORY CONTROL SAMPLE: 2339095

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	18.8	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2339096 2339097

Parameter	Units	40238524004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	6.9J	100	100	110	111	103	104	90-110	1	15	

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: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238535

QC Batch: 405525
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40238535001

METHOD BLANK: 2339925 Matrix: Water
Associated Lab Samples: 40238535001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.059	0.25	01/04/22 12:56	

LABORATORY CONTROL SAMPLE: 2339926

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.4	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2339927 2339928

Parameter	Units	40238524006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.059	2.5	2.5	2.4	2.4	96	96	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2339929 2339930

Parameter	Units	40238751001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.059	2.5	2.5	2.3	2.3	93	93	90-110	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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Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238535

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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(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 21.0122.01 BARRETT LANDFILL
Pace Project No.: 40238535

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40238535001	**WYSZKOWSKI**	EPA 200.7	404824	EPA 200.7	404898
40238535001	**WYSZKOWSKI**	EPA 200.8	656454		
40238535001	**WYSZKOWSKI**				
40238535001	**WYSZKOWSKI**	EPA 300.0	405310		
40238535001	**WYSZKOWSKI**	EPA 353.2	405525		

(Please Print Clearly)	
Company Name:	Kapur & Associates Inc.
Branch/Location:	Glendale, WI
Project Contact:	Ashley Wagner
Phone:	(414)410-5206
Project Number:	21.0122.01
Project Name:	Barrett Landfill
Project State:	Wisconsin
Sampled By (Print):	Jennifer Skweres
Sampled By (Sign):	
PO #:	Regulatory Program:

Pace Analytical®
www.pacelabs.com

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

COC No. 10238555

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:	
Mail To Contact:	Travis Peterson
Mail To Company:	Kapur & Associates Inc.
Mail To Address:	7711 N Port Washington Rd. Milwaukee, WI 53217
Invoice To Contact:	same
Invoice To Company:	as
Invoice To Address:	above
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Biota	DW = Drinking Water
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
Sl = Sludge	WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested: Chloride	As, Pb, Cr, Mn, Mg	Nitrate + Nitrite	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	FILTERED? (YES/NO)	Y/N			N	N	N			
	PRESERVATION (CODE)*	Pick Letter			A	C	D			
001	Wyszkowski	12/14/21	9:55	DW	X	X	X			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	12/16/21 14:46		
	12/17/21 0850		12/17/21 0850

PACE Project No. 10238555

Receipt Temp = 4.4 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present

Intact / Not Intact

C019a(27Jun2006)

Version 6.0 06/14/06

Sample Preservation Receipt Form

Client Name: Kapur

Project # WD2585535

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

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

Lab Lot# of pH paper: 10D0104 Lab Std #ID of preservation (if pH adjusted):

Initial when completed: KL Date/ Time:

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							
001																																	2.5 / 5 / 10
002										1		1	1															X			X		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
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017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																													12/17				2.5 / 5 / 10
																														8:00			2.5 / 5 / 10

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
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: Kapur & Assoc

Project #:

WO# : 40238535

40238535

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

Tracking #:

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 - 105 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 4.4 /Corr: 4.4

Temp Blank Present: ☒ yes ☐ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents: Date: 12/17/21 /Initials: SKW

Labeled By Initials: SRK

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

Pace Analytical Services, LLC
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(920)469-2436

September 09, 2021

Travis Peterson
Kapur & Associates, Inc.
7711 N. Port Washington Road
Milwaukee, WI 53217

RE: Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

Dear Travis Peterson:

Enclosed are the analytical results for sample(s) received by the laboratory on August 27, 2021. 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,

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Kapur Environmental, Kapur & Associates, Inc.
Ashley Wagner, Kapur & Associates

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

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

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40232350001	**LEACHATE (258)**	Water	08/26/21 14:50	08/27/21 07:30
40232350002	**TRIP BLANK**	Water	08/26/21 00:00	08/27/21 07:30

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SAMPLE ANALYTE COUNT

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40232350001	**LEACHATE (258)**	EPA 6010D	TXW	6
		EPA 7470	AJT	1
		EPA 8270E	RJN	75
		EPA 8260	MDS	45
			CDH	3
		SM 2540D	JXM	1
		SM 5210B	JXM	1
		EPA 300.0	HMB	2
		EPA 310.2	DAW	1
		EPA 350.1	TMK	1
		EPA 351.2	TMK	1
		EPA 410.4	TMK	1
40232350002	**TRIP BLANK**	EPA 8260	MDS	45

PASI-G = Pace Analytical Services - Green Bay

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

Sample: LEACHATE (258) **Lab ID: 40232350001** Collected: 08/26/21 14:50 Received: 08/27/21 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay								
Cadmium	**<2.7**	ug/L	10.0	2.7	2	08/30/21 13:32	09/01/21 12:31	7440-43-9	D3
Iron	**1900**	ug/L	200	113	2	08/30/21 13:32	09/01/21 12:31	7439-89-6	
Lead	**<11.8**	ug/L	40.0	11.8	2	08/30/21 13:32	09/01/21 12:31	7439-92-1	D3
Manganese	**12.1**	ug/L	10.0	3.1	2	08/30/21 13:32	09/01/21 12:31	7439-96-5	
Sodium	**2320**	mg/L	50.0	35.0	100	08/30/21 13:32	09/01/21 12:24	7440-23-5	
Total Hardness by 2340B	**180**	mg/L	4.0	0.30	2	08/30/21 13:32	09/01/21 12:31		
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	08/30/21 09:55	08/31/21 09:24	7439-97-6	
8270E MSSV Semivolatile Org	Analytical Method: EPA 8270E Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
1,2,4,5-Tetrachlorobenzene	**<385**	ug/L	1930	385	40	08/31/21 12:50	09/01/21 12:31	95-94-3	
1,2,4-Trichlorobenzene	**<605**	ug/L	2020	605	40	08/31/21 12:50	09/01/21 12:31	120-82-1	
1,2-Dichlorobenzene	**<557**	ug/L	1930	557	40	08/31/21 12:50	09/01/21 12:31	95-50-1	
1,3-Dichlorobenzene	**<595**	ug/L	1980	595	40	08/31/21 12:50	09/01/21 12:31	541-73-1	
1,4-Dichlorobenzene	**<555**	ug/L	1930	555	40	08/31/21 12:50	09/01/21 12:31	106-46-7	
1-Methylnaphthalene	**<709**	ug/L	2370	709	40	08/31/21 12:50	09/01/21 12:31	90-12-0	
2,2'-Oxybis(1-chloropropane)	**<475**	ug/L	1930	475	40	08/31/21 12:50	09/01/21 12:31	108-60-1	
2,3,4,6-Tetrachlorophenol	**<751**	ug/L	2500	751	40	08/31/21 12:50	09/01/21 12:31	58-90-2	
2,4,5-Trichlorophenol	**<248**	ug/L	1930	248	40	08/31/21 12:50	09/01/21 12:31	95-95-4	
2,4,6-Trichlorophenol	**<307**	ug/L	1930	307	40	08/31/21 12:50	09/01/21 12:31	88-06-2	
2,4-Dichlorophenol	**<345**	ug/L	1930	345	40	08/31/21 12:50	09/01/21 12:31	120-83-2	
2,4-Dimethylphenol	**<447**	ug/L	1930	447	40	08/31/21 12:50	09/01/21 12:31	105-67-9	
2,4-Dinitrophenol	**<945**	ug/L	3850	945	40	08/31/21 12:50	09/01/21 12:31	51-28-5	
2,4-Dinitrotoluene	**<408**	ug/L	1930	408	40	08/31/21 12:50	09/01/21 12:31	121-14-2	
2,6-Dinitrotoluene	**<298**	ug/L	1930	298	40	08/31/21 12:50	09/01/21 12:31	606-20-2	
2-Chloronaphthalene	**<319**	ug/L	1930	319	40	08/31/21 12:50	09/01/21 12:31	91-58-7	
2-Chlorophenol	**<319**	ug/L	1930	319	40	08/31/21 12:50	09/01/21 12:31	95-57-8	
2-Methylnaphthalene	**<449**	ug/L	1930	449	40	08/31/21 12:50	09/01/21 12:31	91-57-6	
2-Methylphenol(o-Cresol)	**<359**	ug/L	1930	359	40	08/31/21 12:50	09/01/21 12:31	95-48-7	
2-Nitroaniline	**<365**	ug/L	1930	365	40	08/31/21 12:50	09/01/21 12:31	88-74-4	
2-Nitrophenol	**<318**	ug/L	1930	318	40	08/31/21 12:50	09/01/21 12:31	88-75-5	
3&4-Methylphenol(m&p Cresol)	**<236**	ug/L	1930	236	40	08/31/21 12:50	09/01/21 12:31		
3,3'-Dichlorobenzidine	**<518**	ug/L	1930	518	40	08/31/21 12:50	09/01/21 12:31	91-94-1	1q
3-Nitroaniline	**<526**	ug/L	1930	526	40	08/31/21 12:50	09/01/21 12:31	99-09-2	
4,6-Dinitro-2-methylphenol	**<1200**	ug/L	4010	1200	40	08/31/21 12:50	09/01/21 12:31	534-52-1	
4-Bromophenylphenyl ether	**<368**	ug/L	1930	368	40	08/31/21 12:50	09/01/21 12:31	101-55-3	
4-Chloro-3-methylphenol	**<263**	ug/L	1930	263	40	08/31/21 12:50	09/01/21 12:31	59-50-7	
4-Chlorophenylphenyl ether	**<319**	ug/L	1930	319	40	08/31/21 12:50	09/01/21 12:31	7005-72-3	
4-Nitroaniline	**<1160**	ug/L	3850	1160	40	08/31/21 12:50	09/01/21 12:31	100-01-6	
4-Nitrophenol	**<1180**	ug/L	3930	1180	40	08/31/21 12:50	09/01/21 12:31	100-02-7	
Acenaphthene	**<294**	ug/L	1930	294	40	08/31/21 12:50	09/01/21 12:31	83-32-9	
Acenaphthylene	**<281**	ug/L	1930	281	40	08/31/21 12:50	09/01/21 12:31	208-96-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

