

OBG | There's a way

April 25, 2018

Mr. Tom Hutchings City of Flint Water Pollution Water Pollution Control Facilities G4652 Beecher Rd. Flint, MI, 48532

RE: Discharge Permit Submittal– January 2018 through March 2018 Permit No.: 6-08-04-04-GML1

FILE: 15388/68545/Docs

Dear Mr. Hutchings:

In accordance with requirements of the above referenced discharge permit, we are providing you with the following discharge information for the period January 1, 2018 to March 31, 2018 for the Coldwater Road Landfill facility, located at 6220 Horton Avenue, Flint, Michigan.

- Periodic Report on Continued Compliance, certification
- Periodic Report on Continued Compliance (Table 1)
- Daily Discharge Summary Table (Table 2)
- Analytical Reports provided by Merit Laboratories, Inc. for samples from the on-site, above ground collection tank collected on February 21, 2018.
- Copy of Chain-of-Custody forms.

The laboratory analytical results indicate concentrations were below the Sewer Use Permit limits for the parameters analyzed for the water discharged to the POTW during the discharge period.

Please call me at 313-333-0211 if you have any questions.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

Clifford S. Yantz Senior Hydrogeologist

cc: Mr. Kevin Forbes – Beecher Metropolitan District, Flint, MI Mr. Grant Trigger – RACER Trust Mr. David Favero – RACER Trust Mr. Kevin Schneider – O'Brien & Gere



City of Flint Industrial Pretreatment Program

Periodic Report on Continued Compliance

Company Name:	RACER Trust, Coldwater Road
Street Address:	6220 Horton Avenue, Flint, Michigan
Permit Number:	6-08-04-04-GML1
Outfall Number:	001

Reporting Period: ______ January 1, 2018 through March 31, 2018

Average Volume of Daily Discharge (during reporting period): 2,202 gallons (Three One Day Events)

Complete the following:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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 the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Name of Authorized Representative:	Clifford Yantz	
	Senior Hydrogeologist, O'Brien & Gere Engineers, Inc. As agent for the RACER Trust	
Signature of Authorized Representative:	Pliffind Deart Yarty, as agent to BACER Tr	inst
Date Signed by Authorized Representative:	4/25/18	

If required to implement a Toxic Organics Management Plan (TOMP), complete the following:

"Based on my inquiry of the person or persons directly responsible for managing compliance with the pretreatment standard for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing of the last Periodic Report on Continued Compliance. I further certify that, this facility is implementing the toxic organic management plan submitted to the control authority."

Name of Authorized Representative: _	N/A
Title of Authorized Representative:	N/A
Signature of Authorized Representative:_	N/A
Date Signed by Authorized Representative:	N/A

Table 1 Periodic Report on Continued Compliance City of Flint Sewer User Self-Monitoring Report First Quarter - 2018

RACER Trust - Coldwater Road Landfill Facility Permit Number 6-08-04-04-GML1 6220 Horton Avenue								
Analytical Parameter	Ammonia-N	BOD5	HEM	рН @ 25°С	Phosphorus	TSS		
Units	mg/L	mg/L	mg/L	SU	mg/L	mg/L		
Sampling Frequency	Per Batch							
Sampling Procedure	Grab sample							
Daily Maximum Limit	110	1196	100	NA	14	570		
Maximum Limit	NA	NA	NA	10.5	NA	NA		
Minimum Limit	NA	NA	NA	6	NA	NA		
Test Result	1.17	7.3	0	8.4	0.06	76		
Test Method	4500-NH3 D	10360	1664A	4500-Н+ В	4500-PE	2540 D		
Test Date	2/23/2018	2/26/2018	2/27/2018	2/21/2018	2/27/2018	2/21/2018		
Sample Date	2/21/2018	2/21/2018	2/21/2018	2/21/2018	2/21/2018	2/21/2018		
Sample Type	wastewater	wastewater	wastewater	wastewater	wastewater	wastewater		
Test Result								
Test Method								
Test Date								
Sample Date								
Sample Type								
Test Result								
Test Method								
Test Date								
Sample Date								
Sample Type								
Average Daily Conc.								
No. of Samples								
Number of Limit Exceedances								

Table 1Periodic Report on Continued ComplianceCity of Flint Sewer User Self-Monitoring ReportFirst Quarter - 2018

RACER Trust - Coldwater Road Landfill Facility Permit Number 6-08-04-04-GML1 6220 Horton Avenue												
Analytical Parameter	Analytical Parameter Arsenic Chromium Copper Mercury Nickel Zinc Cyanide, available Units mg/L mg/L mg/L mg/L mg/L mg/L											
	0		6		0	-	Ũ					
Sampling Frequency	Per Batch	Per Batch	Per Batch	Per Batch	Per Batch	Per Batch	Per Batch					
Sampling Procedure	Grab sample	Grab sample	Grab sample	Grab sample	Grab sample	Grab sample	Grab sample					
Daily Maximum Limit	0.051	1.273	1.797	0.000012	0.543	2.626	0.165					
Maximum Limit	NA	NA	NA	NA	NA	NA	NA					
Minimum Limit	NA	NA	NA	NA	NA	NA	NA					
Test Result	0.009	0.180	0.888	0.0000	0.205	0.062	0.000					
Test Method	200.8	200.8	200.8	245.1	200.8	200.8	1677					
Test Date	2/22/2018	2/22/2018	2/22/2018	2/22/2018	2/22/2018	2/22/2018	2/23/2018					
Sample Date	2/21/2018	2/21/2018	2/21/2018	2/21/2018	2/21/2018	2/21/2018	2/21/2018					
Sample Type	wastewater	wastewater	wastewater	wastewater	wastewater	wastewater	wastewater					
Test Result												
Test Method												
Test Date												
Sample Date												
Sample Type												
Test Result												
Test Method												
Test Date												
Sample Date												
Sample Type												
Average Daily Conc.												
No. of Samples												
Number of Limit Exceedances												

