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



GHD Reference No: 11208058

January 21, 2021

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

Semi-Annual Compliance Report (July 1 to December 31, 2021) 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 July 1 to December 31, 2021 for RACER's 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 the 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 sample collected from the RACER groundwater extraction and treatment system on December 23, 2021. Attachment 1 presents a copy of the laboratory analytical report. The analytical results did not identify an exceedance of the daily maximum discharge levels specified in the permit, and there were no other conditions, events or circumstances identified that did not meet other permit requirements. Table 2 presents the flow readings collected periodically from the flow meter.

The RACER groundwater extraction and treatment system is operated and maintained by Steve Hoevemeyer (GHD) who maintains the designation of Waste Treatment Plant Operator – Industrial or Commercial (A-1d Impoundment, A-2b Filtration of Wastewater, B-2c Oil-Water Separation, and B-3b Carbon Adsorption).

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 Pargys, P.Eng.

Engineer

+1 519 340-4316

john-eric.pardys@ghd.com

JEP/kf/6

cc: Grant Trigger (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 Page 1 of 1

Analytical Results Summary Effluent Sampling Bay City Industrial Land Bay City, Michigan

Sample Location: effluent-GWTS
Sample ID: W-11208058-122321-SSH-22021
Sample Date: 12/23/21

Parameters VOAs	Units	Daily Maximum (Bay City Industrial User Permit)	
Vinyl chloride	mg/L	0.002	0.001 U
Metals			
Cadmium Chromium Copper Iron Lead Mercury	mg/L mg/L mg/L mg/L mg/L mg/L	0.057 6.812 1.476 0.632 ND	0.002 U 0.005 U 0.010 J 0.42 0.0026 J B 0.0002 U *+
Nickel Silver	mg/L mg/L	2.548 0.2	0.011 J 0.005 U
Pesticides			
Aroclor-1016 (PCB-1016) Aroclor-1221 (PCB-1221) Aroclor-1232 (PCB-1232) Aroclor-1242 (PCB-1242) Aroclor-1248 (PCB-1248) Aroclor-1254 (PCB-1254) Aroclor-1260 (PCB-1260)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	ND ND ND ND ND ND	0.000095 U 0.000095 U 0.000095 U 0.000095 U 0.000095 U 0.000095 U
Wet			
Ammonia Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) Oil and grease (HEM), polar pH, lab Phosphorus Total suspended solids (TSS)	mg/L mg/L mg/L mg/L s.u. mg/L mg/L	30 835 1670 100 6.5 to 11.0 13.8 1336	0.32 2.0 U H H3 16 4.8 U 7.7 HF 0.012 0.50 U

Notes:

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

J Estimated value

B Compound was found in the blank and sample

H Sample was prepped or analyzed beyond the specified holding time

H3 Sample was received and analyzed past holding time

*+ LCS and/or LCSD is outside acceptance limits, high biased

Table 2 Page 1 of 2

Flow Meter Readings Bay City Industrial Land Bay City, Michigan

Date	Flow Meter reading (gallons)	Cumulative Total: (gallons)	Volume to be invoiced annually (July to June 30)	Comments
27-Dec-21	553735	1299833		
23-Dec-21				- Collected effluent sample
29-Nov-21	533997	1280095		
27-Sep-21	475843	1221941		
20-Aug-21	436048	1182146		
30-Jul-21	421003	1167101		
23-Jun-21	409045	1155143	139856	 Collected effluent sample and City invoiced for discharge
27-May-21	400420	1146518		
29-Apr-21	397390	1143488		
23-Mar-21	371797	1117895		
22-Feb-21	348776	1094874		
21-Dec-20	308935	1055033		Collected offluent cample
10-Dec-20 9-Dec-20	304649	1050747		- Collected effluent sample
12-Oct-20	278099	1024197		
10-Sep-20	277899	1023997		
25-Aug-20	277020	1023118		
22-Jul-20	274190	1020288		
22-Jun-20	270975	1017073		
4-Jun-20	269189	1015287	124809	- City invoiced for discharge
28-May-20	268089	1014187		- Collected effluent sample
28-Apr-20	263922	1010020		
25-Mar-20	248006	994104		
20-Feb-20	227965	974063		
27-Jan-20	220321	966419		
5-Dec-19	200031	946129		- Collected PFAS effluent sample
25-Nov-19	192582	938680		- Concoled 1 1 /10 childent sample
29-Oct-19	176533	922631		
28-Aug-19	168508	914606		
17-Jul-19	159490	905588		
17-Jun-19	144380	890478	122047	- City invoiced for discharge
31-May-19	144000	030470	122047	- Collected effluent sample
17-May-19	123482	869580		- Collected efficient sample
19-Apr-19	105745	851843		
22-Mar-19	81364	827462		
28-Feb-19	77720	823818		
29-Jan-19	77720	823818		Collected offluent comple
20-Jan-19	77570	022660		- Collected effluent sample
12-Dec-18	77570	823668		- Collected effluent sample
29-Nov-18	76972	823070		
26-Sep-18	59303	805401		
30-Aug-18	53199	799297		
30-Jul-18	52454	798552		
20-Jun-18	35274	781372		Collected officers
1-Jun-18	00000	700404	00074	- Collected effluent sample
1-Jun-18	22333	768431	88271	- City invoiced for discharge
31-May-18	20490	766588		
30-Apr-18	18529	764627		
29-Mar-18	11243	757341		
8-Mar-18	122667	746098		- Last reading before
8-Mar-18	0	746098		- New Flow meter installed

Table 2 Page 2 of 2

Flow Meter Readings Bay City Industrial Land Bay City, Michigan

Date	Flow Meter reading (gallons)	Cumulative Total: (gallons)	Volume to be invoiced annually (July to June 30)	Comments
30-Nov-17				- Collected effluent sample
25-Oct-17	73702	697133		
12-Jul-17	60991	684422		
28-Jun-17	56911	680342		
13-Jun-17	56729	680160	137544	- City invoiced for discharge
22-May-17	56722	680153	107044	only involved for disonarge
9-May-17	00122	000100		- Collected effluent sample
27-Apr-17	55126	678557		Concotod omdont campio
2-Feb-17	5813	629244		
16-Jan-17	0010	020211		- Collected effluent sample
14-Jan-17	609074	623431		Concotou omacini campio
14-Jan-17	0	623431		
16-Dec-16	609074	623431		
11-Nov-16	608980	623337		
28-Oct-16	608865	623222		
30-Sep-16	607717	622074		
31-Aug-16	607298	621655		
20-Jul-16	561893	576250		
29-Jun-16	556457	570814		
14-Jun-16	528259	542616	523666	- Collected effluent sample,
31-May-16	521920	536277		,
27-Apr-16	462204	476561		
21-Mar-16	409836	424193		
29-Feb-16	394550	408907		
10-Feb-16	387410	401767		
30-Dec-15	351550	365907		
10-Dec-15				- Collected effluent sample
23-Nov-15	289731	304088		
30-Oct-15	260771	275128		
29-Sep-15	252638	266995		
28-Aug-15	241397	255754		
29-Jul-15	232315	246672		
30-Jun-15	232315	246672		
25-Jun-15	232315	246672		
18-Jun-15	224490	238847		
6-May-15	197766	212123		
30-Apr-15	175234	189591		
19-Mar-15	67425	81782		
16-Mar-15				- Collected effluent sample
13-Feb-15	46303	60660		
27-Jan-15	31004	45361		
29-Dec-14	31004	45361		
26-Nov-14	31004	45361		
23-Oct-14	31004	45361		
23-Sep-14	11504	25861		0-11-4-4-4
5-Sep-14	6337 4503	20694 18050		- Collected effluent sample
18-Aug-14 28-Jul-14	4593 4593	18950 18950		
16-Jun-14	4593 4593	18950	18950	- City invoiced for discharge
10 0011 17	1300	10000		on, involute for alcoharge

Attachment 1

Laboratory Analytical Report



Environment Testing America

ANALYTICAL REPORT

Eurofins Pittsburgh 301 Alpha Drive **RIDC Park** Pittsburgh, PA 15238 Tel: (412)963-7058

Laboratory Job ID: 180-131747-1

Client Project/Site: 11208058, RACER Bay City

For:

GHD Services Inc. 26850 Haggerty Rd. Farmington Hills, Michigan 48331

Attn: Ms. Ruth Mickle

ense DHeckler Authorized for release by: 1/11/2022 9:59:17 AM

Denise Heckler, Project Manager II

(330)966-9477

Denise.Heckler@Eurofinset.com

·····LINKS ······

Review your project results through Total Access

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416

Client: GHD Services Inc. Project/Site: 11208058, RACER Bay City Laboratory Job ID: 180-131747-1

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Case Narrative

Client: GHD Services Inc.

Project/Site: 11208058, RACER Bay City

Job ID: 180-131747-1

Job ID: 180-131747-1

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-131747-1

Comments

No additional comments.

Receipt

The sample was received on 12/24/2021 10:00 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.0° C.

Receipt Exceptions

Method SM 5210B: The following sample was received outside of holding time: W-11208058-122321-SSH-22021 (180-131747-

GC/MS VOA

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

GC Semi VOA

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

Metals

Method 245.1: The laboratory control sample (LCS) for preparation batch 180-383766 and analytical batch 180-384058 recovered above the control limits for mercury. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

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.

Organic Prep

Method 608: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 180-383693.

Method 1664B: The reference method requires samples to be preserved to a pH of <2. The following sample was received with insufficient preservation at a pH of >2: W-11208058-122321-SSH-22021 (180-131747-1). The sample(s) was preserved to the appropriate pH in the laboratory. 5 ml of 6N HCl added.

Method 1664B: The matrix spike (MS) recoveries for preparation batch 180-384584 and analytical batch 180-384587 were outsi control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Definitions/Glossary

Client: GHD Services Inc. Job ID: 180-131747-1

Project/Site: 11208058, RACER Bay City

Qualifiers

	S		

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

U Indicates the analyte was analyzed for but not detected.

Metals

	Qualifier	Qualifier	Descri	ption
--	-----------	-----------	--------	-------

*+ LCS and/or LCSD is outside acceptance limits, high biased.

B Compound was found in the blank and sample.

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

H Sample was prepped or analyzed beyond the specified holding time

H3 Sample was received and analyzed past holding time.

HF Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

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.

Elisted 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)

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)

Eurofins Pittsburgh

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Definitions/Glossary

Client: GHD Services Inc.

Job ID: 180-131747-1

Project/Site: 11208058, RACER Bay City

Glossary (Continued)

Abbreviation These commonly used abbreviations may or may not be present in this report.

TNTC Too Numerous To Count

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Accreditation/Certification Summary

Client: GHD Services Inc.

Job ID: 180-131747-1

Project/Site: 11208058, RACER Bay City

Laboratory: Eurofins Pittsburgh

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

Authority	Program	Identification Numbe	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-22
California	State	2891	04-30-22
Connecticut	State	PH-0688	09-30-22
Florida	NELAP	E871008	06-30-22
Georgia	State	PA 02-00416	04-30-22
Illinois	NELAP	004375	06-30-22
Kansas	NELAP	E-10350	01-31-22
Kentucky (UST)	State	162013	04-30-22
Kentucky (WW)	State	KY98043	12-31-21 *
Louisiana	NELAP	04041	06-30-22
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-22
Nevada	State	PA00164	08-31-22
New Hampshire	NELAP	2030	04-05-22
New Jersey	NELAP	PA005	06-30-22
New York	NELAP	11182	04-02-22
North Carolina (WW/SW)	State	434	12-31-22
North Dakota	State	R-227	04-30-22
Oregon	NELAP	PA-2151	02-06-22
Pennsylvania	NELAP	02-00416	04-30-22
Rhode Island	State	LAO00362	12-31-21 *
South Carolina	State	89014	04-30-22
Texas	NELAP	T104704528	03-31-22
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-22
Virginia	NELAP	10043	09-15-22
West Virginia DEP	State	142	01-31-22
Wisconsin	State	998027800	08-31-22

Laboratory: Eurofins Buffalo

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0686	07-06-22
Connecticut	State	PH-0568	09-30-22
Florida	NELAP	E87672	06-30-22
Georgia	State	10026 (NY)	03-31-22
Georgia	State Program	N/A	03-31-09 *
Georgia (DW)	State	956	03-31-22
Illinois	NELAP	200003	09-30-22
Iowa	State	374	03-01-23
lowa	State Program	374	03-01-09 *
Kansas	NELAP	E-10187	02-02-22
Kentucky (DW)	State	90029	12-31-21 *
Kentucky (UST)	State	30	04-01-22
Kentucky (WW)	State	KY90029	12-31-22
Louisiana	NELAP	02031	06-30-22
Maine	State	NY00044	12-05-22
Maryland	State	294	04-02-22

 $^{{}^{\}star}\operatorname{Accreditation/Certification\ renewal\ pending\ -\ accreditation/certification\ considered\ valid}.$

Eurofins Pittsburgh

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Accreditation/Certification Summary

Client: GHD Services Inc. Job ID: 180-131747-1

Project/Site: 11208058, RACER Bay City

Laboratory: Eurofins Buffalo (Continued)

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

Authority Program		Identification Number	Expiration Date
Massachusetts	State	M-NY044	06-30-22
Michigan	State	9937	04-01-22
Michigan	State Program	9937	04-01-09 *
New Hampshire	NELAP	2973	09-11-19 *
New Hampshire	NELAP	2337	11-17-22
New Jersey	NELAP	NY455	06-30-22
New York	NELAP	10026	04-01-22
Oregon	NELAP	NY200003	06-12-22
Pennsylvania	NELAP	68-00281	07-31-22
Rhode Island	State	LAO00328	12-31-21 *
Tennessee	State	02970	03-31-22
Texas	NELAP	T104704412-18-10	07-31-22
USDA	US Federal Programs	P330-18-00039	03-25-24
Virginia	NELAP	460185	09-14-22
Washington	State	C784	02-10-22
Wisconsin	State	998310390	08-31-22

 $^{^{\}star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

Sample Summary

Client: GHD Services Inc.

Project/Site: 11208058, RACER Bay City

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received

 180-131747-1
 W-11208058-122321-SSH-22021
 Water
 12/23/21 11:30
 12/27/21 08:30

1

Job ID: 180-131747-1

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Method Summary

Client: GHD Services Inc.

Project/Site: 11208058, RACER Bay City

Method **Method Description Protocol** Laboratory EPA 624.1 Volatile Organic Compounds (GC/MS) 40CFR136A TAL PIT EPA 608.3 Polychlorinated Biphenyls (PCBs) (GC) 40CFR136A **TAL PIT** EPA 200.7 Rev 4 Metals (ICP) **EPA TAL PIT** EPA 245.1 Rev. Mercury (CVAA) **EPA** TAL PIT **EPA 1664B** HEM and SGT-HEM **EPA** TAL PIT EPA 350.1 **EPA** TAL PIT Nitrogen, Ammonia EPA 410.4 COD **MCAWW** TAL PIT SM 2540D Solids, Total Suspended (TSS) SM **TAL PIT** SM 4500 H+ B SM TAL PIT pΗ SM 4500 P E Phosphorus SM TAL BUF SM 5210B 5 Day BOD test SM **TAL PIT** 1664B HEM and SGT-HEM (SPE) 1664B **TAL PIT** 200.7 Preparation, Total Recoverable Metals EPA TAL PIT Preparation, Mercury 245.1 **EPA** TAL PIT COD 410.4 MCAWW **TAL PIT** 608 40CFR136A Liquid-Liquid Extraction (Separatory Funnel) TAL PIT

Protocol References:

1664B = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600 TAL PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Job ID: 180-131747-1

Lab Chronicle

Client: GHD Services Inc. Job ID: 180-131747-1

Project/Site: 11208058, RACER Bay City

Lab Sample ID: 180-131747-1 Client Sample ID: W-11208058-122321-SSH-22021

Date Collected: 12/23/21 11:30 **Matrix: Water**

Date Received: 12/27/21 08:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis Instrument	EPA 624.1 ID: CHHP6		1	5 mL	5 mL	383913	12/31/21 22:53	PJJ	TAL PIT
Total/NA	Prep	608			1050 mL	1.0 mL	383693	12/29/21 08:00	SNP	TAL PIT
Total/NA	Analysis Instrument	EPA 608.3 ID: CHGC20		1			384070	01/04/22 11:02	JMO	TAL PIT
Total Recoverable	Prep	200.7			25 mL	25 mL	383533	12/28/21 13:40	KFS	TAL PIT
Total Recoverable	Analysis Instrument	EPA 200.7 Rev 4 ID: C		1			383759	12/29/21 22:16	RJG	TAL PIT
Total/NA	Prep	245.1			25 mL	25 mL	383766	12/30/21 06:56	RJR	TAL PIT
Total/NA	Analysis Instrument	EPA 245.1 Rev. ID: HGY		1			384058	01/03/22 14:12	RJR	TAL PIT
Total/NA	Prep	1664B			1050 mL	1000 mL	384584	01/07/22 15:30	SMV	TAL PIT
Total/NA	Analysis Instrument	EPA 1664B ID: NOEQUIP		1			384587	01/08/22 01:06	СТМ	TAL PIT
Total/NA	Analysis Instrument	EPA 350.1 ID: BLUE-ASTORI.	A	1			384161	01/04/22 12:48	SNR	TAL PIT
Total/NA	Prep	410.4			1 mL	1 mL	383847	12/30/21 11:48	ELS	TAL PIT
Total/NA	Analysis Instrument	EPA 410.4 ID: GENESYS10S		1	1 mL	1 mL	383868	12/30/21 16:20	ELS	TAL PIT
Total/NA	Analysis Instrument	SM 2540D ID: NOEQUIP		1	1000 mL	1000 mL	383662	12/29/21 08:52	BAC	TAL PIT
Total/NA	Analysis Instrument	SM 4500 H+ B ID: OZ		1			383680	12/29/21 10:24	MJH	TAL PIT
Total/NA	Analysis Instrument	SM 4500 P E ID: Genesys Spec	30	1	5 mL	5 mL	611278	01/10/22 12:55	KEB	TAL BU
Total/NA	Analysis Instrument	SM 5210B ID: NOEQUIP		1	300 mL	300 mL	384048	12/29/21 19:03	ELS	TAL PIT

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600 TAL PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Eurofins Pittsburgh

Lab Chronicle

Client: GHD Services Inc.

Project/Site: 11208058, RACER Bay City

Analyst References:

Lab: TAL BUF

Batch Type: Analysis

KEB = Katherine Bauer

Lab: TAL PIT

Batch Type: Prep

ELS = Edwin Shireman

KFS = Kelly Shannon

RJR = Ron Rosenbaum

SMV = Sarah Vander Wagen

SNP = Sydney Prugh

Batch Type: Analysis

BAC = Blase Cindric

CTM = Connor Mitsch

ELS = Edwin Shireman

JMO = John Oravec

MJH = Michael Houde

PJJ = Patrick Journet RJG = Rob Good

RJR = Ron Rosenbaum

SNR = Sabra Richart

Job ID: 180-131747-1

Detection Summary

Client: GHD Services Inc.

Job ID: 180-131747-1

Project/Site: 11208058, RACER Bay City

Client Sample ID: W-11208058-122321-SSH-22021

Lab Sample ID: 180-131747-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper		J	20	3.9	ug/L	1	_	EPA 200.7 Rev 4	Total
									Recoverable
Iron	420		100	73	ug/L	1		EPA 200.7 Rev 4	Total
									Recoverable
Nickel	11	J	20	2.1	ug/L	1		EPA 200.7 Rev 4	Total
									Recoverable
Lead	2.6	JB	3.0	2.3	ug/L	1		EPA 200.7 Rev 4	Total
									Recoverable
Ammonia	0.32		0.10	0.088	mg/L	1		EPA 350.1	Total/NA
Chemical Oxygen Demand	16		10	9.1	mg/L	1		EPA 410.4	Total/NA
pH	7.7	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Phosphorus	0.012		0.010	0.0050	ma/L	1		SM 4500 P E	Total/NA

6

8

9

A A

12

1 A

Client Sample Results

Client: GHD Services Inc. Job ID: 180-131747-1

Project/Site: 11208058, RACER Bay City

Lab Sample ID: 180-131747-1 Client Sample ID: W-11208058-122321-SSH-22021

Date Collected: 12/23/21 11:30

420

11 J

2.6 JB

Matrix: Water

12/28/21 13:40 12/29/21 22:16

12/28/21 13:40 12/29/21 22:16

12/28/21 13:40 12/29/21 22:16

Date Received: 12/27/21 08:30

Iron

Nickel

Lead

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.40	ug/L			12/31/21 22:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	78		28 - 163					12/31/21 22:53	1
4-Bromofluorobenzene (Surr)	81		41 - 122					12/31/21 22:53	1
Toluene-d8 (Surr)	94		53 - 125					12/31/21 22:53	1
Dibromofluoromethane (Surr)	91		59 - 168					12/31/21 22:53	1
Method: EPA 608.3 - Polyc Analyte	•	nenyls (PC Qualifier	Bs) (GC)	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: EPA 608.3 - Polyc	hlorinated Bipl	nenyls (PC	Bs) (GC)						
Analyte	Result	Qualifier	RL			<u>D</u>			Dil Fac
Analyte PCB-1016	0.0095	Qualifier U	RL 0.0095	0.0045	ug/L	<u>D</u>	12/29/21 08:00	01/04/22 11:02	Dil Fac
Analyte PCB-1016 PCB-1221	0.0095 0.0095	Qualifier U U	0.0095 0.0095	0.0045 0.0054	ug/L ug/L	<u>D</u>	12/29/21 08:00 12/29/21 08:00	01/04/22 11:02 01/04/22 11:02	Dil Fac 1 1
Analyte PCB-1016 PCB-1221 PCB-1232	Result 0.0095 0.0095 0.0095	Qualifier U U U	0.0095 0.0095 0.0095	0.0045 0.0054 0.0050	ug/L ug/L ug/L	<u>D</u>	12/29/21 08:00 12/29/21 08:00 12/29/21 08:00	01/04/22 11:02 01/04/22 11:02 01/04/22 11:02	Dil Fac 1 1 1
Analyte PCB-1016 PCB-1221	Result 0.0095 0.0095 0.0095 0.0095	Qualifier U U U U	0.0095 0.0095	0.0045 0.0054 0.0050 0.0087	ug/L ug/L ug/L ug/L	<u> </u>	12/29/21 08:00 12/29/21 08:00	01/04/22 11:02 01/04/22 11:02	Dil Fac 1 1 1 1 1 1 1
Analyte PCB-1016 PCB-1221 PCB-1232 PCB-1242	Result 0.0095 0.0095 0.0095	Qualifier U U U U U U	RL 0.0095 0.0095 0.0095 0.0095	0.0045 0.0054 0.0050	ug/L ug/L ug/L ug/L ug/L	<u>D</u>	12/29/21 08:00 12/29/21 08:00 12/29/21 08:00 12/29/21 08:00	01/04/22 11:02 01/04/22 11:02 01/04/22 11:02 01/04/22 11:02	Dil Fac 1 1 1 1 1 1 1 1 1 1
Analyte PCB-1016 PCB-1221 PCB-1232 PCB-1242 PCB-1248	Result 0.0095 0.0095 0.0095 0.0095 0.0095	Qualifier U U U U U U U	0.0095 0.0095 0.0095 0.0095 0.0095	0.0045 0.0054 0.0050 0.0087 0.0028	ug/L ug/L ug/L ug/L ug/L ug/L	<u>D</u>	12/29/21 08:00 12/29/21 08:00 12/29/21 08:00 12/29/21 08:00 12/29/21 08:00	01/04/22 11:02 01/04/22 11:02 01/04/22 11:02 01/04/22 11:02 01/04/22 11:02 01/04/22 11:02	Dil Fac 1 1 1 1 1 1 1 1 1
Analyte PCB-1016 PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254	Result 0.0095 0.0095 0.0095 0.0095 0.0095 0.0095	Qualifier U U U U U U U U U U	0.0095 0.0095 0.0095 0.0095 0.0095 0.0095	0.0045 0.0054 0.0050 0.0087 0.0028 0.0091	ug/L ug/L ug/L ug/L ug/L ug/L	<u>D</u>	12/29/21 08:00 12/29/21 08:00 12/29/21 08:00 12/29/21 08:00 12/29/21 08:00 12/29/21 08:00	01/04/22 11:02 01/04/22 11:02 01/04/22 11:02 01/04/22 11:02 01/04/22 11:02 01/04/22 11:02	Dil Fac 1 1 1 1 1 1 1 1 1 1 Dil Fac

Tetrachloro-m-xylene (Surr)	74		20 - 138				12/29/21 08:00	01/04/22 11:02	1
DCB Decachlorobiphenyl (Surr)	108		43 - 143				12/29/21 08:00	01/04/22 11:02	1
DCB Decachlorobiphenyl (Surr)	84		43 - 143				12/29/21 08:00	01/04/22 11:02	1
Г									
Method: EPA 200.7 Rev 4 - Me	etals (ICP) - 1	Total Reco	verable						
Method: EPA 200.7 Rev 4 - Me Analyte		Total Recor Qualifier	verable RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier				<u>D</u>	Prepared 12/28/21 13:40		Dil Fac
Analyte	Result	Qualifier U	RL	0.87		<u>D</u>		12/29/21 22:16	Dil Fac
Analyte Silver		Qualifier U U		0.87 0.33	ug/L	<u>D</u>	12/28/21 13:40	12/29/21 22:16 12/29/21 22:16	Dil Fac 1 1 1

Method: EPA 245.1 Rev Merc	eury (CVAA)						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20 U*+	0.20	0.13 ug/L		12/30/21 06:56	01/03/22 14:12	1

100

20

3.0

73 ug/L

2.1 ug/L

2.3 ug/L

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	4.8	U	4.8	4.1	mg/L		01/07/22 15:30	01/08/22 01:06	1
Ammonia	0.32		0.10	0.088	mg/L			01/04/22 12:48	1
Chemical Oxygen Demand	16		10	9.1	mg/L		12/30/21 11:48	12/30/21 16:20	1
Total Suspended Solids	0.50	U	0.50	0.50	mg/L			12/29/21 08:52	1
pH	7.7	HF	0.1	0.1	SU			12/29/21 10:24	1
Phosphorus	0.012		0.010	0.0050	mg/L			01/10/22 12:55	1
Biochemical Oxygen Demand	2.0	U H H3	2.0	2.0	mg/L			12/29/21 19:03	1

Surrogate Summary

Client: GHD Services Inc. Job ID: 180-131747-1

Project/Site: 11208058, RACER Bay City

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

Matrix: Water Prep Type: Total/NA

			Pe	ercent Surre	ogate Rec
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(28-163)	(41-122)	(53-125)	(59-168)
180-131747-1	W-11208058-122321-SSH-2202	78	81	94	91
180-131747-1 MS	W-11208058-122321-SSH-220 21	70	90	84	91
180-131747-1 MSD	W-11208058-122321-SSH-220 21	83	97	90	98
LCS 180-383913/3	Lab Control Sample	74	92	92	90
MB 180-383913/7	Method Blank	74	83	93	85

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		TCX1	TCX2	DCB1	DCB2				
Lab Sample ID	Client Sample ID	(20-138)	(20-138)	(43-143)	(43-143)				
180-131747-1	W-11208058-122321-SSH-2202	79	74	108	84				
LCS 180-383693/4-A	Lab Control Sample	90	86	101	91				
LCSD 180-383693/5-A	Lab Control Sample Dup	94	88	100	87				
MB 180-383693/1-A	Method Blank	71	77	92	80				

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

Client: GHD Services Inc. Job ID: 180-131747-1

Project/Site: 11208058, RACER Bay City

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

MD MD

Lab Sample ID: MB 180-383913/7 **Client Sample ID: Method Blank Matrix: Water** Prep Type: Total/NA

Analysis Batch: 383913

	IAID	IAID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.40	ug/L			12/31/21 15:52	1

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 28 - 163 12/31/21 15:52 74 4-Bromofluorobenzene (Surr) 83 41 - 122 12/31/21 15:52 Toluene-d8 (Surr) 93 53 - 125 12/31/21 15:52 59 - 168 Dibromofluoromethane (Surr) 85 12/31/21 15:52

Lab Sample ID: LCS 180-383913/3 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 383913

-	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Vinyl chloride	10.0	10.2		ug/L		102	10 - 170	

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 28 - 163 74 4-Bromofluorobenzene (Surr) 92 41 - 122 Toluene-d8 (Surr) 92 53 - 125 Dibromofluoromethane (Surr) 90 59 - 168

Lab Sample ID: 180-131747-1 MS Client Sample ID: W-11208058-122321-SSH-22021 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 383913

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Vinyl chloride	1.0	U	10.0	9 49		ua/l		95	10 - 170	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	70		28 - 163
4-Bromofluorobenzene (Surr)	90		41 - 122
Toluene-d8 (Surr)	84		53 - 125
Dibromofluoromethane (Surr)	91		59 - 168

Lab Sample ID: 180-131747-1 MSD Client Sample ID: W-11208058-122321-SSH-22021 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 383913

,	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Vinyl chloride	1.0	U	10.0	10.5		ug/L		105	10 - 170	10	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	83		28 - 163
4-Bromofluorobenzene (Surr)	97		41 - 122
Toluene-d8 (Surr)	90		53 - 125
Dibromofluoromethane (Surr)	98		59 - 168

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1/11/2022

Client: GHD Services Inc.

Project/Site: 11208058, RACER Bay City

Job ID: 180-131747-1

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

Lab Sample ID: MB 180-383693/1-A

Matrix: Water

Analysis Batch: 384070

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 383693

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.010	U	0.010	0.0048	ug/L		12/29/21 08:00	01/04/22 09:47	1
PCB-1221	0.010	U	0.010	0.0057	ug/L		12/29/21 08:00	01/04/22 09:47	1
PCB-1232	0.010	U	0.010	0.0052	ug/L		12/29/21 08:00	01/04/22 09:47	1
PCB-1242	0.010	U	0.010	0.0091	ug/L		12/29/21 08:00	01/04/22 09:47	1
PCB-1248	0.010	U	0.010	0.0030	ug/L		12/29/21 08:00	01/04/22 09:47	1
PCB-1254	0.010	U	0.010	0.0095	ug/L		12/29/21 08:00	01/04/22 09:47	1
PCB-1260	0.010	U	0.010	0.0039	ug/L		12/29/21 08:00	01/04/22 09:47	1

MB MB

Surrogate	%Recovery G	Qualifier Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	71	20 - 138	12/29/21 08:00	01/04/22 09:47	1
Tetrachloro-m-xylene (Surr)	77	20 - 138	12/29/21 08:00	01/04/22 09:47	1
DCB Decachlorobiphenyl (Surr)	92	43 - 143	12/29/21 08:00	01/04/22 09:47	1
DCB Decachlorobiphenyl (Surr)	80	43 - 143	12/29/21 08:00	01/04/22 09:47	1

LCS LCS

0.674

0.870

Result Qualifier Unit

ug/L

ug/L

Spike

Added

1.00

1.00

Lab Sample ID: LCS 180-383693/4-A

Matrix: Water

Analyte

PCB-1016

Analysis Batch: 384070

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

Prep Batch: 383693

%Rec. Limits

D %Rec 67 50 - 140 10 - 140

PCB-1260

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
Tetrachloro-m-xylene (Surr)	90		20 - 138
Tetrachloro-m-xylene (Surr)	86		20 - 138
DCB Decachlorobiphenyl (Surr)	101		43 - 143
DCB Decachlorobiphenyl (Surr)	91		43 - 143

Lab Sample ID: LCSD 180-383693/5-A

Matrix: Water

Analysis Batch: 384070

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 383693

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
PCB-1016	1.00	0.693		ug/L		69	50 - 140	3	35
PCB-1260	1.00	0.880		ug/L		88	10 - 140	1	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
Tetrachloro-m-xylene (Surr)	94		20 - 138
Tetrachloro-m-xylene (Surr)	88		20 - 138
DCB Decachlorobiphenyl (Surr)	100		43 - 143
DCB Decachlorobiphenyl (Surr)	87		43 - 143

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Client: GHD Services Inc.

Project/Site: 11208058, RACER Bay City

Method: EPA 200.7 Rev 4 - Metals (ICP)

Lab Sample ID: MB 180-383533/1-A

Matrix: Water

Analysis Batch: 383759

Client Sample ID: Method Blank **Prep Type: Total Recoverable Prep Batch: 383533**

Job ID: 180-131747-1

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Silver 5.0 U 5.0 0.87 ug/L 12/28/21 13:40 12/29/21 21:30 Cadmium 2.0 U 2.0 0.33 ug/L 12/28/21 13:40 12/29/21 21:30 5.0 U 12/28/21 13:40 12/29/21 21:30 Chromium 5.0 2.6 ug/L 20 U 20 12/28/21 13:40 12/29/21 21:30 Copper 3.9 ug/L 100 Iron 100 U 73 ug/L 12/28/21 13:40 12/29/21 21:30 Nickel 20 U 20 2.1 ug/L 12/28/21 13:40 12/29/21 21:30 Lead 2.99 J 3.0 2.3 ug/L 12/28/21 13:40 12/29/21 21:30

Lab Sample ID: LCS 180-383533/2-A

Matrix: Water

Analysis Batch: 383759

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

Prep Batch: 383533

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Silver 250 261 ug/L 85 - 115 104 500 519 Cadmium ug/L 104 85 - 115 500 495 Chromium ug/L 99 85 _ 115 500 521 104 85 - 115 Copper ug/L 5000 5030 85 - 115 101 Iron ug/L Nickel 500 506 ug/L 101 85 - 115 500 496 ug/L 99 85 - 115 Lead

Method: EPA 245.1 Rev. - Mercury (CVAA)

Lab Sample ID: MB 180-383766/1-A

Matrix: Water

Analysis Batch: 384058

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 383766

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 0 20 U 0.20 0.13 ug/L 12/30/21 06:56 01/03/22 13:57 Mercury

Spike

Added

2.50

LCS LCS

3.11 *+

Result Qualifier

Unit

ug/L

Lab Sample ID: LCS 180-383766/2-A

Matrix: Water

Analyte

Mercury

Analysis Batch: 384058

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

Prep Batch: 383766

%Rec. %Rec Limits 124 85 - 115

Method: EPA 1664B - HEM and SGT-HEM

Lab Sample ID: MB 180-384584/1-A

Matrix: Water

Analysis Batch: 384587

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

Prep Batch: 384584

MB MB

MB MB

Result Qualifier RL **MDL** Unit **Prepared** Analyzed 5.0 4.3 mg/L 01/07/22 15:30 01/08/22 01:06 HEM (Oil & Grease) 5.0 U

Client: GHD Services Inc. Job ID: 180-131747-1

Project/Site: 11208058, RACER Bay City

Method: EPA 1664B - HEM and SGT-HEM (Continued)

Lab Sample ID: LCS 180-384584/2-A Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA **Prep Batch: 384584** Analysis Batch: 384587

Spike LCS LCS %Rec. Result Qualifier Added %Rec Limits Analyte Unit HEM (Oil & Grease) 39.8 34.50 mg/L 87 78 - 114

Method: EPA 350.1 - Nitrogen, Ammonia

Lab Sample ID: LB 180-383997/1-A Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 384161

LB LB Analyte **Result Qualifier** RL **MDL** Unit Prepared Analyzed Dil Fac 0.10 0.088 mg/L 01/04/22 12:36 0.10 U Ammonia

Lab Sample ID: MB 180-384161/17 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 384161

MB MB Result Qualifier RL **MDL** Unit Dil Fac Analyte Prepared Analyzed 0.10 01/04/22 12:24 Ammonia 0.10 U 0.088 mg/L

Lab Sample ID: LCS 180-384161/18 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 384161

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Ammonia 0.500 0.516 mg/L 103 90 - 110

Method: EPA 410.4 - COD

Lab Sample ID: MB 180-383847/12-A Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 383868 Prep Batch: 383847**

MB MB Result Qualifier Analyte RL MDL Unit Prepared Analyzed Dil Fac 9.1 mg/L Chemical Oxygen Demand 10 U 10 12/30/21 11:48 12/30/21 15:50

Lab Sample ID: MB 180-383847/36-A **Client Sample ID: Method Blank Matrix: Water** Prep Type: Total/NA

Analysis Batch: 383868 **Prep Batch: 383847** MB MB Result Qualifier RL **MDL** Unit Prepared Analyzed **Chemical Oxygen Demand** 10 U 10 9.1 mg/L 12/30/21 11:48 12/30/21 16:10

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 180-383847/35-A **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 383868 Prep Batch: 383847 LCS LCS Spike %Rec. Added Result Qualifier Limits Unit %Rec

Chemical Oxygen Demand 75.0 72 1 96 mg/L 90 - 110

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1/11/2022

Client: GHD Services Inc. Job ID: 180-131747-1

Project/Site: 11208058, RACER Bay City

Lab Sample ID: 180-131747-1 MS

Method: EPA 410.4 - COD (Continued)

Matrix: Water

Analysis Batch: 383868

Client Sample ID: W-11208058-122321-SSH-22021

Prep Type: Total/NA **Prep Batch: 383847**

Sample Sample Spike MS MS %Rec. Result Qualifier Result Qualifier Added Limits Analyte Unit %Rec **Chemical Oxygen Demand** 16 25.0 39.0 mg/L 92 90 - 110

Lab Sample ID: 180-131747-1 MSD Client Sample ID: W-11208058-122321-SSH-22021 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 383868

Prep Batch: 383847 Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier Added Result Qualifier D %Rec Limits RPD Limit Analyte Unit 25.0 Chemical Oxygen Demand 16 43.3 mg/L 109 90 - 110 10 20

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

Lab Sample ID: MB 180-383662/2 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 383662

MB MB

Result Qualifier RL **MDL** Unit Dil Fac Analyte Prepared Analyzed 0.50 Total Suspended Solids 0.50 U 0.50 mg/L 12/29/21 08:52

Lab Sample ID: LCS 180-383662/1 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 383662

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits

Total Suspended Solids 29.0 28.0 97 85 - 115 mg/L

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 180-383680/1 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 383680

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits рΗ 7.00 7.0 SU 100 99 - 101

Method: SM 4500 P E - Phosphorus

Lab Sample ID: MB 480-611278/3 Client Sample ID: Method Blank **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 611278

MB MB Analyte Result Qualifier RI **MDL** Unit Prepared Analyzed Dil Fac Phosphorus 0.010 U 0.010 0.0050 mg/L 01/10/22 12:55

Lab Sample ID: LCS 480-611278/4 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 611278

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Phosphorus 0.200 0.205 mg/L 103 90 - 110

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1/11/2022

QC Sample Results

Client: GHD Services Inc. Job ID: 180-131747-1

Project/Site: 11208058, RACER Bay City

Method: SM 5210B - 5 Day BOD test

Lab Sample ID: USB 180-384048/1 **Client Sample ID: Method Blank**

Matrix: Water

Analysis Batch: 384048

USB USB

RL **MDL** Unit Dil Fac Analyte Result Qualifier Prepared Analyzed 2.0 2.0 mg/L 12/29/21 17:28 Biochemical Oxygen Demand 2.0 U

Lab Sample ID: LCS 180-384048/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 384048

LCS LCS Spike %Rec. Added Result Qualifier Unit D %Rec Limits **Biochemical Oxygen Demand** 198 202 102 85 - 115 mg/L

Prep Type: Total/NA

QC Association Summary

Client: GHD Services Inc.

Project/Site: 11208058, RACER Bay City

Job ID: 180-131747-1

GC/MS VOA

Analysis Batch: 383913

Lab Sample ID 180-131747-1	Client Sample ID W-11208058-122321-SSH-22021	Prep Type Total/NA	Matrix Water	Method EPA 624.1	Prep Batch
MB 180-383913/7	Method Blank	Total/NA	Water	EPA 624.1	
LCS 180-383913/3	Lab Control Sample	Total/NA	Water	EPA 624.1	
180-131747-1 MS	W-11208058-122321-SSH-22021	Total/NA	Water	EPA 624.1	
180-131747-1 MSD	W-11208058-122321-SSH-22021	Total/NA	Water	EPA 624.1	

GC Semi VOA

Prep Batch: 383693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-131747-1	W-11208058-122321-SSH-22021	Total/NA	Water	608	
MB 180-383693/1-A	Method Blank	Total/NA	Water	608	
LCS 180-383693/4-A	Lab Control Sample	Total/NA	Water	608	
LCSD 180-383693/5-A	Lab Control Sample Dup	Total/NA	Water	608	

Analysis Batch: 384070

Lab Sample ID 180-131747-1	Client Sample ID W-11208058-122321-SSH-22021	Prep Type Total/NA	Matrix Water	Method EPA 608.3	Prep Batch 383693
MB 180-383693/1-A	Method Blank	Total/NA	Water	EPA 608.3	383693
LCS 180-383693/4-A	Lab Control Sample	Total/NA	Water	EPA 608.3	383693
LCSD 180-383693/5-A	Lab Control Sample Dup	Total/NA	Water	EPA 608.3	383693

Metals

Prep Batch: 383533

Lab Sample ID 180-131747-1	Client Sample ID W-11208058-122321-SSH-22021	Prep Type Total Recoverable	Matrix Water	Method 200.7	Prep Batch
MB 180-383533/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 180-383533/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 383759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-131747-1	W-11208058-122321-SSH-22021	Total Recoverable	Water	EPA 200.7 Rev 4	383533
MB 180-383533/1-A	Method Blank	Total Recoverable	Water	EPA 200.7 Rev 4	383533
LCS 180-383533/2-A	Lab Control Sample	Total Recoverable	Water	EPA 200.7 Rev 4	383533

Prep Batch: 383766

Lab Sample ID 180-131747-1	Client Sample ID W-11208058-122321-SSH-22021	Prep Type Total/NA	Matrix Water	Method 245.1	Prep Batch
MB 180-383766/1-A	Method Blank	Total/NA	Water	245.1	
LCS 180-383766/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 384058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-131747-1	W-11208058-122321-SSH-22021	Total/NA	Water	EPA 245.1 Rev.	383766
MB 180-383766/1-A	Method Blank	Total/NA	Water	EPA 245.1 Rev.	383766
LCS 180-383766/2-A	Lab Control Sample	Total/NA	Water	EPA 245.1 Rev.	383766

Eurofins Pittsburgh

QC Association Summary

Client: GHD Services Inc. Job ID: 180-131747-1

Project/Site: 11208058, RACER Bay City

General Chemistry

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-131747-1	W-11208058-122321-SSH-22021	Total/NA	Water	SM 2540D	
MB 180-383662/2	Method Blank	Total/NA	Water	SM 2540D	
LCS 180-383662/1	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 383680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-131747-1	W-11208058-122321-SSH-22021	Total/NA	Water	SM 4500 H+ B	
LCS 180-383680/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Prep Batch: 383847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-131747-1	W-11208058-122321-SSH-22021	Total/NA	Water	410.4	
MB 180-383847/12-A	Method Blank	Total/NA	Water	410.4	
MB 180-383847/36-A	Method Blank	Total/NA	Water	410.4	
LCS 180-383847/35-A	Lab Control Sample	Total/NA	Water	410.4	
180-131747-1 MS	W-11208058-122321-SSH-22021	Total/NA	Water	410.4	
180-131747-1 MSD	W-11208058-122321-SSH-22021	Total/NA	Water	410.4	

Analysis Batch: 383868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-131747-1	W-11208058-122321-SSH-22021	Total/NA	Water	EPA 410.4	383847
MB 180-383847/12-A	Method Blank	Total/NA	Water	EPA 410.4	383847
MB 180-383847/36-A	Method Blank	Total/NA	Water	EPA 410.4	383847
LCS 180-383847/35-A	Lab Control Sample	Total/NA	Water	EPA 410.4	383847
180-131747-1 MS	W-11208058-122321-SSH-22021	Total/NA	Water	EPA 410.4	383847
180-131747-1 MSD	W-11208058-122321-SSH-22021	Total/NA	Water	EPA 410.4	383847

Leach Batch: 383997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 180-383997/1-A	Method Blank	Total/NA	Water	D3987-85	

Analysis Batch: 384048

Lab Sample ID 180-131747-1	Client Sample ID W-11208058-122321-SSH-22021	Prep Type Total/NA	Matrix Water	Method SM 5210B	Prep Batch
USB 180-384048/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 180-384048/2	Lab Control Sample	Total/NA	Water	SM 5210B	

Analysis Batch: 384161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-131747-1	W-11208058-122321-SSH-22021	Total/NA	Water	EPA 350.1	
LB 180-383997/1-A	Method Blank	Total/NA	Water	EPA 350.1	383997
MB 180-384161/17	Method Blank	Total/NA	Water	EPA 350.1	
LCS 180-384161/18	Lab Control Sample	Total/NA	Water	EPA 350.1	

Prep Batch: 384584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-131747-1	W-11208058-122321-SSH-22021	Total/NA	Water	1664B	
MB 180-384584/1-A	Method Blank	Total/NA	Water	1664B	
LCS 180-384584/2-A	Lab Control Sample	Total/NA	Water	1664B	

Page 22 of 27

QC Association Summary

Client: GHD Services Inc. Job ID: 180-131747-1

Project/Site: 11208058, RACER Bay City

General Chemistry

Analysis Batch: 384587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-131747-1	W-11208058-122321-SSH-22021	Total/NA	Water	EPA 1664B	384584
MB 180-384584/1-A	Method Blank	Total/NA	Water	EPA 1664B	384584
LCS 180-384584/2-A	Lab Control Sample	Total/NA	Water	EPA 1664B	384584

Analysis Batch: 611278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-131747-1	W-11208058-122321-SSH-22021	Total/NA	Water	SM 4500 P E	
MB 480-611278/3	Method Blank	Total/NA	Water	SM 4500 P E	
LCS 480-611278/4	Lab Control Sample	Total/NA	Water	SM 4500 P E	

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park

Pittsburgh, PA 15238
Phone (412) 963-2468

Chain of Custody Record

💸 eurofins

Environment Testing America

Phone (412) 963-7058 Phone (412) 963-2468	Sampler 5	И		Lab	PM: :kler, De	nico D				Carrier Ti	acking No(s):	COC No: 240-89572-33955.1
Client Information Client Contact:	Phone:	toever		E-Ma		ilise D	_			State of C	Origin:	Page:
Ms. Ruth Mickle	616	477	773	Der	ise.Hed	kler@E	urofins	et.co	m		MI	Page 1 of 1
Company: GHD Services Inc.		71 111	PWSID:					An	alysis F	equeste	d	Job #:
Address: 26850 Haggerty Rd.	Due Date Requ	uested:										Preservation Codes:
City: Farmington Hills	TAT Requeste	d (days): 10 da	ays									A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2
State, Zip: MI, 48331	Compliance P	roject: ∆ Yes	Δ Νο									D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3
Phone:		der Requeste	d			(aoo						G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate
Email: ruth.mickle@ghd.com	wo#: 11208058					<u>a</u>						1 - Ice U - Acetone J - DI Water V - MCAA
Project Name: 11208058, RACER Bay City	Project #: 24006288					(Ammonia,			Chloride PCB's	and TSS)	Gie	K - EDTA W - pH 4-5 L - EDA Z - other (specify)
Site:	SSOW#:					.4 (An			Vinyl Chloride	300 ar		Other:
Sample Identification	Sample Da	Sample te Time		Matrix (W=water. S=solid, O=waste/oil, BT=Tissue, A=Ak)		350.1, 365.4, 410.4		200.7, 245.1	624.1_PREC - 608.3_PCB_PR	2540D, 5210B (BOD	Tree	
		100			 	s s	N	D /	A N I			BOD has a 48 hour holding time
W-11202058 -122321 -SSH -22021	12/23/2	1 1130	CC	Water	H	X	X	X	XX,			All analysis to be done in Pittsburgh
					Ш						3411	The analysis to be done in the assurging
	14.5											
			-									
		li i										
180-131747 Chain of Custo	dy											
	1	- 7		1								-
	14											
Possible Hazard Identification					Sa	mple D	sposa	I (Af	ee may b	e assesse	d if samples are retai	ined longer than 1 month)
	on B 😾 Ur	known L	Radiological				rn To C			Disposal i	By Lab Arc	hive For Months
Deliverable Requested: I, II, III, IV, Other (specify)					Spe	ecial Ins	truction	ns/QC	Require	nents:		
Empty Kit Relinquished by:		Date:			Time:			_		Met	hod of Shipment:	
Relinquished by	Date/Time:	14	100	Company	1	Receive					Date/Time:	1000 Company Pitt
Relinquished by:	Date/Time:			Company		Receive	kd b				Date/Time:	Company
Relinquished by:	Date/Time:			Company		Receive	d by				Date/Time:	Company
Custody Seals Intact: Custody Seal No.:	156 1	6924	57			Cooler T	emperat	ure(s)	°C and Othe	r Remarks:		

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Eurofins Pittsburgh 301 Alpha Drive RIDC Park Pittsburgh, PA 15238 Phone: 412-963-7058 Fax: 412-963-2468

eurofins Environment Testing America

Chain of Custody Record

Client Information (Sub Contract Lab)		Heckler Denise D	enise D	Carrier Tracking No(s):	COC No:
Client Contact:	Phone:	E-Mail:		State of Origin	180-432121.1
Shipping/Receiving		Denise.He	Denise Heckler@Eurofinset.com	Michigan	Page 1 of 1
Company. Eurofins Environment Testing Northeast,		Accred	Accreditations Required (See note):		Job #:
Address:	Due Date Requested:				180-131747-1
10 Hazelwood Drive, ,	1/10/2022		Analysis Requested		
City: Amherst	TAT Requested (days):				
State, Zip: NY: 14228-2298					C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S
	PO#:	T			
716-691-2600(Tel) 716-691-7991(Fax)		(0			
Linai.	, MO #:				
Project Name: 11208058, RACER Bay City	Project #: 24006288			saeui	K - EDTA W - pH 4-5 L - EDA Z - other (specify)
Site.	SSOW#:			stroo 1	Other:
Sample Identification - Client ID (Lab ID)	Sample Date Time Gerrahy	Matrix (Wawator, Sasolid, Dr. Sasolid, Dr. Comasteloid, Gelform MS/MS)	200 [–] Er (WOD	o 19amper o	
	X	ation Code:		1	Special Instructions/Note:
W-11208058-122321-SSH-22021 (180-131747-1)	12/23/21 11:30 Factorn	Water	×	-	
Note. Since laboratory accreditations are subject to change, Eurofins Northeast places the ownership of method, analyte & accreditation compliance upon out subcontract laboratory. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/lests/matrix being analyzed, the samples must be shipped back to the Eurofins Northeast laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Northeast.	places the ownership of method, analyte & accr being analyzed, the samples must be shipped the signed Chain of Custody attesting to said co	editation compliance upon or back to the Eurofins Northe mplicance to Eurofins North	ut subcontract laboratories. This sample ast laboratory or other instructions will be east.	Shipment is forwarded under chain-of-cus provided. Any changes to accreditation s	stody. If the laboratory does not currently status should be brought to Eurofins Northeast
Possible Hazard Identification		S	mule Dienocal / A fee may be		
Unconfirmed		5	Beturn To Client	pies are re	ed longer than 1 month)
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2	र्छ 	Requireme	Josef by Lab	Arcnive For Months
Empty Kit Relinquished by:	Date:	Time:		Method of Shipment:	
Relinquished by:	Date/Time -22 /700	Company Lt	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1 1	Date/Time:	Company	Received by:	DateTime	Company
Custody Seals Intact: Custody Seal No.: △ Yes △ No			Cooler Temperature(s) °C and Other Remarks:		N P C C C C

Login Sample Receipt Checklist

Client: GHD Services Inc. Job Number: 180-131747-1

Login Number: 131747 List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

Greator. Abernatny, Eric L		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Client: GHD Services Inc.

Job Number: 180-131747-1

Login Number: 131747 List Source: Eurofins Buffalo
List Number: 2 List Creation: 01/07/22 09:58 AM

Creator: Stopa. Erik S

Question Answer Comment Radioactivity either was not measured or, if measured, is at or below background True The cooler's custody seal, if present, is intact. True The cooler or samples do not appear to have been compromised or tampered with. True Samples were received on ice. True Cooler Temperature is acceptable. True COC is present. True COC is filled out in ink and legible. True COC is filled out with all pertinent information. True Is the Field Sampler's name present on COC? True There are no discrepancies between the sample IDs on the containers and the COC. True Samples are received within Holding Time (Excluding tests with immediate HTS). True Sample containers have legible labels. True Containers are not broken or leaking. True Sample collection date/times are provided. True Appropriate sample containers are used. True Sample Preservation Verified True There is sufficient vol. for all requested analyses, incl. any requested True SAMPLE visual base on the very least of the preservation verified True <	Creator: Stopa, Erik S		
background The cooler's custodly seal, if present, is intact. The cooler or samples do not appear to have been compromised or tampered with. Samples were received on ice. Cooler Temperature is acceptable. True Cooler Temperature is acceptable. True CoCC is present. COC is present. COC is filled out in ink and legible. True COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? True There are no discrepancies between the sample IDs on the containers and the COC. Samples are received within Holding Time (Excluding tests with immediate HTs). Sample containers have legible labels. Containers are not broken or leaking. True Sample collection date/times are provided. Appropriate sample containers are used. True Sample bottles are completely filled. True Sample Preservation Verified There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. If necessary, staff have been informed of any short hold time or quick TAT needs Multiphasic samples are not present. True Samples company provided. True	Question	Answer	Comment
The cooler or samples do not appear to have been compromised or tampered with. Samples were received on ice. Cooler Temperature is acceptable. Cooler Temperature is recorded. Cooler Temperature is recorded. True CoC is present. COC is present. COC is filled out in ink and legible. COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? There are no discrepancies between the sample IDs on the containers and the COC. Samples are received within Holding Time (Excluding tests with immediate HTS). Sample containers have legible labels. Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. Sample preservation Verified There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. If necessary, staff have been informed of any short hold time or quick TAT needs Multiphasic samples are not present. Samples company provided. True		True	
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COC is filled out with all pertinent information. Is the Field Sampler's name present on COC? True There are no discrepancies between the sample IDs on the containers and the COC. Samples are received within Holding Time (Excluding tests with immediate HTS). Sample containers have legible labels. Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. Sample bottles are completely filled. Sample Preservation Verified True There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. If necessary, staff have been informed of any short hold time or quick TAT needs Multiphasic samples are not present. Samples do not require splitting or compositing. Samples received within 48 hours of sampling.	COC is present.	True	
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Containers are not broken or leaking. Sample collection date/times are provided. Appropriate sample containers are used. Sample bottles are completely filled. Sample Preservation Verified True There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs VOA sample vials do not have headspace or bubble is <6mm (1/4") in True True If necessary, staff have been informed of any short hold time or quick TAT Ine Samples do not require splitting or compositing. True Samples received within 48 hours of sampling. True		True	
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Samples received within 48 hours of sampling. True	Samples do not require splitting or compositing.	True	
	Sampling Company provided.	True	
Samples requiring field filtration have been filtered in the field.	Samples received within 48 hours of sampling.	True	
Samples requiring field illustron have been filtered in the field.	Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked. True	Chlorine Residual checked.	True	

Eurofins Pittsburgh

Attachment 2

Certification Statement

Certification Statement

"I, <u>David Favero</u>, certify under penalty of law that this document (January 20, 2022 GHD Semi-Annual Compliance Report (July 1 to December 31, 2021)), 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."

David Savew 1/20/2022

RACER, Deputy Cleanup Manager – Michigan (Date)