Sample: LEACHATE (258) **Lab ID: 40232350001** Collected: 08/26/21 14:50 Received: 08/27/21 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Semivolatile Org	Analytical Method: EPA 8270E Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Acetophenone	**<847**	ug/L	2820	847	40	08/31/21 12:50	09/01/21 12:31	98-86-2	
Anthracene	**<312**	ug/L	1930	312	40	08/31/21 12:50	09/01/21 12:31	120-12-7	
Benzo(a)anthracene	**<326**	ug/L	1930	326	40	08/31/21 12:50	09/01/21 12:31	56-55-3	
Benzo(a)pyrene	**<490**	ug/L	1930	490	40	08/31/21 12:50	09/01/21 12:31	50-32-8	
Benzo(b)fluoranthene	**<399**	ug/L	1930	399	40	08/31/21 12:50	09/01/21 12:31	205-99-2	
Benzo(g,h,i)perylene	**<531**	ug/L	1930	531	40	08/31/21 12:50	09/01/21 12:31	191-24-2	
Benzo(k)fluoranthene	**<433**	ug/L	1930	433	40	08/31/21 12:50	09/01/21 12:31	207-08-9	
Benzyl alcohol	**<250**	ug/L	1930	250	40	08/31/21 12:50	09/01/21 12:31	100-51-6	
Butylbenzylphthalate	**<500**	ug/L	1930	500	40	08/31/21 12:50	09/01/21 12:31	85-68-7	
Chrysene	**<489**	ug/L	1930	489	40	08/31/21 12:50	09/01/21 12:31	218-01-9	
Di-n-butylphthalate	**<474**	ug/L	1930	474	40	08/31/21 12:50	09/01/21 12:31	84-74-2	
Di-n-octylphthalate	**<1840**	ug/L	6130	1840	40	08/31/21 12:50	09/01/21 12:31	117-84-0	
Dibenz(a,h)anthracene	**<426**	ug/L	1930	426	40	08/31/21 12:50	09/01/21 12:31	53-70-3	
Dibenzofuran	**<327**	ug/L	1930	327	40	08/31/21 12:50	09/01/21 12:31	132-64-9	
Diethylphthalate	**<299**	ug/L	1930	299	40	08/31/21 12:50	09/01/21 12:31	84-66-2	
Dimethylphthalate	**<278**	ug/L	1930	278	40	08/31/21 12:50	09/01/21 12:31	131-11-3	
Fluoranthene	**<381**	ug/L	1930	381	40	08/31/21 12:50	09/01/21 12:31	206-44-0	
Fluorene	**<349**	ug/L	1930	349	40	08/31/21 12:50	09/01/21 12:31	86-73-7	
Hexachloro-1,3-butadiene	**<442**	ug/L	2120	442	40	08/31/21 12:50	09/01/21 12:31	87-68-3	
Hexachlorobenzene	**<636**	ug/L	1930	636	40	08/31/21 12:50	09/01/21 12:31	118-74-1	
Hexachlorocyclopentadiene	**<388**	ug/L	1930	388	40	08/31/21 12:50	09/01/21 12:31	77-47-4	
Hexachloroethane	**<547**	ug/L	1930	547	40	08/31/21 12:50	09/01/21 12:31	67-72-1	
Indeno(1,2,3-cd)pyrene	**<469**	ug/L	1930	469	40	08/31/21 12:50	09/01/21 12:31	193-39-5	
Isophorone	**<298**	ug/L	1930	298	40	08/31/21 12:50	09/01/21 12:31	78-59-1	
N-Nitroso-di-n-propylamine	**<437**	ug/L	1930	437	40	08/31/21 12:50	09/01/21 12:31	621-64-7	
N-Nitrosodimethylamine	**<281**	ug/L	3850	281	40	08/31/21 12:50	09/01/21 12:31	62-75-9	
N-Nitrosodiphenylamine	**<1330**	ug/L	4430	1330	40	08/31/21 12:50	09/01/21 12:31	86-30-6	
Naphthalene	**<469**	ug/L	1930	469	40	08/31/21 12:50	09/01/21 12:31	91-20-3	
Nitrobenzene	**<414**	ug/L	1930	414	40	08/31/21 12:50	09/01/21 12:31	98-95-3	
Pentachlorophenol	**<1760**	ug/L	5860	1760	40	08/31/21 12:50	09/01/21 12:31	87-86-5	
Phenanthrene	**<367**	ug/L	1930	367	40	08/31/21 12:50	09/01/21 12:31	85-01-8	
Phenol	**<124**	ug/L	1930	124	40	08/31/21 12:50	09/01/21 12:31	108-95-2	D3
Pyrene	**<463**	ug/L	1930	463	40	08/31/21 12:50	09/01/21 12:31	129-00-0	
Pyridine	**<582**	ug/L	1940	582	40	08/31/21 12:50	09/01/21 12:31	110-86-1	
bis(2-Chloroethoxy)methane	**<504**	ug/L	1930	504	40	08/31/21 12:50	09/01/21 12:31	111-91-1	
bis(2-Chloroethyl) ether	**<450**	ug/L	1930	450	40	08/31/21 12:50	09/01/21 12:31	111-44-4	
bis(2-Ethylhexyl)phthalate	**<1110**	ug/L	3700	1110	40	08/31/21 12:50	09/01/21 12:31	117-81-7	
Surrogates									
Nitrobenzene-d5 (S)	73	%	41-118		40	08/31/21 12:50	09/01/21 12:31	4165-60-0	
2-Fluorobiphenyl (S)	79	%	54-107		40	08/31/21 12:50	09/01/21 12:31	321-60-8	
Terphenyl-d14 (S)	104	%	51-129		40	08/31/21 12:50	09/01/21 12:31	1718-51-0	
Phenol-d6 (S)	28	%	12-120		40	08/31/21 12:50	09/01/21 12:31	13127-88-3	
2-Fluorophenol (S)	41	%	23-69		40	08/31/21 12:50	09/01/21 12:31	367-12-4	
2,4,6-Tribromophenol (S)	95	%	62-172		40	08/31/21 12:50	09/01/21 12:31	118-79-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