Table 2 Coldwater Road Landfill Daily Discharge Summary Table First Quarter - 2018 6-08-04-04-GML1

	Beginning Flow	End Flow	Gallons	Begin Time	End Time	Average Flow	Temperature	at Discharge	
Date	Meter Reading	Meter Reading	Discharged	of Discharge	of Discharge	(gal/min)	(C)	(F)	рН
2/27/2018	546,534	546,534	180	10:30	10:43	13.8	11.0	51.8	8.40
3/20/2018	546,534	551,006	4,472	12:25	15:00	28.9	8.0	46.4	7.90
3/21/2018	551,006	552,961	1,955	9:20	10:35	26.1	8.0	46.4	7.80

Total Discharge Volume (3 Days):6,607Average Discharge Volume (3 Days):2,202

NOTES : On 2/27/2018 no liquids were discharged from the accumulation tank. Water from the containment sump was discharged. Water was from condensation from outside of the tank and piping due to sudden change in temperature/humidity and from city water meter leaking while on



Analytical Laboratory Report

Report ID: S87780.01(01) Generated on 02/27/2018

Report to

Attention: Clifford Yantz O'Brien & Gere Engineers, Inc. 1203 Mallow St. Wolverine Lake, MI 48390

Phone: 248-477-5701 FAX: Email: Clifford.Yantz@obg.com

Report Summary

Lab Sample ID(s): S87780.01 Project: 68345.001.130 RACER Coldwater Rd Landfill Collected Date: 02/21/2018 Submitted Date/Time: 02/21/2018 13:35 Sampled by: Clifford Yantz P.O. #: 11700139

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Cover Page (Page 1) General Report Notes (Page 2) Report Narrative (Page 2) Laboratory Certifications (Page 3) Qualifier Descriptions (Page 3) Glossary of Abbreviations (Page 3) Method Summary (Page 4) Sample Summary (Page 5) Report produced by

Merit Laboratories, Inc. 2680 East Lansing Drive East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions: John Laverty (johnlaverty@meritlabs.com) Barbara Ball (bball@meritlabs.com)

Maya Mushah C

Maya Murshak Technical Director



General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).

40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling. QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request. Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.

Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

Report Narrative

There is no additional narrative for this analytical report



Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
В	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
Н	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
Μ	Result reported to MDL not RDL
0	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
Т	No correction for total solids
Х	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
е	Reported value estimated due to interference
j	Analyte also found in associated method blank
р	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
х	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods



Method Summary

Method	Version
E1664A	EPA Method 1664 Revision A February 1999
E200.8	EPA Method 200.8 Revision 5.4
E245.1	EPA Method 245.1 Revision 3.0
HACH 10360	HACH 10360
OIA-1677	EPA Method OIA-1677
SM2540D	Standard Method 2540 D 20th Edition
SM2550B	Standard Method 2550 B 20th Edition
SM4500-H+ B	Standard Method 4500 H + B 20th Edition
SM4500-NH3 D	Standard Method 4500 NH3 D 20th Edition
SM4500-PE	Standard Method 4500 P E 20th Edition
SW3015A	SW 846 Method 3015A Revision 1 February 2007



Analytical Laboratory Report

Sample Summary (1 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S87780.01	01-PRCC-18	Wastewater	02/21/18 11:00



Analytical Laboratory Report

Lab Sample ID: S87780.01

Sample Tag: 01-PRCC-18 Collected Date/Time: 02/21/2018 11:00 Matrix: Wastewater COC Reference: 104820

Sample Containers

#	Туре	Preservati	ve(s)	Refrigerate	ed? Arrival	Temp. (C) Thermome	eter #		
1	125ml Plastic	HNO3		Yes	5.4	IR			
1	250ml Plastic	H2SO4		Yes	5.4	IR			
1	125ml Amber	PbCO3/Na	ОН	Yes	5.4	IR			
1	1L Amber	None		Yes	5.4	IR			
1	32oz Glass	HCL		Yes	5.4	IR			
Analy	sis		Results	Units	RL	Method	Run Date/Time	Tech CAS # Flags	5
	ction / Prep.								
Mercu	ury Digestion		Completed			E245.1	02/22/18 11:20	JRH	
Metal	Digestion		Completed			SW3015A	02/22/18 10:15	CCM	
Inoro	anics								
-	onia-N (Undistilled)		1.17	mg/L	0.02	SM4500-NH3 D	02/23/18 13:48	MJC 7664-41-7	
Field p	, ,		8.4	STD Units	0.02	SM4500-H+ B	02/21/18 11:00	CY	
	Temperature*		52	oF	1	SM2550B	02/21/18 11:00	CY	
	Grease n-Hexane Extrac	~t	Not detected	mg/L	2	E1664A	02/27/18 12:00	PLB	
	05 - Set*		Completed	mg/L	2	HACH 10360	02/21/18 15:00	SCV	
TBOD			7.3	mg/L	3	HACH 10360	02/26/18 15:10	SCV	
	Phosphorus		0.06	mg/L	0.01	SM4500-PE	02/27/18 13:31	MJC 7723-14-0	
	Suspended Solids		76	mg/L	3	SM2540D	02/21/18 18:55	ASB	
				-					
Meta	ls								
Arsen	lic		0.009	mg/L	0.002	E200.8	02/22/18 11:28	CCM 7440-38-2	
Chron	nium		0.180	mg/L	0.005	E200.8	02/22/18 11:28	CCM 7440-47-3	
Coppe	er		0.888	mg/L	0.005	E200.8	02/22/18 11:28	CCM 7440-50-8	
Mercu	ury		Not detected	mg/L	0.0002	E245.1	02/22/18 14:27	JRH 7439-97-6	
Nickel			0.205	mg/L	0.005	E200.8	02/22/18 11:28	CCM 7440-02-0	
Zinc			0.062	mg/L	0.005	E200.8	02/22/18 11:28	CCM 7440-66-6	
Othe	r / Misc.								
Availa	able Cyanide		Not detected	mg/L	0.002	OIA-1677	02/23/18 10:50	JDP 57-12-5	

