



July 22, 2011

Mr. Tom Hutchings

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

SUBJECT: DISCHARGE PERMIT SUBMITTAL- APRIL 2011 THROUGH JUNE 2011

Permit No.: 6-08-04-04-GML1

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 April 1, 2011 to June 30, 2011 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 April 19, 2011 and June 15, 2011
- 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 248-477-5701 if you have any questions.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

Clifford Yantz
Technical Associate

Enclosures

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: April 1, 2011 through June 30, 2011

Average Volume of Daily Discharge (during reporting period): 3,008 gallons per day.
(3 days)

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

Title of Authorized Representative: Technical Associate, O'Brien & Gere Engineers, Inc.
As agent for the RACER Trust

Signature of Authorized Representative: *Clifford Scott Yantz (as agent for the RACER Trust)*

Date Signed by Authorized Representative: 7/22/11

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
Coldwater Road Landfill
City of Flint Sewer User Self-Monitoring Report
Second Quarter - 2011
6-08-04-04-GML1

City of Flint Sewer User Self-Monitoring Report Coldwater Road Facility												
Analytical Parameter	Ammonia-N	QL*	BOD	QL*	HEM	QL*	pH	QL*	TP	QL*	TSS	QL*
Units	mg/L		mg/L		mg/L		SU		mg/L		mg/L	
Sampling Frequency	Sample one (1) batch of accumulated wastewater prior to discharge, once every three (3) months.		Sample one (1) batch of accumulated wastewater prior to discharge, once every three (3) months.		Sample one (1) batch of accumulated wastewater prior to discharge, once every three (3) months.		Sample one (1) batch of accumulated wastewater prior to discharge, once every three (3) months.		Sample one (1) batch of accumulated wastewater prior to discharge, once every three (3) months.		Sample one (1) batch of accumulated wastewater prior to discharge, once every three (3) months.	
Daily Maximum Limit	37		427		100		N/A		7		305	
Maximum Limit	N/A		N/A		N/A		10.5		N/A		N/A	
Minimum Limit	N/A		N/A		N/A		6.0		N/A		N/A	
Monthly Average Limit	N/A		N/A		N/A		N/A		N/A		N/A	
Test Result	0.17	0.005	1	1	1	1	7.69	0.01	0.06	0.01	20	1
Test Method	4500-NH3 D		10360		1664A		4500-H+ B		4500-PE		2540 D	
Test Date	20-Apr-11		20-Apr-11		25-Apr-11		19-Apr-11		20-Apr-11		26-Apr-11	
Sample Date	19-Apr-11		19-Apr-11		19-Apr-11		19-Apr-11		19-Apr-11		19-Apr-11	
Sample Type	wastewater		wastewater		wastewater		wastewater		wastewater		wastewater	
Test Result	0.22	0.005	1	1	0	1	7.44	0.01	0.04	0.01	61	1
Test Method	4500-NH3 D		10360		1664A		4500-H+ B		4500-PE		2540 D	
Test Date	23-Jun-11		16-Jun-11		23-Jun-11		15-Jun-11		22-Jun-11		20-Jun-11	
Sample Date	15-Jun-11		15-Jun-11		15-Jun-11		15-Jun-11		15-Jun-11		15-Jun-11	
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.	0.195		1.000		0.500		7.565		0.050		40.500	
Monthly Average Conc.	N/A		N/A		N/A		N/A		N/A		N/A	
No. of Samples	2		2		2		2		2		2	
Number of Limit Exceedances	0		0		0		0		0		0	

Notes: * Quantification Level: The lowest level at which the test result is reported by the analytical laboratory as a quantitative numerical value, below which test results are reported as "less than" (<) that value

E1 = Limit Exceedance; E2 = Sample Expired

Table 1
Coldwater Road Landfill
City of Flint Sewer User Self-Monitoring Report
Second Quarter - 2011
6-08-04-04-GML1

City of Flint Sewer User Self-Monitoring Report Coldwater Road Facility														
Analytical Parameter	Arsenic	QL*	Chromium	QL*	Copper	QL*	Mercury	QL*	Nickel	QL*	Zinc	QL*	Amenable Cyanide	QL*
Units	mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L	
Sampling Frequency	Sample one (1) batch of accumulated wastewater prior to discharge, once every three (3) months.		Sample one (1) batch of accumulated wastewater prior to discharge, once every three (3) months.		Sample one (1) batch of accumulated wastewater prior to discharge, once every three (3) months.		Sample one (1) batch of accumulated wastewater prior to discharge, once every three (3) months.		Sample one (1) batch of accumulated wastewater prior to discharge, once every three (3) months.		Sample one (1) batch of accumulated wastewater prior to discharge, once every three (3) months.		Sample one (1) batch of accumulated wastewater prior to discharge, once every three (3) months.	
Daily Maximum Limit	0.048		0.319		3.12		0.000012		0.795		0.445		N/A	
Maximum Limit	N/A		N/A		N/A		N/A		N/A		N/A		0.087	
Minimum Limit	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Monthly Average Limit	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
Test Result	0.013	0.002	0.100	0.005	1.12	0.004	0.000	0.00020	0.176	0.005	0.045	0.005	0.010	0.005
Test Method	200.8		200.8		200.8		245.1		200.8		200.8		335.4/4500-CN-G	
Test Date	25-Apr-11		25-Apr-11		25-Apr-11		21-Apr-11		25-Apr-11		25-Apr-11		28-Apr-11	
Sample Date	19-Apr-11		19-Apr-11		19-Apr-11		19-Apr-11		19-Apr-11		19-Apr-11		19-Apr-11	
Sample Type	wastewater		wastewater		wastewater		wastewater		wastewater		wastewater		wastewater	
Test Result	0.004	0.002	0.068	0.005	0.399	0.004	0.000	0.00020	0.053	0.005	0.042	0.005	0.000	0.005
Test Method	200.8		200.8		200.8		245.1		200.8		200.8		335.4/4500-CN-G	
Test Date	17-Jun-11		17-Jun-11		17-Jun-11		16-Jun-11		17-Jun-11		17-Jun-11		20-Jun-11	
Sample Date	15-Jun-11		15-Jun-11		15-Jun-11		15-Jun-11		15-Jun-11		15-Jun-11		15-Jun-11	
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.	0.009		0.084		0.760		0.000		0.115		0.044		0.005	
Monthly Average Conc.	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
No. of Samples	2		2		2		2		2		2		2	
Number of Limit Exceedances	0		0		0		0		0		0		0	

Notes: * **Quantification Level:** The lowest level at which the test result is reported by the analytical laboratory as a quantitative numerical value, below which test results are reported as "less than" (<) that value.