Sample: LEACHATE (258) **Lab ID: 40232350001** Collected: 08/26/21 14:50 Received: 08/27/21 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
1,1,1-Trichloroethane	**<3.0**	ug/L	10.0	3.0	10		09/01/21 12:19	71-55-6	
1,1,2-Trichloroethane	**<3.4**	ug/L	50.0	3.4	10		09/01/21 12:19	79-00-5	
1,1-Dichloroethane	**<3.0**	ug/L	10.0	3.0	10		09/01/21 12:19	75-34-3	
1,1-Dichloroethene	**<5.8**	ug/L	10.0	5.8	10		09/01/21 12:19	75-35-4	
1,2-Dibromo-3-chloropropane	**<23.7**	ug/L	50.0	23.7	10		09/01/21 12:19	96-12-8	
1,2-Dibromoethane (EDB)	**<3.1**	ug/L	10.0	3.1	10		09/01/21 12:19	106-93-4	
1,2-Dichlorobenzene	**<3.3**	ug/L	10.0	3.3	10		09/01/21 12:19	95-50-1	
1,2-Dichloroethane	**<2.9**	ug/L	10.0	2.9	10		09/01/21 12:19	107-06-2	
1,2-Dichloropropane	**<4.5**	ug/L	10.0	4.5	10		09/01/21 12:19	78-87-5	
1,3-Dichlorobenzene	**<3.5**	ug/L	10.0	3.5	10		09/01/21 12:19	541-73-1	
1,4-Dichlorobenzene	**<8.9**	ug/L	10.0	8.9	10		09/01/21 12:19	106-46-7	
2-Butanone (MEK)	**<65.2**	ug/L	250	65.2	10		09/01/21 12:19	78-93-3	
Acetone	**187J**	ug/L	250	86.4	10		09/01/21 12:19	67-64-1	
Benzene	**<3.0**	ug/L	10.0	3.0	10		09/01/21 12:19	71-43-2	
Bromodichloromethane	**<4.2**	ug/L	10.0	4.2	10		09/01/21 12:19	75-27-4	
Bromoform	**<38.0**	ug/L	50.0	38.0	10		09/01/21 12:19	75-25-2	
Bromomethane	**<11.9**	ug/L	50.0	11.9	10		09/01/21 12:19	74-83-9	
Carbon disulfide	**<11.0**	ug/L	50.0	11.0	10		09/01/21 12:19	75-15-0	
Carbon tetrachloride	**<3.7**	ug/L	10.0	3.7	10		09/01/21 12:19	56-23-5	
Chlorobenzene	**<8.6**	ug/L	10.0	8.6	10		09/01/21 12:19	108-90-7	
Chloroethane	**<13.8**	ug/L	50.0	13.8	10		09/01/21 12:19	75-00-3	
Chloroform	**<11.8**	ug/L	50.0	11.8	10		09/01/21 12:19	67-66-3	
Chloromethane	**<16.4**	ug/L	50.0	16.4	10		09/01/21 12:19	74-87-3	
Dibromochloromethane	**<26.4**	ug/L	50.0	26.4	10		09/01/21 12:19	124-48-1	
Dibromomethane	**<9.9**	ug/L	50.0	9.9	10		09/01/21 12:19	74-95-3	
Dichlorodifluoromethane	**<4.6**	ug/L	50.0	4.6	10		09/01/21 12:19	75-71-8	
Ethylbenzene	**<3.3**	ug/L	10.0	3.3	10		09/01/21 12:19	100-41-4	
Methyl-tert-butyl ether	**<11.3**	ug/L	50.0	11.3	10		09/01/21 12:19	1634-04-4	
Methylene Chloride	**<3.2**	ug/L	50.0	3.2	10		09/01/21 12:19	75-09-2	
Naphthalene	**<11.3**	ug/L	50.0	11.3	10		09/01/21 12:19	91-20-3	
Styrene	**<3.6**	ug/L	10.0	3.6	10		09/01/21 12:19	100-42-5	
Tetrachloroethene	**<4.1**	ug/L	10.0	4.1	10		09/01/21 12:19	127-18-4	
Tetrahydrofuran	**124J**	ug/L	250	24.2	10		09/01/21 12:19	109-99-9	
Toluene	**3.7J**	ug/L	10.0	2.9	10		09/01/21 12:19	108-88-3	
Trichloroethene	**<3.2**	ug/L	10.0	3.2	10		09/01/21 12:19	79-01-6	
Trichlorofluoromethane	**<4.2**	ug/L	10.0	4.2	10		09/01/21 12:19	75-69-4	
Vinyl chloride	**<1.7**	ug/L	10.0	1.7	10		09/01/21 12:19	75-01-4	
Xylene (Total)	**<10.5**	ug/L	30.0	10.5	10		09/01/21 12:19	1330-20-7	
cis-1,2-Dichloroethene	**<4.7**	ug/L	10.0	4.7	10		09/01/21 12:19	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	10.0	3.6	10		09/01/21 12:19	10061-01-5	
trans-1,2-Dichloroethene	**<5.3**	ug/L	10.0	5.3	10		09/01/21 12:19	156-60-5	
trans-1,3-Dichloropropene	**<34.6**	ug/L	50.0	34.6	10		09/01/21 12:19	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	125	%	70-130		10		09/01/21 12:19	460-00-4	pH
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		10		09/01/21 12:19	2199-69-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

Sample: LEACHATE (258) **Lab ID: 40232350001** Collected: 08/26/21 14:50 Received: 08/27/21 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Surrogates									
Toluene-d8 (S)	103	%	70-130		10		09/01/21 12:19	2037-26-5	
Field Data	Analytical Method: Pace Analytical Services - Green Bay								
Field pH	**9.28**	Std. Units			1		08/26/21 14:50		
Field Specific Conductance	**3999**	umhos/cm			1		08/26/21 14:50		
Temperature, Water (C)	**18.2**	deg C			1		08/26/21 14:50		
2540D Total Suspended Solids	Analytical Method: SM 2540D Pace Analytical Services - Green Bay								
Total Suspended Solids	**17.8**	mg/L	2.0	0.95	1		08/30/21 08:32		
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B Pace Analytical Services - Green Bay								
BOD, 5 day	**444**	mg/L	200	200	100	08/27/21 10:00	09/01/21 09:12		
300.0 IC Anions	Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay								
Chloride	**1590**	mg/L	200	43.1	100		09/07/21 17:23	16887-00-6	
Sulfate	**66.0**	mg/L	40.0	8.9	20		09/03/21 19:48	14808-79-8	
310.2 Alkalinity	Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay								
Alkalinity, Total as CaCO3	**5420**	mg/L	1240	372	50		09/02/21 09:49		
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1 Preparation Method: EPA 350.1 Pace Analytical Services - Green Bay								
Nitrogen, Ammonia	**487**	mg/L	25.0	7.2	50	09/01/21 15:42	09/01/21 17:27	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Green Bay								
Nitrogen, Kjeldahl, Total	**517**	mg/L	100	21.2	5	09/02/21 13:23	09/02/21 18:29	7727-37-9	
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Green Bay								
Chemical Oxygen Demand	**2760**	mg/L	400	118	1	09/07/21 16:12	09/07/21 19:22		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