REPORT T		Merit Laboratories, Inc.	2680 East Lansi Phone (517) 332- www.meritlabs.c	-0167 F com	ax (517)	332-40	34				C.O.C	C. PAG	iE #	1 0	DF_/	1048	820
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87780.01 2/21	118 11:00	01-PRCC-	18					×							Met As, Ann E	al Instructions als are Cr, Cu, Hg Ly sis per lint - Inclui 20 report 10 pH: 10 Tempi 13 Tempi 13 Tempi	City of
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Quality Control Report

Report ID: QC-S87780-01 Generated on 03/06/2018

Report to

Attention: Clifford Yantz O'Brien & Gere Engineers, Inc. 1203 Mallow St. Wolverine Lake, MI 48390

Phone: 248-477-5701 FAX:

Report Produced by Merit Laboratories 2680 East Lansing Drive East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S87780.01 Project: 68345.001.130 RACER Coldwater Rd Landfill Submitted Date/Time: 02/21/2018 13:35 Sampled by: Clifford Yantz P.O. #: 11700139

QC Report Sections

Cover Page (Page 1) Analysis Summary (Page 2) Prep Batch Summary (Page 3) Batch QC Results (Pages 4-11)

Report Flag Descriptions

*: QC result is outside of indicated control limits

W: Surrogate result not applicable due to sample dilution

I certify that this data package is in compliance with the terms and conditions of the program, and project, and contractual requirements both technically and for completeness. Release of the data contained in this hardcopy data package and its computer-readable data submitted has been authorized by the Quality Assurance Manager and his/her designee, as verified by the following signature.

Bartara Ball

Barbara Ball Quality Assurance Manager

Lab Sample ID: S87780.01

Sample Tag: 01-PRCC-18 Collected Date/Time: 02/21/2018 11:00 Matrix: Wastewater COC Reference: 104820

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Suri	r QC Types
Inorganics						
Ammonia-N (Undistilled)	SM4500-NH3 D	02/23/18 13:48	AMN180223QC	AMN180223QC	No	BLK/LCS/MS/DUP
Oil & Grease n-Hexane Extract.	E1664A	02/27/18 12:00	OGHEX180227W0	1 OGHEX180227W0 ⁻	1 No	BLK/LCS
Total Phosphorus	SM4500-PE	02/27/18 13:31	PHS180227QC	PHS180227QC	No	BLK/LCS/MS/DUP
Total Suspended Solids	SM2540D	02/21/18 18:55	TSS180221	TSS180221	No	BLK/LCS/DUP
Metals						
	F 000 0	00/00/40 44 00				
Arsenic	E200.8	02/22/18 11:28	MT4-18-0222A	MTD-022218-6	No	LCS/BLK/MS/MSD/DUP
Chromium	E200.8	02/22/18 11:28	MT4-18-0222A	MTD-022218-6	No	LCS/BLK/MS/MSD/DUP
Copper	E200.8	02/22/18 11:28	MT4-18-0222A	MTD-022218-6	No	LCS/BLK/MS/MSD/DUP
Mercury	E245.1	02/22/18 14:27	HG2-18-0222A	HGD-022218-1	No	LCS/BLK/MS/MSD
Nickel	E200.8	02/22/18 11:28	MT4-18-0222A	MTD-022218-6	No	LCS/BLK/MS/MSD/DUP
Zinc	E200.8	02/22/18 11:28	MT4-18-0222A	MTD-022218-6	No	LCS/BLK/MS/MSD/DUP
Other / Misc.						
Available Cyanide	OIA-1677	02/23/18 10:50	ACN180223-W1	ACN180223-W1	No	BLK/LCS/MS/MSD/DUP