E1 = Limit Exceedance; **E2** = Sample Expired

**Table 2
Coldwater Road Landfill
Daily Discharge Summary Table
Second Quarter - 2011
6-08-04-04-GML1**

Date	Beginning Flow Meter Reading	End Flow Meter Reading	Gallons Discharged	Begin Time of Discharge	End Time of Discharge	Average Flow (gal/min)	Temperature at Discharge		pH
							(C)	(F)	
5/18/2011	441,474	446,324	4,850	9:00	13:20	18.7	15.8	60.4	7.84
6/29/2011	446,324	448,671	2,347	12:00	14:30	15.6	21.9	71.4	8.75
6/30/2011	448,671	450,499	1,828	9:00	10:15	24.4	21.2	70.1	7.55

Total Discharge Volume: 9,025
Average Volume per Discharge: 3,008

NOTES :



Analytical Laboratory Report

Report ID: S48453.01(01)
Generated on 04/29/2011

Report to

Attention: Clifford Yantz
O'Brien & Gere Engineers, Inc.
37000 Grand River Ave.
Suite 260
Farmington, MI 48335

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

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): S48453.01
Project: Coldwater Rd. Landfill
Collected Date: 04/19/2011
Submitted Date/Time: 04/19/2011 14:50
Sampled by: Todd Krone
P.O. #: 11018537

Report Notes

Results relate only to items tested as 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 RL.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (1 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S48453.01	02-PRCC-11	Wastewater	04/19/2011 13:00



Analytical Laboratory Report

Lab Sample ID: S48453.01
 Sample Tag: 02-PRCC-11
 Collected Date/Time: 04/19/2011 13:00
 Matrix: Wastewater
 COC Reference: 59806

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	32 oz Glass	HCL	Yes	4.1	IR
1	125ml Plastic	NaOH	Yes	4.1	IR
1	125ml Plastic	HNO3	Yes	4.1	IR
1	250ml Plastic	H2SO4	Yes	4.1	IR
1	1L Amber	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Mercury Digestion	Completed			7471A	04/21/11 12:00	JRT		
Metal Digestion	Completed			3015A	04/25/11 01:00	SLR		

Inorganics

Amenable Cyanide	0.010	mg/L	0.005	335.4/4500-CN-G	04/28/11 14:16	JDP	57-12-5AM	
Ammonia-N	0.17	mg/L	0.02	4500-NH3 D	04/20/11 17:13	MJC	7664-41-7	
Field pH	7.69	STD Units	0.01	4500-H+ B	04/19/11 13:00	OBG		
Oil & Grease n-Hexane Extract.	1	mg/L	1	1664A	04/25/11 17:00	DJS		
TBOD5 - Set	Completed	mg/L		10360	04/20/11 16:30	DJS		
TBOD5	Not detected	mg/L	1	10360	04/25/11 16:45	DJS		
Total Phosphorus	0.06	mg/L	0.01	4500-PE	04/20/11 17:26	MJC	7723-14-0	
Total Suspended Solids	20	mg/L	1	2540 D	04/26/11 15:30	DJS		

Metals

Arsenic	0.013	mg/L	0.002	200.8	04/25/11 16:49	SLS	7440-38-2	
Chromium	0.100	mg/L	0.005	200.8	04/25/11 16:49	SLS	7440-47-3	
Copper	1.12	mg/L	0.004	200.8	04/25/11 16:49	SLS	7440-50-8	
Mercury	Not detected	mg/L	0.0002	245.1	04/21/11 15:21	JRT	7439-97-6	
Nickel	0.176	mg/L	0.005	200.8	04/25/11 16:49	SLS	7440-02-0	
Zinc	0.045	mg/L	0.005	200.8	04/25/11 16:49	SLS	7440-66-6	



Quality Control Report

Report ID: QC-S48453.01(01)
Generated on 05/02/2011

Report to

Attention: Clifford Yantz
O'Brien & Gere Engineers, Inc.
37000 Grand River Ave.
Suite 260
Farmington, MI 48335

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): S48453.01
Project: Coldwater Rd. Landfill
Submitted Date/Time: 04/19/2011 14:50
Sampled by: Todd Krone
P.O. #: 11018537

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

Report Notes

Results relate only to items tested as 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 RDL.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

QC Report - Analysis Summary

Lab Sample ID: S48453.01

Sample Tag: 02-PRCC-11

Collected Date/Time: 04/19/2011 13:00

Matrix: Wastewater

COC Reference: 59806

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
<i>Inorganics</i>						
Amenable Cyanide	335.4/4500-CN-G	04/28/11 14:16	CN110428-W1	CN110428-W1	No	BLK/LCS/MS/MSD/DUP
Ammonia-N	4500-NH3 D	04/20/11 17:13	AMN110420	AMN110420	No	BLK/LCS/MS/DUP
Oil & Grease n-Hexane Extract.	1664A	04/25/11 17:00	OGHEX110425W01	OGHEX110425W01	No	BLK/LCS
Total Phosphorus	4500-PE	04/20/11 17:26	PHS110420	PHS110420	No	BLK/LCS/MS/DUP
Total Suspended Solids	2540 D	04/26/11 15:30	TSS110426	TSS110426	No	BLK/LCS/DUP
<i>Metals</i>						
Arsenic	200.8	04/25/11 16:49	MT-11-0425B	MTD-042511-5	No	LCS/BLK/MS/MSD
Chromium	200.8	04/25/11 16:49	MT-11-0425B	MTD-042511-5	No	LCS/BLK/MS/MSD
Copper	200.8	04/25/11 16:49	MT-11-0425B	MTD-042511-5	No	LCS/BLK/MS/MSD
Mercury	245.1	04/21/11 15:21	HG2-11-0421A	HGD-042111-1	No	LCS/BLK/MS/MSD
Nickel	200.8	04/25/11 16:49	MT-11-0425B	MTD-042511-5	No	LCS/BLK/MS/MSD
Zinc	200.8	04/25/11 16:49	MT-11-0425B	MTD-042511-5	No	LCS/BLK/MS/MSD