Sample: TRIP BLANK **Lab ID: 40232350002** Collected: 08/26/21 00:00 Received: 08/27/21 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1-Trichloroethane	**<0.30**	ug/L	1.0	0.30	1		08/31/21 11:26	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/L	5.0	0.34	1		08/31/21 11:26	79-00-5	
1,1-Dichloroethane	**<0.30**	ug/L	1.0	0.30	1		08/31/21 11:26	75-34-3	
1,1-Dichloroethene	**<0.58**	ug/L	1.0	0.58	1		08/31/21 11:26	75-35-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/L	5.0	2.4	1		08/31/21 11:26	96-12-8	
1,2-Dibromoethane (EDB)	**<0.31**	ug/L	1.0	0.31	1		08/31/21 11:26	106-93-4	
1,2-Dichlorobenzene	**<0.33**	ug/L	1.0	0.33	1		08/31/21 11:26	95-50-1	
1,2-Dichloroethane	**<0.29**	ug/L	1.0	0.29	1		08/31/21 11:26	107-06-2	
1,2-Dichloropropane	**<0.45**	ug/L	1.0	0.45	1		08/31/21 11:26	78-87-5	
1,3-Dichlorobenzene	**<0.35**	ug/L	1.0	0.35	1		08/31/21 11:26	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/L	1.0	0.89	1		08/31/21 11:26	106-46-7	
2-Butanone (MEK)	**<6.5**	ug/L	25.0	6.5	1		08/31/21 11:26	78-93-3	
Acetone	**<8.6**	ug/L	25.0	8.6	1		08/31/21 11:26	67-64-1	
Benzene	**<0.30**	ug/L	1.0	0.30	1		08/31/21 11:26	71-43-2	
Bromodichloromethane	**<0.42**	ug/L	1.0	0.42	1		08/31/21 11:26	75-27-4	
Bromoform	**<3.8**	ug/L	5.0	3.8	1		08/31/21 11:26	75-25-2	
Bromomethane	**<1.2**	ug/L	5.0	1.2	1		08/31/21 11:26	74-83-9	
Carbon disulfide	**<1.1**	ug/L	5.0	1.1	1		08/31/21 11:26	75-15-0	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		08/31/21 11:26	56-23-5	
Chlorobenzene	**<0.86**	ug/L	1.0	0.86	1		08/31/21 11:26	108-90-7	
Chloroethane	**<1.4**	ug/L	5.0	1.4	1		08/31/21 11:26	75-00-3	
Chloroform	**<1.2**	ug/L	5.0	1.2	1		08/31/21 11:26	67-66-3	
Chloromethane	**<1.6**	ug/L	5.0	1.6	1		08/31/21 11:26	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	5.0	2.6	1		08/31/21 11:26	124-48-1	
Dibromomethane	**<0.99**	ug/L	5.0	0.99	1		08/31/21 11:26	74-95-3	
Dichlorodifluoromethane	**<0.46**	ug/L	5.0	0.46	1		08/31/21 11:26	75-71-8	
Ethylbenzene	**<0.33**	ug/L	1.0	0.33	1		08/31/21 11:26	100-41-4	
Methyl-tert-butyl ether	**<1.1**	ug/L	5.0	1.1	1		08/31/21 11:26	1634-04-4	
Methylene Chloride	**1.8J**	ug/L	5.0	0.32	1		08/31/21 11:26	75-09-2	
Naphthalene	**<1.1**	ug/L	5.0	1.1	1		08/31/21 11:26	91-20-3	
Styrene	**<0.36**	ug/L	1.0	0.36	1		08/31/21 11:26	100-42-5	
Tetrachloroethene	**<0.41**	ug/L	1.0	0.41	1		08/31/21 11:26	127-18-4	
Tetrahydrofuran	**<2.4**	ug/L	25.0	2.4	1		08/31/21 11:26	109-99-9	
Toluene	**<0.29**	ug/L	1.0	0.29	1		08/31/21 11:26	108-88-3	
Trichloroethene	**<0.32**	ug/L	1.0	0.32	1		08/31/21 11:26	79-01-6	
Trichlorofluoromethane	**<0.42**	ug/L	1.0	0.42	1		08/31/21 11:26	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		08/31/21 11:26	75-01-4	
Xylene (Total)	**<1.0**	ug/L	3.0	1.0	1		08/31/21 11:26	1330-20-7	
cis-1,2-Dichloroethene	**<0.47**	ug/L	1.0	0.47	1		08/31/21 11:26	156-59-2	
cis-1,3-Dichloropropene	**<0.36**	ug/L	1.0	0.36	1		08/31/21 11:26	10061-01-5	
trans-1,2-Dichloroethene	**<0.53**	ug/L	1.0	0.53	1		08/31/21 11:26	156-60-5	
trans-1,3-Dichloropropene	**<3.5**	ug/L	5.0	3.5	1		08/31/21 11:26	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	117	%	70-130		1		08/31/21 11:26	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		08/31/21 11:26	2199-69-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

Sample: TRIP BLANK **Lab ID: 40232350002** Collected: 08/26/21 00:00 Received: 08/27/21 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Surrogates									
Toluene-d8 (S)	105	%	70-130		1		08/31/21 11:26	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

QC Batch: 394357
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40232350001

METHOD BLANK: 2275909 Matrix: Water
Associated Lab Samples: 40232350001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.066	0.20	08/31/21 09:03	

LABORATORY CONTROL SAMPLE: 2275910

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.6	93	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2275911 2275912

Parameter	Units	40232217001 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	4.7	4.7	94	94	85-115	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

QC Batch: 394403
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40232350001

METHOD BLANK: 2276109 Matrix: Water
Associated Lab Samples: 40232350001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	ug/L	<1.3	5.0	08/31/21 14:33	
Iron	ug/L	<56.7	100	08/31/21 14:33	
Lead	ug/L	<5.9	20.0	08/31/21 14:33	
Manganese	ug/L	<1.5	5.0	08/31/21 14:33	
Sodium	mg/L	<0.35	0.50	08/31/21 14:33	
Total Hardness by 2340B	mg/L	<0.15	2.0	08/31/21 14:33	

LABORATORY CONTROL SAMPLE: 2276110

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	250	242	97	80-120	
Iron	ug/L	10000	10100	101	80-120	
Lead	ug/L	250	240	96	80-120	
Manganese	ug/L	250	248	99	80-120	
Sodium	mg/L	10	9.8	98	80-120	
Total Hardness by 2340B	mg/L		65.1			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2276111 2276112

Parameter	Units	40232081001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium	ug/L	<1.3	250	250	242	241	97	96	75-125	1	20	
Iron	ug/L	149	10000	10000	10300	10300	101	102	75-125	0	20	
Lead	ug/L	<5.9	250	250	239	238	95	95	75-125	0	20	
Manganese	ug/L	9.3	250	250	254	255	98	98	75-125	0	20	
Sodium	mg/L	168000 ug/L	10	10	176	181	76	126	75-125	3	20	P6
Total Hardness by 2340B	mg/L	157000 ug/L			219	220				0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

QC Batch: 394467
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40232350001, 40232350002