QC Report - Prep Batch Summary

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S87780.01	Ammonia-N (Undistilled)	SM4500-NH3 D	02/23/18 13:48	AMN180223QC
norganics,	Prep Batch ID: OGHEX180227W01			
Surrogates:	No, QC Types: BLK/LCS			
Sample ID	Analysis	Method	Run Date/Time	Batch ID
87780.01	Oil & Grease n-Hexane Extract.	E1664A	02/27/18 12:00	OGHEX180227W0
norganics,	Prep Batch ID: PHS180227QC			
Surrogates: I	No, QC Types: BLK/LCS/MS/DUP			
Sample ID	Analysis	Method	Run Date/Time	Batch ID
687780.01	Total Phosphorus	SM4500-PE	02/27/18 13:31	PHS180227QC
norganics,	, Prep Batch ID: TSS180221			
Surrogates: I	No, QC Types: BLK/LCS/DUP			
Sample ID	Analysis	Method	Run Date/Time	Batch ID
\$87780.01	Total Suspended Solids	SM2540D	02/21/18 18:55	TSS180221
Metals, Pre	ep Batch ID: HGD-022218-1			
Surrogates: I	No, QC Types: LCS/BLK/MS/MSD			
Sample ID	Analysis	Method	Run Date/Time	Batch ID
\$87780.01	Mercury	E245.1	02/22/18 14:27	HG2-18-0222A
•	ep Batch ID: MTD-022218-6			
•	No, QC Types: LCS/BLK/MS/MSD/DUP			
Sample ID	Analysis	Method	Run Date/Time	Batch ID
587780.01	Arsenic	E200.8	02/22/18 11:28	
587780.01	Chromium	E200.8	02/22/18 11:28	
587780.01	Copper	E200.8	02/22/18 11:28	
	Nickel	E200.8	02/22/18 11:28	MT4-18-0222A
		E 000.0	02/22/18 11:28	MT4-18-0222A
	Zinc	E200.8	02/22/10 11.20	
587780.01 Other / Mis e	c., Prep Batch ID: ACN180223-W1	E200.8	02/22/10 11.20	
S87780.01 Other / Mis e Surrogates: I	c., Prep Batch ID: ACN180223-W1 No, QC Types: BLK/LCS/MS/MSD/DUP	E200.8		
S87780.01 Other / Misc Surrogates: I Sample ID	c., Prep Batch ID: ACN180223-W1 No, QC Types: BLK/LCS/MS/MSD/DUP Analysis	Method	Run Date/Time	Batch ID
	c., Prep Batch ID: ACN180223-W1 No, QC Types: BLK/LCS/MS/MSD/DUP			

Inorganics, Prep Batch ID: AMN180223QC

Surrogates: No, QC Types: BLK/LCS/MS/DUP

Lab Sample ID: AMN180223QC.LRB1 Run in Batch: AMN180223QC, Run Date: 02/	23/2018 10.48	Pren Date: (12/23/2019	Matrix: Liquid Dilu	ition 1
Analyte	Flags	Conc	RDL	Units	
Ammonia-N (Undistilled)	riago	ND	0.02	mg/L	
			0.02	ing/E	
Laboratory Control Sample (LCS)					
Lab Sample ID: AMN180223QC.LCS1					
Run in Batch: AMN180223QC, Run Date: 02/	/23/2018 12:04, F	Prep Date: (02/23/2018	, Matrix: Liquid, Dilu	ition: 1
Analyte	Flags	% Rec	LCL	UCL	
Ammonia-N (Undistilled)		103	90	110	
Matrix Spike (MS)					
Lab Sample ID: AMN180223QC.MS1, Parent	•				
Run in Batch: AMN180223QC, Run Date: 02/					ition: 1
Analyte	Flags	% Rec	LCL	UCL	
Ammonia-N (Undistilled)		94	80	120	
Ammonia-N (Undistilled)		94	80	120	
Ammonia-N (Undistilled) Matrix Spike (MS)	Sample ID: S878	-	80	120	
Ammonia-N (Undistilled) Matrix Spike (MS) Lab Sample ID: AMN180223QC.MS2, Parent 3	•	12.03			ion: 1
Ammonia-N (Undistilled) Matrix Spike (MS)	•	12.03			ion: 1
Ammonia-N (Undistilled) Matrix Spike (MS) Lab Sample ID: AMN180223QC.MS2, Parent 3 Run in Batch: AMN180223QC, Run Date: 02/	23/2018 16:47, I	12.03 Prep Date: (02/23/2018	s, Matrix: Solid, Diluti	ion: 1
Ammonia-N (Undistilled) Matrix Spike (MS) Lab Sample ID: AMN180223QC.MS2, Parent 3 Run in Batch: AMN180223QC, Run Date: 02/ Analyte	23/2018 16:47, I	12.03 Prep Date: (% Rec)2/23/2018 LCL	s, Matrix: Solid, Diluti UCL	ion: 1
Ammonia-N (Undistilled) Matrix Spike (MS) Lab Sample ID: AMN180223QC.MS2, Parent 3 Run in Batch: AMN180223QC, Run Date: 02/ Analyte	23/2018 16:47, I	12.03 Prep Date: (% Rec)2/23/2018 LCL	s, Matrix: Solid, Diluti UCL	ion: 1
Ammonia-N (Undistilled) Matrix Spike (MS) Lab Sample ID: AMN180223QC.MS2, Parent : <u>Run in Batch: AMN180223QC, Run Date: 02/</u> <u>Analyte</u> Ammonia-N (Undistilled)	23/2018 16:47, F Flags	12.03 Prep Date: (% Rec 98)2/23/2018 LCL	s, Matrix: Solid, Diluti UCL	ion: 1
Ammonia-N (Undistilled) Matrix Spike (MS) Lab Sample ID: AMN180223QC.MS2, Parent 3 <u>Run in Batch: AMN180223QC, Run Date: 02/</u> <u>Analyte</u> Ammonia-N (Undistilled) Duplicate (DUP)	23/2018 16:47, Flags Flags Sample ID: S8778	12.03 Prep Date: (% Rec 98 33.01	02/23/2018 LCL 80	8 <u>, Matrix: Solid, Diluti</u> <u>UCL</u> 120	
Ammonia-N (Undistilled) Matrix Spike (MS) Lab Sample ID: AMN180223QC.MS2, Parent 3 <u>Run in Batch: AMN180223QC, Run Date: 02/</u> <u>Analyte</u> Ammonia-N (Undistilled) Duplicate (DUP) Lab Sample ID: AMN180223QC.DP1, Parent 5	23/2018 16:47, Flags Flags Sample ID: S8778	12.03 Prep Date: (% Rec 98 33.01	02/23/2018 LCL 80	8, Matrix: Solid, Diluti UCL 120 8, Matrix: Liquid, Dilu	
Ammonia-N (Undistilled) Matrix Spike (MS) Lab Sample ID: AMN180223QC.MS2, Parent : <u>Run in Batch: AMN180223QC, Run Date: 02/</u> <u>Analyte</u> Ammonia-N (Undistilled) Duplicate (DUP) Lab Sample ID: AMN180223QC.DP1, Parent S <u>Run in Batch: AMN180223QC, Run Date: 02/</u>	23/2018 16:47, F Flags Sample ID: S8778 23/2018 12:33, F	12.03 Prep Date: (% Rec 98 33.01 Prep Date: (02/23/2018 LCL 80 02/23/2018	8, Matrix: Solid, Diluti UCL 120 8, Matrix: Liquid, Dilu	
Ammonia-N (Undistilled) Matrix Spike (MS) Lab Sample ID: AMN180223QC.MS2, Parent 3 Run in Batch: AMN180223QC, Run Date: 02/ Analyte Ammonia-N (Undistilled) Duplicate (DUP) Lab Sample ID: AMN180223QC.DP1, Parent S Run in Batch: AMN180223QC, Run Date: 02/ Analyte Ammonia-N (Undistilled)	23/2018 16:47, F Flags Sample ID: S8778 23/2018 12:33, F	12.03 Prep Date: (% Rec 98 33.01 Prep Date: (RPD	02/23/2018 LCL 80 02/23/2018 RPD CL	8, Matrix: Solid, Diluti UCL 120 8, Matrix: Liquid, Dilu	
Ammonia-N (Undistilled) Matrix Spike (MS) Lab Sample ID: AMN180223QC.MS2, Parent : <u>Run in Batch: AMN180223QC, Run Date: 02/</u> <u>Analyte</u> Ammonia-N (Undistilled) Duplicate (DUP) Lab Sample ID: AMN180223QC, Run Date: 02/ <u>Analyte</u> Ammonia-N (Undistilled) Duplicate (DUP) Duplicate (DUP)	23/2018 16:47, F Flags Sample ID: S8778 23/2018 12:33, F Flags	12.03 Prep Date: (% Rec 98 33.01 Prep Date: (RPD 3.8	02/23/2018 LCL 80 02/23/2018 RPD CL	8, Matrix: Solid, Diluti UCL 120 8, Matrix: Liquid, Dilu	
Ammonia-N (Undistilled) Matrix Spike (MS) Lab Sample ID: AMN180223QC.MS2, Parent 3 Run in Batch: AMN180223QC, Run Date: 02/ Analyte Ammonia-N (Undistilled) Duplicate (DUP) Lab Sample ID: AMN180223QC, Run Date: 02/ Analyte Ammonia-N (Undistilled) Duplicate (DUP) Lab Sample ID: AMN180223QC.DP2, Parent 5	23/2018 16:47, F Flags Sample ID: S8778 23/2018 12:33, F Flags Sample ID: S8781	12.03 Prep Date: (% Rec 98 93.01 Prep Date: (RPD 3.8 2.01	02/23/2018 LCL 80 02/23/2018 RPD CL 20	9, Matrix: Solid, Diluti UCL 120 8, Matrix: Liquid, Dilu	ition: 1
Ammonia-N (Undistilled) Matrix Spike (MS) Lab Sample ID: AMN180223QC.MS2, Parent 3 Run in Batch: AMN180223QC, Run Date: 02/ Analyte Ammonia-N (Undistilled) Duplicate (DUP) Lab Sample ID: AMN180223QC, Run Date: 02/ Analyte Ammonia-N (Undistilled) Duplicate (DUP) Lab Sample ID: AMN180223QC, Run Date: 02/ Analyte Ammonia-N (Undistilled) Duplicate (DUP) Lab Sample ID: AMN180223QC.DP2, Parent S Run in Batch: AMN180223QC, Run Date: 02/	23/2018 16:47, F Flags Sample ID: S8778 23/2018 12:33, F Flags Sample ID: S8781 23/2018 16:03, F	12.03 Prep Date: (98 33.01 Prep Date: (RPD 3.8 2.01 Prep Date: (02/23/2018 LCL 80 02/23/2018 RPD CL 20	9, Matrix: Solid, Diluti UCL 120 8, Matrix: Liquid, Dilu	ition: 1
Ammonia-N (Undistilled) Matrix Spike (MS) Lab Sample ID: AMN180223QC.MS2, Parent 3 Run in Batch: AMN180223QC, Run Date: 02/ Analyte Ammonia-N (Undistilled) Duplicate (DUP) Lab Sample ID: AMN180223QC, Run Date: 02/ Analyte Ammonia-N (Undistilled) Duplicate (DUP) Lab Sample ID: AMN180223QC, Run Date: 02/ Analyte Ammonia-N (Undistilled) Duplicate (DUP) Lab Sample ID: AMN180223QC.DP2, Parent S Run in Batch: AMN180223QC, Run Date: 02/ Analyte	23/2018 16:47, F Flags Sample ID: S8778 23/2018 12:33, F Flags Sample ID: S8781	12.03 Prep Date: (% Rec 98 33.01 Prep Date: (RPD 3.8 2.01 Prep Date: (RPD	02/23/2018 LCL 80 02/23/2018 20 02/23/2018 RPD CL	9, Matrix: Solid, Diluti UCL 120 8, Matrix: Liquid, Dilu	ition: 1
Ammonia-N (Undistilled) Matrix Spike (MS) Lab Sample ID: AMN180223QC.MS2, Parent 3 Run in Batch: AMN180223QC, Run Date: 02/ Analyte Ammonia-N (Undistilled) Duplicate (DUP) Lab Sample ID: AMN180223QC, Run Date: 02/ Analyte Ammonia-N (Undistilled) Duplicate (DUP) Lab Sample ID: AMN180223QC, Run Date: 02/ Analyte Ammonia-N (Undistilled) Duplicate (DUP) Lab Sample ID: AMN180223QC.DP2, Parent S Run in Batch: AMN180223QC, Run Date: 02/	23/2018 16:47, F Flags Sample ID: S8778 23/2018 12:33, F Flags Sample ID: S8781 23/2018 16:03, F	12.03 Prep Date: (98 33.01 Prep Date: (RPD 3.8 2.01 Prep Date: (02/23/2018 LCL 80 02/23/2018 RPD CL 20	9, Matrix: Solid, Diluti UCL 120 8, Matrix: Liquid, Dilu	ition: 1

Inorganics, Prep Batch ID: OGHEX180227W01

Surrogates: No, QC Types: BLK/LCS

Analyte	Flags	Conc	RDL	Units
Oil & Grease n-Hexane Extract.		ND	1	mg/L
Laboratory Control Sample (LCS)				
Lab Sample ID: OGHEX180227W01.LCS1				
Run in Batch: OGHEX180227W01, Run Date: 02/	/27/2018 12:0	0, Prep Da	te: 02/27/2	2018, Matrix: Liquid, Dilution: 1
Analyte	Flags	% Rec	LCL	UCL
Analyte Oil & Grease n-Hexane Extract.	Flags	<u>% Rec</u> 98	LCL 78	UCL 114
	Flags		-	
Oil & Grease n-Hexane Extract.	Flags		-	
Oil & Grease n-Hexane Extract. Laboratory Control Sample (LCS)		98	78	114
Oil & Grease n-Hexane Extract. Laboratory Control Sample (LCS) Lab Sample ID: OGHEX180227W01.LCS2		98	78	114

Inorganics, Prep Batch ID: PHS180227QC

Surrogates: No, QC Types: BLK/LCS/MS/DUP

Blank (BLK)					
Lab Sample ID: PHS180227QC	LRB1				
Run in Batch: PHS180227QC,	Run Date: 02/27/2018 12:38	, Prep Date	: 02/27/2018,	Matrix: Liquid,	Dilution: 1
Analyte	Flag	s Conc	RDL	Units	
Total Phosphorus		ND	0.01	mg/L	
Blank (BLK)					
Lab Sample ID: PHS180227QC.	LRB2				
Run in Batch: PHS180227QC,	Run Date: 02/27/2018 12:45	, Prep Date	: 02/27/2018,	Matrix: Liquid,	Dilution: 1
Analyte	Flag	s Conc	RDL	Units	
Total Phosphorus		ND	0.01	mg/L	
Laboratory Control Sample	(LCS)				
Lab Sample ID: PHS180227QC.	LCS1				
Run in Batch: PHS180227QC,	Run Date: 02/27/2018 12:51	, Prep Date	: 02/27/2018,	Matrix: Liquid,	Dilution: 1
Analyte	Flag	s % Rec	: LCL	UCL	
Total Phosphorus		99	90	110	
Matrix Spike (MS)					
Lab Sample ID: PHS180227QC	.MS1, Parent Sample ID: S8	7800.01			
Run in Batch: PHS180227QC,	Run Date: 02/27/2018 15:59	, Prep Date	: 02/27/2018,	Matrix: Liquid,	Dilution: 1
Analyte	Flag	s % Rec	: LCL	UCL	
Total Phosphorus		93	80	120	
Duplicate (DUP)					
Lab Sample ID: PHS180227QC	.DP1, Parent Sample ID: S87	7810.01			
Run in Batch: PHS180227QC,	Run Date: 02/27/2018 15:56	, Prep Date	: 02/27/2018,	Matrix: Liquid,	Dilution: 1
Analyte	Flag		RPD CL		
Total Phosphorus		12.2	20		

Inorganics, Prep Batch ID: TSS180221

Surrogates: No, QC Types: BLK/LCS/DUP

Analyte	Flags	Conc	RDL	Units	
Total Suspended Solids		ND	3	mg/L	
Laboratory Control Sample (LCS)					
• • • • • •					
Lab Sample ID: TSS180221.LCS1					
Run in Batch: TSS180221, Run Date: 02/21/2018	8 18:55, Prep	Date: 02/2	1/2018, Ma	atrix: Liquid,	Dilution: 1
	<u>8 18:55, Prep</u> Fla <u>g</u> s	Date: 02/2 [.] % Rec	<u>1/2018, Ma</u> LCL	atrix: Liquid, UCL	Dilution: 1
Run in Batch: TSS180221, Run Date: 02/21/2018	· · ·			• • •	Dilution: 1
Run in Batch: TSS180221, Run Date: 02/21/2018 Analyte	· · ·	% Rec	LCL	UCL	Dilution: 1
Run in Batch: TSS180221, Run Date: 02/21/2018 Analyte Total Suspended Solids	Flags	% Rec 100.6	LCL	UCL	Dilution: 1

Analyte	Flags	RPD	RPD CL
Total Suspended Solids		1.3	5

Metals, Prep Batch ID: HGD-022218-1

Surrogates: No, QC Types: LCS/BLK/MS/MSD

Laboratory Control Sample (LCS)