QC Report - Prep Batch Summary

Inorganics, Prep Batch ID: AMN110420

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

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S48453.01	Ammonia-N	4500-NH3 D	04/20/11 17:13	AMN110420

Inorganics, Prep Batch ID: CN110428-W1

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

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S48453.01	Amenable Cyanide	335.4/4500-CN-G	04/28/11 14:16	CN110428-W1

Inorganics, Prep Batch ID: OGHEX110425W01

Surrogates: No, QC Types: BLK/LCS

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S48453.01	Oil & Grease n-Hexane Extract.	1664A	04/25/11 17:00	OGHEX110425W01

Inorganics, Prep Batch ID: PHS110420

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

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S48453.01	Total Phosphorus	4500-PE	04/20/11 17:26	PHS110420

Inorganics, Prep Batch ID: TSS110426

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

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S48453.01	Total Suspended Solids	2540 D	04/26/11 15:30	TSS110426

Metals, Prep Batch ID: HGD-042111-1

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

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S48453.01	Mercury	245.1	04/21/11 15:21	HG2-11-0421A

Metals, Prep Batch ID: MTD-042511-5

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

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S48453.01	Arsenic	200.8	04/25/11 16:49	MT-11-0425B
S48453.01	Chromium	200.8	04/25/11 16:49	MT-11-0425B
S48453.01	Copper	200.8	04/25/11 16:49	MT-11-0425B
S48453.01	Nickel	200.8	04/25/11 16:49	MT-11-0425B
S48453.01	Zinc	200.8	04/25/11 16:49	MT-11-0425B

QC Report - Batch QC Results

Inorganics, Prep Batch ID: AMN110420

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

Blank (BLK)

Lab Sample ID: AMN110420.LRB1

Run in Batch: AMN110420, Run Date: 04/20/2011 23:05, Prep Date: 04/20/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Ammonia-N		ND	0.02	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: AMN110420.LCS1

Run in Batch: AMN110420, Run Date: 04/20/2011 11:19, Prep Date: 04/20/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Ammonia-N		104	90	110

Matrix Spike (MS)

Lab Sample ID: AMN110420.MS1, Parent Sample ID: S48449.01

Run in Batch: AMN110420, Run Date: 04/20/2011 11:55, Prep Date: 04/20/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Ammonia-N		100	80	120

Duplicate (DUP)

Lab Sample ID: AMN110420.DP1, Parent Sample ID: S48396.05

Run in Batch: AMN110420, Run Date: 04/20/2011 14:33, Prep Date: 04/20/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	RPD	RPD CL
Ammonia-N		2.9	20

QC Report - Batch QC Results

Inorganics, Prep Batch ID: CN110428-W1

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

Blank (BLK)

Lab Sample ID: CN110428-W1.LRB1

Run in Batch: CN110428-W1, Run Date: 04/28/2011 14:00, Prep Date: 04/28/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Amenable Cyanide		ND	0.005	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: CN110428-W1.LCS1

Run in Batch: CN110428-W1, Run Date: 04/28/2011 14:06, Prep Date: 04/28/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Amenable Cyanide		102	90	110

Matrix Spike (MS)

Lab Sample ID: CN110428-W1.MS1, Parent Sample ID: S48450.01

Run in Batch: CN110428-W1, Run Date: 04/28/2011 14:02, Prep Date: 04/28/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Amenable Cyanide		88	80	120

Matrix Spike Duplicate (MSD)

Lab Sample ID: CN110428-W1.MSD1, Parent Sample ID: CN110428-W1.MS1

Run in Batch: CN110428-W1, Run Date: 04/28/2011 14:04, Prep Date: 04/28/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Amenable Cyanide		91	80	120	2	15

Duplicate (DUP)

Lab Sample ID: CN110428-W1.DP1, Parent Sample ID: S48450.01

Run in Batch: CN110428-W1, Run Date: 04/28/2011 14:10, Prep Date: 04/28/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	RPD	RPD CL
Amenable Cyanide		2	15

Duplicate (DUP)

Lab Sample ID: CN110428-W1.DP2, Parent Sample ID: S48450.01

Run in Batch: CN110428-W1, Run Date: 04/28/2011 17:06, Prep Date: 04/28/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	RPD	RPD CL
Amenable Cyanide		<1	15

QC Report - Batch QC Results

Inorganics, Prep Batch ID: OGHEX110425W01

Surrogates: No, QC Types: BLK/LCS

Blank (BLK)

Lab Sample ID: OGHEX110425W01.LRB1

Run in Batch: OGHEX110425W01, Run Date: 04/25/2011 15:43, Prep Date: 04/25/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Oil & Grease n-Hexane Extract.		ND	1	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: OGHEX110425W01.LCS1

Run in Batch: OGHEX110425W01, Run Date: 04/25/2011 15:43, Prep Date: 04/25/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Oil & Grease n-Hexane Extract.		86	78	114

Laboratory Control Sample (LCS)

Lab Sample ID: OGHEX110425W01.LCS2

Run in Batch: OGHEX110425W01, Run Date: 04/25/2011 15:43, Prep Date: 04/25/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Oil & Grease n-Hexane Extract.		88	78	114

QC Report - Batch QC Results

Inorganics, Prep Batch ID: PHS110420

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

Blank (BLK)

Lab Sample ID: PHS110420.LRB1

Run in Batch: PHS110420, Run Date: 04/20/2011 13:26, Prep Date: 04/20/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Total Phosphorus		ND	0.01	mg/L