METHOD BLANK: 2276305 Matrix: Water
Associated Lab Samples: 40232350001, 40232350002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.30	1.0	08/31/21 09:23	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	08/31/21 09:23	
1,1-Dichloroethane	ug/L	<0.30	1.0	08/31/21 09:23	
1,1-Dichloroethene	ug/L	<0.58	1.0	08/31/21 09:23	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	08/31/21 09:23	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	08/31/21 09:23	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	08/31/21 09:23	
1,2-Dichloroethane	ug/L	<0.29	1.0	08/31/21 09:23	
1,2-Dichloropropane	ug/L	<0.45	1.0	08/31/21 09:23	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	08/31/21 09:23	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	08/31/21 09:23	
2-Butanone (MEK)	ug/L	<6.5	25.0	08/31/21 09:23	
Acetone	ug/L	<8.6	25.0	08/31/21 09:23	
Benzene	ug/L	<0.30	1.0	08/31/21 09:23	
Bromodichloromethane	ug/L	<0.42	1.0	08/31/21 09:23	
Bromoform	ug/L	<3.8	5.0	08/31/21 09:23	
Bromomethane	ug/L	<1.2	5.0	08/31/21 09:23	
Carbon disulfide	ug/L	<1.1	5.0	08/31/21 09:23	
Carbon tetrachloride	ug/L	<0.37	1.0	08/31/21 09:23	
Chlorobenzene	ug/L	<0.86	1.0	08/31/21 09:23	
Chloroethane	ug/L	<1.4	5.0	08/31/21 09:23	
Chloroform	ug/L	<1.2	5.0	08/31/21 09:23	
Chloromethane	ug/L	<1.6	5.0	08/31/21 09:23	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	08/31/21 09:23	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	08/31/21 09:23	
Dibromochloromethane	ug/L	<2.6	5.0	08/31/21 09:23	
Dibromomethane	ug/L	<0.99	5.0	08/31/21 09:23	
Dichlorodifluoromethane	ug/L	<0.46	5.0	08/31/21 09:23	
Ethylbenzene	ug/L	<0.33	1.0	08/31/21 09:23	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	08/31/21 09:23	
Methylene Chloride	ug/L	<0.32	5.0	08/31/21 09:23	
Naphthalene	ug/L	<1.1	5.0	08/31/21 09:23	
Styrene	ug/L	<0.36	1.0	08/31/21 09:23	
Tetrachloroethene	ug/L	<0.41	1.0	08/31/21 09:23	
Tetrahydrofuran	ug/L	<2.4	25.0	08/31/21 09:23	
Toluene	ug/L	<0.29	1.0	08/31/21 09:23	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	08/31/21 09:23	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	08/31/21 09:23	
Trichloroethene	ug/L	<0.32	1.0	08/31/21 09:23	
Trichlorofluoromethane	ug/L	<0.42	1.0	08/31/21 09:23	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

METHOD BLANK: 2276305 Matrix: Water
Associated Lab Samples: 40232350001, 40232350002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Vinyl chloride	ug/L	<0.17	1.0	08/31/21 09:23	
Xylene (Total)	ug/L	<1.0	3.0	08/31/21 09:23	
1,2-Dichlorobenzene-d4 (S)	%	100	70-130	08/31/21 09:23	
4-Bromofluorobenzene (S)	%	110	70-130	08/31/21 09:23	
Toluene-d8 (S)	%	105	70-130	08/31/21 09:23	

LABORATORY CONTROL SAMPLE: 2276306

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.8	104	70-130	
1,1,2-Trichloroethane	ug/L	50	52.2	104	70-130	
1,1-Dichloroethane	ug/L	50	54.2	108	68-132	
1,1-Dichloroethene	ug/L	50	55.1	110	85-126	
1,2-Dibromo-3-chloropropane	ug/L	50	48.8	98	51-126	
1,2-Dibromoethane (EDB)	ug/L	50	51.6	103	70-130	
1,2-Dichlorobenzene	ug/L	50	49.8	100	70-130	
1,2-Dichloroethane	ug/L	50	51.0	102	70-130	
1,2-Dichloropropane	ug/L	50	53.2	106	78-125	
1,3-Dichlorobenzene	ug/L	50	51.5	103	70-130	
1,4-Dichlorobenzene	ug/L	50	50.8	102	70-130	
Benzene	ug/L	50	52.8	106	70-132	
Bromodichloromethane	ug/L	50	52.0	104	70-130	
Bromoform	ug/L	50	45.9	92	65-130	
Bromomethane	ug/L	50	48.5	97	44-128	
Carbon disulfide	ug/L	50	53.7	107	60-140	
Carbon tetrachloride	ug/L	50	51.2	102	70-130	
Chlorobenzene	ug/L	50	49.9	100	70-130	
Chloroethane	ug/L	50	56.0	112	73-137	
Chloroform	ug/L	50	56.0	112	80-122	
Chloromethane	ug/L	50	54.0	108	27-148	
cis-1,2-Dichloroethene	ug/L	50	54.4	109	70-130	
cis-1,3-Dichloropropene	ug/L	50	52.6	105	70-130	
Dibromochloromethane	ug/L	50	47.5	95	70-130	
Dichlorodifluoromethane	ug/L	50	48.4	97	22-151	
Ethylbenzene	ug/L	50	50.8	102	80-123	
Methyl-tert-butyl ether	ug/L	50	49.8	100	66-130	
Methylene Chloride	ug/L	50	40.0	80	70-130	
Styrene	ug/L	50	52.5	105	70-130	
Tetrachloroethene	ug/L	50	47.6	95	70-130	
Toluene	ug/L	50	51.2	102	80-121	
trans-1,2-Dichloroethene	ug/L	50	55.0	110	70-130	
trans-1,3-Dichloropropene	ug/L	50	48.1	96	58-125	
Trichloroethene	ug/L	50	51.4	103	70-130	
Trichlorofluoromethane	ug/L	50	55.8	112	84-148	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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(920)469-2436

QUALITY CONTROL DATA

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

LABORATORY CONTROL SAMPLE: 2276306

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	50	57.5	115	63-142	
Xylene (Total)	ug/L	150	153	102	70-130	
1,2-Dichlorobenzene-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			106	70-130	
Toluene-d8 (S)	%			103	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2276466 2276467

Parameter	Units	40232425001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.30	50	50	52.7	52.5	105	105	70-130	0	20	
1,1,2-Trichloroethane	ug/L	<0.34	50	50	52.1	53.2	104	106	70-130	2	20	
1,1-Dichloroethane	ug/L	<0.30	50	50	55.6	55.5	111	111	68-132	0	20	
1,1-Dichloroethene	ug/L	<0.58	50	50	56.4	55.5	113	111	76-132	2	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	49.1	48.1	98	96	51-126	2	20	
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	52.0	52.6	104	105	70-130	1	20	
1,2-Dichlorobenzene	ug/L	<0.33	50	50	51.1	51.8	102	104	70-130	1	20	
1,2-Dichloroethane	ug/L	<0.29	50	50	54.2	52.6	108	105	70-130	3	20	
1,2-Dichloropropane	ug/L	<0.45	50	50	52.7	53.4	105	107	77-125	1	20	
1,3-Dichlorobenzene	ug/L	<0.35	50	50	53.9	54.2	108	108	70-130	1	20	
1,4-Dichlorobenzene	ug/L	<0.89	50	50	53.3	53.1	107	106	70-130	0	20	
Benzene	ug/L	<0.30	50	50	54.0	54.0	108	108	70-132	0	20	
Bromodichloromethane	ug/L	<0.42	50	50	52.8	52.5	106	105	70-130	0	20	
Bromoform	ug/L	<3.8	50	50	45.8	47.3	92	95	65-130	3	20	
Bromomethane	ug/L	<1.2	50	50	53.7	57.7	107	115	44-128	7	21	
Carbon disulfide	ug/L	<1.1	50	50	54.8	53.8	110	108	60-140	2	20	
Carbon tetrachloride	ug/L	<0.37	50	50	52.8	53.1	106	106	70-132	1	20	
Chlorobenzene	ug/L	<0.86	50	50	50.5	50.5	101	101	70-130	0	20	
Chloroethane	ug/L	<1.4	50	50	56.3	55.6	113	111	70-137	1	20	
Chloroform	ug/L	<1.2	50	50	57.7	56.5	115	113	80-122	2	20	
Chloromethane	ug/L	<1.6	50	50	55.0	54.0	110	108	17-149	2	20	
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	54.9	54.3	110	109	70-130	1	20	
cis-1,3-Dichloropropene	ug/L	<0.36	50	50	54.2	53.9	108	108	70-130	0	20	
Dibromochloromethane	ug/L	<2.6	50	50	48.4	49.2	97	98	70-130	2	20	
Dichlorodifluoromethane	ug/L	<0.46	50	50	48.4	46.9	97	94	22-158	3	20	
Ethylbenzene	ug/L	<0.33	50	50	51.3	52.4	103	105	80-123	2	20	
Methyl-tert-butyl ether	ug/L	<1.1	50	50	49.9	50.5	100	101	66-130	1	20	
Methylene Chloride	ug/L	<0.32	50	50	40.8	44.2	82	88	70-130	8	20	
Styrene	ug/L	<0.36	50	50	53.3	53.5	107	107	70-130	0	20	
Tetrachloroethene	ug/L	2.1	50	50	49.8	50.5	95	97	70-130	1	20	
Toluene	ug/L	<0.29	50	50	51.9	52.5	104	105	80-121	1	20	
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	55.5	55.9	111	112	70-134	1	20	
trans-1,3-Dichloropropene	ug/L	<3.5	50	50	48.3	50.1	97	100	58-130	4	20	
Trichloroethene	ug/L	<0.32	50	50	52.5	52.3	105	105	70-130	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALITY CONTROL DATA

