



April 27, 2010

Mr. Brad Hill

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

SUBJECT: DISCHARGE PERMIT SUBMITTAL- JANUARY 2010 THROUGH MARCH 2010

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

Dear Mr. Hill:

In accordance with requirements of the above referenced discharge permit, we are providing you with the following discharge information for the period January 1, 2010 to March 31, 2010 for the Coldwater Road 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 Report provided by Merit Laboratories, Inc. for samples from the on-site, above ground collection tank collected on February 23, 2010.
- 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.

A handwritten signature in black ink that reads 'Clifford Scott Yantz'.

Clifford Yantz
Technical Associate

Enclosures

cc: Mr. Anthony Nowiski – Beecher Metropolitan District, Flint, MI
Mr. David Favero – Motors Liquidation Co.

City of Flint Industrial Pretreatment Program

Periodic Report on Continued Compliance

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

Reporting Period: January 1, 2010 through March 31, 2010

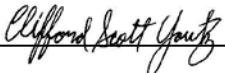
Average Volume of Daily Discharge (during reporting period): 3,435 gallons per day.
(2 days)

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 Motors Liquidation Company (MLC)

Signature of Authorized Representative: 

Date Signed by Authorized Representative: 4-27-10

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
REALM - Coldwater Road Landfill
Periodic Report on Continued Compliance
Laboratory Analytical Summary
6-08-04-04-GML1

Analytical Parameter	BOD	COD	TKN	TP	TSS	FOG
Unit of Measure	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Limitation	811	n/a	107	15	571	216
Test Result	32	162	7.9	0.03	116	<1
Test Method	EPA 5210	EPA 410.4	EPA 4500	EPA 4500	EPA 2540	1664A
Test Date	2/24/2010	3/1/2010	2/25/2010	3/1/2010	2/24/2010	2/24/2010
Sample Date	2/23/2010	2/23/2010	2/23/2010	2/23/2010	2/23/2010	2/32/2010
Sample Type	Grab	Grab	Grab	Grab	Grab	Grab

Analytical Parameter	pH at 25°C	As, T	Cr, T	Cu, T	Hg, T	Ni, T
Unit of Measure	S.U.	mg/L	mg/L	mg/L	mg/L	mg/L
Limitation	6.0-10.5	2.3	24	1.0	No discharge	0.86
Test Result	8.13	0.010	0.026	0.517	< 0.0002	0.234
Test Method	EPA 4500	200.8	200.8	200.8	245.1	200.8
Test Date	2/23/2010	2/24/2010	2/24/2010	2/23/2010	2/25/2010	2/24/2010
Sample Date	2/23/2010	2/23/2010	2/23/2010	2/23/2010	2/23/2010	2/23/2010
Sample Type	Grab	Grab	Grab	Grab	Grab	Grab

Analytical Parameter	Zn, T	Cyanide, A	Phenol	BTEX	Bromodichloromethane	Chloroform	TTO
Unit of Measure	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Limitation	6.4	0.065	20	0.020	No limitation	No limitation	No limitation
Test Result	0.008	<0.005	< 0.01	<0.006	0.001	0.001	Not Detected
Test Method(s)	200.8	EPA 4500-CN-G	EPA 420.1	624	624	624	624, 625, 608
Test Date	2/24/2010	2/24/2010	2/25/2010	3/1/2010	3/1/2010	3/1/2010	2/24/10, 2/27/10, 3/1/10
Sample Date	2/23/2010	2/23/2010	2/23/2010	2/23/2010	2/23/2010	2/23/2010	2/23/2010
Sample Type	Grab	Grab	Grab	Grab	Grab	Grab	Grab

Table 2
REALM - Coldwater Road Landfill
Daily Discharge Summary Table
First Quarter - 2010
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)	
3/2/2010	--	--	2,046	12:10	15:15	11.1	13.4	56.1	7.45
3/3/2010	--	--	4,823	10:15	17:30	11.1	12.4	54.3	7.80

Total Discharge Volume: 6,869
Average Volume per Discharge: 3,435

NOTES : Flow meter was not functioning during discharge. Total gallons discharged monitored off the ultra sensor in the tank.



Analytical Laboratory Report

Supplemental Report

Report ID: S43447.01(03)
Generated on 03/08/2010
Replaces report S43447.01(02) generated on 03/01/2010

Report to

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

Phone: 248-477-5701 FAX:
Email: YantzCS@obg.com/SecresME@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): S43447.01
Project: Coldwater Rd. PRCC
Collected Date: 02/23/2010
Submitted Date/Time: 02/23/2010 13:10
Sampled by: Stephen Dehring
P.O. #: 10910979

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.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Supplemental Report

Sample Summary (1 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S43447.01	01-PRCC-10	Wastewater	02/23/2010 10:15



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S43447.01
 Sample Tag: 01-PRCC-10
 Collected Date/Time: 02/23/2010 10:15
 Matrix: Wastewater
 COC Reference: 52427

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40 ml Glass	HCL	Yes	4.2	IR
1	32 oz Glass	HCL	Yes	4.2	IR
1	125ml Plastic	NaOH	Yes	4.2	IR
1	125ml Plastic	HNO3	Yes	4.2	IR
2	250ml Plastic	H2SO4	Yes	4.2	IR
3	1 L Amber	None	Yes	4.2	IR
1	1L Plastic	None	Yes	4.2	IR
1	125ml Amber	H2SO4	Yes	4.2	IR

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

Extraction / Prep.

BNA Extraction	Completed			3510C	02/25/10 21:37	EMR		
Extraction, PCB	Completed			3510C	02/24/10 12:04	ADB		
Mercury Digestion	Completed			7471A	02/25/10 11:00	JRT		
Metal Digestion	Completed			3015A	02/23/10 12:00	SLS		
Metal Digestion (Replicate 01)	Completed			3015A	02/24/10 12:00	SLS		
Oil & Grease n-Hexane Extract.	Not detected	mg/L	1	1664A	02/24/10 16:22	DJS		
Pesticides Extraction	Completed			3510C	02/24/10 13:28	ADB		

Inorganics

Amenable Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-G	02/24/10 12:46	JDP	57-12-5AM	
COD	162	mg/L	1	410.4	03/01/10 13:00	MJC		
Field pH	8.13	STD Units	0.01	4500-H+ B	02/23/10 10:15	OBG		
Phenols	Not detected	mg/L	0.01	420.1	02/25/10 15:20	JKB		
TBOD5	32	mg/L	1	10360	02/24/10 15:30-03/01/10	BJR		
Total Kjeldahl Nitrogen	7.9	mg/L	0.1	4500-N(org)/NH3	02/25/10 15:00	MJC		
Total Phosphorus	0.03	mg/L	0.01	4500-PE	03/01/10 12:00	MJC	7723-14-0	
Total Suspended Solids	116	mg/L	1	2540 D	02/24/10 14:09	WAR		

Metals

Arsenic	0.010	mg/L	0.002	200.8	02/24/10 13:36	SLS	7440-38-2	
Chromium	0.026	mg/L	0.005	200.8	02/24/10 13:36	SLS	7440-47-3	
Copper	0.517	mg/L	0.004	200.8	02/23/10 16:29	SLS	7440-50-8	
Mercury	Not detected	mg/L	0.0002	245.1	02/25/10 15:19	JRT	7439-97-6	
Nickel	0.234	mg/L	0.005	200.8	02/24/10 13:36	SLS	7440-02-0	
Zinc	0.008	mg/L	0.005	200.8	02/24/10 13:36	SLS	7440-66-6	

Organics - PCBs/Pesticides

Pesticides and PCBs, TTO

Aldrin	Not detected	ug/L	0.02	608	02/24/10 14:28	JANB	309-00-2	
a-BHC	Not detected	ug/L	0.02	608	02/24/10 14:28	JANB	319-84-6	
b-BHC	Not detected	ug/L	0.02	608	02/24/10 14:28	JANB	319-85-7	
d-BHC	Not detected	ug/L	0.02	608	02/24/10 14:28	JANB	319-86-8	
g-BHC	Not detected	ug/L	0.02	608	02/24/10 14:28	JANB	58-89-9	
Chlordane	Not detected	ug/L	0.02	608	02/24/10 14:28	JANB	57-74-9	
4,4'-DDD	Not detected	ug/L	0.02	608	02/24/10 14:28	JANB	72-54-8	
4,4'-DDE	Not detected	ug/L	0.02	608	02/24/10 14:28	JANB	72-55-9	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S43447.01 (continued)