Blank (BLK)

Lab Sample ID: PHS110420.LRB2

Run in Batch: PHS110420, Run Date: 04/20/2011 17:34, Prep Date: 04/20/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Total Phosphorus		ND	0.01	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: PHS110420.LCS1

Run in Batch: PHS110420, Run Date: 04/20/2011 13:37, Prep Date: 04/20/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Total Phosphorus		94	90	110

Matrix Spike (MS)

Lab Sample ID: PHS110420.MS1, Parent Sample ID: S48437.02

Run in Batch: PHS110420, Run Date: 04/20/2011 17:31, Prep Date: 04/20/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Total Phosphorus		99	80	120

Duplicate (DUP)

Lab Sample ID: PHS110420.DP1, Parent Sample ID: S48431.01

Run in Batch: PHS110420, Run Date: 04/20/2011 17:29, Prep Date: 04/20/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	RPD	RPD CL
Total Phosphorus		6.5	20

QC Report - Batch QC Results

Inorganics, Prep Batch ID: TSS110426

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

Blank (BLK)

Lab Sample ID: TSS110426.LRB1

Run in Batch: TSS110426, Run Date: 04/26/2011 15:30, Prep Date: 04/26/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Total Suspended Solids		ND	1	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: TSS110426.LCS1

Run in Batch: TSS110426, Run Date: 04/26/2011 15:30, Prep Date: 04/26/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Total Suspended Solids		93	90	110

Duplicate (DUP)

Lab Sample ID: TSS110426.DP1, Parent Sample ID: S48481.02

Run in Batch: TSS110426, Run Date: 04/26/2011 15:30, Prep Date: 04/26/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	RPD	RPD CL
Total Suspended Solids		3	15

QC Report - Batch QC Results

Metals, Prep Batch ID: HGD-042111-1

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

Laboratory Control Sample (LCS)

Lab Sample ID: HG2-11-0421A.015.LCS

Run in Batch: HG2-11-0421A, Run Date: 04/21/2011 14:40, Prep Date: 04/21/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Mercury		95	85	115

Blank (BLK)

Lab Sample ID: HG2-11-0421A.016.LRB

Run in Batch: HG2-11-0421A, Run Date: 04/21/2011 14:42, Prep Date: 04/21/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Mercury		ND	0.02	ug/L

Matrix Spike (MS)

Lab Sample ID: HG2-11-0421A.027.MS, Parent Sample ID: S48372.01

Run in Batch: HG2-11-0421A, Run Date: 04/21/2011 15:06, Prep Date: 04/21/2011, Matrix: Liquid, Dilution: 2

Analyte	Flags	% Rec	LCL	UCL
Mercury		92	80	120

Matrix Spike (MS)

Lab Sample ID: HG2-11-0421A.035.MS, Parent Sample ID: S48448.01

Run in Batch: HG2-11-0421A, Run Date: 04/21/2011 15:25, Prep Date: 04/21/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Mercury		94	80	120

Matrix Spike Duplicate (MSD)

Lab Sample ID: HG2-11-0421A.028.MSD, Parent Sample ID: HG2-11-0421A.027.MS

Run in Batch: HG2-11-0421A, Run Date: 04/21/2011 15:09, Prep Date: 04/21/2011, Matrix: Liquid, Dilution: 2

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Mercury		92	80	120	0	20

Matrix Spike Duplicate (MSD)

Lab Sample ID: HG2-11-0421A.036.MSD, Parent Sample ID: HG2-11-0421A.035.MS

Run in Batch: HG2-11-0421A, Run Date: 04/21/2011 15:27, Prep Date: 04/21/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Mercury		94	80	120	0	20

QC Report - Batch QC Results

Metals, Prep Batch ID: MTD-042511-5

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

Laboratory Control Sample (LCS)

Lab Sample ID: MT-11-0425B.010.LCS

Run in Batch: MT-11-0425B, Run Date: 04/25/2011 15:27, Prep Date: 04/25/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Arsenic		102	85	115
Chromium		104	85	115
Copper		100	85	115
Nickel		100	85	115
Zinc		98	85	115

Blank (BLK)

Lab Sample ID: MT-11-0425B.013.LRB

Run in Batch: MT-11-0425B, Run Date: 04/25/2011 15:38, Prep Date: 04/25/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Arsenic		ND	0.002	mg/L
Chromium		ND	0.005	mg/L
Copper		ND	0.005	mg/L
Nickel		ND	0.002	mg/L
Zinc		ND	0.005	mg/L

Matrix Spike (MS)

Lab Sample ID: MT-11-0425B.027.MS, Parent Sample ID: S48480.17

Run in Batch: MT-11-0425B, Run Date: 04/25/2011 16:35, Prep Date: 04/25/2011, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL
Arsenic		105	75	125
Chromium		108	75	125
Copper		99	75	125
Nickel		96	75	125
Zinc		92	75	125

Matrix Spike (MS)

Lab Sample ID: MT-11-0425B.038.MS, Parent Sample ID: S48500.20

Run in Batch: MT-11-0425B, Run Date: 04/25/2011 17:14, Prep Date: 04/25/2011, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL
Arsenic		101	75	125
Chromium		109	75	125
Copper		95	75	125
Nickel		96	75	125
Zinc		89	75	125

Matrix Spike Duplicate (MSD)

Lab Sample ID: MT-11-0425B.028.MSD, Parent Sample ID: MT-11-0425B.027.MS

Run in Batch: MT-11-0425B, Run Date: 04/25/2011 16:38, Prep Date: 04/25/2011, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Arsenic		106	75	125	0	20
Chromium		107	75	125	1	20
Copper		100	75	125	1	20
Nickel		96	75	125	0	20
Zinc		96	75	125	4	20

QC Report - Batch QC Results

Metals, Prep Batch ID: MTD-042511-5 (continued)

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

Matrix Spike Duplicate (MSD)

Lab Sample ID: MT-11-0425B.039.MSD, Parent Sample ID: MT-11-0425B.038.MS

Run in Batch: MT-11-0425B, Run Date: 04/25/2011 17:18, Prep Date: 04/25/2011, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Arsenic		104	75	125	3	20
Chromium		114	75	125	4	20
Copper		95	75	125	0	20
Nickel		98	75	125	3	20
Zinc		92	75	125	3	20



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C.O.C. PAGE # 1 OF 1

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REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME Clifford Yantz
 COMPANY O'Brien & Gere
 ADDRESS 37000 Grand River Ave Gr 260
 CITY Farmington Hills STATE Mi ZIP CODE 48335
 PHONE NO 248-472-5701 FAX NO. P.O. NO. QUOTE NO.
 E-MAIL ADDRESS Clifford.Yantz@OBG.com

CONTACT NAME SAME
 COMPANY
 ADDRESS
 CITY STATE ZIP CODE
 PHONE NO. FAX NO. P.O. NO.