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2276466 2276467

Parameter	Units	40232425001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Trichlorofluoromethane	ug/L	<0.42	50	50	56.9	55.8	114	112	82-151	2	20	
Vinyl chloride	ug/L	<0.17	50	50	57.2	56.8	114	114	61-143	1	20	
Xylene (Total)	ug/L	<1.0	150	150	155	157	104	105	70-130	1	20	
1,2-Dichlorobenzene-d4 (S)	%						99	99	70-130			
4-Bromofluorobenzene (S)	%						107	108	70-130			
Toluene-d8 (S)	%						103	103	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

QC Batch: 394536
QC Batch Method: EPA 3510
Analysis Method: EPA 8270E
Analysis Description: 8270E Water MSSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40232350001

METHOD BLANK: 2276530 Matrix: Water
Associated Lab Samples: 40232350001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4,5-Tetrachlorobenzene	ug/L	<1.0	5.0	09/01/21 09:20	
1,2,4-Trichlorobenzene	ug/L	<1.6	5.2	09/01/21 09:20	
1,2-Dichlorobenzene	ug/L	<1.4	5.0	09/01/21 09:20	
1,3-Dichlorobenzene	ug/L	<1.5	5.2	09/01/21 09:20	
1,4-Dichlorobenzene	ug/L	<1.4	5.0	09/01/21 09:20	
1-Methylnaphthalene	ug/L	<1.8	6.1	09/01/21 09:20	
2,2'-Oxybis(1-chloropropane)	ug/L	<1.2	5.0	09/01/21 09:20	
2,3,4,6-Tetrachlorophenol	ug/L	<1.9	6.5	09/01/21 09:20	
2,4,5-Trichlorophenol	ug/L	<0.64	5.0	09/01/21 09:20	
2,4,6-Trichlorophenol	ug/L	<0.80	5.0	09/01/21 09:20	
2,4-Dichlorophenol	ug/L	<0.90	5.0	09/01/21 09:20	
2,4-Dimethylphenol	ug/L	<1.2	5.0	09/01/21 09:20	
2,4-Dinitrophenol	ug/L	<2.5	10.0	09/01/21 09:20	
2,4-Dinitrotoluene	ug/L	<1.1	5.0	09/01/21 09:20	
2,6-Dinitrotoluene	ug/L	<0.77	5.0	09/01/21 09:20	
2-Chloronaphthalene	ug/L	<0.83	5.0	09/01/21 09:20	
2-Chlorophenol	ug/L	<0.83	5.0	09/01/21 09:20	
2-Methylnaphthalene	ug/L	<1.2	5.0	09/01/21 09:20	
2-Methylphenol(o-Cresol)	ug/L	<0.93	5.0	09/01/21 09:20	
2-Nitroaniline	ug/L	<0.95	5.0	09/01/21 09:20	
2-Nitrophenol	ug/L	<0.83	5.0	09/01/21 09:20	
3&4-Methylphenol(m&p Cresol)	ug/L	<0.61	5.0	09/01/21 09:20	
3,3'-Dichlorobenzidine	ug/L	<1.3	5.0	09/01/21 09:20	1q
3-Nitroaniline	ug/L	<1.4	5.0	09/01/21 09:20	
4,6-Dinitro-2-methylphenol	ug/L	<3.1	10.4	09/01/21 09:20	
4-Bromophenylphenyl ether	ug/L	<0.96	5.0	09/01/21 09:20	
4-Chloro-3-methylphenol	ug/L	<0.68	5.0	09/01/21 09:20	
4-Chlorophenylphenyl ether	ug/L	<0.83	5.0	09/01/21 09:20	
4-Nitroaniline	ug/L	<3.0	10	09/01/21 09:20	
4-Nitrophenol	ug/L	<3.1	10.2	09/01/21 09:20	
Acenaphthene	ug/L	<0.76	5.0	09/01/21 09:20	
Acenaphthylene	ug/L	<0.73	5.0	09/01/21 09:20	
Acetophenone	ug/L	<2.2	7.3	09/01/21 09:20	
Anthracene	ug/L	<0.81	5.0	09/01/21 09:20	
Benzo(a)anthracene	ug/L	<0.85	5.0	09/01/21 09:20	
Benzo(a)pyrene	ug/L	<1.3	5.0	09/01/21 09:20	
Benzo(b)fluoranthene	ug/L	<1.0	5.0	09/01/21 09:20	
Benzo(g,h,i)perylene	ug/L	<1.4	5.0	09/01/21 09:20	
Benzo(k)fluoranthene	ug/L	<1.1	5.0	09/01/21 09:20	
Benzyl alcohol	ug/L	<0.65	5.0	09/01/21 09:20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

METHOD BLANK: 2276530 Matrix: Water
Associated Lab Samples: 40232350001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
bis(2-Chloroethoxy)methane	ug/L	<1.3	5.0	09/01/21 09:20	
bis(2-Chloroethyl) ether	ug/L	<1.2	5.0	09/01/21 09:20	
bis(2-Ethylhexyl)phthalate	ug/L	<2.9	9.6	09/01/21 09:20	
Butylbenzylphthalate	ug/L	<1.3	5.0	09/01/21 09:20	
Chrysene	ug/L	<1.3	5.0	09/01/21 09:20	
Di-n-butylphthalate	ug/L	<1.2	5.0	09/01/21 09:20	
Di-n-octylphthalate	ug/L	<4.8	15.9	09/01/21 09:20	
Dibenz(a,h)anthracene	ug/L	<1.1	5.0	09/01/21 09:20	
Dibenzofuran	ug/L	<0.85	5.0	09/01/21 09:20	
Diethylphthalate	ug/L	<0.78	5.0	09/01/21 09:20	
Dimethylphthalate	ug/L	<0.72	5.0	09/01/21 09:20	
Fluoranthene	ug/L	<0.99	5.0	09/01/21 09:20	
Fluorene	ug/L	<0.91	5.0	09/01/21 09:20	
Hexachloro-1,3-butadiene	ug/L	<1.1	5.5	09/01/21 09:20	
Hexachlorobenzene	ug/L	<1.7	5.0	09/01/21 09:20	
Hexachlorocyclopentadiene	ug/L	<1.0	5.0	09/01/21 09:20	
Hexachloroethane	ug/L	<1.4	5.0	09/01/21 09:20	
Indeno(1,2,3-cd)pyrene	ug/L	<1.2	5.0	09/01/21 09:20	
Isophorone	ug/L	<0.77	5.0	09/01/21 09:20	
N-Nitroso-di-n-propylamine	ug/L	<1.1	5.0	09/01/21 09:20	
N-Nitrosodimethylamine	ug/L	<0.73	10.0	09/01/21 09:20	
N-Nitrosodiphenylamine	ug/L	<3.4	11.5	09/01/21 09:20	
Naphthalene	ug/L	<1.2	5.0	09/01/21 09:20	
Nitrobenzene	ug/L	<1.1	5.0	09/01/21 09:20	
Pentachlorophenol	ug/L	<4.6	15.2	09/01/21 09:20	
Phenanthrene	ug/L	<0.95	5.0	09/01/21 09:20	
Phenol	ug/L	<0.32	5.0	09/01/21 09:20	
Pyrene	ug/L	<1.2	5.0	09/01/21 09:20	
Pyridine	ug/L	<1.5	5.0	09/01/21 09:20	
2,4,6-Tribromophenol (S)	%	85	62-172	09/01/21 09:20	
2-Fluorobiphenyl (S)	%	84	54-107	09/01/21 09:20	
2-Fluorophenol (S)	%	52	23-69	09/01/21 09:20	
Nitrobenzene-d5 (S)	%	86	41-118	09/01/21 09:20	
Phenol-d6 (S)	%	33	12-120	09/01/21 09:20	
Terphenyl-d14 (S)	%	100	51-129	09/01/21 09:20	