Laboratory Control Sample (LCS)					
Lab Sample ID: HG2-18-0222A.018.LC	S				
Run in Batch: HG2-18-0222A, Run Da	te: 02/22/2018 13:42, P	rep Date: 0	2/22/2018	, Matrix: Liqui	d, Dilution: 1
Analyte	Flags	% Rec	LCL	UCL	
Mercury		99	85	115	
Blank (BLK)					
Lab Sample ID: HG2-18-0222A.019.LR	В				
Run in Batch: HG2-18-0222A, Run Dat	te: 02/22/2018 13:44, P	rep Date: 0	2/22/2018	, Matrix: Liqui	d, Dilution: 1
Analyte	Flags	Conc	RDL	Units	
Mercury		ND	0.03	ug/L	
Matrix Spike (MS)					
Lab Sample ID: HG2-18-0222A.042.MS	, Parent Sample ID: S8	7780.01			
Run in Batch: HG2-18-0222A, Run Da	te: 02/22/2018 14:29, P	rep Date: 0	2/22/2018	, Matrix: Liqui	d, Dilution: 1
Analyte	Flags	% Rec	LCL	UCL	
Mercury		113	75	125	
Matrix Spike (MS)					
Lab Sample ID: HG2-18-0222A.046.MS	, Parent Sample ID: S8	7780.01			
Run in Batch: HG2-18-0222A, Run Da	te: 02/22/2018 14:43, P	rep Date: 0	2/22/2018	, Matrix: Liqui	d, Dilution: 1
Analyte	Flags	% Rec	LCL	UCL	
Mercury		99	75	125	
Matrix Spike Duplicate (MSD)					
Lab Sample ID: HG2-18-0222A.043.MS	D. Parent Sample ID: H	IG2-18-0222	2A.042.MS	3	
Run in Batch: HG2-18-0222A, Run Da	, 1				d. Dilution: 1

Trainin Baton: The Te beer t, Train Bato. be/ee/ee to	11.01, 1	10p Date: 01	L/LL/L010;	maank. Eigala;	Bliadoli.	<u>.</u>
Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Mercury	*	78	75	125	37	20

Metals, Prep Batch ID: MTD-022218-6

Surrogates: No, QC Types: LCS/BLK/MS/MSD/DUP

Laboratory Control Sample (LCS)

Lab Sample ID: MT4-18-0222A.020.LCS

Run in Batch: MT4-18-0222A, Run Date: 02/22/2018 10:58, Prep Date: 02/22/2018, Matrix: Liquid, Dilution: 1
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Analyte	Flags	% Rec	LCL	UCL
Arsenic		100	85	115
Chromium		97	85	115
Copper		101	85	115
Nickel		96	85	115
Zinc		100	85	115

Blank (BLK)

Lab Sample ID: MT4-18-0222A.021.LRB

Run in Batch: MT4-18-0222A, Run Date: 02/22/2018 11:00, Prep Date: 02/22/2018, Matrix: Liquid, Dilution: 1

Matrix Spike (MS)

Lab Sample ID: MT4-18-0222A.033.MS, Parent Sample ID: S87771.05

Run in Batch: MT4-18-0222A, Run Date: 02/22/2018 11:17, Prep Date: 02/22/2018, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL	
Arsenic		107	75	125	
Chromium		104	75	125	
Copper		100	75	125	
Nickel		101	75	125	
Zinc		102	75	125	

Matrix Spike (MS)

Lab Sample ID: MT4-18-0222A.041.MS, Parent Sample ID: S87780.01

Run in Batch: MT4-18-0222A, Run Date: 02/22/2018 11:31, Prep Date: 02/22/2018, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL
Arsenic		101	75	125
Chromium		101	75	125
Copper		97	75	125
Nickel		102	75	125
Zinc		96	75	125

Matrix Spike Duplicate (MSD)

Lab Sample ID: MT4-18-0222A.034.MSD, Parent Sample ID: MT4-18-0222A.033.MS

18 11:18, P	rep Date: 02	2/22/2018,	Matrix: Liquid,	Dilution:	5
Flags	% Rec	LCL	UCL	RPD	RPD CL
	103	75	125	3	20
	102	75	125	2	20
	99	75	125	1	20
	103	75	125	2	20
	98	75	125	3	20
		Flags % Rec 103 102 99 103	Flags % Rec LCL 103 75 102 75 99 75 103 75	Flags % Rec LCL UCL 103 75 125 102 75 125 99 75 125 103 75 125 102 75 125 103 75 125	Flags % Rec LCL UCL RPD 103 75 125 3 102 75 125 2 99 75 125 1 103 75 125 2 99 75 125 2 103 75 125 2

Metals, Prep Batch ID: MTD-022218-6 (continued)

Surrogates: No, QC Types: LCS/BLK/MS/MSD/DUP

Duplicate (DUP)

Lab Sample ID: MT4-18-0222A.040.DP, Parent Sample ID: S87780.01

Run in Batch: MT4-18-0222A, Run Date: 02/22/2018 11:29, Prep Date: 02/22/2018, Matrix: Liquid, Dilution: 5

Analyte	Flags	RPD	RPD CL
Arsenic		0	20
Chromium		2	20
Copper		5	20
Nickel		5	20
Zinc		6	20

Other / Misc., Prep Batch ID: ACN180223-W1

Surrogates: No, QC Types: BLK/LCS/MS/MSD/DUP

Blank (BLK)						
Lab Sample ID: ACN180223-W1.LRB1						
Run in Batch: ACN180223-W1, Run Date: 02/23/20	018 10:34,	Prep Date:	02/23/2018,	Matrix: Liquid	Dilution	: 1
Analyte	Flags	Conc	RDL	Units		
Available Cyanide		ND	0.002	mg/L		
Blank (BLK)						
Lab Sample ID: ACN180223-W1.LRB2						
Run in Batch: ACN180223-W1, Run Date: 02/23/20	018 10:54,	Prep Date:	02/23/2018,	Matrix: Liquid	Dilution	: 1
Analyte	Flags	Conc	RDL	Units		
Available Cyanide		ND	0.002	mg/L		
Laboratory Control Sample (LCS)						
Lab Sample ID: ACN180223-W1.LCS1						
Run in Batch: ACN180223-W1, Run Date: 02/23/20	018 10:38,	Prep Date:	02/23/2018,	Matrix: Liquid,	Dilution	: 1
Analyte	Flags	% Rec	LCL	UCL		
Available Cyanide		98	88	109		
Matrix Spike (MS)						
Matrix Spike (MS) Lab Sample ID: ACN180223-W1.MS1, Parent Sam	ple ID: S877	741.01				
	-		02/23/2018,	Matrix: Liquid,	Dilution	: 1
Lab Sample ID: ACN180223-W1.MS1, Parent Sam Run in Batch: ACN180223-W1, Run Date: 02/23/20	-		<u>02/23/2018,</u> LCL	Matrix: Liquid, UCL	Dilution	: 1
Lab Sample ID: ACN180223-W1.MS1, Parent Sam	018 10:46,	Prep Date:			Dilution	: 1
Lab Sample ID: ACN180223-W1.MS1, Parent Sam Run in Batch: ACN180223-W1, Run Date: 02/23/20 Analyte	018 10:46,	Prep Date: % Rec	LCL	UCL	<u>Dilution</u>	: 1
Lab Sample ID: ACN180223-W1.MS1, Parent Sam Run in Batch: ACN180223-W1, Run Date: 02/23/20 Analyte Available Cyanide	0 <u>18 10:46,</u> Flags	Prep Date: % Rec 98	LCL 82	UCL	, Dilution	: 1
Lab Sample ID: ACN180223-W1.MS1, Parent Sam Run in Batch: ACN180223-W1, Run Date: 02/23/20 Analyte Available Cyanide Matrix Spike Duplicate (MSD)	0 <u>18 10:46,</u> Flags mple ID: AC	Prep Date: % Rec 98	LCL 82 1.MS1	UCL 130		
Lab Sample ID: ACN180223-W1.MS1, Parent Sam Run in Batch: ACN180223-W1, Run Date: 02/23/20 Analyte Available Cyanide Matrix Spike Duplicate (MSD) Lab Sample ID: ACN180223-W1.MSD1, Parent Sar	0 <u>18 10:46,</u> Flags mple ID: AC	Prep Date: % Rec 98	LCL 82 1.MS1	UCL 130		
Lab Sample ID: ACN180223-W1.MS1, Parent Sam Run in Batch: ACN180223-W1, Run Date: 02/23/20 Analyte Available Cyanide Matrix Spike Duplicate (MSD) Lab Sample ID: ACN180223-W1.MSD1, Parent Sar Run in Batch: ACN180223-W1, Run Date: 02/23/20	018 10:46, Flags mple ID: AC 018 10:48,	Prep Date: % Rec 98 N180223-W Prep Date:	LCL 82 1.MS1 02/23/2018,	UCL 130 Matrix: Liquid	Dilution	: 1
Lab Sample ID: ACN180223-W1.MS1, Parent Sam Run in Batch: ACN180223-W1, Run Date: 02/23/20 Analyte Available Cyanide Matrix Spike Duplicate (MSD) Lab Sample ID: ACN180223-W1.MSD1, Parent Sar Run in Batch: ACN180223-W1, Run Date: 02/23/20 Analyte	018 10:46, Flags mple ID: AC 018 10:48,	Prep Date: % Rec 98 N180223-W Prep Date: % Rec	LCL 82 1.MS1 02/23/2018, LCL	UCL 130 Matrix: Liquid, UCL	Dilution	: 1 RPD CL
Lab Sample ID: ACN180223-W1.MS1, Parent Sam Run in Batch: ACN180223-W1, Run Date: 02/23/20 Analyte Available Cyanide Matrix Spike Duplicate (MSD) Lab Sample ID: ACN180223-W1.MSD1, Parent Sar Run in Batch: ACN180223-W1, Run Date: 02/23/20 Analyte Available Cyanide	018 10:46, Flags mple ID: AC 018 10:48, Flags	Prep Date: % Rec 98 N180223-W Prep Date: % Rec 100	LCL 82 1.MS1 02/23/2018, LCL	UCL 130 Matrix: Liquid, UCL	Dilution	: 1 RPD CL
Lab Sample ID: ACN180223-W1.MS1, Parent Sam Run in Batch: ACN180223-W1, Run Date: 02/23/20 Analyte Available Cyanide Matrix Spike Duplicate (MSD) Lab Sample ID: ACN180223-W1.MSD1, Parent Sar Run in Batch: ACN180223-W1, Run Date: 02/23/20 Analyte Available Cyanide Duplicate (DUP)	018 10:46, Flags mple ID: AC 018 10:48, Flags	Prep Date: (% Rec 98 (N180223-W) Prep Date: (% Rec 100	LCL 82 1.MS1 02/23/2018, LCL 82	UCL 130 Matrix: Liquid, UCL 130	Dilution RPD 2	: 1 RPD CL 15
Lab Sample ID: ACN180223-W1.MS1, Parent Sam Run in Batch: ACN180223-W1, Run Date: 02/23/20 Analyte Available Cyanide Matrix Spike Duplicate (MSD) Lab Sample ID: ACN180223-W1.MSD1, Parent Sar Run in Batch: ACN180223-W1, Run Date: 02/23/20 Analyte Available Cyanide Duplicate (DUP) Lab Sample ID: ACN180223-W1.DP1, Parent Samp	018 10:46, Flags mple ID: AC 018 10:48, Flags	Prep Date: (% Rec 98 (N180223-W) Prep Date: (% Rec 100	LCL 82 1.MS1 02/23/2018, LCL 82	UCL 130 Matrix: Liquid, UCL 130	Dilution RPD 2	: 1 RPD CL 15

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