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

PROJECT NO./NAME Coldwater Rd Landfill SAMPLER(S) - PLEASE PRINT/SIGN NAME Todd Kane / [Signature]
 TURNAROUND TIME REQUIRED 24 HR 48 HR 72 HR STANDARD OTHER
 DELIVERABLES REQUIRED STANDARD LEVEL II LEVEL III OTHER
 MATRIX CODE: GW=GROUNDWATER W=WASTEWATER S=SOIL L=LIQUID SD=SOLID
 SL=SLUDGE O=OIL A=AIR W=WASTE M=MISC # Containers & Preservatives

Total Metals
 Amenable Cyanide
 BOD TSS
 Ammonia-Nitrogen
 Total Phosphorus
 FOG (Hex-Ext.)

SPECIAL INSTRUCTIONS/NOTES
 Metals Are:
 As, Cr, Cu, Hg, Ni, Zn
 Analysis per city of
 Flint permit
 Field pH - 7.69
 Field Temp - 12.5

MERIT LAB NO.	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCL	HNO3	H2O2	H2SO4	HClO4	MBOH	OTHER	Total Metals	Amenable Cyanide	BOD TSS	Ammonia-Nitrogen	Total Phosphorus	FOG (Hex-Ext.)
	DATE	TIME																	
48453.01	4/19/11	1300	02-PRC6-11	ww	5	1	1	1	1	1				X	X	X	X	X	X

RELINQUISHED BY: SIGNATURE/Organization [Signature] OBG DATE 4/19/11 TIME 13:30
 RECEIVED BY: SIGNATURE/Organization [Signature] DATE 4-17-11 TIME 1330
 RELINQUISHED BY: SIGNATURE/Organization DATE TIME
 RECEIVED BY: SIGNATURE/Organization DATE TIME

RELINQUISHED BY: SIGNATURE/Organization [Signature] DATE 4/19/11 TIME 1750
 RECEIVED BY: SIGNATURE/Organization [Signature] DATE 4-19-11 TIME 1450
 SEAL NO. SEAL INTACT YES NO INITIALS NOTES TEMP. ON ARRIVAL 4.1
 SEAL NO. SEAL INTACT YES NO INITIALS



Analytical Laboratory Report

Report ID: S49025.01(01)
Generated on 06/24/2011

Report to

Attention: Clifford Yantz
O'Brien & Gere Engineers, Inc.
37000 Grand River Ave.
Suite 260
Farmington, MI 48335

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

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): S49025.01
Project: Coldwater Rd. Landfill
Collected Date: 06/15/2011
Submitted Date/Time: 06/15/2011 14:30
Sampled by: Kevin Schneider
P.O. #: 11018537

Report Notes

Results relate only to items tested as 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 RL.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (1 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S49025.01	03-PRCC-11	Wastewater	06/15/2011 12:00



Analytical Laboratory Report

Lab Sample ID: S49025.01
 Sample Tag: 03-PRCC-11
 Collected Date/Time: 06/15/2011 12:00
 Matrix: Wastewater
 COC Reference: 47566

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	32 oz Glass	HCL	Yes	4.4	IR
1	125ml Plastic	NaOH	Yes	4.4	IR
1	125ml Plastic	HNO3	Yes	4.4	IR
1	250ml Plastic	H2SO4	Yes	4.4	IR
1	1L Amber	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
----------	---------	-------	----	--------	---------------	---------	-------	-------

Extraction / Prep.

Mercury Digestion	Completed			7471A	06/16/11 09:15	JRH		
Metal Digestion	Completed			3015A	06/17/11 01:00	SLR		

Inorganics

Amenable Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-G	06/20/11 11:54	JDP	57-12-5AM	
Ammonia-N	0.22	mg/L	0.02	4500-NH3 D	06/23/11 15:51	MJC	7664-41-7	
Field pH	7.44	STD Units	0.01	4500-H+ B	06/15/11 12:00	OBG		
Oil & Grease n-Hexane Extract.	Not detected	mg/L	1	1664A	06/23/11 16:40	DJS		
TBOD5 - Set	Completed	mg/L		10360	06/16/11 08:30	DJS		
TBOD5	1	mg/L	1	10360	06/21/11 09:00	DJS		
Total Phosphorus	0.04	mg/L	0.01	4500-PE	06/22/11 13:15	MJC	7723-14-0	
Total Suspended Solids	61	mg/L	1	2540 D	06/20/11 14:00	DJS		

Metals

Arsenic	0.004	mg/L	0.002	200.8	06/17/11 14:09	SLS	7440-38-2	
Chromium	0.068	mg/L	0.005	200.8	06/17/11 14:09	SLS	7440-47-3	
Copper	0.399	mg/L	0.004	200.8	06/17/11 14:09	SLS	7440-50-8	
Mercury	Not detected	mg/L	0.0002	245.1	06/16/11 13:27	JRT	7439-97-6	
Nickel	0.053	mg/L	0.005	200.8	06/17/11 14:09	SLS	7440-02-0	
Zinc	0.042	mg/L	0.005	200.8	06/17/11 14:09	SLS	7440-66-6	