LABORATORY CONTROL SAMPLE & LCSD: 2276531 2276554

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	37.1	35.8	74	72	64-130	3	20	
1,2-Dichlorobenzene	ug/L	50	31.5	33.4	63	67	50-130	6	20	
1,3-Dichlorobenzene	ug/L	50	29.0	29.9	58	60	41-130	3	20	
1,4-Dichlorobenzene	ug/L	50	29.9	30.4	60	61	46-89	2	20	
1-Methylnaphthalene	ug/L	50	46.4	45.4	93	91	70-130	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

LABORATORY CONTROL SAMPLE & LCSD: 2276531 2276554

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
2,2'-Oxybis(1-chloropropane)	ug/L	50	45.6	44.4	91	89	56-116	3	20	
2,4,5-Trichlorophenol	ug/L	50	46.5	47.3	93	95	60-122	2	28	
2,4,6-Trichlorophenol	ug/L	50	48.1	48.7	96	97	59-119	1	29	
2,4-Dichlorophenol	ug/L	50	47.3	48.1	95	96	50-120	2	33	
2,4-Dimethylphenol	ug/L	50	37.4	40.1	75	80	36-103	7	35	
2,4-Dinitrophenol	ug/L	50	35.3	38.7	71	77	34-120	9	35	
2,4-Dinitrotoluene	ug/L	50	50.0	50.4	100	101	70-130	1	20	
2,6-Dinitrotoluene	ug/L	50	51.0	50.1	102	100	70-134	2	20	
2-Chloronaphthalene	ug/L	50	47.4	46.5	95	93	70-126	2	20	
2-Chlorophenol	ug/L	50	41.9	45.6	84	91	50-130	9	31	
2-Methylnaphthalene	ug/L	50	45.8	44.4	92	89	70-130	3	20	
2-Methylphenol(o-Cresol)	ug/L	50	37.3	42.7	75	85	47-130	13	31	
2-Nitroaniline	ug/L	50	47.1	47.1	94	94	70-130	0	20	
2-Nitrophenol	ug/L	50	49.0	46.0	98	92	57-128	6	31	
3&4-Methylphenol(m&p Cresol)	ug/L	50	34.8	38.7	70	77	43-130	11	28	
3,3'-Dichlorobenzidine	ug/L	50	36.2	38.0	72	76	36-132	5	21	1q
3-Nitroaniline	ug/L	50	43.8	45.2	88	90	65-130	3	21	
4,6-Dinitro-2-methylphenol	ug/L	50	47.4	44.3	95	89	47-127	7	26	
4-Bromophenylphenyl ether	ug/L	50	54.8	51.0	110	102	70-130	7	20	
4-Chloro-3-methylphenol	ug/L	50	46.8	48.2	94	96	51-122	3	37	
4-Chlorophenylphenyl ether	ug/L	50	50.6	49.4	101	99	70-130	2	20	
4-Nitroaniline	ug/L	50	44.4	44.5	89	89	70-130	0	21	
4-Nitrophenol	ug/L	50	18.1	18.2	36	36	11-130	0	33	
Acenaphthene	ug/L	50	50.0	48.0	100	96	80-120	4	20	
Acenaphthylene	ug/L	50	48.7	48.3	97	97	70-130	1	20	
Anthracene	ug/L	50	53.4	53.3	107	107	70-130	0	20	
Benzo(a)anthracene	ug/L	50	51.1	50.7	102	101	70-130	1	20	
Benzo(a)pyrene	ug/L	50	46.1	46.7	92	93	73-123	1	20	
Benzo(b)fluoranthene	ug/L	50	47.0	48.4	94	97	70-130	3	20	
Benzo(g,h,i)perylene	ug/L	50	49.2	46.2	98	92	69-130	6	20	
Benzo(k)fluoranthene	ug/L	50	47.3	50.3	95	101	70-130	6	20	
Benzyl alcohol	ug/L	50	42.2	41.9	84	84	59-130	1	24	
bis(2-Chloroethoxy)methane	ug/L	50	51.6	48.7	103	97	70-130	6	20	
bis(2-Chloroethyl) ether	ug/L	50	48.3	47.6	97	95	70-130	1	20	
bis(2-Ethylhexyl)phthalate	ug/L	50	52.7	51.1	105	102	70-136	3	20	
Butylbenzylphthalate	ug/L	50	52.0	51.0	104	102	75-143	2	20	
Chrysene	ug/L	50	50.7	50.4	101	101	70-135	1	20	
Di-n-butylphthalate	ug/L	50	53.7	52.4	107	105	70-130	3	20	
Di-n-octylphthalate	ug/L	50	48.6	49.8	97	100	64-139	3	20	
Dibenz(a,h)anthracene	ug/L	50	46.5	45.1	93	90	48-141	3	20	
Dibenzofuran	ug/L	50	49.6	48.9	99	98	70-130	1	20	
Diethylphthalate	ug/L	50	50.2	51.9	100	104	70-130	3	20	
Dimethylphthalate	ug/L	50	50.6	51.2	101	102	70-130	1	20	
Fluoranthene	ug/L	50	49.7	49.2	99	98	83-134	1	20	
Fluorene	ug/L	50	50.1	49.7	100	99	70-130	1	20	
Hexachloro-1,3-butadiene	ug/L	50	25.5	28.1	51	56	51-103	10	20	
Hexachlorobenzene	ug/L	50	54.9	53.0	110	106	70-130	3	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

LABORATORY CONTROL SAMPLE & LCSD: 2276531 2276554

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Hexachlorocyclopentadiene	ug/L	50	19.5	21.2	39	42	21-130	9	24	
Hexachloroethane	ug/L	50	23.2	25.3	46	51	35-102	9	22	
Indeno(1,2,3-cd)pyrene	ug/L	50	43.2	41.8	86	84	63-127	3	20	
Isophorone	ug/L	50	51.5	49.6	103	99	70-130	4	20	
N-Nitroso-di-n-propylamine	ug/L	50	47.2	46.8	94	94	70-130	1	20	
N-Nitrosodimethylamine	ug/L	50	32.8	30.3	66	61	37-130	8	20	
N-Nitrosodiphenylamine	ug/L	50	54.1	53.2	108	106	77-119	2	20	
Naphthalene	ug/L	50	43.7	42.9	87	86	70-130	2	20	
Nitrobenzene	ug/L	50	50.1	45.4	100	91	70-130	10	20	
Pentachlorophenol	ug/L	50	41.9	41.4	84	83	53-101	1	24	
Phenanthrene	ug/L	50	52.1	50.3	104	101	70-130	4	20	
Phenol	ug/L	50	20.5	20.5	41	41	28-120	0	23	
Pyrene	ug/L	50	53.1	51.0	106	102	70-130	4	20	
Pyridine	ug/L	50	33.5	35.0	67	70	10-130	4	50	
2,4,6-Tribromophenol (S)	%				93	94	62-172			
2-Fluorobiphenyl (S)	%				90	87	54-107			
2-Fluorophenol (S)	%				58	62	23-69			
Nitrobenzene-d5 (S)	%				93	87	41-118			
Phenol-d6 (S)	%				36	36	12-120			
Terphenyl-d14 (S)	%				101	97	51-129			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

QC Batch: 394349
QC Batch Method: SM 2540D
Analysis Method: SM 2540D
Analysis Description: 2540D Total Suspended Solids
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40232350001

METHOD BLANK: 2275882 Matrix: Water
Associated Lab Samples: 40232350001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	<0.48	1.0	08/30/21 08:32	

LABORATORY CONTROL SAMPLE: 2275883

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	100	110	110	80-120	

SAMPLE DUPLICATE: 2275884

Parameter	Units	40232350001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	17.8	16.6	7	10	

SAMPLE DUPLICATE: 2275885

Parameter	Units	40232374001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	432	420	3	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

QC Batch: 394248
QC Batch Method: SM 5210B
Analysis Method: SM 5210B
Analysis Description: 5210B BOD, 5 day
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40232350001

METHOD BLANK: 2275059 Matrix: Water
Associated Lab Samples: 40232350001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	<2.0	2.0	09/01/21 09:10	

LABORATORY CONTROL SAMPLE & LCSD: 2275061 2275062

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	198	203	173	103	88	84.6-115	16	20	

LABORATORY CONTROL SAMPLE & LCSD: 2275061 2275066

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	198	203	215	103	109	84.6-115	6	20	

SAMPLE DUPLICATE: 2275063

Parameter	Units	40232350001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	444	441	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

QC Batch: 394750
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40232350001

METHOD BLANK: 2277421 Matrix: Water
Associated Lab Samples: 40232350001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	0.45J	2.0	09/03/21 11:18	
Sulfate	mg/L	<0.44	2.0	09/03/21 11:18	

LABORATORY CONTROL SAMPLE: 2277422

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.7	98	90-110	
Sulfate	mg/L	20	19.5	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2277423 2277424

Parameter	Units	40232211002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	104	400	400	537	564	108	115	90-110	5	15	M0
Sulfate	mg/L	77.3	400	400	504	524	107	112	90-110	4	15	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2277425 2277426

Parameter	Units	40232276001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	198	200	200	412	406	107	104	90-110	2	15	
Sulfate	mg/L	7.3J	200	200	223	215	108	104	90-110	4	15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

QC Batch: 394739
QC Batch Method: EPA 310.2
Analysis Method: EPA 310.2
Analysis Description: 310.2 Alkalinity
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40232350001

METHOD BLANK: 2277353 Matrix: Water
Associated Lab Samples: 40232350001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<7.4	24.8	09/02/21 08:42	

LABORATORY CONTROL SAMPLE: 2277354

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	101	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2277355 2277356

Parameter	Units	40232213001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	1100	500	500	1560	1570	93	94	90-110	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

QC Batch: 394721
QC Batch Method: EPA 350.1
Analysis Method: EPA 350.1
Analysis Description: 350.1 Ammonia, Distilled
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40232350001

METHOD BLANK: 2277224 Matrix: Water
Associated Lab Samples: 40232350001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.14	0.50	09/01/21 16:55	

LABORATORY CONTROL SAMPLE: 2277225

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	9.6	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2277226 2277227

Parameter	Units	40232230001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	1.7	10	10	11.6	11.6	100	99	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2277228 2277229

Parameter	Units	40232456001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	<0.14	10	10	10.1	10.0	99	99	90-110	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

QC Batch: 394801
QC Batch Method: EPA 351.2
Analysis Method: EPA 351.2
Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40232350001

METHOD BLANK: 2277752 Matrix: Water
Associated Lab Samples: 40232350001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.21	1.0	09/02/21 18:26	

LABORATORY CONTROL SAMPLE: 2277753

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	5	5.0	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2277754 2277755

Parameter	Units	40232212001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	53.6	50	50	103	102	99	97	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2277756 2277757

Parameter	Units	40232278001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	74.0	20	20	89.4	93.0	77	95	90-110	4	20	M0

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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(920)469-2436

QUALITY CONTROL DATA

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

QC Batch: 395004
QC Batch Method: EPA 410.4
Analysis Method: EPA 410.4
Analysis Description: 410.4 COD
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40232350001

METHOD BLANK: 2279184 Matrix: Water
Associated Lab Samples: 40232350001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	<14.7	50.0	09/07/21 19:19	

LABORATORY CONTROL SAMPLE: 2279185

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	540	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2279186 2279187

Parameter	Units	40232427001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	4200	10000	10000	14700	14500	105	103	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2279188 2279189

Parameter	Units	40232366001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	706	2000	2000	2810	2740	105	102	90-110	2	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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

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.

BATCH QUALIFIERS

Batch: 394623

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1q	The initial calibration verification standard was not within QC limits.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
pH	Post-analysis pH measurement indicates insufficient VOA sample preservation.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 21.0122 BARRETT LANDFILL
Pace Project No.: 40232350

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40232350001	**LEACHATE (258)**	EPA 3010A	394403	EPA 6010D	394566
40232350001	**LEACHATE (258)**	EPA 7470	394357	EPA 7470	394431
40232350001	**LEACHATE (258)**	EPA 3510	394536	EPA 8270E	394623
40232350001	**LEACHATE (258)**	EPA 8260	394467		
40232350002	**TRIP BLANK**	EPA 8260	394467		
40232350001	**LEACHATE (258)**				
40232350001	**LEACHATE (258)**	SM 2540D	394349		
40232350001	**LEACHATE (258)**	SM 5210B	394248	SM 5210B	394687
40232350001	**LEACHATE (258)**	EPA 300.0	394750		
40232350001	**LEACHATE (258)**	EPA 310.2	394739		
40232350001	**LEACHATE (258)**	EPA 350.1	394721	EPA 350.1	394745
40232350001	**LEACHATE (258)**	EPA 351.2	394801	EPA 351.2	394831
40232350001	**LEACHATE (258)**	EPA 410.4	395004	EPA 410.4	395049

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

COC No. 40232350

Pace Analytical®
www.pacelabs.com

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	Kapur & Associates Inc.
Branch/Location:	Glendale, WI
Project Contact:	Ashley Wagner
Phone:	(414) 351-6668
Project Number:	21.0122
Project Name:	Barrett Landfill
Project State:	Wisconsin
Sampled By (Print):	Ashley Wagner
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Ashley Wagner
Mail To Company:	Kapur & Associates Inc.
Mail To Address:	7711 N Port Washington Rd. Milwaukee, WI 53217
Invoice To Contact:	same
Invoice To Company:	as
Invoice To Address:	above
Invoice To Phone:	

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☐ NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Biota	DW = Drinking Water
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
SI = Sludge	WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO)	PRESERVATION (CODE)*	Analyses Requested	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					Y/N	Pick Letter				
					N	D	Metals + Hardness			
					N	C	Ammonia (N), TKN, COD			
					N	A	Alkalinity, Chloride, Sulfate			
					N	A	BOD 5-day			
					N	A	TSS			
					N	B	VOCs 8260			
					N	A	SVOCs 8270			
001	Leachate (258)	8.26.21	1450	W			1	1	1	1	1	1	3	2	GEMS ID 258	
002	Trip Blank	---	---	DI									2		Lab Prepared	
															pH (GEMS code 400)	
															9.28	
															Temp (GEMS code 10)	
															18.2	
															Cond. (GEMS code 94)	
	Metals (Cd, Fe, Pb, Na, Hg)														3999	
	**Please provide GEMS															
	data package**															

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	8.26.21 1530		
CS Logistics	8/27/21 0730	[signature] Kendal	8/27/21 0730

PACE Project No. 40232350

Receipt Temp = 3.5 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present

Intact / Not Intact

Sample Preservation Receipt Form

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: Kapur Project # 40232350

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

Lab Lot# of pH paper: 10D3604 Lab Std #ID of preservation (if pH adjusted): 407544

Initial when completed: AW Date/ Time: 8/27/21 0932

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						
001	2								2	1		1	1				3											X			6	5	2.5 / 5 / 10
002																	2															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																		8/27/21 AW														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

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

AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40232350

40232350

Client Name: Kapur

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

Tracking #: 1893 0826 21

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: 3.5 /Corr: 3.5

Temp Blank Present: ☒ yes ☐ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents: Date: 8/27/21 /Initials: AL

Labeled By Initials: SRK

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:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	(☒Yes) ~~☒No~~ 8/27/21 AL	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume: For Analysis: ☒Yes ☐No MS/MSD: ☐Yes ☒No ☐N/A		8.
Correct Containers Used:	☒Yes ☐No	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
Trip Blank Present:	☒Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☒Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 467		

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 logir

Page 2 of 2