Sample Tag: 01-PRCC-10

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - PCBs/Pesticides (continued)								
Pesticides and PCBs, TTO (continued)								
4,4'-DDT	Not detected	ug/L	0.02	608	02/24/10 14:28	JANB	50-29-3	
Dieldrin	Not detected	ug/L	0.02	608	02/24/10 14:28	JANB	60-57-1	
Endosulfan I	Not detected	ug/L	0.02	608	02/24/10 14:28	JANB	959-98-8	
Endosulfan II	Not detected	ug/L	0.02	608	02/24/10 14:28	JANB	33213-65-9	
Endosulfan sulfate	Not detected	ug/L	0.02	608	02/24/10 14:28	JANB	1031-07-8	
Endrin	Not detected	ug/L	0.02	608	02/24/10 14:28	JANB	72-20-8	
Endrin aldehyde	Not detected	ug/L	0.02	608	02/24/10 14:28	JANB	7421-93-4	
Heptachlor	Not detected	ug/L	0.02	608	02/24/10 14:28	JANB	76-44-8	
Heptachlor epoxide	Not detected	ug/L	0.02	608	02/24/10 14:28	JANB	1024-57-3	
Toxaphene	Not detected	ug/L	1	608	02/24/10 14:28	JANB	8001-35-2	
PCB-1016	Not detected	ug/L	0.1	608	02/24/10 14:28	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	02/24/10 14:28	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	02/24/10 14:28	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.1	608	02/24/10 14:28	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	02/24/10 14:28	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	02/24/10 14:28	JANB	11096-82-5	
PCB-1242	Not detected	ug/L	0.1	608	02/24/10 14:28	JANB	53469-21-9	
Total PCBs	Not detected	ug/L	0.1	608	02/24/10 14:28	JANB	1336-36-3	
Organics - Semi-Volatiles								
SVOCs, TTO List								
Acenaphthene	Not detected	ug/L	10	625M	02/27/10 17:39	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	10	625M	02/27/10 17:39	PL	208-96-8	
Anthracene	Not detected	ug/L	10	625M	02/27/10 17:39	PL	120-12-7	
Benzidine	Not detected	ug/L	10	625M	02/27/10 17:39	PL	92-87-5	
Benzo(a)anthracene	Not detected	ug/L	10	625M	02/27/10 17:39	PL	56-55-3	
Benzo(b)fluoranthene	Not detected	ug/L	10	625M	02/27/10 17:39	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	10	625M	02/27/10 17:39	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	10	625M	02/27/10 17:39	PL	191-24-2	
Benzo(a)pyrene	Not detected	ug/L	10	625M	02/27/10 17:39	PL	50-32-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	10	625M	02/27/10 17:39	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	10	625M	02/27/10 17:39	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	10	625M	02/27/10 17:39	PL	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	10	625M	02/27/10 17:39	PL	117-81-7	
4-Bromophenyl phenyl ether	Not detected	ug/L	10	625M	02/27/10 17:39	PL	101-55-3	
Butyl benzyl phthalate	Not detected	ug/L	10	625M	02/27/10 17:39	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	10	625M	02/27/10 17:39	PL	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/L	10	625M	02/27/10 17:39	PL	59-50-7	
2-Chlorophenol	Not detected	ug/L	10	625M	02/27/10 17:39	PL	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	10	625M	02/27/10 17:39	PL	7005-72-3	
Chrysene	Not detected	ug/L	10	625M	02/27/10 17:39	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	10	625M	02/27/10 17:39	PL	53-70-3	
di-n-Butyl phthalate	Not detected	ug/L	10	625M	02/27/10 17:39	PL	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/L	10	625M	02/27/10 17:39	PL	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	10	625M	02/27/10 17:39	PL	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	10	625M	02/27/10 17:39	PL	106-46-7	
3,3'-Dichlorobenzidine	Not detected	ug/L	10	625M	02/27/10 17:39	PL	91-94-1	
2,4-Dichlorophenol	Not detected	ug/L	10	625M	02/27/10 17:39	PL	120-83-2	
Diethyl phthalate	Not detected	ug/L	10	625M	02/27/10 17:39	PL	84-66-2	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S43447.01 (continued)

Sample Tag: 01-PRCC-10

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
SVOCs, TTO List (continued)								
Dimethyl phthalate	Not detected	ug/L	10	625M	02/27/10 17:39	PL	131-11-3	
2,4-Dimethylphenol	Not detected	ug/L	10	625M	02/27/10 17:39	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	10	625M	02/27/10 17:39	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	10	625M	02/27/10 17:39	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	10	625M	02/27/10 17:39	PL	606-20-2	
di-n-Octyl phthalate	Not detected	ug/L	10	625M	02/27/10 17:39	PL	117-84-0	
1,2-Diphenylhydrazine	Not detected	ug/L	10	625M	02/27/10 17:39	PL	122-66-7	
Fluoranthene	Not detected	ug/L	10	625M	02/27/10 17:39	PL	206-44-0	
Fluorene	Not detected	ug/L	10	625M	02/27/10 17:39	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/L	10	625M	02/27/10 17:39	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/L	10	625M	02/27/10 17:39	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	10	625M	02/27/10 17:39	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	10	625M	02/27/10 17:39	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	10	625M	02/27/10 17:39	PL	193-39-5	
Isophorone	Not detected	ug/L	10	625M	02/27/10 17:39	PL	78-59-1	
Naphthalene	Not detected	ug/L	10	625M	02/27/10 17:39	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	10	625M	02/27/10 17:39	PL	98-95-3	
2-Nitrophenol	Not detected	ug/L	10	625M	02/27/10 17:39	PL	88-75-5	
4-Nitrophenol	Not detected	ug/L	10	625M	02/27/10 17:39	PL	100-02-7	
N-Nitrosodimethylamine	Not detected	ug/L	10	625M	02/27/10 17:39	PL	62-75-9	
N-Nitrosodiphenylamine	Not detected	ug/L	10	625M	02/27/10 17:39	PL	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	ug/L	10	625M	02/27/10 17:39	PL	621-64-7	
Pentachlorophenol	Not detected	ug/L	10	625M	02/27/10 17:39	PL	87-86-5	
2-Methyl-4,6-dinitrophenol	Not detected	ug/L	10	625M	02/27/10 17:39	PL	534-52-1	
Phenol	Not detected	ug/L	10	625M	02/27/10 17:39	PL	108-95-2	
Pyrene	Not detected	ug/L	10	625M	02/27/10 17:39	PL	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/L	10	625M	02/27/10 17:39	PL	120-82-1	
2,4,6-Trichlorophenol	Not detected	ug/L	10	625M	02/27/10 17:39	PL	88-06-2	
Phenanthrene	Not detected	ug/L	10	625M	02/27/10 17:39	PL	85-01-8	
TCDD	Not detected	ug/L	10	625M	02/27/10 17:39	PL	1746-01-6	
Organics - Volatiles								
BTEX with total (Replicate 01)								
Benzene	Not detected	ug/L	1	624	03/03/10 02:16	JGH	71-43-2	
Toluene	Not detected	ug/L	1	624	03/03/10 02:16	JGH	108-88-3	
Ethylbenzene	Not detected	ug/L	1	624	03/03/10 02:16	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	624	03/03/10 02:16	JGH		
o-Xylene	Not detected	ug/L	1	624	03/03/10 02:16	JGH	95-47-6	
Total BTEX	Not detected	ug/L	6	624	03/03/10 02:16	JGH		
BTEX with total								
Benzene	Not detected	ug/L	1	624	03/01/10 16:40	JGH	71-43-2	
Toluene	Not detected	ug/L	1	624	03/01/10 16:40	JGH	108-88-3	
Ethylbenzene	Not detected	ug/L	1	624	03/01/10 16:40	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	624	03/01/10 16:40	JGH		
o-Xylene	Not detected	ug/L	1	624	03/01/10 16:40	JGH	95-47-6	
Total BTEX	Not detected	ug/L	6	624	03/01/10 16:40	JGH		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S43447.01 (continued)