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C.O.C. PAGE # 1 OF 1

47566

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME: Clifford Yantz
 COMPANY: O'Brien & Gere
 ADDRESS: 37000 Grand River Ave Ste 260
 CITY: Farmington Hills STATE: MI ZIP CODE: 48335
 PHONE NO.: 248-477-5701 FAX NO.:
 E-MAIL ADDRESS: Clifford.yantz@obg.com

CONTACT NAME: _____
 COMPANY: _____
 ADDRESS: _____
 CITY: _____ STATE: _____ ZIP CODE: _____
 PHONE NO.: _____ FAX NO.: _____
 P.O. NO.: _____

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

PROJECT NO./NAME: Coldwater Rd landfill SAMPLER(S) PLEASE PRINT SIGN NAME: Kevin Schneider 7-511
 TURNAROUND TIME REQUIRED: 124 HR 48 HR 72 HR STANDARD OTHER
 DELIVERABLES REQUIRED: STANDARD LEVEL II LEVEL III OTHER

Total Metals
 Amenable Cations
 BOD, TSS
 Ammonia-Nitrogen
 Total Phosphorus
 FOG (Hex-Ext)

SPECIAL INSTRUCTIONS/NOTES
 Metals Are:
 As, Cr, Cu, Hg, Ni, Zn
 Analysis Per City of
 Flint Permit

MERIT LAB NO.	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCL	HNO3	H2SO4	NH3	MgO	OTHER								
	DATE	TIME																		
49025.01	6/15/11	1000	03-PRCC-11	WW	5	1	1	1	1					X	X	X	X	X	X	X

Field pH 7.44
 Field temp 19.6

RELINQUISHED BY: [Signature] OBG DATE: 6/15/11 TIME: 1210
 RECEIVED BY: [Signature] DATE: 6/15/11 TIME: 1210

RELINQUISHED BY: [Signature] DATE: 6/15/11 TIME: 1430
 RECEIVED BY: [Signature] DATE: 6-15-11 TIME: 1430
 SEAL NO. SEAL INTACT YES/NO INITIALS NOTES TEMP. ON ARRIVAL 44

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE



Quality Control Report

Report ID: QC-S49025.01(01)
Generated on 07/21/2011

Report to

Attention: Clifford Yantz
O'Brien & Gere Engineers, Inc.
37000 Grand River Ave.
Suite 260
Farmington, MI 48335

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): S49025.01
Project: Coldwater Rd. Landfill
Submitted Date/Time: 06/15/2011 14:30
Sampled by: Kevin Schneider
P.O. #: 11018537

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

Report Notes

Results relate only to items tested as 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 RDL.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

QC Report - Analysis Summary

Lab Sample ID: S49025.01

Sample Tag: 03-PRCC-11

Collected Date/Time: 06/15/2011 12:00

Matrix: Wastewater

COC Reference: 47566

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Inorganics						
Amenable Cyanide	335.4/4500-CN-G	06/20/11 11:54	CN110620-W1	CN110620-W1	No	BLK/LCS/MS/MSD/DUP
Ammonia-N	4500-NH3 D	06/23/11 15:51	AMN110623	AMN110623	No	BLK/LCS/MS/DUP
Oil & Grease n-Hexane Extract.	1664A	06/23/11 16:40	OGHEX110623W01	OGHEX110623W01	No	BLK/LCS
Total Phosphorus	4500-PE	06/22/11 13:15	PHS110622	PHS110622	No	BLK/LCS/MS/DUP
Total Suspended Solids	2540 D	06/20/11 14:00	TSS110620	TSS110620	No	BLK/LCS/DUP
Metals						
Arsenic	200.8	06/17/11 14:09	MT3-11-0617A	MTD-061711-3	No	LCS/BLK/MS/MSD
Chromium	200.8	06/17/11 14:09	MT3-11-0617A	MTD-061711-3	No	LCS/BLK/MS/MSD
Copper	200.8	06/17/11 14:09	MT3-11-0617A	MTD-061711-3	No	LCS/BLK/MS/MSD
Mercury	245.1	06/16/11 13:27	HG2-11-0616A	HGD-061611-2	No	LCS/BLK/MS/MSD
Nickel	200.8	06/17/11 14:09	MT3-11-0617A	MTD-061711-3	No	LCS/BLK/MS/MSD
Zinc	200.8	06/17/11 14:09	MT3-11-0617A	MTD-061711-3	No	LCS/BLK/MS/MSD

QC Report - Prep Batch Summary

Inorganics, Prep Batch ID: AMN110623

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

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S49025.01	Ammonia-N	4500-NH3 D	06/23/11 15:51	AMN110623

Inorganics, Prep Batch ID: CN110620-W1

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

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S49025.01	Amenable Cyanide	335.4/4500-CN-G	06/20/11 11:54	CN110620-W1

Inorganics, Prep Batch ID: OGHEx110623W01

Surrogates: No, QC Types: BLK/LCS

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S49025.01	Oil & Grease n-Hexane Extract.	1664A	06/23/11 16:40	OGHEX110623W01

Inorganics, Prep Batch ID: PHS110622

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

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S49025.01	Total Phosphorus	4500-PE	06/22/11 13:15	PHS110622

Inorganics, Prep Batch ID: TSS110620

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

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S49025.01	Total Suspended Solids	2540 D	06/20/11 14:00	TSS110620

Metals, Prep Batch ID: HGD-061611-2

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

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S49025.01	Mercury	245.1	06/16/11 13:27	HG2-11-0616A

Metals, Prep Batch ID: MTD-061711-3

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

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S49025.01	Arsenic	200.8	06/17/11 14:09	MT3-11-0617A
S49025.01	Chromium	200.8	06/17/11 14:09	MT3-11-0617A
S49025.01	Copper	200.8	06/17/11 14:09	MT3-11-0617A
S49025.01	Nickel	200.8	06/17/11 14:09	MT3-11-0617A
S49025.01	Zinc	200.8	06/17/11 14:09	MT3-11-0617A

QC Report - Batch QC Results

Inorganics, Prep Batch ID: AMN110623

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

Blank (BLK)

