

26850 Haggerty Road
Farmington Hills, Michigan 48331
United States
www.ghd.com



GHD Reference No: 11208058-Whom-11

July 31, 2024

**City of Bay City WWTP
Attn: IPP Coordinator
2905 North Water Street
Bay City, Michigan, 48708**

**Semi-Annual Compliance Report (January 1 to June 30, 2024)
RACER Bay City Industrial Land
Bay City, Michigan**

To Whom It May Concern,

The following letter has been prepared by GHD on behalf of Revitalizing Auto Communities Environmental Response Trust (RACER) in accordance with Part 4 Section 3 of Industrial User (IU) permit No. 120807 as the semi-annual compliance report for the period January 1 to June 30, 2024, for RACER's discharge from a groundwater extraction and treatment system located at the north end of Crotty Street in Bay City, Michigan (Site).

The groundwater extraction and treatment system operated consistently for this semi-annual period with the exception of short periods when the system was down for maintenance or as a result of an alarm condition.

Table 1 presents the results of the required semi-annual effluent samples collected from the RACER groundwater extraction and treatment system between January 16 and June 11, 2024. Attachment 1 presents the laboratory analytical reports. The analytical results did not identify an exceedance of the daily maximum discharge levels specified in the permit requirements.

The treatment system requires additional cleaning/maintenance which is scheduled for summer/fall 2024.

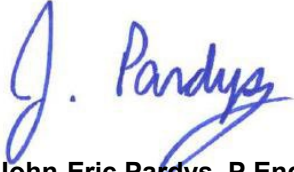
Table 2 presents the flow readings collected periodically from the flow meter.

The RACER groundwater extraction and treatment system is operated and maintained by John York (GHD).

See Attachment 2 for the certification statement prepared in accordance with Section 106-23(d) of the Bay City sewer ordinance.

Should you have any questions on the above, please do not hesitate to contact us.

Sincerely,



John-Eric Pardys, P.Eng.
Engineer

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JG/kf/11

cc: Grant Trigger (RACER)
Brendan Mullen (RACER)
Dave Favero (RACER)

Encl. Table 1 – Effluent Results Summary
Table 2 – Flow Meter Readings
Attachment 1 - Laboratory Analytical Report
Attachment 2 – Certification Statement

Table 1
Analytical Results Summary
Sampling
Bay City Industrial Land
Bay City, Michigan

Sample Location:			effluent-GWTS	effluent-GWTS	effluent-GWTS	effluent-GWTS
Sample ID:			W-11208058-011624-JY-002	W-11208058-011624-JY-003	GW-11208058-061124-JY-002	GW-11208058-061124-JY-003
Sample Date:			1/16/2024	1/16/2024	6/11/2024	6/11/2024
Parameters	Units	Daily Maximum ⁽¹⁾	Grab	Composite	Grab	Composite
VOAs						
Vinyl chloride	mg/L	0.002	0.001 U	-	0.001 U	-
Metals						
Cadmium	mg/L	0.057	-	0.002 U	-	0.002 U
Chromium	mg/L	6.812	-	0.005 U	-	0.005 U
Copper	mg/L	1.476	-	0.02 U	-	0.02 U
Iron	mg/L	--	-	0.1 U	-	0.17
Lead	mg/L	0.632	-	0.003 U	-	0.003 U
Mercury	mg/L	ND	-	0.0002 U	-	0.0002 U
Nickel	mg/L	2.548	-	0.0022 J	-	0.0029 J
Silver	mg/L	0.2	-	0.005 U	-	0.005 U
PCBs						
Aroclor-1016 (PCB-1016)	mg/L	ND	-	0.000096 U	-	0.000095 U
Aroclor-1221 (PCB-1221)	mg/L	ND	-	0.000096 U	-	0.000095 U
Aroclor-1232 (PCB-1232)	mg/L	ND	-	0.000096 U	-	0.000095 U
Aroclor-1242 (PCB-1242)	mg/L	ND	-	0.000096 U	-	0.000095 U
Aroclor-1248 (PCB-1248)	mg/L	ND	-	0.000096 U	-	0.000095 U
Aroclor-1254 (PCB-1254)	mg/L	ND	-	0.000096 U	-	0.000095 U
Aroclor-1260 (PCB-1260)	mg/L	ND	-	0.000096 U	-	0.000095 U
Wet						
Ammonia-N	mg/L	30	-	9.0	-	12
Biochemical oxygen demand (BOD)	mg/L	835	-	2.0 U	-	19 b
Chemical oxygen demand (COD)	mg/L	1670	-	5.1 J	-	33
Oil and grease (HEM), total	mg/L	100	2.2 J	-	2.0 J	-
pH, lab	s.u.	6.5 to 11.0	7.2 HF	-	7.7 HF	-
Phosphorus	mg/L	13.8	-	0.10 U	-	0.10 U
Total suspended solids (TSS)	mg/L	1336	-	4.0 U	-	0.90 J

Notes:

- (1) Bay City Industrial User Discharge Permit (120807)
b Result detected in the Unseeded Control blank (USB)
J Estimated concentration
HF Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
U Not detected at the associated reporting limit.

**Flow Meter Readings
Bay City Industrial Land
Bay City, Michigan**

Date	Flow Meter Totalized Reading (gallons)	Cumulative Total: (gallons)	Volume to be Invoiced Annually (July to June 30)	Comments
1-Jul-24	946,509	1,692,607	119,943	- City invoiced for discharge
11-Jun-24	938,316	1,684,414		- Collected effluent sample
3-Jun-24	935,412	1,681,510		
6-May-24	930,927	1,677,025		
1-Apr-24	916,525	1,662,623		
7-Mar-24	901,303	1,647,401		
5-Feb-24	892,261	1,638,359		
16-Jan-24				- Collected effluent sample
8-Jan-24	889,564	1,635,662		
22-Dec-23	889,370	1,635,468		
7-Nov-23	836,099	1,582,197		- City collecting sample
27-Oct-23	833,943	1,580,041		- System start-up
17-Oct-23				- Collected effluent sample, shutdown
16-Oct-23	833,137	1,579,235		- Start system for effluent sample
11-Sep-23	833,113	1,579,211		- System not operating
7-Aug-23				- System shut down
2-Aug-23	832,734	1,578,832		
7-Jul-23	828,158	1,574,256		
30-Jun-23	826,566	1,572,664	213,090	- Collected effluent sample, City invoiced for discharge
12-Jun-23	813,114	1,559,212		
5-May-23	784,200	1,530,298		
10-Apr-23	783,184	1,529,282		
20-Mar-23	777,866	1,523,964		
14-Feb-23	762,917	1,509,015		
16-Jan-23	757,367	1,503,465		- Collected effluent sample
5-Dec-22	700,568	1,446,666		
21-Nov-22	689,378	1,435,476		
25-Oct-22	688,227	1,434,325		
12-Sep-22	684,028	1,430,126		
23-Aug-22	672,428	1,418,526		- Collected effluent sample
17-Jun-22	619,110	1,365,208		
13-Jun-22	613,476	1,359,574	204,431	- City invoiced for discharge
26-May-22				- Collected effluent sample
24-May-22	610,180	1,356,278		
26-Apr-22	592,790	1,338,888		
23-Mar-22	592,060	1,338,158		
1-Mar-22	580,971	1,327,069		
24-Jan-22	580,938	1,327,036		
27-Dec-21	553,735	1,299,833		
23-Dec-21				- Collected effluent sample
29-Nov-21	533,997	1,280,095		
27-Sep-21	475,843	1,221,941		
20-Aug-21	436,048	1,182,146		
30-Jul-21	421,003	1,167,101		
23-Jun-21	409,045	1,155,143	139,856	- Collected effluent sample and City invoiced for discharge
27-May-21	400,420	1,146,518		
29-Apr-21	397,390	1,143,488		
23-Mar-21	371,797	1,117,895		
22-Feb-21	348,776	1,094,874		

**Flow Meter Readings
Bay City Industrial Land
Bay City, Michigan**

Date	Flow Meter Totalized Reading (gallons)	Cumulative Total: (gallons)	Volume to be Invoiced Annually (July to June 30)	Comments
21-Dec-20	308,935	1,055,033		
10-Dec-20				- Collected effluent sample
9-Dec-20	304,649	1,050,747		
12-Oct-20	278,099	1,024,197		
10-Sep-20	277,899	1,023,997		
25-Aug-20	277,020	1,023,118		
22-Jul-20	274,190	1,020,288		
22-Jun-20	270,975	1,017,073		
4-Jun-20	269,189	1,015,287	124,809	- City invoiced for discharge
28-May-20	268,089	1,014,187		- Collected effluent sample
28-Apr-20	263,922	1,010,020		
25-Mar-20	248,006	994,104		
20-Feb-20	227,965	974,063		
27-Jan-20	220,321	966,419		
5-Dec-19	200,031	946,129		- Collected PFAS effluent sample
25-Nov-19	192,582	938,680		
29-Oct-19	176,533	922,631		
28-Aug-19	168,508	914,606		
17-Jul-19	159,490	905,588		
17-Jun-19	144,380	890,478	122,047	- City invoiced for discharge
31-May-19				- Collected effluent sample
17-May-19	123,482	869,580		
19-Apr-19	105,745	851,843		
22-Mar-19	81,364	827,462		
28-Feb-19	77,720	823,818		
29-Jan-19	77,720	823,818		
20-Jan-19				- Collected effluent sample
12-Dec-18	77,570	823,668		- Collected effluent sample
29-Nov-18	76,972	823,070		
26-Sep-18	59,303	805,401		
30-Aug-18	53,199	799,297		
30-Jul-18	52,454	798,552		
20-Jun-18	35,274	781,372		
1-Jun-18				- Collected effluent sample
1-Jun-18	22,333	768,431	88,271	- City invoiced for discharge
31-May-18	20,490	766,588		
30-Apr-18	18,529	764,627		
29-Mar-18	11,243	757,341		
8-Mar-18	122,667	746,098		- Last reading before
8-Mar-18	0	746,098		- New Flow meter installed
30-Nov-17				- Collected effluent sample
25-Oct-17	73,702	697,133		
12-Jul-17	60,991	684,422		
28-Jun-17	56,911	680,342		
13-Jun-17	56,729	680,160	137,544	- City invoiced for discharge
22-May-17	56,722	680,153		
9-May-17				- Collected effluent sample
27-Apr-17	55,126	678,557		
2-Feb-17	5,813	629,244		
16-Jan-17				- Collected effluent sample
14-Jan-17	609,074	623,431		
14-Jan-17	0	623,431		