Sample Tag: 01-PRCC-10

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
VOCs, TTO List								
Acrolein	Not detected	ug/L	10	624	03/01/10 16:40	JGH	107-02-8	
Acrylonitrile	Not detected	ug/L	1	624	03/01/10 16:40	JGH	107-13-1	
Benzene	Not detected	ug/L	1	624	03/01/10 16:40	JGH	71-43-2	
Bromodichloromethane	1	ug/L	1	624	03/01/10 16:40	JGH	75-27-4	
Bromoform	Not detected	ug/L	1	624	03/01/10 16:40	JGH	75-25-2	
Bromomethane	Not detected	ug/L	1	624	03/01/10 16:40	JGH	74-83-9	
Carbon tetrachloride	Not detected	ug/L	1	624	03/01/10 16:40	JGH	56-23-5	
Chlorobenzene	Not detected	ug/L	1	624	03/01/10 16:40	JGH	108-90-7	
Chloroethane	Not detected	ug/L	1	624	03/01/10 16:40	JGH	75-00-3	
2-Chloroethylvinyl ether	Not detected	ug/L	1	624	03/01/10 16:40	JGH	110-75-8	
Chloroform	1	ug/L	1	624	03/01/10 16:40	JGH	67-66-3	
Chloromethane	Not detected	ug/L	1	624	03/01/10 16:40	JGH	74-87-3	
Dibromochloromethane	Not detected	ug/L	1	624	03/01/10 16:40	JGH	124-48-1	
1,1-Dichloroethane	Not detected	ug/L	1	624	03/01/10 16:40	JGH	75-34-3	
1,2-Dichloroethane	Not detected	ug/L	1	624	03/01/10 16:40	JGH	107-06-2	
1,1-Dichloroethene	Not detected	ug/L	1	624	03/01/10 16:40	JGH	75-35-4	
trans-1,2-Dichloroethene	Not detected	ug/L	1	624	03/01/10 16:40	JGH	156-60-5	
1,2-Dichloropropane	Not detected	ug/L	1	624	03/01/10 16:40	JGH	78-87-5	
cis-1,3-Dichloropropene	Not detected	ug/L	1	624	03/01/10 16:40	JGH	10061-01-5	
trans-1,3-Dichloropropene	Not detected	ug/L	1	624	03/01/10 16:40	JGH	10061-02-6	
Ethylbenzene	Not detected	ug/L	1	624	03/01/10 16:40	JGH	100-41-4	
Methylene chloride	Not detected	ug/L	5	624	03/01/10 16:40	JGH	75-09-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	624	03/01/10 16:40	JGH	79-34-5	
Tetrachloroethene	Not detected	ug/L	1	624	03/01/10 16:40	JGH	127-18-4	
Toluene	Not detected	ug/L	1	624	03/01/10 16:40	JGH	108-88-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	624	03/01/10 16:40	JGH	71-55-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	624	03/01/10 16:40	JGH	79-00-5	
Trichloroethene	Not detected	ug/L	1	624	03/01/10 16:40	JGH	79-01-6	
Vinyl chloride	Not detected	ug/L	1	624	03/01/10 16:40	JGH	75-01-4	
VOCs, TTO List (Replicate 01)								
Acrolein	Not detected	ug/L	10	624	03/03/10 02:16	JGH	107-02-8	
Acrylonitrile	Not detected	ug/L	1	624	03/03/10 02:16	JGH	107-13-1	
Benzene	Not detected	ug/L	1	624	03/03/10 02:16	JGH	71-43-2	
Bromodichloromethane	Not detected	ug/L	1	624	03/03/10 02:16	JGH	75-27-4	
Bromoform	Not detected	ug/L	1	624	03/03/10 02:16	JGH	75-25-2	
Bromomethane	Not detected	ug/L	1	624	03/03/10 02:16	JGH	74-83-9	
Carbon tetrachloride	Not detected	ug/L	1	624	03/03/10 02:16	JGH	56-23-5	
Chlorobenzene	Not detected	ug/L	1	624	03/03/10 02:16	JGH	108-90-7	
Chloroethane	Not detected	ug/L	1	624	03/03/10 02:16	JGH	75-00-3	
2-Chloroethylvinyl ether	Not detected	ug/L	1	624	03/03/10 02:16	JGH	110-75-8	
Chloroform	Not detected	ug/L	1	624	03/03/10 02:16	JGH	67-66-3	
Chloromethane	Not detected	ug/L	1	624	03/03/10 02:16	JGH	74-87-3	
Dibromochloromethane	Not detected	ug/L	1	624	03/03/10 02:16	JGH	124-48-1	
1,1-Dichloroethane	Not detected	ug/L	1	624	03/03/10 02:16	JGH	75-34-3	
1,2-Dichloroethane	Not detected	ug/L	1	624	03/03/10 02:16	JGH	107-06-2	
1,1-Dichloroethene	Not detected	ug/L	1	624	03/03/10 02:16	JGH	75-35-4	
trans-1,2-Dichloroethene	Not detected	ug/L	1	624	03/03/10 02:16	JGH	156-60-5	
1,2-Dichloropropane	Not detected	ug/L	1	624	03/03/10 02:16	JGH	78-87-5	



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S43447.01 (continued)

Sample Tag: 01-PRCC-10

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
VOCs, TTO List (Replicate 01) (continued)								
cis-1,3-Dichloropropene	Not detected	ug/L	1	624	03/03/10 02:16	JGH	10061-01-5	
trans-1,3-Dichloropropene	Not detected	ug/L	1	624	03/03/10 02:16	JGH	10061-02-6	
Ethylbenzene	Not detected	ug/L	1	624	03/03/10 02:16	JGH	100-41-4	
Methylene chloride	Not detected	ug/L	5	624	03/03/10 02:16	JGH	75-09-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	624	03/03/10 02:16	JGH	79-34-5	
Tetrachloroethene	Not detected	ug/L	1	624	03/03/10 02:16	JGH	127-18-4	
Toluene	Not detected	ug/L	1	624	03/03/10 02:16	JGH	108-88-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	624	03/03/10 02:16	JGH	71-55-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	624	03/03/10 02:16	JGH	79-00-5	
Trichloroethene	Not detected	ug/L	1	624	03/03/10 02:16	JGH	79-01-6	
Vinyl chloride	Not detected	ug/L	1	624	03/03/10 02:16	JGH	75-01-4	

Merit

Laboratories, Inc.

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

52427

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME: Cliff Yantz / M. Searest
 COMPANY: O'Brien & Gere
 ADDRESS: 37000 Grand River Ave Suite 260
 CITY: Farmington Hills STATE: MI ZIP CODE: 48335
 PHONE NO. FAX NO. P.O. NO. QUOTE NO.

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

PROJECT NO./NAME: Coldwater Rd. PRCC
 TURNAROUND TIME REQUIRED: 24 HR 48 HR 72 HR STANDARD OTHER
 DELIVERABLES REQUIRED: STANDARD LEVEL II LEVEL III OTHER

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)
 SPECIAL INSTRUCTIONS/NOTES: Only run for Copper on 24 hour TAT and notify contact with results. Hold other analysis until copper is run.

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID
 SL=SLUDGE O=OIL A=AIR W=WASTE M=MISC

Containers & Preservatives
 BTX Volatiles
 TKN by 629, 621, 620
 Total Metals
 Amenable Cyanides
 Phenol
 BOD, TSS
 TKN
 Total Phosphorus
 COD
 FOG

MERIT LAB NO.	20540		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives								OTHER	SPECIAL INSTRUCTIONS/NOTES
	DATE	TIME				NONE	HCL	HNO3	H2SO4	NaOH	MeOH				
43447.01	2/23	10:15	01-PRCC-10	WW	12	4	3	1	3	1					Metals anal: As, Cr, Cu, Hg, Ni, Zn Field pH: 8.13 Analysis per city of Flint permit

RELINQUISHED BY: [Signature] OBS
 SIGNATURE/ORGANIZATION: [Signature]
 RECEIVED BY: [Signature]
 SIGNATURE/ORGANIZATION: [Signature]
 DATE: 2/23/10 TIME: 10:50
 DATE: 2/23/10 TIME: 10:50

RELINQUISHED BY: [Signature]
 SIGNATURE/ORGANIZATION: [Signature]
 RECEIVED BY: [Signature]
 SIGNATURE/ORGANIZATION: [Signature]
 DATE: 2/23/10 TIME: 13:10
 DATE: 2/23/10 TIME: 13:40
 SEAL NO. SEAL INTACT YES NO INITIALS: _____ NOTES: TEMP. ON ARRIVAL: 4.2



Quality Control Report

Report ID: QC-S43447.01(01)
Generated on 03/16/2010

Report to

Attention: Clifford Yantz/Marianne Secrest
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): S43447.01
Project: Coldwater Rd. PRCC
Submitted Date/Time: 02/23/2010 13:10
Sampled by: Stephen Dehring
P.O. #: 10910979

Report Sections

Cover Page (Page 1)
Analysis Summary (Page 2)
Prep Batch Summary (Pages 3-4)
Surrogates per Lab Sample (Page 5)
Surrogates per QC Sample (Pages 6-9)
Batch QC Results (Pages 10-26)

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.

Violetta F. Murshak
Violetta F. Murshak
Laboratory Director

QC Report - Analysis Summary

Lab Sample ID: S43447.01

Sample Tag: 01-PRCC-10

Collected Date/Time: 02/23/2010 10:15

Matrix: Wastewater

COC Reference: 52427

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Extraction / Prep.						
Oil & Grease n-Hexane Extract.	1664A	02/24/10 16:22	OGHEX100224W01	OGHEX100224W01	No	BLK/LCS
Inorganics						
Amenable Cyanide	335.4/4500-CN-G	02/24/10 12:46	CN100224-W1	CN100224-W1	No	BLK/LCS/MS/MSD/DUP
COD	410.4	03/01/10 13:00	COD100301	COD100301	No	BLK/LCS/MS/DUP
Phenols	420.1	02/25/10 15:20	PHL100225-W1	PHL100225-W1	No	BLK/LCS/MS/DUP
Total Kjeldahl Nitrogen	4500-N(org)/NH3	02/25/10 15:00	TKN100225	TKN100225	No	BLK/LCS/MS/DUP
Total Phosphorus	4500-PE	03/01/10 12:00	PHS100301	PHS100301	No	BLK/LCS/MS/DUP
Total Suspended Solids	2540 D	02/24/10 14:09	TSS100224	TSS100224	No	BLK/LCS/DUP
Metals						
Arsenic	200.8	02/24/10 13:36	MT-10-0224A	MTD-022410-3	No	LCS/BLK/MS/MSD
Chromium	200.8	02/24/10 13:36	MT-10-0224A	MTD-022410-3	No	LCS/BLK/MS/MSD
Copper	200.8	02/23/10 16:29	MT-10-0223D	MTD-022310-6	No	LCS/BLK/MS/MSD
Mercury	245.1	02/25/10 15:19	HG2-10-0225A	HGD-022510-1	No	LCS/BLK/MS/MSD
Nickel	200.8	02/24/10 13:36	MT-10-0224A	MTD-022410-3	No	LCS/BLK/MS/MSD
Zinc	200.8	02/24/10 13:36	MT-10-0224A	MTD-022410-3	No	LCS/BLK/MS/MSD
Organics - PCBs/Pesticides						
Pesticides and PCBs, TTO	608	02/24/10 14:28	F100224	PA100224W01	Yes	LCS/BLK/LCSD
Organics - Semi-Volatiles						
SVOCs, TTO List	625M	02/27/10 17:39	Z100227	SF100225W01	Yes	LCS/BLK/LCSD
Organics - Volatiles						
BTEX with total	624	03/01/10 16:40	100301A3	VF100301W1	Yes	LCS/BLK/LCSD
BTEX with total (Replicate 01)	624	03/03/10 02:16	100302C3	VF100302W1	Yes	LCS/BLK/LCSD
VOCs, TTO List	624	03/01/10 16:40	100301A3	VF100301W1	Yes	LCS/BLK/LCSD
VOCs, TTO List (Replicate 01)	624	03/03/10 02:16	100302C3	VF100302W1	Yes	LCS/BLK/LCSD

QC Report - Prep Batch Summary

Extraction / Prep., Prep Batch ID: OGHEX100224W01

Surrogates: No, QC Types: BLK/LCS

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S43447.01	Oil & Grease n-Hexane Extract.	1664A	02/24/10 16:22	OGHEX100224W01

Inorganics, Prep Batch ID: CN100224-W1

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

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S43447.01	Amenable Cyanide	335.4/4500-CN-G	02/24/10 12:46	CN100224-W1

Inorganics, Prep Batch ID: COD100301

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

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S43447.01	COD	410.4	03/01/10 13:00	COD100301

Inorganics, Prep Batch ID: PHL100225-W1

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

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S43447.01	Phenols	420.1	02/25/10 15:20	PHL100225-W1

Inorganics, Prep Batch ID: PHS100301

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

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S43447.01	Total Phosphorus	4500-PE	03/01/10 12:00	PHS100301

Inorganics, Prep Batch ID: TKN100225

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

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S43447.01	Total Kjeldahl Nitrogen	4500-N(org)/NH3	02/25/10 15:00	TKN100225

Inorganics, Prep Batch ID: TSS100224

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

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S43447.01	Total Suspended Solids	2540 D	02/24/10 14:09	TSS100224

Metals, Prep Batch ID: HGD-022510-1

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

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S43447.01	Mercury	245.1	02/25/10 15:19	HG2-10-0225A

Metals, Prep Batch ID: MTD-022310-6

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

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S43447.01	Copper	200.8	02/23/10 16:29	MT-10-0223D

Metals, Prep Batch ID: MTD-022410-3

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

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S43447.01	Arsenic	200.8	02/24/10 13:36	MT-10-0224A
S43447.01	Chromium	200.8	02/24/10 13:36	MT-10-0224A
S43447.01	Nickel	200.8	02/24/10 13:36	MT-10-0224A
S43447.01	Zinc	200.8	02/24/10 13:36	MT-10-0224A

QC Report - Prep Batch Summary

Organics - PCBs/Pesticides, Prep Batch ID: PA100224W01

Surrogates: Yes, QC Types: LCS/BLK/LCSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S43447.01	Pesticides and PCBs, TTO	608	02/24/10 14:28	F100224

Organics - Semi-Volatiles, Prep Batch ID: SF100225W01

Surrogates: Yes, QC Types: LCS/BLK/LCSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S43447.01	SVOCs, TTO List	625M	02/27/10 17:39	Z100227

Organics - Volatiles, Prep Batch ID: VF100301W1

Surrogates: Yes, QC Types: LCS/BLK/LCSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S43447.01	BTEX with total	624	03/01/10 16:40	100301A3
S43447.01	VOCs, TTO List	624	03/01/10 16:40	100301A3

Organics - Volatiles, Prep Batch ID: VF100302W1

Surrogates: Yes, QC Types: LCS/BLK/LCSD

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S43447.01	BTEX with total (Replicate 01)	624	03/03/10 02:16	100302C3
S43447.01	VOCs, TTO List (Replicate 01)	624	03/03/10 02:16	100302C3

QC Report - Surrogates per Lab Sample

Lab Sample ID: S43447.01

Sample Tag: 01-PRCC-10

Collected Date/Time: 02/23/2010 10:15

Matrix: Wastewater

COC Reference: 52427

Organics - PCBs/Pesticides, Analysis: Pesticides and PCBs, TTO

Run in Batch: F100224, Run Date: 02/24/2010 14:28, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
TCX		77.50	34.1	137.1
DCB2		70.40	30.0	138.6

Organics - Semi-Volatiles, Analysis: SVOCs, TTO List

Run in Batch: Z100227, Run Date: 02/27/2010 17:39, Matrix: WW, Dilution: 6

Surrogate	Flags	%Rec	LCL	UCL
2-Fluorophenol		41.40	10.0	110.0
2-Fluorobiphenyl		67.40	10.0	116.0
Nitrobenzene-D5		57.10	10.0	114.0
Phenol-D5		34.80	10.0	110.0
2,4,6-Tribromophenol		71.50	10.0	123.0
Terphenyl-D14		73.90	10.0	141.0

Organics - Volatiles, Analysis: BTEX with total

Organics - Volatiles, Analysis: VOCs, TTO List

Run in Batch: 100301A3, Run Date: 03/01/2010 16:40, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		101.40	78.4	119.6
1,2-Dichloroethane-D4		101.50	66.4	124.8
Toluene-D8		106.30	82.5	118.4

Organics - Volatiles, Analysis: BTEX with total (Replicate 01)

Organics - Volatiles, Analysis: VOCs, TTO List (Replicate 01)

Run in Batch: 100302C3, Run Date: 03/03/2010 02:16, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		93.70	78.4	119.6
1,2-Dichloroethane-D4		93.40	66.4	124.8
Toluene-D8		92.90	82.5	118.4

QC Report - Surrogates per QC Sample

Organics - PCBs/Pesticides, Prep Batch ID: PA100224W01

Surrogates: Yes, QC Types: LCS/BLK/LCSD

Laboratory Control Sample (LCS)

Lab Sample ID: a10022507.slcs-w.01

Run in Batch: A100225, Run Date: 02/25/2010 11:56, Prep Date: 02/24/2010, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
TCX		84.90	34.1	137.1
DCB2		64.80	30.0	138.6

Blank (BLK)

Lab Sample ID: a10022506.sblk-w.01

Run in Batch: A100225, Run Date: 02/25/2010 11:46, Prep Date: 02/24/2010, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
TCX		79.30	34.1	137.1
DCB2		65.80	30.0	138.6

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: a10022508.slcs-w.01d, Parent Sample ID: a10022507.slcs-w.01

Run in Batch: A100225, Run Date: 02/25/2010 12:07, Prep Date: 02/24/2010, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
TCX		84.60	34.1	137.1
DCB2		94.30	30.0	138.6

QC Report - Surrogates per QC Sample

Organics - Semi-Volatiles, Prep Batch ID: SF100225W01

Surrogates: Yes, QC Types: LCS/BLK/LCSD

Laboratory Control Sample (LCS)

Lab Sample ID: z100227.lcsw27a

Run in Batch: Z100227, Run Date: 02/27/2010 16:30, Prep Date: 02/25/2010, Matrix: WW, Dilution: 2

Surrogate	Flags	%Rec	LCL	UCL
2-Fluorophenol		81.90	10.0	110.0
2-Fluorobiphenyl		88.10	10.0	116.0
Nitrobenzene-D5		81.20	10.0	114.0
Phenol-D5		84.30	10.0	110.0
2,4,6-Tribromophenol		87.20	10.0	123.0
Terphenyl-D14		91.00	10.0	141.0

Blank (BLK)

Lab Sample ID: z100227.blkw27a

Run in Batch: Z100227, Run Date: 02/27/2010 15:56, Prep Date: 02/25/2010, Matrix: WW, Dilution: 2

Surrogate	Flags	%Rec	LCL	UCL
2-Fluorophenol		81.70	10.0	110.0
2-Fluorobiphenyl		88.60	10.0	116.0
Nitrobenzene-D5		81.20	10.0	114.0
Phenol-D5		84.60	10.0	110.0
2,4,6-Tribromophenol		82.50	10.0	123.0
Terphenyl-D14		92.20	10.0	141.0

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: z100227.lcsdw27a, Parent Sample ID: z100227.lcsw27a

Run in Batch: Z100227, Run Date: 02/27/2010 17:05, Prep Date: 02/25/2010, Matrix: WW, Dilution: 2

Surrogate	Flags	%Rec	LCL	UCL
2-Fluorophenol		94.70	10.0	110.0
2-Fluorobiphenyl		102.40	10.0	116.0
Nitrobenzene-D5		94.40	10.0	114.0
Phenol-D5		98.00	10.0	110.0
2,4,6-Tribromophenol		103.70	10.0	123.0
Terphenyl-D14		105.90	10.0	141.0

QC Report - Surrogates per QC Sample

Organics - Volatiles, Prep Batch ID: VF100301W1

Surrogates: Yes, QC Types: LCS/BLK/LCSD

Laboratory Control Sample (LCS)

Lab Sample ID: 100301a3.lcsw01a

Run in Batch: 100301A3, Run Date: 03/01/2010 13:21, Prep Date: 03/01/2010, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		100.50	78.4	119.6
1,2-Dichloroethane-D4		109.40	66.4	124.8
Toluene-D8		107.20	82.5	118.4

Blank (BLK)

Lab Sample ID: 100301a3.blkw01a

Run in Batch: 100301A3, Run Date: 03/01/2010 14:52, Prep Date: 03/01/2010, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		102.60	78.4	119.6
1,2-Dichloroethane-D4		105.20	66.4	124.8
Toluene-D8		104.00	82.5	118.4

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: 100301a3.lcsw01b, Parent Sample ID: 100301a3.lcsw01a

Run in Batch: 100301A3, Run Date: 03/01/2010 13:39, Prep Date: 03/01/2010, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		99.90	78.4	119.6
1,2-Dichloroethane-D4		107.40	66.4	124.8
Toluene-D8		105.10	82.5	118.4

QC Report - Surrogates per QC Sample

Organics - Volatiles, Prep Batch ID: VF100302W1

Surrogates: Yes, QC Types: LCS/BLK/LCSD

Laboratory Control Sample (LCS)

Lab Sample ID: 100302c3.lcsw02a

Run in Batch: 100302C3, Run Date: 03/03/2010 00:26, Prep Date: 03/02/2010, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		90.00	78.4	119.6
1,2-Dichloroethane-D4		94.10	66.4	124.8
Toluene-D8		92.10	82.5	118.4

Blank (BLK)

Lab Sample ID: 100302c3.blkw02a

Run in Batch: 100302C3, Run Date: 03/03/2010 01:58, Prep Date: 03/02/2010, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		90.20	78.4	119.6
1,2-Dichloroethane-D4		90.30	66.4	124.8
Toluene-D8		92.10	82.5	118.4

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: 100302c3.lcsw02b, Parent Sample ID: 100302c3.lcsw02a

Run in Batch: 100302C3, Run Date: 03/03/2010 00:45, Prep Date: 03/02/2010, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		90.60	78.4	119.6
1,2-Dichloroethane-D4		94.00	66.4	124.8
Toluene-D8		92.10	82.5	118.4

QC Report - Batch QC Results

Extraction / Prep., Prep Batch ID: OGHEX100224W01

Surrogates: No, QC Types: BLK/LCS

Blank (BLK)

Lab Sample ID: OGHEX100224W01.LRB1

Run in Batch: OGHEX100224W01, Run Date: 02/24/2010 16:22, Prep Date: 02/24/2010, 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: OGHEX100224W01.LCS1

Run in Batch: OGHEX100224W01, Run Date: 02/24/2010 16:22, Prep Date: 02/24/2010, Matrix: Liquid, Dilution: 1

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

Laboratory Control Sample (LCS)

Lab Sample ID: OGHEX100224W01.LCS2

Run in Batch: OGHEX100224W01, Run Date: 02/24/2010 16:22, Prep Date: 02/24/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Oil & Grease n-Hexane Extract.		80	78	114

QC Report - Batch QC Results

Inorganics, Prep Batch ID: CN100224-W1

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

Blank (BLK)

Lab Sample ID: CN100224-W1.LRB1

Run in Batch: CN100224-W1, Run Date: 02/24/2010 12:30, Prep Date: 02/24/2010, Matrix: Liquid, Dilution: 1

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

Laboratory Control Sample (LCS)

Lab Sample ID: CN100224-W1.LCS1

Run in Batch: CN100224-W1, Run Date: 02/24/2010 12:36, Prep Date: 02/24/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Amenable Cyanide		98	90	110

Matrix Spike (MS)

Lab Sample ID: CN100224-W1.MS1, Parent Sample ID: S43449.01

Run in Batch: CN100224-W1, Run Date: 02/24/2010 12:42, Prep Date: 02/24/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Amenable Cyanide		93	80	120

Matrix Spike Duplicate (MSD)

Lab Sample ID: CN100224-W1.MSD1, Parent Sample ID: CN100224-W1.MS1

Run in Batch: CN100224-W1, Run Date: 02/24/2010 12:44, Prep Date: 02/24/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Amenable Cyanide		90	80	120	2	15

Duplicate (DUP)

Lab Sample ID: CN100224-W1.DP1, Parent Sample ID: S43449.01

Run in Batch: CN100224-W1, Run Date: 02/24/2010 12:40, Prep Date: 02/24/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	RPD	RPD CL
Amenable Cyanide		6	15

QC Report - Batch QC Results

Inorganics, Prep Batch ID: COD100301

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

Blank (BLK)

Lab Sample ID: COD100301.LRB1

Run in Batch: COD100301, Run Date: 03/01/2010 13:00, Prep Date: 03/01/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
COD		ND	1	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: COD100301.LCS1

Run in Batch: COD100301, Run Date: 03/01/2010 13:00, Prep Date: 03/01/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
COD		103	90	110

Matrix Spike (MS)

Lab Sample ID: COD100301.MS1, Parent Sample ID: S43444.01

Run in Batch: COD100301, Run Date: 03/01/2010 13:00, Prep Date: 03/01/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
COD		98	80	120

Duplicate (DUP)

Lab Sample ID: COD100301.DP1, Parent Sample ID: S43447.01

Run in Batch: COD100301, Run Date: 03/01/2010 13:00, Prep Date: 03/01/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	RPD	RPD CL
COD		1.2	20

QC Report - Batch QC Results

Inorganics, Prep Batch ID: PHL100225-W1

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

Blank (BLK)

Lab Sample ID: PHL100225-W1.LRB1

Run in Batch: PHL100225-W1, Run Date: 02/25/2010 15:00, Prep Date: 02/25/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Phenols		ND	0.01	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: PHL100225-W1.LCS1

Run in Batch: PHL100225-W1, Run Date: 02/25/2010 15:15, Prep Date: 02/25/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Phenols		96	90	110

Matrix Spike (MS)

Lab Sample ID: PHL100225-W1.MS1, Parent Sample ID: S43456.01

Run in Batch: PHL100225-W1, Run Date: 02/25/2010 15:35, Prep Date: 02/25/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Phenols		98	90	110

Duplicate (DUP)

Lab Sample ID: PHL100225-W1.DP1, Parent Sample ID: S43447.01

Run in Batch: PHL100225-W1, Run Date: 02/25/2010 15:25, Prep Date: 02/25/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	RPD	RPD CL
Phenols		<1	15

QC Report - Batch QC Results

Inorganics, Prep Batch ID: PHS100301

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

Blank (BLK)

Lab Sample ID: PHS100301.LRB1

Run in Batch: PHS100301, Run Date: 03/01/2010 12:00, Prep Date: 03/01/2010, Matrix: Liquid, Dilution: 1

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

Blank (BLK)

Lab Sample ID: PHS100301.LRB2

Run in Batch: PHS100301, Run Date: 03/01/2010 12:00, Prep Date: 03/01/2010, Matrix: Liquid, Dilution: 1

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

Laboratory Control Sample (LCS)

Lab Sample ID: PHS100301.LCS1

Run in Batch: PHS100301, Run Date: 03/01/2010 12:00, Prep Date: 03/01/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Total Phosphorus		97	90	110

Matrix Spike (MS)

Lab Sample ID: PHS100301.MS1, Parent Sample ID: S43466.02

Run in Batch: PHS100301, Run Date: 03/01/2010 21:00, Prep Date: 03/01/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Total Phosphorus		92	80	120

Duplicate (DUP)

Lab Sample ID: PHS100301.DP1, Parent Sample ID: S43437.01

Run in Batch: PHS100301, Run Date: 03/01/2010 21:00, Prep Date: 03/01/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	RPD	RPD CL
Total Phosphorus		8.7	20

QC Report - Batch QC Results

Inorganics, Prep Batch ID: TKN100225

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

Blank (BLK)

Lab Sample ID: TKN100225.LRB1

Run in Batch: TKN100225, Run Date: 02/25/2010 15:00, Prep Date: 02/25/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Total Kjeldahl Nitrogen		ND	0.02	mg/L

Blank (BLK)

Lab Sample ID: TKN100225.LRB2

Run in Batch: TKN100225, Run Date: 02/25/2010 15:00, Prep Date: 02/25/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Total Kjeldahl Nitrogen		ND	0.1	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: TKN100225.LCS1

Run in Batch: TKN100225, Run Date: 02/25/2010 15:00, Prep Date: 02/25/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Total Kjeldahl Nitrogen		98	90	110

Matrix Spike (MS)

Lab Sample ID: TKN100225.MS1, Parent Sample ID: S43427.03

Run in Batch: TKN100225, Run Date: 02/25/2010 15:00, Prep Date: 02/25/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Total Kjeldahl Nitrogen		103	80	120

Duplicate (DUP)

Lab Sample ID: TKN100225.DP1, Parent Sample ID: S43393.03

Run in Batch: TKN100225, Run Date: 02/25/2010 15:00, Prep Date: 02/25/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	RPD	RPD CL
Total Kjeldahl Nitrogen		3.6	20

QC Report - Batch QC Results

Inorganics, Prep Batch ID: TSS100224

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

Blank (BLK)

Lab Sample ID: TSS100224.LRB1

Run in Batch: TSS100224, Run Date: 02/24/2010 09:30, Prep Date: 02/24/2010, Matrix: Liquid, Dilution: 1

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

Laboratory Control Sample (LCS)

Lab Sample ID: TSS100224.LCS1

Run in Batch: TSS100224, Run Date: 02/24/2010 09:30, Prep Date: 02/24/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Total Suspended Solids		108	90	110

Duplicate (DUP)

Lab Sample ID: TSS100224.DP1, Parent Sample ID: S43419.01

Run in Batch: TSS100224, Run Date: 02/24/2010 09:30, Prep Date: 02/24/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	RPD	RPD CL
Total Suspended Solids		0	15

QC Report - Batch QC Results

Metals, Prep Batch ID: HGD-022510-1

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

Laboratory Control Sample (LCS)

Lab Sample ID: HG2-10-0225A.013.LCS

Run in Batch: HG2-10-0225A, Run Date: 02/25/2010 15:14, Prep Date: 02/25/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Mercury		95	85	115

Blank (BLK)

Lab Sample ID: HG2-10-0225A.014.LRB

Run in Batch: HG2-10-0225A, Run Date: 02/25/2010 15:16, Prep Date: 02/25/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Mercury		ND	0.05	ug/L

Matrix Spike (MS)

Lab Sample ID: HG2-10-0225A.022.MS, Parent Sample ID: S43444.01

Run in Batch: HG2-10-0225A, Run Date: 02/25/2010 15:34, Prep Date: 02/25/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Mercury		99	80	120

Matrix Spike Duplicate (MSD)

Lab Sample ID: HG2-10-0225A.023.MSD, Parent Sample ID: HG2-10-0225A.022.MS

Run in Batch: HG2-10-0225A, Run Date: 02/25/2010 15:36, Prep Date: 02/25/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Mercury		98	80	120	1	20

QC Report - Batch QC Results

Metals, Prep Batch ID: MTD-022310-6

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

Laboratory Control Sample (LCS)

Lab Sample ID: MT-10-0223D.009.LCS

Run in Batch: MT-10-0223D, Run Date: 02/23/2010 16:12, Prep Date: 02/23/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Copper		104	85	115

Blank (BLK)

Lab Sample ID: MT-10-0223D.013.LRB

Run in Batch: MT-10-0223D, Run Date: 02/23/2010 16:22, Prep Date: 02/23/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Copper		ND	0.005	mg/L

Matrix Spike (MS)

Lab Sample ID: MT-10-0223D.017.MS, Parent Sample ID: S43447.01

Run in Batch: MT-10-0223D, Run Date: 02/23/2010 16:31, Prep Date: 02/23/2010, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL
Copper		112	75	125

Matrix Spike Duplicate (MSD)

Lab Sample ID: MT-10-0223D.018.MSD, Parent Sample ID: MT-10-0223D.017.MS

Run in Batch: MT-10-0223D, Run Date: 02/23/2010 16:34, Prep Date: 02/23/2010, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Copper		106	75	125	2	20

QC Report - Batch QC Results

Metals, Prep Batch ID: MTD-022410-3

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

Laboratory Control Sample (LCS)

Lab Sample ID: MT-10-0224A.010.LCS

Run in Batch: MT-10-0224A, Run Date: 02/24/2010 13:06, Prep Date: 02/24/2010, Matrix: Liquid, Dilution: 1

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

Blank (BLK)

Lab Sample ID: MT-10-0224A.014.LRB

Run in Batch: MT-10-0224A, Run Date: 02/24/2010 13:21, Prep Date: 02/24/2010, Matrix: Liquid, Dilution: 1

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

Matrix Spike (MS)

Lab Sample ID: MT-10-0224A.023.MS, Parent Sample ID: S43448.03

Run in Batch: MT-10-0224A, Run Date: 02/24/2010 14:16, Prep Date: 02/24/2010, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL
Arsenic		102	75	125
Chromium		108	75	125
Nickel		95	75	125
Zinc	*	48	75	125

Matrix Spike (MS)

Lab Sample ID: MT-10-0224A.026.MS, Parent Sample ID: S43448.03

Run in Batch: MT-10-0224A, Run Date: 02/24/2010 14:34, Prep Date: 02/24/2010, Matrix: Liquid, Dilution: 25

Analyte	Flags	% Rec	LCL	UCL
Zinc		117	75	125

Matrix Spike Duplicate (MSD)

Lab Sample ID: MT-10-0224A.024.MSD, Parent Sample ID: MT-10-0224A.023.MS

Run in Batch: MT-10-0224A, Run Date: 02/24/2010 13:58, Prep Date: 02/24/2010, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Arsenic		103	75	125	1	20
Chromium		112	75	125	4	20
Nickel		111	75	125	5	20
Zinc		84	75	125	1	20

Matrix Spike Duplicate (MSD)

Lab Sample ID: MT-10-0224A.027.MSD, Parent Sample ID: MT-10-0224A.026.MS

Run in Batch: MT-10-0224A, Run Date: 02/24/2010 14:38, Prep Date: 02/24/2010, Matrix: Liquid, Dilution: 25

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Zinc		102	75	125	3	20

QC Report - Batch QC Results

Organics - PCBs/Pesticides, Prep Batch ID: PA100224W01

Surrogates: Yes, QC Types: LCS/BLK/LCSD

Laboratory Control Sample (LCS)

Lab Sample ID: a10022507.slcs-w.01

Run in Batch: A100225, Run Date: 02/25/2010 11:56, Prep Date: 02/24/2010, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
PCB-1016/1260		92.02	59.1	123.7

Blank (BLK)

Lab Sample ID: a10022506.sblk-w.01

Run in Batch: A100225, Run Date: 02/25/2010 11:46, Prep Date: 02/24/2010, Matrix: WW, Dilution: 1

Analyte	Flags	Conc	RDL	Units
PCB-1016		ND	0.10	ug/L
PCB-1221		ND	0.10	ug/L
PCB-1232		ND	0.10	ug/L
PCB-1248		ND	0.10	ug/L
PCB-1254		ND	0.10	ug/L
PCB-1260		ND	0.10	ug/L
PCB-1242		ND	0.10	ug/L

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: a10022508.slcs-w.01d, Parent Sample ID: a10022507.slcs-w.01

Run in Batch: A100225, Run Date: 02/25/2010 12:07, Prep Date: 02/24/2010, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
PCB-1016/1260		94.30	59.1	123.7	2.4	20.0

QC Report - Batch QC Results

Organics - Semi-Volatiles, Prep Batch ID: SF100225W01

Surrogates: Yes, QC Types: LCS/BLK/LCSD

Laboratory Control Sample (LCS)

Lab Sample ID: z100227.lcsw27a

Run in Batch: Z100227, Run Date: 02/27/2010 16:30, Prep Date: 02/25/2010, Matrix: WW, Dilution: 2

Analyte	Flags	% Rec	LCL	UCL
2-Chlorophenol		85.02	14.0	123.0
4-Nitrophenol		85.68	10.0	110.0
Acenaphthene		88.64	26.4	118.0
4-Chloro-3-methylphenol		84.98	20.8	120.7
1,4-Dichlorobenzene		76.74	16.8	110.0
2,4-Dinitrotoluene		83.22	24.0	110.0
N-Nitrosodi-n-propylamine		82.80	31.3	119.6
Pentachlorophenol		46.70	10.0	110.9
Phenol		87.06	10.0	110.0
Pyrene		77.28	23.0	127.5
1,2,4-Trichlorobenzene		79.16	20.5	110.0

Blank (BLK)

Lab Sample ID: z100227.blkw27a

Run in Batch: Z100227, Run Date: 02/27/2010 15:56, Prep Date: 02/25/2010, Matrix: WW, Dilution: 2

Analyte	Flags	Conc	RDL	Units
Acenaphthene		ND	1	ug/l
Acenaphthylene		ND	1	ug/l
Anthracene		ND	1	ug/l
Benzidine		ND	1	ug/l
Benzo(a)anthracene		ND	1	ug/l
Benzo(b)fluoranthene		ND	1	ug/l
Benzo(k)fluoranthene		ND	1	ug/l
Benzo(ghi)perylene		ND	1	ug/l
Benzo(a)pyrene		ND	1	ug/l
bis(2-Chloroethoxy)methane		ND	1	ug/l
bis(2-Chloroethyl)ether		ND	1	ug/l
bis(2-Chloroisopropyl)ether		ND	1	ug/l
bis(2-Ethylhexyl)phthalate		ND	1	ug/l
4-Bromophenyl phenyl ether		ND	1	ug/l
Butyl benzyl phthalate		ND	1	ug/l
2-Chloronaphthalene		ND	1	ug/l
4-Chloro-3-methylphenol		ND	1	ug/l
2-Chlorophenol		ND	1	ug/l
4-Chlorophenyl phenyl ether		ND	1	ug/l
Chrysene		ND	1	ug/l
Dibenzo(ah)anthracene		ND	1	ug/l
di-n-Butyl phthalate		ND	1	ug/l
1,2-Dichlorobenzene		ND	1	ug/l
1,3-Dichlorobenzene		ND	1	ug/l
1,4-Dichlorobenzene		ND	1	ug/l
3,3'-Dichlorobenzidine		ND	1	ug/l
2,4-Dichlorophenol		ND	1	ug/l
Diethyl phthalate		ND	1	ug/l
Dimethyl phthalate		ND	1	ug/l
2,4-Dimethylphenol		ND	1	ug/l

QC Report - Batch QC Results

Organics - Semi-Volatiles, Prep Batch ID: SF100225W01 (continued)

Surrogates: Yes, QC Types: LCS/BLK/LCSD

Blank (BLK) (continued)

Lab Sample ID: z100227.blkw27a

Run in Batch: Z100227, Run Date: 02/27/2010 15:56, Prep Date: 02/25/2010, Matrix: WW, Dilution: 2

Analyte	Flags	Conc	RDL	Units
2,4-Dinitrophenol		ND	4	ug/l
2,4-Dinitrotoluene		ND	1	ug/l
2,6-Dinitrotoluene		ND	1	ug/l
1,2-Diphenylhydrazine		ND	1	ug/l
Fluoranthene		ND	1	ug/l
Fluorene		ND	1	ug/l
Hexachlorobenzene		ND	1	ug/l
Hexachlorobutadiene		ND	1	ug/l
Hexachlorocyclopentadiene		ND	1	ug/l
Hexachloroethane		ND	1	ug/l
Indeno(1,2,3-cd)pyrene		ND	1	ug/l
Isophorone		ND	1	ug/l
Naphthalene		ND	1	ug/l
Nitrobenzene		ND	1	ug/l
2-Nitrophenol		ND	1	ug/l
4-Nitrophenol		ND	1	ug/l
N-Nitrosodimethylamine		ND	1	ug/l
N-Nitrosodiphenylamine		ND	1	ug/l
N-Nitrosodi-n-propylamine		ND	1	ug/l
Pentachlorophenol		ND	4	ug/l
Phenol		ND	1	ug/l
Pyrene		ND	1	ug/l
1,2,4-Trichlorobenzene		ND	1	ug/l
2,4,6-Trichlorophenol		ND	1	ug/l
Phenanthrene		ND	1	ug/l

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: z100227.lcsdw27a, Parent Sample ID: z100227.lcsw27a

Run in Batch: Z100227, Run Date: 02/27/2010 17:05, Prep Date: 02/25/2010, Matrix: WW, Dilution: 2

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
2-Chlorophenol		96.58	14.0	123.0	12.7	20.0
4-Nitrophenol		100.70	10.0	110.0	16.1	20.0
Acenaphthene		102.56	26.4	118.0	14.6	20.0
4-Chloro-3-methylphenol		98.52	20.8	120.7	14.8	20.0
1,4-Dichlorobenzene		86.66	16.8	110.0	12.1	20.0
2,4-Dinitrotoluene		97.58	24.0	110.0	15.9	20.0
N-Nitrosodi-n-propylamine		94.76	31.3	119.6	13.5	20.0
Pentachlorophenol		56.66	10.0	110.9	19.3	20.0
Phenol		100.28	10.0	110.0	14.1	20.0
Pyrene		89.54	23.0	127.5	14.7	20.0
1,2,4-Trichlorobenzene		89.14	20.5	110.0	11.9	20.0

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: VF100301W1

Surrogates: Yes, QC Types: LCS/BLK/LCSD

Laboratory Control Sample (LCS)

Lab Sample ID: 100301a3.lcsw01a

Run in Batch: 100301A3, Run Date: 03/01/2010 13:21, Prep Date: 03/01/2010, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Benzene	*	130.20	73.7	127.0
Chlorobenzene		127.70	75.0	130.0
1,1-Dichloroethene		139.36	59.9	145.0
Trichloroethene	*	130.40	71.0	121.2
Toluene	*	134.56	71.4	127.6

Blank (BLK)

Lab Sample ID: 100301a3.blkw01a

Run in Batch: 100301A3, Run Date: 03/01/2010 14:52, Prep Date: 03/01/2010, Matrix: WW, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Acrolein		ND	200	ug/l
Acrylonitrile		ND	1	ug/l
Benzene		ND	1	ug/l
Bromodichloromethane		ND	1	ug/l
Bromoform		ND	1	ug/l
Bromomethane		ND	1	ug/l
2-Chloroethylvinyl ether		ND	200	ug/l
Carbon tetrachloride		ND	1	ug/l
Chlorobenzene		ND	1	ug/l
Chloroethane		ND	1	ug/l
Chloroform		ND	1	ug/l
Chloromethane		ND	1	ug/l
1,1-Dichloroethane		ND	1	ug/l
1,1-Dichloroethene		ND	1	ug/l
1,2-Dichloroethane		ND	1	ug/l
1,2-Dichloropropane		ND	1	ug/l
cis-1,3-Dichloropropene		ND	1	ug/l
Dibromochloromethane		ND	1	ug/l
trans-1,2-Dichloroethene		ND	1	ug/l
trans-1,3-Dichloropropene		ND	1	ug/l
Ethylbenzene		ND	1	ug/l
Methylene chloride		ND	1	ug/l
1,1,1-Trichloroethane		ND	1	ug/l
1,1,1,2-Tetrachloroethane		ND	1	ug/l
1,1,2-Trichloroethane		ND	1	ug/l
Tetrachloroethene		ND	1	ug/l
Toluene		ND	1	ug/l
Trichloroethene		ND	1	ug/l
Vinyl chloride		ND	1	ug/l
o-Xylene		ND	1	ug/l
p,m-Xylene		ND	1	ug/l

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: VF100301W1 (continued)

Surrogates: Yes, QC Types: LCS/BLK/LCSD

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: 100301a3.lcsw01b, Parent Sample ID: 100301a3.lcsw01a

Run in Batch: 100301A3, Run Date: 03/01/2010 13:39, Prep Date: 03/01/2010, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Benzene	*	131.08	73.7	127.0	0.7	20.0
Chlorobenzene		126.90	75.0	130.0	0.6	20.0
1,1-Dichloroethene		142.70	59.9	145.0	2.4	20.0
Trichloroethene	*	131.12	71.0	121.2	0.6	20.0
Toluene	*	132.14	71.4	127.6	1.8	20.0

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: VF100302W1

Surrogates: Yes, QC Types: LCS/BLK/LCSD

Laboratory Control Sample (LCS)

Lab Sample ID: 100302c3.lcsw02a

Run in Batch: 100302C3, Run Date: 03/03/2010 00:26, Prep Date: 03/02/2010, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Benzene		108.32	73.7	127.0
Chlorobenzene		113.14	75.0	130.0
1,1-Dichloroethene		106.84	59.9	145.0
Trichloroethene		108.50	71.0	121.2
Toluene		111.10	71.4	127.6

Blank (BLK)

Lab Sample ID: 100302c3.blkw02a

Run in Batch: 100302C3, Run Date: 03/03/2010 01:58, Prep Date: 03/02/2010, Matrix: WW, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Acrolein		ND	10	ug/l
Acrylonitrile		ND	1	ug/l
Benzene		ND	1	ug/l
Bromodichloromethane		ND	1	ug/l
Bromoform		ND	1	ug/l
Bromomethane		ND	1	ug/l
2-Chloroethylvinyl ether		ND	1	ug/l
Carbon tetrachloride		ND	1	ug/l
Chlorobenzene		ND	1	ug/l
Chloroethane		ND	1	ug/l
Chloroform		ND	1	ug/l
Chloromethane		ND	1	ug/l
1,1-Dichloroethane		ND	1	ug/l
1,1-Dichloroethene		ND	1	ug/l
1,2-Dichloroethane		ND	1	ug/l
1,2-Dichloropropane		ND	1	ug/l
cis-1,3-Dichloropropene		ND	1	ug/l
Dibromochloromethane		ND	1	ug/l
trans-1,2-Dichloroethene		ND	1	ug/l
trans-1,3-Dichloropropene		ND	1	ug/l
Ethylbenzene		ND	1	ug/l
Methylene chloride		ND	1	ug/l
1,1,1-Trichloroethane		ND	1	ug/l
1,1,1,2-Tetrachloroethane		ND	1	ug/l
1,1,2-Trichloroethane		ND	1	ug/l
Tetrachloroethene		ND	1	ug/l
Toluene		ND	1	ug/l
Trichloroethene		ND	1	ug/l
Vinyl chloride		ND	1	ug/l
o-Xylene		ND	1	ug/l
p,m-Xylene		ND	1	ug/l

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: VF100302W1 (continued)

Surrogates: Yes, QC Types: LCS/BLK/LCSD

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: 100302c3.lcsw02b, Parent Sample ID: 100302c3.lcsw02a

Run in Batch: 100302C3, Run Date: 03/03/2010 00:45, Prep Date: 03/02/2010, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Benzene		111.08	73.7	127.0	2.5	20.0
Chlorobenzene		114.88	75.0	130.0	1.5	20.0
1,1-Dichloroethene		111.86	59.9	145.0	4.6	20.0
Trichloroethene		111.44	71.0	121.2	2.7	20.0
Toluene		114.48	71.4	127.6	3.0	20.0

Merit

Laboratories, Inc.

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

52427

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME <i>Cliff Yantz / M. Searest</i>		CONTACT NAME <input type="checkbox"/> SAME	
COMPANY <i>O'Brien & Gere</i>		COMPANY	
ADDRESS <i>37000 Grand River Ave Suite 260</i>		ADDRESS	
CITY <i>Farmington Hills</i>	STATE <i>MI</i>	ZIP CODE <i>48335</i>	CITY
PHONE NO.	FAX NO.	P.O. NO.	PHONE NO.
E-MAIL ADDRESS		P.O. NO.	
QUOTE NO.		P.O. NO.	

PROJECT NO./NAME <i>Coldwater Rd. PRCC</i>	SAMPLER(S) - PLEASE PRINT/SIGN NAME <i>Stephen DeLong</i>	ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)		SPECIAL INSTRUCTIONS/NOTES	
TURNAROUND TIME REQUIRED <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> OTHER	DELIVERABLES REQUIRED <input type="checkbox"/> STANDARD <input type="checkbox"/> LEVEL II <input type="checkbox"/> LEVEL III <input type="checkbox"/> OTHER		<i>BTEX Volatiles</i> <i>TKN by 629, 621, 620</i> <i>Total Metals</i> <i>Amenable Cyanides</i> <i>Phenol</i> <i>BOD, TSS</i> <i>TKN</i> <i>Total Phosphorus</i> <i>FOG</i>		<i>Only run for Copper on 24 hour TAT and notify contact with results. Hold other analysis until copper is run.</i>

MATRIX CODE	GW=GROUNDWATER SL=SLUDGE	WW=WASTEWATER O=OIL	S=SOIL A=AIR	L=LIQUID W=WASTE	SD=SOLID M=MISC	# Containers & Preservatives		ANALYSIS										SPECIAL INSTRUCTIONS/NOTES							
MERIT LAB NO.	20540		SAMPLE TAG IDENTIFICATION-DESCRIPTION			MATRIX	# OF BOTTLES	NONE	HCL	HNO3	H2SO4	NaOH	MeOH	OTHER	BTEX Volatiles	TKN by 629, 621, 620	Total Metals		Amenable Cyanides	Phenol	BOD, TSS	TKN	Total Phosphorus	FOG	
43447.01	2/23	10:15	01-PRCC-10			WW	12	4	3	1	3	1				X	X	X	X	X	X	X	X	X	Metals anal: As, Cr, Cu, Hg, Ni, Zn
																								Field pH: 8.13	
																								Analysis per city of Flint permit	

RELINQUISHED BY: SIGNATURE/ORGANIZATION <i>[Signature]</i> OBS	DATE <i>2/23/10</i>	TIME <i>10:50</i>	RELINQUISHED BY: SIGNATURE/ORGANIZATION <i>[Signature]</i>	DATE <i>2/23/10</i>	TIME <i>13:10</i>		
RECEIVED BY: SIGNATURE/ORGANIZATION <i>[Signature]</i>	DATE <i>2/23/10</i>	TIME <i>10:50</i>	RECEIVED BY: SIGNATURE/ORGANIZATION <i>[Signature]</i>	DATE <i>2/23/10</i>	TIME <i>13:40</i>		
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME	SEAL NO.	SEAL INTACT YES <input type="checkbox"/> NO <input type="checkbox"/>	INITIALS	NOTES:	TEMP. ON ARRIVAL <i>4.2</i>
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME	SEAL NO.	SEAL INTACT YES <input type="checkbox"/> NO <input type="checkbox"/>	INITIALS		

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