Lab Sample ID: AMN110623.LRB1

Run in Batch: AMN110623, Run Date: 06/23/2011 09:54, Prep Date: 06/23/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Ammonia-N		ND	0.02	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: AMN110623.LCS1

Run in Batch: AMN110623, Run Date: 06/23/2011 10:47, Prep Date: 06/23/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Ammonia-N		92	90	110

Matrix Spike (MS)

Lab Sample ID: AMN110623.MS1, Parent Sample ID: S49017.01

Run in Batch: AMN110623, Run Date: 06/23/2011 13:06, Prep Date: 06/23/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Ammonia-N		97	80	120

Duplicate (DUP)

Lab Sample ID: AMN110623.DP1, Parent Sample ID: S49005.01

Run in Batch: AMN110623, Run Date: 06/23/2011 11:13, Prep Date: 06/23/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	RPD	RPD CL
Ammonia-N		2.4	20

QC Report - Batch QC Results

Inorganics, Prep Batch ID: CN110620-W1

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

Blank (BLK)

Lab Sample ID: CN110620-W1.LRB1

Run in Batch: CN110620-W1, Run Date: 06/20/2011 11:30, Prep Date: 06/20/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Amenable Cyanide		ND	0.005	mg/L

Blank (BLK)

Lab Sample ID: CN110620-W1.LRB2

Run in Batch: CN110620-W1, Run Date: 06/20/2011 14:45, Prep Date: 06/20/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Amenable Cyanide		ND	0.005	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: CN110620-W1.LCS1

Run in Batch: CN110620-W1, Run Date: 06/20/2011 11:36, Prep Date: 06/20/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Amenable Cyanide		97	90	110

Matrix Spike (MS)

Lab Sample ID: CN110620-W1.MS1, Parent Sample ID: S49045.01

Run in Batch: CN110620-W1, Run Date: 06/20/2011 11:42, Prep Date: 06/20/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Amenable Cyanide		95	80	120

Matrix Spike Duplicate (MSD)

Lab Sample ID: CN110620-W1.MSD1, Parent Sample ID: CN110620-W1.MS1

Run in Batch: CN110620-W1, Run Date: 06/20/2011 11:44, Prep Date: 06/20/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Amenable Cyanide		94	80	120	1	15

Duplicate (DUP)

Lab Sample ID: CN110620-W1.DP1, Parent Sample ID: S49045.01

Run in Batch: CN110620-W1, Run Date: 06/20/2011 11:40, Prep Date: 06/20/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	RPD	RPD CL
Amenable Cyanide		<1	15

Duplicate (DUP)

Lab Sample ID: CN110620-W1.DP2, Parent Sample ID: S48995.01

Run in Batch: CN110620-W1, Run Date: 06/20/2011 14:51, Prep Date: 06/20/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	RPD	RPD CL
Amenable Cyanide		<1	15

QC Report - Batch QC Results

Inorganics, Prep Batch ID: OGHEX110623W01

Surrogates: No, QC Types: BLK/LCS

Blank (BLK)

Lab Sample ID: OGHEX110623W01.LRB1

Run in Batch: OGHEX110623W01, Run Date: 06/23/2011 16:41, Prep Date: 06/23/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Oil & Grease n-Hexane Extract.		ND	1	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: OGHEX110623W01.LCS1

Run in Batch: OGHEX110623W01, Run Date: 06/23/2011 16:41, Prep Date: 06/23/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Oil & Grease n-Hexane Extract.		88	78	114

Laboratory Control Sample (LCS)

Lab Sample ID: OGHEX110623W01.LCS2

Run in Batch: OGHEX110623W01, Run Date: 06/23/2011 16:41, Prep Date: 06/23/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Oil & Grease n-Hexane Extract.		84	78	114

QC Report - Batch QC Results

Inorganics, Prep Batch ID: PHS110622

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

Blank (BLK)

Lab Sample ID: PHS110622.LRB1

Run in Batch: PHS110622, Run Date: 06/22/2011 12:40, Prep Date: 06/22/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Total Phosphorus		ND	0.01	mg/L

Blank (BLK)

Lab Sample ID: PHS110622.LRB2

Run in Batch: PHS110622, Run Date: 06/22/2011 12:46, Prep Date: 06/22/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Total Phosphorus		ND	0.01	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: PHS110622.LCS1

Run in Batch: PHS110622, Run Date: 06/22/2011 12:52, Prep Date: 06/22/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Total Phosphorus		93	90	110

Matrix Spike (MS)

Lab Sample ID: PHS110622.MS1, Parent Sample ID: S49025.01

Run in Batch: PHS110622, Run Date: 06/22/2011 20:06, Prep Date: 06/22/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Total Phosphorus		92	80	120

Duplicate (DUP)

Lab Sample ID: PHS110622.DP1, Parent Sample ID: S49065.01

Run in Batch: PHS110622, Run Date: 06/22/2011 20:01, Prep Date: 06/22/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	RPD	RPD CL
Total Phosphorus		0.5	20

QC Report - Batch QC Results

Inorganics, Prep Batch ID: TSS110620

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

Blank (BLK)

Lab Sample ID: TSS110620.LRB1

Run in Batch: TSS110620, Run Date: 06/20/2011 14:00, Prep Date: 06/20/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Total Suspended Solids		2	1	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: TSS110620.LCS1

Run in Batch: TSS110620, Run Date: 06/20/2011 14:00, Prep Date: 06/20/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Total Suspended Solids		94	90	110

Duplicate (DUP)

Lab Sample ID: TSS110620.DP1, Parent Sample ID: S49008.02

Run in Batch: TSS110620, Run Date: 06/20/2011 14:00, Prep Date: 06/20/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	RPD	RPD CL
Total Suspended Solids		0	15

QC Report - Batch QC Results

Metals, Prep Batch ID: HGD-061611-2

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

Laboratory Control Sample (LCS)

Lab Sample ID: HG2-11-0616A.025.LCS

Run in Batch: HG2-11-0616A, Run Date: 06/16/2011 13:00, Prep Date: 06/16/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Mercury		92	85	115