Table 2

**Flow Meter Readings
Bay City Industrial Land
Bay City, Michigan**

Date	Flow Meter Totalized Reading (gallons)	Cumulative Total: (gallons)	Volume to be Invoiced Annually (July to June 30)	Comments
16-Dec-16	609,074	623,431		
11-Nov-16	608,980	623,337		
28-Oct-16	608,865	623,222		
30-Sep-16	607,717	622,074		
31-Aug-16	607,298	621,655		
20-Jul-16	561,893	576,250		
29-Jun-16	556,457	570,814		
14-Jun-16	528,259	542,616	523,666	- Collected effluent sample,
31-May-16	521,920	536,277		
27-Apr-16	462,204	476,561		
21-Mar-16	409,836	424,193		
29-Feb-16	394,550	408,907		
10-Feb-16	387,410	401,767		
30-Dec-15	351,550	365,907		
10-Dec-15				- Collected effluent sample
23-Nov-15	289,731	304,088		
30-Oct-15	260,771	275,128		
29-Sep-15	252,638	266,995		
28-Aug-15	241,397	255,754		
29-Jul-15	232,315	246,672		
30-Jun-15	232,315	246,672		
25-Jun-15	232,315	246,672		
18-Jun-15	224,490	238,847		
6-May-15	197,766	212,123		
30-Apr-15	175,234	189,591		
19-Mar-15	67,425	81,782		
16-Mar-15				- Collected effluent sample
13-Feb-15	46,303	60,660		
27-Jan-15	31,004	45,361		
29-Dec-14	31,004	45,361		
26-Nov-14	31,004	45,361		
23-Oct-14	31,004	45,361		
23-Sep-14	11,504	25,861		
5-Sep-14	6,337	20,694		- Collected effluent sample
18-Aug-14	4,593	18,950		
28-Jul-14	4,593	18,950		
16-Jun-14	4,593	18,950	18,950	- City invoiced for discharge

Attachment 1

Laboratory Analytical Report

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Ruth Mickle
GHD Services Inc.
26850 Haggerty Rd.
Farmington Hills, Michigan 48331

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JOB DESCRIPTION

11208058, RACER Bay City

JOB NUMBER

240-198216-1

Eurofins Cleveland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Definitions/Glossary	5
Sample Summary	6
Detection Summary	7
Method Summary	8
Client Sample Results	9
QC Association Summary	16
QC Sample Results	19
Surrogate Summary	25
Lab Chronicle	26
Certification Summary	27
Chain of Custody	28

Case Narrative

Client: GHD Services Inc.
Project: 11208058, RACER Bay City

Job ID: 240-198216-1

Job ID: 240-198216-1

Eurofins Cleveland

Job Narrative 240-198216-1

Receipt

The samples were received on 1/17/2024 10:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.3°C

GC/MS VOA

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

PCBs

Method 608.3_PCB_PREC: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 240-600571.

Method 608.3_PCB_PREC: The following sample appears to contain polychlorinated biphenyls (PCBs); however, due to weathering or other environmental processes, the PCBs in the sample do not directly match any of the laboratory's Aroclor standards used for instrument calibration: W-11208058-011524-JY-001 (240-198216-1). The sample has been quantified and reported using the best overall Aroclor/standard pattern match relative to the reference standards.

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

Metals

Method 200.7: Some requested practical quantitation limits (PQLs) fall below the laboratory's verified standard quantitation limit. The continuing calibration blanks and method blanks may not support the lower PQL.

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

General Chemistry

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

Eurofins Cleveland

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 11208058, RACER Bay City

Job ID: 240-198216-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
s	Seeded Control Blank (SCB) Recovery High
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Sample Summary

Client: GHD Services Inc.
Project/Site: 11208058, RACER Bay City

Job ID: 240-198216-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-198216-1	W-11208058-011524-JY-001	Water	01/15/24 09:30	01/17/24 10:40
240-198216-2	W-11208058-011624-JY-002	Water	01/16/24 08:30	01/17/24 10:40
240-198216-3	W-11208058-011624-JY-003	Water	01/16/24 09:00	01/17/24 10:40

- 1
- 2
- 3
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- 13
- 14

Detection Summary

Client: GHD Services Inc.
Project/Site: 11208058, RACER Bay City

Job ID: 240-198216-1

Client Sample ID: W-11208058-011524-JY-001

Lab Sample ID: 240-198216-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1242	12		0.95	0.72	ug/L	10		608.3	Total/NA

Client Sample ID: W-11208058-011624-JY-002

Lab Sample ID: 240-198216-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HEM	2.2	J	4.9	1.0	mg/L	1		1664B	Total/NA
pH	7.2	HF	0.1	0.1	SU	1		4500 H+ B-2000	Total/NA

Client Sample ID: W-11208058-011624-JY-003

Lab Sample ID: 240-198216-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	2.2	J	20	2.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chemical Oxygen Demand	5.1	J	10	1.8	mg/L	1		410.4	Total/NA
Ammonia	9.0		0.20	0.076	mg/L	1		4500 NH3 H	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Method Summary

Client: GHD Services Inc.
Project/Site: 11208058, RACER Bay City

Job ID: 240-198216-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	EET CLE
608.3	Polychlorinated Biphenyls (PCBs) (GC)	EPA	EET CLE
200.7 Rev 4.4	Metals (ICP)	EPA	EET CLE
245.1	Mercury (CVAA)	EPA	EET CLE
1664B	HEM and SGT-HEM	1664B	EET CLE
410.4	COD	EPA	EET CLE
4500 H+ B-2000	pH	SM	EET CLE
4500 NH3 H	Ammonia	SM	EET CLE
5210B-2001	BOD, 5-Day	SM	EET CLE
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CLE
SM4500 P E-1999	Phosphorus	SM	EET CLE
200.7	Preparation, Total Recoverable Metals	EPA	EET CLE
245.1	Preparation, Mercury	EPA	EET CLE
608	Liquid-Liquid Extraction (Separatory Funnel)	EPA	EET CLE

Protocol References:

1664B = EPA-821-98-002

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Client Sample Results

Client: GHD Services Inc.
 Project/Site: 11208058, RACER Bay City

Job ID: 240-198216-1

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Client Sample ID: W-11208058-011624-JY-002

Date Collected: 01/16/24 08:30

Date Received: 01/17/24 10:40

Lab Sample ID: 240-198216-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.45	ug/L			01/19/24 16:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		62 - 137					01/19/24 16:29	1
4-Bromofluorobenzene (Surr)	103		56 - 136					01/19/24 16:29	1
Toluene-d8 (Surr)	101		78 - 122					01/19/24 16:29	1



Client Sample Results

Client: GHD Services Inc.
 Project/Site: 11208058, RACER Bay City

Job ID: 240-198216-1

Method: EPA 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Client Sample ID: W-11208058-011524-JY-001

Lab Sample ID: 240-198216-1

Date Collected: 01/15/24 09:30

Matrix: Water

Date Received: 01/17/24 10:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.95	U	0.95	0.53	ug/L	-	01/18/24 08:24	01/19/24 16:04	10
Aroclor-1221	0.95	U	0.95	0.54	ug/L	-	01/18/24 08:24	01/19/24 16:04	10
Aroclor-1232	0.95	U	0.95	0.70	ug/L	-	01/18/24 08:24	01/19/24 16:04	10
Aroclor-1242	12		0.95	0.72	ug/L	-	01/18/24 08:24	01/19/24 16:04	10
Aroclor-1248	0.95	U	0.95	0.48	ug/L	-	01/18/24 08:24	01/19/24 16:04	10
Aroclor-1254	0.95	U	0.95	0.38	ug/L	-	01/18/24 08:24	01/19/24 16:04	10
Aroclor-1260	0.95	U	0.95	0.44	ug/L	-	01/18/24 08:24	01/19/24 16:04	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>DCB Decachlorobiphenyl</i>	36		10 - 174				01/18/24 08:24	01/19/24 16:04	10
<i>Tetrachloro-m-xylene</i>	68		10 - 149				01/18/24 08:24	01/19/24 16:04	10

Client Sample Results

Client: GHD Services Inc.
 Project/Site: 11208058, RACER Bay City

Job ID: 240-198216-1

Method: EPA 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Client Sample ID: W-11208058-011624-JY-003

Lab Sample ID: 240-198216-3

Date Collected: 01/16/24 09:00

Matrix: Water

Date Received: 01/17/24 10:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.096	U	0.096	0.054	ug/L	-	01/18/24 08:24	01/19/24 16:19	1
Aroclor-1221	0.096	U	0.096	0.055	ug/L	-	01/18/24 08:24	01/19/24 16:19	1
Aroclor-1232	0.096	U	0.096	0.071	ug/L	-	01/18/24 08:24	01/19/24 16:19	1
Aroclor-1242	0.096	U	0.096	0.073	ug/L	-	01/18/24 08:24	01/19/24 16:19	1
Aroclor-1248	0.096	U	0.096	0.048	ug/L	-	01/18/24 08:24	01/19/24 16:19	1
Aroclor-1254	0.096	U	0.096	0.038	ug/L	-	01/18/24 08:24	01/19/24 16:19	1
Aroclor-1260	0.096	U	0.096	0.044	ug/L	-	01/18/24 08:24	01/19/24 16:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>DCB Decachlorobiphenyl</i>	62	-	10 - 174	01/18/24 08:24	01/19/24 16:19	1
<i>Tetrachloro-m-xylene</i>	60	-	10 - 149	01/18/24 08:24	01/19/24 16:19	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 11208058, RACER Bay City

Job ID: 240-198216-1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: W-11208058-011624-JY-003

Date Collected: 01/16/24 09:00

Date Received: 01/17/24 10:40

Lab Sample ID: 240-198216-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	5.0	U	5.0	0.62	ug/L		01/18/24 14:00	01/19/24 08:03	1
Cadmium	2.0	U	2.0	0.45	ug/L		01/18/24 14:00	01/19/24 08:03	1
Chromium	5.0	U	5.0	0.76	ug/L		01/18/24 14:00	01/19/24 08:03	1
Copper	20	U	20	3.5	ug/L		01/18/24 14:00	01/19/24 08:03	1
Iron	100	U	100	83	ug/L		01/18/24 14:00	01/19/24 08:03	1
Nickel	2.2	J	20	2.2	ug/L		01/18/24 14:00	01/19/24 08:03	1
Lead	3.0	U	3.0	2.8	ug/L		01/18/24 14:00	01/19/24 08:03	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 11208058, RACER Bay City

Job ID: 240-198216-1

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: W-11208058-011624-JY-003

Date Collected: 01/16/24 09:00

Date Received: 01/17/24 10:40

Lab Sample ID: 240-198216-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.13	ug/L		01/18/24 14:00	01/19/24 11:26	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 11208058, RACER Bay City

Job ID: 240-198216-1

General Chemistry

Client Sample ID: W-11208058-011624-JY-002

Date Collected: 01/16/24 08:30

Date Received: 01/17/24 10:40

Lab Sample ID: 240-198216-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (1664B)	2.2	J	4.9	1.0	mg/L			01/24/24 08:55	1
pH (SM 4500 H+ B-2000)	7.2	HF	0.1	0.1	SU			01/23/24 04:48	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: 11208058, RACER Bay City

Job ID: 240-198216-1

General Chemistry

Client Sample ID: W-11208058-011624-JY-003

Date Collected: 01/16/24 09:00

Date Received: 01/17/24 10:40

Lab Sample ID: 240-198216-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand (EPA 410.4)	5.1	J	10	1.8	mg/L			01/22/24 11:16	1
Ammonia (SM 4500 NH3 H)	9.0		0.20	0.076	mg/L			01/23/24 14:00	1
Biochemical Oxygen Demand (SM 5210B-2001)	2.0	U	2.0	2.0	mg/L			01/17/24 13:43	1
Total Suspended Solids (SM 2540D)	4.0	U	4.0	0.40	mg/L			01/19/24 12:22	1
Total Phosphorus as P (SM4500 P E-1999)	0.10	U	0.10	0.076	mg/L			01/24/24 10:36	1

QC Association Summary

Client: GHD Services Inc.
Project/Site: 11208058, RACER Bay City

Job ID: 240-198216-1

GC/MS VOA

Analysis Batch: 600689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-198216-2	W-11208058-011624-JY-002	Total/NA	Water	624.1	
MB 240-600689/9	Method Blank	Total/NA	Water	624.1	
LCS 240-600689/5	Lab Control Sample	Total/NA	Water	624.1	

GC Semi VOA

Prep Batch: 600571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-198216-1	W-11208058-011524-JY-001	Total/NA	Water	608	
240-198216-3	W-11208058-011624-JY-003	Total/NA	Water	608	
MB 240-600571/1-A	Method Blank	Total/NA	Water	608	
LCS 240-600571/2-A	Lab Control Sample	Total/NA	Water	608	
LCSD 240-600571/3-A	Lab Control Sample Dup	Total/NA	Water	608	

Analysis Batch: 600687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-198216-1	W-11208058-011524-JY-001	Total/NA	Water	608.3	600571
240-198216-3	W-11208058-011624-JY-003	Total/NA	Water	608.3	600571
MB 240-600571/1-A	Method Blank	Total/NA	Water	608.3	600571
LCS 240-600571/2-A	Lab Control Sample	Total/NA	Water	608.3	600571
LCSD 240-600571/3-A	Lab Control Sample Dup	Total/NA	Water	608.3	600571

Metals

Prep Batch: 600612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-198216-3	W-11208058-011624-JY-003	Total Recoverable	Water	200.7	
MB 240-600612/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 240-600612/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
240-198216-3 MS	W-11208058-011624-JY-003	Total Recoverable	Water	200.7	
240-198216-3 MSD	W-11208058-011624-JY-003	Total Recoverable	Water	200.7	

Prep Batch: 600618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-198216-3	W-11208058-011624-JY-003	Total/NA	Water	245.1	
MB 240-600618/1-A	Method Blank	Total/NA	Water	245.1	
LCS 240-600618/2-A	Lab Control Sample	Total/NA	Water	245.1	
240-198216-3 MS	W-11208058-011624-JY-003	Total/NA	Water	245.1	
240-198216-3 MSD	W-11208058-011624-JY-003	Total/NA	Water	245.1	

Analysis Batch: 600707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-198216-3	W-11208058-011624-JY-003	Total Recoverable	Water	200.7 Rev 4.4	600612
MB 240-600612/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	600612
LCS 240-600612/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	600612
240-198216-3 MS	W-11208058-011624-JY-003	Total Recoverable	Water	200.7 Rev 4.4	600612
240-198216-3 MSD	W-11208058-011624-JY-003	Total Recoverable	Water	200.7 Rev 4.4	600612

Analysis Batch: 600750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-198216-3	W-11208058-011624-JY-003	Total/NA	Water	245.1	600618
MB 240-600618/1-A	Method Blank	Total/NA	Water	245.1	600618

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QC Association Summary

Client: GHD Services Inc.
Project/Site: 11208058, RACER Bay City

Job ID: 240-198216-1

Metals (Continued)

Analysis Batch: 600750 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-600618/2-A	Lab Control Sample	Total/NA	Water	245.1	600618
240-198216-3 MS	W-11208058-011624-JY-003	Total/NA	Water	245.1	600618
240-198216-3 MSD	W-11208058-011624-JY-003	Total/NA	Water	245.1	600618

General Chemistry

Analysis Batch: 600508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-198216-3	W-11208058-011624-JY-003	Total/NA	Water	5210B-2001	
SCB 240-600508/2	Method Blank	Total/NA	Water	5210B-2001	
USB 240-600508/1	Method Blank	Total/NA	Water	5210B-2001	
LCS 240-600508/3	Lab Control Sample	Total/NA	Water	5210B-2001	

Analysis Batch: 600753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-198216-3	W-11208058-011624-JY-003	Total/NA	Water	SM 2540D	
MB 240-600753/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 240-600753/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 600880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-198216-3	W-11208058-011624-JY-003	Total/NA	Water	410.4	
MB 240-600880/9	Method Blank	Total/NA	Water	410.4	
LCS 240-600880/10	Lab Control Sample	Total/NA	Water	410.4	
240-198216-3 MS	W-11208058-011624-JY-003	Total/NA	Water	410.4	
240-198216-3 MSD	W-11208058-011624-JY-003	Total/NA	Water	410.4	

Analysis Batch: 600950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-198216-2	W-11208058-011624-JY-002	Total/NA	Water	4500 H+ B-2000	
LCS 240-600950/30	Lab Control Sample	Total/NA	Water	4500 H+ B-2000	
240-198216-2 DU	W-11208058-011624-JY-002	Total/NA	Water	4500 H+ B-2000	

Analysis Batch: 601051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-198216-3	W-11208058-011624-JY-003	Total/NA	Water	4500 NH3 H	
MB 240-601051/16	Method Blank	Total/NA	Water	4500 NH3 H	
LCS 240-601051/17	Lab Control Sample	Total/NA	Water	4500 NH3 H	

Analysis Batch: 601095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-198216-2	W-11208058-011624-JY-002	Total/NA	Water	1664B	
MB 240-601095/1	Method Blank	Total/NA	Water	1664B	
LCS 240-601095/2	Lab Control Sample	Total/NA	Water	1664B	

Analysis Batch: 601137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-198216-3	W-11208058-011624-JY-003	Total/NA	Water	SM4500 P E-1999	
MB 240-601137/3	Method Blank	Total/NA	Water	SM4500 P E-1999	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: 11208058, RACER Bay City

Job ID: 240-198216-1

General Chemistry (Continued)

Analysis Batch: 601137 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-601137/4	Lab Control Sample	Total/NA	Water	SM4500 P E-1999	
240-198216-3 MS	W-11208058-011624-JY-003	Total/NA	Water	SM4500 P E-1999	
240-198216-3 MSD	W-11208058-011624-JY-003	Total/NA	Water	SM4500 P E-1999	

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 11208058, RACER Bay City

Job ID: 240-198216-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-600689/9
Matrix: Water
Analysis Batch: 600689

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Vinyl chloride	1.0	U	1.0	0.45	ug/L			01/19/24 11:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	109		62 - 137				01/19/24 11:40	1	
4-Bromofluorobenzene (Surr)	103		56 - 136				01/19/24 11:40	1	
Toluene-d8 (Surr)	101		78 - 122				01/19/24 11:40	1	

Lab Sample ID: LCS 240-600689/5
Matrix: Water
Analysis Batch: 600689

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Vinyl chloride	20.0	16.4		ug/L		82	5 - 195
Surrogate	%Recovery	Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	104		62 - 137				
4-Bromofluorobenzene (Surr)	99		56 - 136				
Toluene-d8 (Surr)	100		78 - 122				

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 240-600571/1-A
Matrix: Water
Analysis Batch: 600687

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 600571

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aroclor-1016	0.10	U	0.10	0.056	ug/L		01/18/24 08:24	01/19/24 12:47	1
Aroclor-1221	0.10	U	0.10	0.057	ug/L		01/18/24 08:24	01/19/24 12:47	1
Aroclor-1232	0.10	U	0.10	0.074	ug/L		01/18/24 08:24	01/19/24 12:47	1
Aroclor-1242	0.10	U	0.10	0.076	ug/L		01/18/24 08:24	01/19/24 12:47	1
Aroclor-1248	0.10	U	0.10	0.050	ug/L		01/18/24 08:24	01/19/24 12:47	1
Aroclor-1254	0.10	U	0.10	0.040	ug/L		01/18/24 08:24	01/19/24 12:47	1
Aroclor-1260	0.10	U	0.10	0.046	ug/L		01/18/24 08:24	01/19/24 12:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
DCB Decachlorobiphenyl	86		10 - 174			01/18/24 08:24	01/19/24 12:47	1	
Tetrachloro-m-xylene	75		10 - 149			01/18/24 08:24	01/19/24 12:47	1	

Lab Sample ID: LCS 240-600571/2-A
Matrix: Water
Analysis Batch: 600687

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 600571

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Aroclor-1016	2.50	1.79		ug/L		71	50 - 140
Aroclor-1260	2.50	1.72		ug/L		69	8 - 140

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 11208058, RACER Bay City

Job ID: 240-198216-1

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: LCS 240-600571/2-A
Matrix: Water
Analysis Batch: 600687

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 600571

Surrogate	LCS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	79		10 - 174
Tetrachloro-m-xylene	68		10 - 149

Lab Sample ID: LCSD 240-600571/3-A
Matrix: Water
Analysis Batch: 600687

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 600571

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec		RPD	Limit
		Result	Qualifier				Limits	RPD		
Aroclor-1016	2.50	1.89		ug/L		76	50 - 140	6	30	
Aroclor-1260	2.50	1.68		ug/L		67	8 - 140	3	30	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	83		10 - 174
Tetrachloro-m-xylene	71		10 - 149

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 240-600612/1-A
Matrix: Water
Analysis Batch: 600707

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 600612

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Silver	5.0	U	5.0	0.62	ug/L		01/18/24 14:00	01/19/24 07:55	1
Cadmium	2.0	U	2.0	0.45	ug/L		01/18/24 14:00	01/19/24 07:55	1
Chromium	5.0	U	5.0	0.76	ug/L		01/18/24 14:00	01/19/24 07:55	1
Copper	20	U	20	3.5	ug/L		01/18/24 14:00	01/19/24 07:55	1
Iron	100	U	100	83	ug/L		01/18/24 14:00	01/19/24 07:55	1
Nickel	20	U	20	2.2	ug/L		01/18/24 14:00	01/19/24 07:55	1
Lead	3.0	U	3.0	2.8	ug/L		01/18/24 14:00	01/19/24 07:55	1

Lab Sample ID: LCS 240-600612/2-A
Matrix: Water
Analysis Batch: 600707

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 600612

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec	
		Result	Qualifier				Limits	RPD
Silver	100	100		ug/L		100	85 - 115	
Cadmium	1000	1020		ug/L		102	85 - 115	
Chromium	1000	938		ug/L		94	85 - 115	
Copper	1000	975		ug/L		98	85 - 115	
Iron	10000	9870		ug/L		99	85 - 115	
Nickel	1000	1010		ug/L		101	85 - 115	
Lead	1000	947		ug/L		95	85 - 115	

Lab Sample ID: 240-198216-3 MS
Matrix: Water
Analysis Batch: 600707

Client Sample ID: W-11208058-011624-JY-003
Prep Type: Total Recoverable
Prep Batch: 600612

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec	
				Result	Qualifier				Limits	RPD
Silver	5.0	U	100	98.2		ug/L		98	70 - 130	

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 11208058, RACER Bay City

Job ID: 240-198216-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 240-198216-3 MS
Matrix: Water
Analysis Batch: 600707

Client Sample ID: W-11208058-011624-JY-003
Prep Type: Total Recoverable
Prep Batch: 600612

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	2.0	U	1000	1030		ug/L		103	70 - 130
Chromium	5.0	U	1000	918		ug/L		92	70 - 130
Copper	20	U	1000	953		ug/L		95	70 - 130
Iron	100	U	10000	9580		ug/L		96	70 - 130
Nickel	2.2	J	1000	1020		ug/L		102	70 - 130
Lead	3.0	U	1000	937		ug/L		94	70 - 130

Lab Sample ID: 240-198216-3 MSD
Matrix: Water
Analysis Batch: 600707

Client Sample ID: W-11208058-011624-JY-003
Prep Type: Total Recoverable
Prep Batch: 600612

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	5.0	U	100	95.1		ug/L		95	70 - 130	3	20
Cadmium	2.0	U	1000	988		ug/L		99	70 - 130	4	20
Chromium	5.0	U	1000	881		ug/L		88	70 - 130	4	20
Copper	20	U	1000	919		ug/L		92	70 - 130	4	20
Iron	100	U	10000	9330		ug/L		93	70 - 130	3	20
Nickel	2.2	J	1000	977		ug/L		97	70 - 130	4	20
Lead	3.0	U	1000	898		ug/L		90	70 - 130	4	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 240-600618/1-A
Matrix: Water
Analysis Batch: 600750

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 600618

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.13	ug/L		01/18/24 14:00	01/19/24 11:22	1

Lab Sample ID: LCS 240-600618/2-A
Matrix: Water
Analysis Batch: 600750

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 600618

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	5.25		ug/L		105	85 - 115

Lab Sample ID: 240-198216-3 MS
Matrix: Water
Analysis Batch: 600750

Client Sample ID: W-11208058-011624-JY-003
Prep Type: Total/NA
Prep Batch: 600618

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.20	U	1.00	1.08		ug/L		108	70 - 130

Lab Sample ID: 240-198216-3 MSD
Matrix: Water
Analysis Batch: 600750

Client Sample ID: W-11208058-011624-JY-003
Prep Type: Total/NA
Prep Batch: 600618

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.20	U	1.00	1.08		ug/L		108	70 - 130	0	20

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 11208058, RACER Bay City

Job ID: 240-198216-1

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 240-601095/1
Matrix: Water
Analysis Batch: 601095

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM	5.0	U	5.0	1.0	mg/L			01/24/24 08:55	1

Lab Sample ID: LCS 240-601095/2
Matrix: Water
Analysis Batch: 601095

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
HEM	40.0	33.9		mg/L		85	78 - 114

Method: 410.4 - COD

Lab Sample ID: MB 240-600880/9
Matrix: Water
Analysis Batch: 600880

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	10	U	10	1.8	mg/L			01/22/24 11:16	1

Lab Sample ID: LCS 240-600880/10
Matrix: Water
Analysis Batch: 600880

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	46.4	43.5		mg/L		94	90 - 110

Lab Sample ID: 240-198216-3 MS
Matrix: Water
Analysis Batch: 600880

Client Sample ID: W-11208058-011624-JY-003
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	5.1	J	50.0	59.8		mg/L		109	90 - 110

Lab Sample ID: 240-198216-3 MSD
Matrix: Water
Analysis Batch: 600880

Client Sample ID: W-11208058-011624-JY-003
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chemical Oxygen Demand	5.1	J	50.0	58.1		mg/L		106	90 - 110	3	20

Method: 4500 H+ B-2000 - pH

Lab Sample ID: LCS 240-600950/30
Matrix: Water
Analysis Batch: 600950

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	9.14	9.2		SU		100	97 - 103

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QC Sample Results

Client: GHD Services Inc.
Project/Site: 11208058, RACER Bay City

Job ID: 240-198216-1

Method: 4500 H+ B-2000 - pH (Continued)

Lab Sample ID: 240-198216-2 DU
Matrix: Water
Analysis Batch: 600950

Client Sample ID: W-11208058-011624-JY-002
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.2	HF	7.2		SU		0	20

Method: 4500 NH3 H - Ammonia

Lab Sample ID: MB 240-601051/16
Matrix: Water
Analysis Batch: 601051

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.20	U	0.20	0.076	mg/L			01/23/24 13:42	1

Lab Sample ID: LCS 240-601051/17
Matrix: Water
Analysis Batch: 601051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	3.83	3.77		mg/L		98	90 - 110

Method: 5210B-2001 - BOD, 5-Day

Lab Sample ID: SCB 240-600508/2
Matrix: Water
Analysis Batch: 600508

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	SCB Result	SCB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	2.0	U s	2.0	2.0	mg/L			01/17/24 12:32	1

Lab Sample ID: USB 240-600508/1
Matrix: Water
Analysis Batch: 600508

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	2.0	U	2.0	2.0	mg/L			01/17/24 12:29	1

Lab Sample ID: LCS 240-600508/3
Matrix: Water
Analysis Batch: 600508

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Biochemical Oxygen Demand	198	181		mg/L		91	85 - 115

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 240-600753/1
Matrix: Water
Analysis Batch: 600753

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	4.0	U	4.0	0.40	mg/L			01/19/24 12:22	1

Eurofins Cleveland

QC Sample Results

Client: GHD Services Inc.
Project/Site: 11208058, RACER Bay City

Job ID: 240-198216-1

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: LCS 240-600753/2
Matrix: Water
Analysis Batch: 600753

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	60.1	49.0		mg/L		82	64 - 120

Method: SM4500 P E-1999 - Phosphorus

Lab Sample ID: MB 240-601137/3
Matrix: Water
Analysis Batch: 601137

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Phosphorus as P	0.10	U	0.10	0.076	mg/L			01/24/24 10:36	1

Lab Sample ID: LCS 240-601137/4
Matrix: Water
Analysis Batch: 601137

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Phosphorus as P	0.358	0.383		mg/L		107	77 - 120

Lab Sample ID: 240-198216-3 MS
Matrix: Water
Analysis Batch: 601137

Client Sample ID: W-11208058-011624-JY-003
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Phosphorus as P	0.10	U	0.500	0.601		mg/L		120	38 - 156

Lab Sample ID: 240-198216-3 MSD
Matrix: Water
Analysis Batch: 601137

Client Sample ID: W-11208058-011624-JY-003
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Phosphorus as P	0.10	U	0.500	0.564		mg/L		113	38 - 156	6	29

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 11208058, RACER Bay City

Job ID: 240-198216-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (62-137)	BFB (56-136)	TOL (78-122)
240-198216-2	W-11208058-011624-JY-002	110	103	101
LCS 240-600689/5	Lab Control Sample	104	99	100
MB 240-600689/9	Method Blank	109	103	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCBP1 (10-174)	TCX1 (10-149)
240-198216-1	W-11208058-011524-JY-001	36	68
240-198216-3	W-11208058-011624-JY-003	62	60
LCS 240-600571/2-A	Lab Control Sample	79	68
LCSD 240-600571/3-A	Lab Control Sample Dup	83	71
MB 240-600571/1-A	Method Blank	86	75

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 11208058, RACER Bay City

Job ID: 240-198216-1

Client Sample ID: W-11208058-011524-JY-001

Lab Sample ID: 240-198216-1

Date Collected: 01/15/24 09:30

Matrix: Water

Date Received: 01/17/24 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	608			600571	GBS	EET CLE	01/18/24 08:24
Total/NA	Analysis	608.3		10	600687	MBB	EET CLE	01/19/24 16:04

Client Sample ID: W-11208058-011624-JY-002

Lab Sample ID: 240-198216-2

Date Collected: 01/16/24 08:30

Matrix: Water

Date Received: 01/17/24 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	600689	HMB	EET CLE	01/19/24 16:29
Total/NA	Analysis	1664B		1	601095	JMR	EET CLE	01/24/24 08:55
Total/NA	Analysis	4500 H+ B-2000		1	600950	MS	EET CLE	01/23/24 04:48

Client Sample ID: W-11208058-011624-JY-003

Lab Sample ID: 240-198216-3

Date Collected: 01/16/24 09:00

Matrix: Water

Date Received: 01/17/24 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	608			600571	GBS	EET CLE	01/18/24 08:24
Total/NA	Analysis	608.3		1	600687	MBB	EET CLE	01/19/24 16:19
Total Recoverable	Prep	200.7			600612	TQ6W	EET CLE	01/18/24 14:00
Total Recoverable	Analysis	200.7 Rev 4.4		1	600707	KLC	EET CLE	01/19/24 08:03
Total/NA	Prep	245.1			600618	TQ6W	EET CLE	01/18/24 14:00
Total/NA	Analysis	245.1		1	600750	GK	EET CLE	01/19/24 11:26
Total/NA	Analysis	410.4		1	600880	MS	EET CLE	01/22/24 11:16
Total/NA	Analysis	4500 NH3 H		1	601051	JMR	EET CLE	01/23/24 14:00
Total/NA	Analysis	5210B-2001		1	600508	C5SV	EET CLE	01/17/24 13:43
Total/NA	Analysis	SM 2540D		1	600753	C5SV	EET CLE	01/19/24 12:22
Total/NA	Analysis	SM4500 P E-1999		1	601137	BLW	EET CLE	01/24/24 10:36

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: 11208058, RACER Bay City

Job ID: 240-198216-1

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-27-24
Georgia	State	4062	02-27-24
Illinois	NELAP	200004	07-31-24
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-28-24
Kentucky (WW)	State	KY98016	12-30-24
Michigan	State	9135	02-27-24
Minnesota	NELAP	039-999-348	12-31-24
New Jersey	NELAP	OH001	07-01-24
New York	NELAP	10975	04-01-24
Ohio	State	8303	02-27-24
Ohio VAP	State	ORELAP 4062	02-27-24
Oregon	NELAP	4062	02-27-24
Pennsylvania	NELAP	68-00340	08-31-24
Texas	NELAP	T104704517-22-19	08-31-24
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-24
West Virginia DEP	State	210	12-31-24

Client Information		Sampler: <i>S. Yom</i>		Lab PM: Heckler, Denise D.		COC No: 240-116270-40988.1	
Client Contact: Ms. Ruth Mickle		Phone: <i>734 231 6088</i>		E-Mail: Denise.Heckler@et.eurofins.com		Page: Page 1 of 1	
Company: GHD Services Inc.		PW/SID:		State of Origin: <i>Michigan</i>		Job #:	
Address: 26850 Haggerty Rd.		Due Date Requested:		Analysis Requested		Preservation Codes:	
City: Farmington Hills		TAT Requested (days): <i>5</i>		Perform MS/MSD (Yes or No)		A - HCL	
State, Zip: MI, 48331		Compliance Project: <i>SD 5 Day</i>		Field Filtered Sample (Yes or No)		M - Hexane	
Phone: 612-524-6872(Tel)		PO #: <i>11208058</i>		N <input checked="" type="checkbox"/> S <input checked="" type="checkbox"/> D <input checked="" type="checkbox"/> A <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> S <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>		N - None	
Email: ruth.mickle@ghd.com		Purchase Order Requested		608.3 PCB.PREC - PCBs		O - AsNaO2	
Project Name: 11208058, RACER Bay City		WO #: <i>11208058</i>		410.4, 4500_P_E, SM4500_NH3_H		P - Na2O4S	
Site:		Project #: <i>24006288</i>		200.7, 245.1		Q - Na2SO3	
SSOW#: <i>11208058-011524-3Y-001</i>		Sample Date		624.1_LL.PREC - Vinyl chloride		R - Na2S2O3	
Sample Identification		Sample Time		SM4500_H+ - pH		S - H2SO4	
W-11208058-011524-3Y-001		1-15-24 0930		1664B_NP - HEM		T - TSP Dodecahydrate	
W-11208058-011624-3Y-002		1-16-24 0830		2540D - TSS		U - Acetone	
W-11208058-011624-3Y-003		1-16-24 0900		5210B - BOD		V - MCAA	
				624.1_LL.PREC - Vinyl chloride		W - pH 4-5	
				200.7, 245.1		X - Trizma	
				410.4, 4500_P_E, SM4500_NH3_H		Y - EDTA	
				608.3 PCB.PREC - PCBs		Z - other (specify)	
				Field Filtered Sample (Yes or No)		Other:	
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				Perform MS/MSD (Yes or No)		Special Instructions/Note:	
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Eurofins – Cleveland Sample Receipt Form/Narrative
Barberton Facility


Login # : 198216

Client GHS Site Name _____ Cooler unpacked by: Wany Poye
 Cooler Received on 1-17-24 Opened on 1-17-24
 FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # EC Foam Box Client Cooler Box Other _____
 Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
 COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt See Multiple Cooler Form
 IR GUN # 22 (CF +10.0 °C) Observed Cooler Temp. 2.3 °C Corrected Cooler Temp. 2.3 °C

- | | | | |
|--|-----|----|---------------------------|
| 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity <u>1</u> | Yes | No | |
| -Were the seals on the outside of the cooler(s) signed & dated? | Yes | No | NA |
| -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? | Yes | No | NA |
| -Were tamper/custody seals intact and uncompromised? | Yes | No | NA |
| 3. Shippers' packing slip attached to the cooler(s)? | Yes | No | |
| 4. Did custody papers accompany the sample(s)? | Yes | No | |
| 5. Were the custody papers relinquished & signed in the appropriate place? | Yes | No | |
| 6. Was/were the person(s) who collected the samples clearly identified on the COC? | Yes | No | |
| 7. Did all bottles arrive in good condition (Unbroken)? | Yes | No | |
| 8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? | Yes | No | |
| 9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? | Yes | No | |
| 10. Were correct bottle(s) used for the test(s) indicated? | Yes | No | |
| 11. Sufficient quantity received to perform indicated analyses? | Yes | No | |
| 12. Are these work share samples and all listed on the COC? | Yes | No | |
| If yes, Questions 13-17 have been checked at the originating laboratory. | | | |
| 13. Were all preserved sample(s) at the correct pH upon receipt? | Yes | No | NA pH Strip Lot# HC316719 |
| 14. Were VOAs on the COC? | Yes | No | |
| 15. Were air bubbles >6 mm in any VOA vials?  Larger than this. | Yes | No | NA |
| 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ | Yes | No | |
| 17. Was a LL Hg or Me Hg trip blank present? | Yes | No | |

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page

Samples processed by: _____

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
 Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u>		<u>Preservation</u>	<u>Preservation</u>
			<u>pH</u>	<u>Temp</u>	<u>Added</u>	<u>Lot Number</u>
W-11208058-011524-JY-003	240-198216-A-3	Plastic 250ml - with Sulfuric Acid	<2	_____	_____	_____
W-11208058-011524-JY-003	240-198216-B-3	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Ruth Mickle
GHD Services Inc.
26850 Haggerty Rd.
Farmington Hills, Michigan 48331

Generated 6/26/2024 7:53:24 AM

JOB DESCRIPTION

11208058-E04-001Y24-001, RACER Bay City

JOB NUMBER

240-206021-1

Eurofins Cleveland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization



Generated
6/26/2024 7:53:24 AM

Authorized for release by
Denise Heckler, Project Manager II
Denise.Heckler@et.eurofinsus.com
(330)966-9477



Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Definitions/Glossary	5
Sample Summary	6
Detection Summary	7
Method Summary	8
Client Sample Results	9
QC Association Summary	17
QC Sample Results	19
Surrogate Summary	23
Lab Chronicle	24
Certification Summary	25
Chain of Custody	26

Case Narrative

Client: GHD Services Inc.
Project: 11208058-E04-001Y24-001, RACER Bay City

Job ID: 240-206021-1

Job ID: 240-206021-1

Eurofins Cleveland

Job Narrative 240-206021-1

Receipt

The samples were received on 6/12/2024 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.7°C.

GC/MS VOA

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

PCBs

Method 608.3_PCB_PREC: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 240-616726.

Method 608.3_PCB_PREC: The following samples appear to contain polychlorinated biphenyls (PCBs); however, the Aroclor patterns of the PCBs in the sample is altered and do not directly match the laboratory's individual Aroclor standards used for instrument calibration: GW-11208058-061024-JY-001 (240-206021-1). These altered PCB patterns may be caused by weathering, other environmental processes, and/or contributions from the presence of multiple Aroclors resulting in overlapping PCB patterns. The samples have been quantified and reported using the best overall Aroclor/standard pattern match.

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

Metals

Method 200.7 - Total Recoverable: Some requested practical quantitation limits (PQLs) fall below the laboratory's verified standard quantitation limit. The continuing calibration blanks and method blanks may not support the lower PQL.

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

General Chemistry

Method 5210B: The USB dilution water D.O. depletion was greater than 0.2 mg/L. The associated sample results in batch 240-616353 are qualified and reported.

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

Eurofins Cleveland

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 11208058-E04-001Y24-001, RACER Bay City

Job ID: 240-206021-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
b	Result Detected in the Unseeded Control blank (USB).
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Sample Summary

Client: GHD Services Inc.
Project/Site: 11208058-E04-001Y24-001, RACER Bay City

Job ID: 240-206021-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-206021-1	GW-11208058-061024-JY-001	Water	06/10/24 11:00	06/12/24 09:40
240-206021-2	GW-11208058-061124-JY-002	Water	06/11/24 08:15	06/12/24 09:40
240-206021-3	GW-11208058-061124-JY-003	Water	06/11/24 08:30	06/12/24 09:40
240-206021-4	TB-061124-11208058	Water	06/11/24 00:00	06/12/24 09:40

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Detection Summary

Client: GHD Services Inc.
 Project/Site: 11208058-E04-001Y24-001, RACER Bay City

Job ID: 240-206021-1

Client Sample ID: GW-11208058-061024-JY-001

Lab Sample ID: 240-206021-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1221	13		1.0	0.57	ug/L	10		608.3	Total/NA

Client Sample ID: GW-11208058-061124-JY-002

Lab Sample ID: 240-206021-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HEM	2.0	J	4.7	0.97	mg/L	1		1664B	Total/NA
pH	7.7	HF	0.1	0.1	SU	1		4500 H+ B-2000	Total/NA

Client Sample ID: GW-11208058-061124-JY-003

Lab Sample ID: 240-206021-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	170		100	83	ug/L	1		200.7 Rev 4.4	Total Recoverable
Nickel	2.9	J	20	2.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chemical Oxygen Demand	33		10	1.8	mg/L	1		410.4	Total/NA
Ammonia	12		1.0	0.38	mg/L	5		4500 NH3 H	Total/NA
Biochemical Oxygen Demand	19	b	2.0	2.0	mg/L	1		5210B-2001	Total/NA
Total Suspended Solids	0.90	J	4.0	0.40	mg/L	1		SM 2540D	Total/NA

Client Sample ID: TB-061124-11208058

Lab Sample ID: 240-206021-4

No Detections.

This Detection Summary does not include radiochemical test results.

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Method Summary

Client: GHD Services Inc.
Project/Site: 11208058-E04-001Y24-001, RACER Bay City

Job ID: 240-206021-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	EET CLE
608.3	Polychlorinated Biphenyls (PCBs) (GC)	EPA	EET CLE
200.7 Rev 4.4	Metals (ICP)	EPA	EET CLE
245.1	Mercury (CVAA)	EPA	EET CLE
1664B	HEM and SGT-HEM	1664B	EET CLE
410.4	COD	EPA	EET CLE
4500 H+ B-2000	pH	SM	EET CLE
4500 NH3 H	Ammonia	SM	EET CLE
5210B-2001	BOD, 5-Day	SM	EET CLE
SM 2540D	Solids, Total Suspended (TSS)	SM	EET CLE
SM4500 P E-1999	Phosphorus	SM	EET CLE
200.7	Preparation, Total Recoverable Metals	EPA	EET CLE
245.1	Preparation, Mercury	EPA	EET CLE
608	Liquid-Liquid Extraction (Separatory Funnel)	EPA	EET CLE

Protocol References:

- 1664B = EPA-821-98-002
- EPA = US Environmental Protection Agency
- SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

- EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Client Sample Results

Client: GHD Services Inc.
 Project/Site: 11208058-E04-001Y24-001, RACER Bay City

Job ID: 240-206021-1

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Client Sample ID: GW-11208058-061124-JY-002

Date Collected: 06/11/24 08:15

Date Received: 06/12/24 09:40

Lab Sample ID: 240-206021-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.45	ug/L			06/21/24 16:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		62 - 137					06/21/24 16:46	1
4-Bromofluorobenzene (Surr)	83		56 - 136					06/21/24 16:46	1
Toluene-d8 (Surr)	99		78 - 122					06/21/24 16:46	1



Client Sample Results

Client: GHD Services Inc.
 Project/Site: 11208058-E04-001Y24-001, RACER Bay City

Job ID: 240-206021-1

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Client Sample ID: TB-061124-11208058

Date Collected: 06/11/24 00:00

Date Received: 06/12/24 09:40

Lab Sample ID: 240-206021-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.45	ug/L			06/21/24 17:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		62 - 137					06/21/24 17:10	1
4-Bromofluorobenzene (Surr)	79		56 - 136					06/21/24 17:10	1
Toluene-d8 (Surr)	97		78 - 122					06/21/24 17:10	1



Client Sample Results

Client: GHD Services Inc.
 Project/Site: 11208058-E04-001Y24-001, RACER Bay City

Job ID: 240-206021-1

Method: EPA 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Client Sample ID: GW-11208058-061024-JY-001

Lab Sample ID: 240-206021-1

Date Collected: 06/10/24 11:00

Matrix: Water

Date Received: 06/12/24 09:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	1.0	U	1.0	0.56	ug/L	-	06/17/24 09:20	06/19/24 10:04	10
Aroclor-1221	13		1.0	0.57	ug/L	-	06/17/24 09:20	06/19/24 10:04	10
Aroclor-1232	1.0	U	1.0	0.74	ug/L	-	06/17/24 09:20	06/19/24 10:04	10
Aroclor-1242	1.0	U	1.0	0.76	ug/L	-	06/17/24 09:20	06/19/24 10:04	10
Aroclor-1248	1.0	U	1.0	0.50	ug/L	-	06/17/24 09:20	06/19/24 10:04	10
Aroclor-1254	1.0	U	1.0	0.40	ug/L	-	06/17/24 09:20	06/19/24 10:04	10
Aroclor-1260	1.0	U	1.0	0.46	ug/L	-	06/17/24 09:20	06/19/24 10:04	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>DCB Decachlorobiphenyl</i>	43		10 - 174				06/17/24 09:20	06/19/24 10:04	10
<i>Tetrachloro-m-xylene</i>	60		10 - 149				06/17/24 09:20	06/19/24 10:04	10

Client Sample Results

Client: GHD Services Inc.
 Project/Site: 11208058-E04-001Y24-001, RACER Bay City

Job ID: 240-206021-1

Method: EPA 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Client Sample ID: GW-11208058-061124-JY-003

Lab Sample ID: 240-206021-3

Date Collected: 06/11/24 08:30

Matrix: Water

Date Received: 06/12/24 09:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.095	U	0.095	0.053	ug/L		06/17/24 09:20	06/18/24 16:33	1
Aroclor-1221	0.095	U	0.095	0.054	ug/L		06/17/24 09:20	06/18/24 16:33	1
Aroclor-1232	0.095	U	0.095	0.070	ug/L		06/17/24 09:20	06/18/24 16:33	1
Aroclor-1242	0.095	U	0.095	0.072	ug/L		06/17/24 09:20	06/18/24 16:33	1
Aroclor-1248	0.095	U	0.095	0.048	ug/L		06/17/24 09:20	06/18/24 16:33	1
Aroclor-1254	0.095	U	0.095	0.038	ug/L		06/17/24 09:20	06/18/24 16:33	1
Aroclor-1260	0.095	U	0.095	0.044	ug/L		06/17/24 09:20	06/18/24 16:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	66		10 - 174	06/17/24 09:20	06/18/24 16:33	1
Tetrachloro-m-xylene	58		10 - 149	06/17/24 09:20	06/18/24 16:33	1

Client Sample Results

Client: GHD Services Inc.
 Project/Site: 11208058-E04-001Y24-001, RACER Bay City

Job ID: 240-206021-1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: GW-11208058-061124-JY-003

Lab Sample ID: 240-206021-3

Date Collected: 06/11/24 08:30

Matrix: Water

Date Received: 06/12/24 09:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	5.0	U	5.0	0.62	ug/L	-	06/13/24 14:00	06/14/24 13:09	1
Cadmium	2.0	U	2.0	0.45	ug/L	-	06/13/24 14:00	06/14/24 13:09	1
Chromium	5.0	U	5.0	0.76	ug/L	-	06/13/24 14:00	06/14/24 13:09	1
Copper	20	U	20	3.5	ug/L	-	06/13/24 14:00	06/14/24 13:09	1
Iron	170		100	83	ug/L	-	06/13/24 14:00	06/14/24 13:09	1
Nickel	2.9	J	20	2.2	ug/L	-	06/13/24 14:00	06/14/24 13:09	1
Lead	3.0	U	3.0	2.8	ug/L	-	06/13/24 14:00	06/14/24 13:09	1



Client Sample Results

Client: GHD Services Inc.
Project/Site: 11208058-E04-001Y24-001, RACER Bay City

Job ID: 240-206021-1

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: GW-11208058-061124-JY-003

Date Collected: 06/11/24 08:30

Date Received: 06/12/24 09:40

Lab Sample ID: 240-206021-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.13	ug/L		06/13/24 14:00	06/14/24 09:41	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: GHD Services Inc.
Project/Site: 11208058-E04-001Y24-001, RACER Bay City

Job ID: 240-206021-1

General Chemistry

Client Sample ID: GW-11208058-061124-JY-002

Date Collected: 06/11/24 08:15

Date Received: 06/12/24 09:40

Lab Sample ID: 240-206021-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (1664B)	2.0	J	4.7	0.97	mg/L			06/25/24 10:48	1
pH (SM 4500 H+ B-2000)	7.7	HF	0.1	0.1	SU			06/24/24 16:52	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 11208058-E04-001Y24-001, RACER Bay City

Job ID: 240-206021-1

General Chemistry

Client Sample ID: GW-11208058-061124-JY-003

Date Collected: 06/11/24 08:30

Date Received: 06/12/24 09:40

Lab Sample ID: 240-206021-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand (EPA 410.4)	33		10	1.8	mg/L			06/24/24 09:27	1
Ammonia (SM 4500 NH3 H)	12		1.0	0.38	mg/L			06/20/24 15:15	5
Biochemical Oxygen Demand (SM 5210B-2001)	19	b	2.0	2.0	mg/L			06/12/24 15:45	1
Total Suspended Solids (SM 2540D)	0.90	J	4.0	0.40	mg/L			06/13/24 09:26	1
Total Phosphorus as P (SM4500 P E-1999)	0.10	U	0.10	0.076	mg/L			06/25/24 08:11	1

QC Association Summary

Client: GHD Services Inc.
Project/Site: 11208058-E04-001Y24-001, RACER Bay City

Job ID: 240-206021-1

GC/MS VOA

Analysis Batch: 617368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-206021-2	GW-11208058-061124-JY-002	Total/NA	Water	624.1	
240-206021-4	TB-061124-11208058	Total/NA	Water	624.1	
MB 240-617368/10	Method Blank	Total/NA	Water	624.1	
LCS 240-617368/34	Lab Control Sample	Total/NA	Water	624.1	

GC Semi VOA

Prep Batch: 616726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-206021-1	GW-11208058-061024-JY-001	Total/NA	Water	608	
240-206021-3	GW-11208058-061124-JY-003	Total/NA	Water	608	
MB 240-616726/1-A	Method Blank	Total/NA	Water	608	
LCS 240-616726/2-A	Lab Control Sample	Total/NA	Water	608	

Analysis Batch: 616965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-206021-3	GW-11208058-061124-JY-003	Total/NA	Water	608.3	616726
MB 240-616726/1-A	Method Blank	Total/NA	Water	608.3	616726
LCS 240-616726/2-A	Lab Control Sample	Total/NA	Water	608.3	616726

Analysis Batch: 617076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-206021-1	GW-11208058-061024-JY-001	Total/NA	Water	608.3	616726

Metals

Prep Batch: 616466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-206021-3	GW-11208058-061124-JY-003	Total Recoverable	Water	200.7	
MB 240-616466/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 240-616466/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Prep Batch: 616469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-206021-3	GW-11208058-061124-JY-003	Total/NA	Water	245.1	
MB 240-616469/1-A	Method Blank	Total/NA	Water	245.1	
LCS 240-616469/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 616596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-206021-3	GW-11208058-061124-JY-003	Total/NA	Water	245.1	616469
MB 240-616469/1-A	Method Blank	Total/NA	Water	245.1	616469
LCS 240-616469/2-A	Lab Control Sample	Total/NA	Water	245.1	616469

Analysis Batch: 616603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-206021-3	GW-11208058-061124-JY-003	Total Recoverable	Water	200.7 Rev 4.4	616466
MB 240-616466/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	616466
LCS 240-616466/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	616466

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QC Association Summary

Client: GHD Services Inc.
Project/Site: 11208058-E04-001Y24-001, RACER Bay City

Job ID: 240-206021-1

General Chemistry

Analysis Batch: 616353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-206021-3	GW-11208058-061124-JY-003	Total/NA	Water	5210B-2001	
SCB 240-616353/2	Method Blank	Total/NA	Water	5210B-2001	
USB 240-616353/1	Method Blank	Total/NA	Water	5210B-2001	
LCS 240-616353/3	Lab Control Sample	Total/NA	Water	5210B-2001	

Analysis Batch: 616418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-206021-3	GW-11208058-061124-JY-003	Total/NA	Water	SM 2540D	
MB 240-616418/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 240-616418/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 617323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-206021-3	GW-11208058-061124-JY-003	Total/NA	Water	4500 NH3 H	
MB 240-617323/76	Method Blank	Total/NA	Water	4500 NH3 H	
LCS 240-617323/77	Lab Control Sample	Total/NA	Water	4500 NH3 H	

Analysis Batch: 617592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-206021-3	GW-11208058-061124-JY-003	Total/NA	Water	410.4	
MB 240-617592/9	Method Blank	Total/NA	Water	410.4	
LCS 240-617592/10	Lab Control Sample	Total/NA	Water	410.4	

Analysis Batch: 617727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-206021-3	GW-11208058-061124-JY-003	Total/NA	Water	SM4500 P E-1999	
MB 240-617727/3	Method Blank	Total/NA	Water	SM4500 P E-1999	
LCS 240-617727/4	Lab Control Sample	Total/NA	Water	SM4500 P E-1999	

Analysis Batch: 617728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-206021-2	GW-11208058-061124-JY-002	Total/NA	Water	4500 H+ B-2000	
240-206021-2 DU	GW-11208058-061124-JY-002	Total/NA	Water	4500 H+ B-2000	

Analysis Batch: 617792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-206021-2	GW-11208058-061124-JY-002	Total/NA	Water	1664B	
MB 240-617792/1	Method Blank	Total/NA	Water	1664B	
LCS 240-617792/2	Lab Control Sample	Total/NA	Water	1664B	

QC Sample Results

Client: GHD Services Inc.
Project/Site: 11208058-E04-001Y24-001, RACER Bay City

Job ID: 240-206021-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-617368/10
Matrix: Water
Analysis Batch: 617368

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Vinyl chloride	1.0	U	1.0	0.45	ug/L			06/21/24 13:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		62 - 137					06/21/24 13:10	1
4-Bromofluorobenzene (Surr)	86		56 - 136					06/21/24 13:10	1
Toluene-d8 (Surr)	101		78 - 122					06/21/24 13:10	1

Lab Sample ID: LCS 240-617368/34
Matrix: Water
Analysis Batch: 617368

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Vinyl chloride	20.0	14.7		ug/L		74	5 - 195
Surrogate	%Recovery	Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	103		62 - 137				
4-Bromofluorobenzene (Surr)	87		56 - 136				
Toluene-d8 (Surr)	102		78 - 122				

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 240-616726/1-A
Matrix: Water
Analysis Batch: 616965

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 616726

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aroclor-1016	0.10	U	0.10	0.056	ug/L		06/17/24 09:20	06/18/24 19:39	1
Aroclor-1221	0.10	U	0.10	0.057	ug/L		06/17/24 09:20	06/18/24 19:39	1
Aroclor-1232	0.10	U	0.10	0.074	ug/L		06/17/24 09:20	06/18/24 19:39	1
Aroclor-1242	0.10	U	0.10	0.076	ug/L		06/17/24 09:20	06/18/24 19:39	1
Aroclor-1248	0.10	U	0.10	0.050	ug/L		06/17/24 09:20	06/18/24 19:39	1
Aroclor-1254	0.10	U	0.10	0.040	ug/L		06/17/24 09:20	06/18/24 19:39	1
Aroclor-1260	0.10	U	0.10	0.046	ug/L		06/17/24 09:20	06/18/24 19:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	60		10 - 174				06/17/24 09:20	06/18/24 19:39	1
Tetrachloro-m-xylene	47		10 - 149				06/17/24 09:20	06/18/24 19:39	1

Lab Sample ID: LCS 240-616726/2-A
Matrix: Water
Analysis Batch: 616965

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 616726

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Aroclor-1016	2.50	1.46		ug/L		59	50 - 140
Aroclor-1260	2.50	1.78		ug/L		71	8 - 140

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QC Sample Results

Client: GHD Services Inc.
 Project/Site: 11208058-E04-001Y24-001, RACER Bay City

Job ID: 240-206021-1

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: LCS 240-616726/2-A
Matrix: Water
Analysis Batch: 616965

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 616726

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	63		10 - 174
Tetrachloro-m-xylene	50		10 - 149

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 240-616466/1-A
Matrix: Water
Analysis Batch: 616603

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 616466

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Silver	5.0	U	5.0	0.62	ug/L		06/13/24 14:00	06/14/24 12:08	1
Cadmium	2.0	U	2.0	0.45	ug/L		06/13/24 14:00	06/14/24 12:08	1
Chromium	5.0	U	5.0	0.76	ug/L		06/13/24 14:00	06/14/24 12:08	1
Copper	20	U	20	3.5	ug/L		06/13/24 14:00	06/14/24 12:08	1
Iron	100	U	100	83	ug/L		06/13/24 14:00	06/14/24 12:08	1
Nickel	20	U	20	2.2	ug/L		06/13/24 14:00	06/14/24 12:08	1
Lead	3.0	U	3.0	2.8	ug/L		06/13/24 14:00	06/14/24 12:08	1

Lab Sample ID: LCS 240-616466/2-A
Matrix: Water
Analysis Batch: 616603

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 616466

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Silver	100	92.0		ug/L		92	85 - 115
Cadmium	1000	925		ug/L		93	85 - 115
Chromium	1000	880		ug/L		88	85 - 115
Copper	1000	895		ug/L		90	85 - 115
Iron	10000	9130		ug/L		91	85 - 115
Nickel	1000	938		ug/L		94	85 - 115
Lead	1000	866		ug/L		87	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 240-616469/1-A
Matrix: Water
Analysis Batch: 616596

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 616469

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	0.20	U	0.20	0.13	ug/L		06/13/24 14:00	06/14/24 09:21	1

Lab Sample ID: LCS 240-616469/2-A
Matrix: Water
Analysis Batch: 616596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 616469

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Mercury	5.00	4.69		ug/L		94	85 - 115

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QC Sample Results

Client: GHD Services Inc.
 Project/Site: 11208058-E04-001Y24-001, RACER Bay City

Job ID: 240-206021-1

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 240-617792/1
 Matrix: Water
 Analysis Batch: 617792

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM	5.0	U	5.0	1.0	mg/L			06/25/24 10:48	1

Lab Sample ID: LCS 240-617792/2
 Matrix: Water
 Analysis Batch: 617792

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
HEM	40.0	33.2		mg/L		83	78 - 114

Method: 410.4 - COD

Lab Sample ID: MB 240-617592/9
 Matrix: Water
 Analysis Batch: 617592

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	10	U	10	1.8	mg/L			06/24/24 09:27	1

Lab Sample ID: LCS 240-617592/10
 Matrix: Water
 Analysis Batch: 617592

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	41.2	41.3		mg/L		100	90 - 110

Method: 4500 H+ B-2000 - pH

Lab Sample ID: 240-206021-2 DU
 Matrix: Water
 Analysis Batch: 617728

Client Sample ID: GW-11208058-061124-JY-002
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.7	HF	7.7		SU		0.3	20

Method: 4500 NH3 H - Ammonia

Lab Sample ID: MB 240-617323/76
 Matrix: Water
 Analysis Batch: 617323

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.20	U	0.20	0.076	mg/L			06/20/24 13:54	1

Lab Sample ID: LCS 240-617323/77
 Matrix: Water
 Analysis Batch: 617323

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	8.50	8.27		mg/L		97	90 - 110

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QC Sample Results

Client: GHD Services Inc.
 Project/Site: 11208058-E04-001Y24-001, RACER Bay City

Job ID: 240-206021-1

Method: 5210B-2001 - BOD, 5-Day

Lab Sample ID: SCB 240-616353/2
Matrix: Water
Analysis Batch: 616353

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	SCB Result	SCB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	2.0	U	2.0	2.0	mg/L			06/12/24 14:25	1

Lab Sample ID: USB 240-616353/1
Matrix: Water
Analysis Batch: 616353

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	2.0	U	2.0	2.0	mg/L			06/12/24 14:23	1

Lab Sample ID: LCS 240-616353/3
Matrix: Water
Analysis Batch: 616353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Biochemical Oxygen Demand	198	169		mg/L		85	85 - 115

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 240-616418/1
Matrix: Water
Analysis Batch: 616418

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	4.0	U	4.0	0.40	mg/L			06/13/24 09:26	1

Lab Sample ID: LCS 240-616418/2
Matrix: Water
Analysis Batch: 616418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	55.9	65.0		mg/L		116	64 - 120

Method: SM4500 P E-1999 - Phosphorus

Lab Sample ID: MB 240-617727/3
Matrix: Water
Analysis Batch: 617727

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Phosphorus as P	0.10	U	0.10	0.076	mg/L			06/25/24 08:11	1

Lab Sample ID: LCS 240-617727/4
Matrix: Water
Analysis Batch: 617727

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Phosphorus as P	0.358	0.317		mg/L		89	77 - 120

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Surrogate Summary

Client: GHD Services Inc.
Project/Site: 11208058-E04-001Y24-001, RACER Bay City

Job ID: 240-206021-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (62-137)	BFB (56-136)	TOL (78-122)
240-206021-2	GW-11208058-061124-JY-002	97	83	99
240-206021-4	TB-061124-11208058	98	79	97
LCS 240-617368/34	Lab Control Sample	103	87	102
MB 240-617368/10	Method Blank	100	86	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCBP1 (10-174)	TCX1 (10-149)
240-206021-1	GW-11208058-061024-JY-001	43	60
240-206021-3	GW-11208058-061124-JY-003	66	58
LCS 240-616726/2-A	Lab Control Sample	63	50
MB 240-616726/1-A	Method Blank	60	47

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Lab Chronicle

Client: GHD Services Inc.
 Project/Site: 11208058-E04-001Y24-001, RACER Bay City

Job ID: 240-206021-1

Client Sample ID: GW-11208058-061024-JY-001

Lab Sample ID: 240-206021-1

Date Collected: 06/10/24 11:00

Matrix: Water

Date Received: 06/12/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	608			616726	GBS	EET CLE	06/17/24 09:20
Total/NA	Analysis	608.3		10	617076	LSH	EET CLE	06/19/24 10:04

Client Sample ID: GW-11208058-061124-JY-002

Lab Sample ID: 240-206021-2

Date Collected: 06/11/24 08:15

Matrix: Water

Date Received: 06/12/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	617368	HMB	EET CLE	06/21/24 16:46
Total/NA	Analysis	1664B		1	617792	JMR	EET CLE	06/25/24 10:48
Total/NA	Analysis	4500 H+ B-2000		1	617728	JMR	EET CLE	06/24/24 16:52

Client Sample ID: GW-11208058-061124-JY-003

Lab Sample ID: 240-206021-3

Date Collected: 06/11/24 08:30

Matrix: Water

Date Received: 06/12/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	608			616726	GBS	EET CLE	06/17/24 09:20
Total/NA	Analysis	608.3		1	616965	LSH	EET CLE	06/18/24 16:33
Total Recoverable	Prep	200.7			616466	S4FJ	EET CLE	06/13/24 14:00
Total Recoverable	Analysis	200.7 Rev 4.4		1	616603	AJC	EET CLE	06/14/24 13:09
Total/NA	Prep	245.1			616469	S4FJ	EET CLE	06/13/24 14:00
Total/NA	Analysis	245.1		1	616596	TQ6W	EET CLE	06/14/24 09:41
Total/NA	Analysis	410.4		1	617592	MS	EET CLE	06/24/24 09:27
Total/NA	Analysis	4500 NH3 H		5	617323	AJ	EET CLE	06/20/24 15:15
Total/NA	Analysis	5210B-2001		1	616353	BLW	EET CLE	06/12/24 15:45
Total/NA	Analysis	SM 2540D		1	616418	UWU2	EET CLE	06/13/24 09:26
Total/NA	Analysis	SM4500 P E-1999		1	617727	BLW	EET CLE	06/25/24 08:11

Client Sample ID: TB-061124-11208058

Lab Sample ID: 240-206021-4

Date Collected: 06/11/24 00:00

Matrix: Water

Date Received: 06/12/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	617368	HMB	EET CLE	06/21/24 17:10

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: 11208058-E04-001Y24-001, RACER Bay City

Job ID: 240-206021-1

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	07-31-24
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Jersey	NELAP	OH001	06-30-24
New York	NELAP	10975	04-02-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-28-25
Pennsylvania	NELAP	68-00340	08-31-24
Texas	NELAP	T104704517-22-19	08-31-24
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-24
West Virginia DEP	State	210	12-31-24

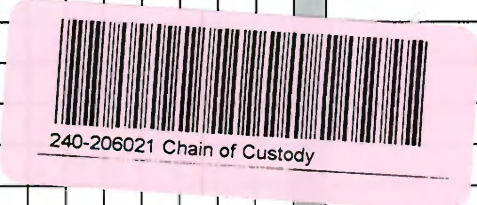
Eurofins Cleveland

180 S. Van Buren Avenue
 Barberton, OH 44203
 Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

1.5
1.7

Client Information		Sampler: <u>John York</u>		Lab PM: Heckler, Denise D		Carrier Tracking No(s):		COC No: 240-121056-38912.1																									
Client Contact: Ms. Ruth Mickle		Phone: <u>734 231 6088</u>		E-Mail: Denise.Heckler@et.eurofinsus.com		State of Origin: <u>Michigan</u>		Page: Page 1 of 1																									
Company: GHD Services Inc.		PWSID:		Analysis Requested						Job #: <u>11208058</u>																							
Address: 26850 Haggerty Rd.		Due Date Requested:		<table border="1"> <tr> <td>Field Filtered Sample (Yes or No)</td> <td>Perform MS/MSD (Yes or No)</td> <td>624.1_LL_PREC - Vinyl chloride</td> <td>410.4_4500_P_E, SM4500_NH3_H</td> <td>200.7 - Select Metals + Hg</td> <td>608.3_PCB_PREC - PCBs</td> <td>5210B - BOD</td> <td>2540D - TSS</td> <td>1664B_NP - HEM</td> <td>SM4500_H+ - pH</td> <td>Total Number of containers</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>						Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	624.1_LL_PREC - Vinyl chloride	410.4_4500_P_E, SM4500_NH3_H	200.7 - Select Metals + Hg	608.3_PCB_PREC - PCBs	5210B - BOD	2540D - TSS	1664B_NP - HEM	SM4500_H+ - pH	Total Number of containers												Preservation Codes: A - HCL S - H2SO4 D - HNO3 N - None	
Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	624.1_LL_PREC - Vinyl chloride	410.4_4500_P_E, SM4500_NH3_H							200.7 - Select Metals + Hg	608.3_PCB_PREC - PCBs	5210B - BOD	2540D - TSS	1664B_NP - HEM	SM4500_H+ - pH	Total Number of containers																	
City: Farmington Hills		TAT Requested (days): <u>STD</u>								Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		Other:																					
State, Zip: MI, 48331		PO #: 11208058								Purchase Order Requested		WO #: 11208058																					
Phone: 612-524-6872(Tel)		Project #: 24006288		Project Name: 11208058, RACER Bay City		SSOW#: <u>11208058-E04-001Y24-001</u>																											
Email: ruth.mickle@ghd.com		Site:		Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Special Instructions/Note:																			
Project Name: 11208058, RACER Bay City		SSOW#: <u>11208058-E04-001Y24-001</u>		Preservation Code:		A		S		D		N		N																			
Site:		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Special Instructions/Note:																							
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Special Instructions/Note:																							
GW-11208058-061024-JY-001		6-10-24		1100		G		Water		X																							
GW-11208058-061124-JY-002		6-11-24		0815		G		Water		X		X																					
GW-11208058-061124-JY-003		6-11-24		0830		C		Water		X		X																					
TB-061124-11208058		-		-		-		WQ		X																							
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client		<input checked="" type="checkbox"/> Disposal By Lab		Archive For		Months																							
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements: <u>SSOW 11208058-E04-001Y24-001</u>																													
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:																											
Relinquished by: <u>John York</u>		Date/Time: <u>6-11-24 1000</u>		Company: <u>GHD</u>		Received by: <u>[Signature]</u>		Date/Time: <u>6-12-24 940</u>		Company: <u>ISC</u>																							
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:																							
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:																							
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:																													



Eurofins - Cleveland Sample Receipt Form/Narrative
 Barborton Facility
 Login # _____

Client CHD Site Name _____
 Cooler Received on 6-12-24 Opened on 6-12-24
 Eurofins Courser _____
 Eurofins Courier _____

FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other _____
 Receipt After-hours Drop-off Date/Time Storage Location _____

Eurofins Cooler # EC Foam Box Client Cooler Box Other _____
 Packing material used. Bubble Wrap Foam Plastic Bag None Other _____
 COOLANT: Mel Ice Blue Ice Dry Ice Water None _____
 1 Cooler temperature upon receipt See Multiple Cooler Form
 IR GUN # 17 (CF 0.2°C) Observed Cooler Temp. 6.5 °C Corrected Cooler Temp. 1.7 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 2
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes NO
 -Were tamper/custody seals intact and uncompromised? Yes No NA
 3 Shippers' packing slip attached to the cooler(s)? Yes No
 4 Did custody papers accompany the sample(s)? Yes No
 5 Were the custody papers relinquished & signed in the appropriate place? Yes No
 6 Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
 7 Did all bottles arrive in good condition (Unbroken)? Yes NO
 8 Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
 9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes NO
 10 Were correct bottle(s) used for the test(s) indicated? Yes No
 11 Sufficient quantity received to perform indicated analyses? Yes No
 12 Are these work share samples and all listed on the COC? Yes NO
 If yes, Questions 13-17 have been checked at the originating laboratory
 13 Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC339814
 14 Were VOAs on the COC? Yes No
 15 Were air bubbles >6 mm in any VOA vials? Yes NO Larger than this.
 16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes NO NA
 17 Was a LL Hg or Me Hg trip blank present? Yes NO

Tests that are not checked for pH by Receiving:
 VOAs
 Oil and Grease
 TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
 Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: _____
Sample #2 had a broken 1L Amber SV and I vom
received broken in cooler

19 SAMPLE CONDITION
 Sample(s) _____ were received after the recommended holding time had expired
 Sample(s) _____ were received in a broken container
 Sample(s) _____ were received with bubble >6 mm in diameter (Notify PM)

20 SAMPLE PRESERVATION
 Sample(s) _____ were further preserved in the laboratory
 Time preserved. _____ Preservative(s) added/Lot number(s) _____
 VOA Sample Preservation - Date/Time VOAs Frozen _____



Temperature readings

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container pH</u>	<u>Container Temp</u>	<u>Preservation Added</u>	<u>Preservation Lot Number</u>
GW-11208058-061024-JY-001	240-206021-A-1	Amber Glass 1 liter - unpreserved				
GW-11208058-061024-JY-001	240-206021-B-1	Amber Glass 1 liter - unpreserved				
GW-11208058-061024-JY-002	240-206021-A-2	Yoa Vial 40ml - Hydrochloric Acid				
GW-11208058-061024-JY-002	240-206021-B-2	Yoa Vial 40ml - Hydrochloric Acid				
GW-11208058-061024-JY-002	240-206021-C-2	Plastic 125ml - unpreserved				
GW-11208058-061024-JY-002	240-206021-D-2	Amber Glass 1 liter - Sulfuric Acid				
GW-11208058-061024-JY-003	240-206021-A-3	Plastic 250ml - with Sulfuric Acid	<2			
GW-11208058-061024-JY-003	240-206021-B-3	Plastic 500ml - with Nitric Acid	<2			
GW-11208058-061024-JY-003	240-206021-C-3	Plastic 1 liter - unpreserved				
GW-11208058-061024-JY-003	240-206021-D-3	Plastic 1 liter - unpreserved				
GW-11208058-061024-JY-003	240-206021-E-3	Amber Glass 1 liter - unpreserved				
GW-11208058-061024-JY-003	240-206021-F-3	Amber Glass 1 liter - unpreserved				
TB-061124-11208058	240-206021-A-4	Yoa Vial 40ml - Hydrochloric Acid				
TB-061124-11208058	240-206021-B-4	Yoa Vial 40ml - Hydrochloric Acid				

Attachment 2

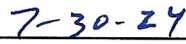
Certification Statement

Certification Statement

"I, M. Grant Trigger, certify under penalty of law that this document (July 30, 2024 GHD Semi-Annual Compliance Report(January 1 to June 30, 2024)) , and all attachments were prepared under by direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."



RACER Trust, Cleanup Manager - Michigan



(Date)