Blank (BLK)

Lab Sample ID: HG2-11-0616A.026.LRB

Run in Batch: HG2-11-0616A, Run Date: 06/16/2011 13:02, Prep Date: 06/16/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Mercury		ND	0.03	ug/L

Matrix Spike (MS)

Lab Sample ID: HG2-11-0616A.044.MS, Parent Sample ID: S49013.01

Run in Batch: HG2-11-0616A, Run Date: 06/16/2011 13:42, Prep Date: 06/16/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Mercury		90	80	120

Matrix Spike Duplicate (MSD)

Lab Sample ID: HG2-11-0616A.045.MSD, Parent Sample ID: HG2-11-0616A.044.MS

Run in Batch: HG2-11-0616A, Run Date: 06/16/2011 13:44, Prep Date: 06/16/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Mercury		90	80	120	0	20

QC Report - Batch QC Results

Metals, Prep Batch ID: MTD-061711-3

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

Laboratory Control Sample (LCS)

Lab Sample ID: MT3-11-0617A.012.LCS

Run in Batch: MT3-11-0617A, Run Date: 06/17/2011 13:30, Prep Date: 06/17/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Arsenic		102	85	115
Chromium		104	85	115
Copper		104	85	115
Nickel		106	85	115
Zinc		104	85	115

Blank (BLK)

Lab Sample ID: MT3-11-0617A.015.LRB

Run in Batch: MT3-11-0617A, Run Date: 06/17/2011 13:39, Prep Date: 06/17/2011, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Arsenic		ND	0.0004	mg/L
Chromium		ND	0.001	mg/L
Copper		ND	0.002	mg/L
Nickel		ND	0.003	mg/L
Zinc		ND	0.002	mg/L

Matrix Spike (MS)

Lab Sample ID: MT3-11-0617A.029.MS, Parent Sample ID: S49032.08

Run in Batch: MT3-11-0617A, Run Date: 06/17/2011 14:20, Prep Date: 06/17/2011, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL
Arsenic		108	75	125
Chromium		110	75	125
Copper		106	75	125
Nickel		102	75	125
Zinc		106	75	125

Matrix Spike (MS)

Lab Sample ID: MT3-11-0617A.043.MS, Parent Sample ID: S49056.01

Run in Batch: MT3-11-0617A, Run Date: 06/17/2011 15:05, Prep Date: 06/17/2011, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL
Arsenic		104	75	125
Chromium		107	75	125
Copper		103	75	125
Nickel		103	75	125
Zinc		103	75	125

Matrix Spike Duplicate (MSD)

Lab Sample ID: MT3-11-0617A.030.MSD, Parent Sample ID: MT3-11-0617A.029.MS

Run in Batch: MT3-11-0617A, Run Date: 06/17/2011 14:23, Prep Date: 06/17/2011, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Arsenic		108	75	125	0	20
Chromium		109	75	125	1	20
Copper		106	75	125	0	20
Nickel		103	75	125	0	20
Zinc		106	75	125	0	20

QC Report - Batch QC Results

Metals, Prep Batch ID: MTD-061711-3 (continued)

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

Matrix Spike Duplicate (MSD)

Lab Sample ID: MT3-11-0617A.044.MSD, Parent Sample ID: MT3-11-0617A.043.MS

Run in Batch: MT3-11-0617A, Run Date: 06/17/2011 15:07, Prep Date: 06/17/2011, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Arsenic		106	75	125	1	20
Chromium		106	75	125	1	20
Copper		103	75	125	0	20
Nickel		101	75	125	2	20
Zinc		104	75	125	0	20



2680 East Lansing Dr., East Lansing, MI 48823
 Phone (517) 332-0167 Fax (517) 332-6333
 www.meritlabs.com

C.O.C. PAGE # 1 OF 1

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REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME: Clifford Yantz
 COMPANY: O'Brien & Gere
 ADDRESS: 37000 Grand River Ave Ste 260
 CITY: Farmington Hills STATE: MI ZIP CODE: 48335
 PHONE NO.: 248-477-5701 FAX NO.:
 E-MAIL ADDRESS: Clifford.yantz@obg.com

CONTACT NAME: _____
 COMPANY: _____
 ADDRESS: _____
 CITY: _____ STATE: _____ ZIP CODE: _____
 PHONE NO.: _____ FAX NO.: _____
 P.O. NO.: _____

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

PROJECT NO./NAME: Coldwater Rd landfill SAMPLER(S) PLEASE PRINT SIGN NAME: Kevin Schneider
 TURNAROUND TIME REQUIRED: 124 HR 48 HR 72 HR STANDARD OTHER
 DELIVERABLES REQUIRED: STANDARD LEVEL II LEVEL III OTHER

Total Metals
 Amenable Cations
 BOD, TSS
 Ammonia-Nitrogen
 Total Phosphorus
 FOG (Hex-Ext)

SPECIAL INSTRUCTIONS/NOTES
 Metals Are:
 As, Cr, Cu, Hg, Ni, Zn
 Analysis Per City of
 Flint Permit

MERIT LAB NO.	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCL	HNO3	H2SO4	NH3	MgO	OTHER	Total Metals	Amenable Cations	BOD, TSS	Ammonia-Nitrogen	Total Phosphorus	FOG (Hex-Ext)	SPECIAL INSTRUCTIONS/NOTES
	DATE	TIME																	
49025.01	6/15/11	1000	03-PRCC-11	WW	5	1	1	1	1				X	X	X	X	X	X	Field pH 7.44 Field temp 19.6

RELINQUISHED BY: [Signature] OBG DATE: 6/15/11 TIME: 1210
 RECEIVED BY: [Signature] DATE: 6/15/11 TIME: 1210

RELINQUISHED BY: [Signature] DATE: 6/15/11 TIME: 1430
 RECEIVED BY: [Signature] DATE: 6-15-11 TIME: 1430
 SEAL NO. SEAL INTACT YES/NO INITIALS NOTES TEMP. ON ARRIVAL 44

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE