



October 18, 2010

Mr. Tom Hutchings

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

SUBJECT: DISCHARGE PERMIT SUBMITTAL- JULY 2010 THROUGH SEPTEMBER 2010

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 July 1, 2010 to September 30, 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 August 18, 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.

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: July 1, 2010 through September 30, 2010

Average Volume of Daily Discharge (during reporting period): 3,615 gallons per day.
(1 day)

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: _____

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	3	101	3.5	0.04	8	1
Test Method	10360	EPA 410.4	EPA 4500	EPA 4500	EPA 2540	1664A
Test Date	8/24/2010	8/19/2010	8/19/2010	8/23/2010	8/23/2010	8/19/2010
Sample Date	8/18/2010	8/18/2010	8/18/2010	8/18/2010	8/18/2010	8/18/2010
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	8.86	0.007	0.023	0.552	<0.0002	0.104
Test Method	EPA 4500	200.8	200.8	200.8	245.1	200.8
Test Date	8/18/2010	8/19/2010	8/19/2010	8/19/2010	8/19/2010	8/19/2010
Sample Date	8/18/2010	8/18/2010	8/18/2010	8/18/2010	8/18/2010	8/18/2010
Sample Type	Grab	Grab	Grab	Grab	Grab	Grab

Analytical Parameter	Zn, T	Cyanide, A	Phenol	BTEX	TTO
Unit of Measure	mg/L	mg/L	mg/L	mg/L	mg/L
Limitation	6.4	0.065	20	0.020	No limitation
Test Result	0.023	<0.005	<0.02	<0.006	Not Detected
Test Method(s)	200.8	EPA 4500-CN-G	EPA 420.1	624	624, 625, 608
Test Date	8/19/2010	8/23/2010	8/20/2010	8/19/2010	8/19/10, 8/23/10, 8/24/10
Sample Date	8/18/2010	8/18/2010	8/18/2010	8/18/2010	8/18/2010
Sample Type	Grab	Grab	Grab	Grab	Grab

Table 2
REALM - Coldwater Road Landfill
Daily Discharge Summary Table
Third 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)	
8/30/2010	434,316	437,931	3,615	9:58	15:09	11.6	25.7	78.3	8.86

Total Discharge Volume: **3,615**
Average Volume per Discharge: **3,615**

NOTES :



Analytical Laboratory Report

Report ID: S45330.01(01)
Generated on 08/25/2010

Report to

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

Phone: 248-477-5701 FAX:
Email: YantzCS@obg.com/SchneiKB@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): S45330.01
Project: Coldwater Rd. PRCC
Collected Date: 08/18/2010
Submitted Date/Time: 08/18/2010 15:10
Sampled by: Kevin Schneider
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.

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
S45330.01	03-PRCC-10	Wastewater	08/18/2010 11:00



Analytical Laboratory Report

Lab Sample ID: S45330.01
Sample Tag: 03-PRCC-10
Collected Date/Time: 08/18/2010 11:00
Matrix: Wastewater
COC Reference: 042298

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40 ml Glass	HCL	Yes	5.0	IR
1	32 oz Glass	HCL	Yes	5.0	IR
1	125ml Plastic	NaOH	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR
2	250ml Plastic	H2SO4	Yes	5.0	IR
3	1 L Amber	None	Yes	5.0	IR
1	1L Plastic	None	Yes	5.0	IR
1	125ml Amber	H2SO4	Yes	5.0	IR

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

BNA Extraction	Completed			3510C	08/21/10 20:31	EMR		
Extraction, PCB	Completed			3510C	08/19/10 12:04	ADB		
Mercury Digestion	Completed			7471A	08/19/10 09:30	JRT		
Metal Digestion	Completed			3015A	08/19/10 12:00	SLS		
Pesticides Extraction	Completed			3510C	08/19/10 12:03	ADB		

Inorganics

Amenable Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-G	08/23/10 13:16	JDP	57-12-5AM	
Ammonia-N	1.52	mg/L	0.04	4500-NH3 D	08/24/10 16:00	MJC	7664-41-7	
COD	101	mg/L	5	410.4	08/19/10 12:00	MJC		
Field pH	8.30	STD Units	0.01	4500-H+ B	08/18/10 11:00	OBG		
Oil & Grease n-Hexane Extract.	1	mg/L	1	1664A	08/19/10 15:12	DJS		
Phenols	Not detected	mg/L	0.02	420.1	08/20/10 14:50	JKB		
TBOD5 - Set	Completed	mg/L		10360	08/19/10 10:00	DJS		
TBOD5	3	mg/L	1	10360	08/24/10 10:30	DJS		
Total Kjeldahl Nitrogen	3.5	mg/L	0.1	4500-N(org)/NH3	08/19/10 15:00	MJC		
Total Phosphorus	0.04	mg/L	0.01	4500-PE	08/23/10 17:22	MJC	7723-14-0	
Total Suspended Solids	8	mg/L	1	2540 D	08/23/10 09:00	DJS		

Metals

Arsenic	0.007	mg/L	0.002	200.8	08/19/10 14:32	SLS	7440-38-2	
Chromium	0.023	mg/L	0.005	200.8	08/19/10 14:32	SLS	7440-47-3	
Copper	0.552	mg/L	0.004	200.8	08/19/10 14:32	SLS	7440-50-8	
Mercury	Not detected	mg/L	0.0002	245.1	08/19/10 13:46	JRT	7439-97-6	
Nickel	0.104	mg/L	0.005	200.8	08/19/10 14:32	SLS	7440-02-0	
Zinc	0.023	mg/L	0.005	200.8	08/19/10 14:32	SLS	7440-66-6	

Organics - PCBs/Pesticides

Pesticides and PCBs, TTO

Aldrin	Not detected	ug/L	0.02	608	08/19/10 14:42	JANB	309-00-2	
a-BHC	Not detected	ug/L	0.02	608	08/19/10 14:42	JANB	319-84-6	
b-BHC	Not detected	ug/L	0.02	608	08/19/10 14:42	JANB	319-85-7	
d-BHC	Not detected	ug/L	0.02	608	08/19/10 14:42	JANB	319-86-8	
g-BHC	Not detected	ug/L	0.02	608	08/19/10 14:42	JANB	58-89-9	
Chlordane	Not detected	ug/L	0.02	608	08/19/10 14:42	JANB	57-74-9	
4,4'-DDD	Not detected	ug/L	0.02	608	08/19/10 14:42	JANB	72-54-8	



Analytical Laboratory Report

Lab Sample ID: S45330.01 (continued)

Sample Tag: 03-PRCC-10

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - PCBs/Pesticides (continued)								
Pesticides and PCBs, TTO (continued)								
4,4'-DDE	Not detected	ug/L	0.02	608	08/19/10 14:42	JANB	72-55-9	
4,4'-DDT	Not detected	ug/L	0.02	608	08/19/10 14:42	JANB	50-29-3	
Dieldrin	Not detected	ug/L	0.02	608	08/19/10 14:42	JANB	60-57-1	
Endosulfan I	Not detected	ug/L	0.02	608	08/19/10 14:42	JANB	959-98-8	
Endosulfan II	Not detected	ug/L	0.02	608	08/19/10 14:42	JANB	33213-65-9	
Endosulfan sulfate	Not detected	ug/L	0.02	608	08/19/10 14:42	JANB	1031-07-8	
Endrin	Not detected	ug/L	0.02	608	08/19/10 14:42	JANB	72-20-8	
Endrin aldehyde	Not detected	ug/L	0.02	608	08/19/10 14:42	JANB	7421-93-4	
Heptachlor	Not detected	ug/L	0.02	608	08/19/10 14:42	JANB	76-44-8	
Heptachlor epoxide	Not detected	ug/L	0.02	608	08/19/10 14:42	JANB	1024-57-3	
Toxaphene	Not detected	ug/L	1	608	08/19/10 14:42	JANB	8001-35-2	
PCB-1016	Not detected	ug/L	0.1	608	08/19/10 14:42	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	08/19/10 14:42	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	08/19/10 14:42	JANB	11141-16-5	
PCB-1248	Not detected	ug/L	0.1	608	08/19/10 14:42	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	08/19/10 14:42	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	08/19/10 14:42	JANB	11096-82-5	
PCB-1242	Not detected	ug/L	0.1	608	08/19/10 14:42	JANB	53469-21-9	
Total PCBs	Not detected	ug/L	0.1	608	08/19/10 14:42	JANB	1336-36-3	
Organics - Semi-Volatiles								
SVOCs, TTO List								
Acenaphthene	Not detected	ug/L	10	625M	08/23/10 14:07	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	10	625M	08/23/10 14:07	PL	208-96-8	
Anthracene	Not detected	ug/L	10	625M	08/23/10 14:07	PL	120-12-7	
Benzidine	Not detected	ug/L	10	625M	08/23/10 14:07	PL	92-87-5	
Benzo(a)anthracene	Not detected	ug/L	10	625M	08/23/10 14:07	PL	56-55-3	
Benzo(b)fluoranthene	Not detected	ug/L	10	625M	08/23/10 14:07	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	10	625M	08/23/10 14:07	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	10	625M	08/23/10 14:07	PL	191-24-2	
Benzo(a)pyrene	Not detected	ug/L	10	625M	08/23/10 14:07	PL	50-32-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	10	625M	08/23/10 14:07	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	10	625M	08/23/10 14:07	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	10	625M	08/23/10 14:07	PL	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	10	625M	08/23/10 14:07	PL	117-81-7	
4-Bromophenyl phenyl ether	Not detected	ug/L	10	625M	08/23/10 14:07	PL	101-55-3	
Butyl benzyl phthalate	Not detected	ug/L	10	625M	08/23/10 14:07	PL	85-68-7	
2-Chloronaphthalene	Not detected	ug/L	10	625M	08/23/10 14:07	PL	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/L	10	625M	08/23/10 14:07	PL	59-50-7	
2-Chlorophenol	Not detected	ug/L	10	625M	08/23/10 14:07	PL	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	10	625M	08/23/10 14:07	PL	7005-72-3	
Chrysene	Not detected	ug/L	10	625M	08/23/10 14:07	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	10	625M	08/23/10 14:07	PL	53-70-3	
di-n-Butyl phthalate	Not detected	ug/L	10	625M	08/23/10 14:07	PL	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/L	10	625M	08/23/10 14:07	PL	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	10	625M	08/23/10 14:07	PL	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	10	625M	08/23/10 14:07	PL	106-46-7	
3,3'-Dichlorobenzidine	Not detected	ug/L	10	625M	08/23/10 14:07	PL	91-94-1	
2,4-Dichlorophenol	Not detected	ug/L	10	625M	08/23/10 14:07	PL	120-83-2	



Analytical Laboratory Report

Lab Sample ID: S45330.01 (continued)

Sample Tag: 03-PRCC-10

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
SVOCs, TTO List (continued)								
Diethyl phthalate	Not detected	ug/L	10	625M	08/23/10 14:07	PL	84-66-2	
Dimethyl phthalate	Not detected	ug/L	10	625M	08/23/10 14:07	PL	131-11-3	
2,4-Dimethylphenol	Not detected	ug/L	10	625M	08/23/10 14:07	PL	105-67-9	
2,4-Dinitrophenol	Not detected	ug/L	10	625M	08/23/10 14:07	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	10	625M	08/23/10 14:07	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	10	625M	08/23/10 14:07	PL	606-20-2	
di-n-Octyl phthalate	Not detected	ug/L	10	625M	08/23/10 14:07	PL	117-84-0	
1,2-Diphenylhydrazine	Not detected	ug/L	10	625M	08/23/10 14:07	PL	122-66-7	
Fluoranthene	Not detected	ug/L	10	625M	08/23/10 14:07	PL	206-44-0	
Fluorene	Not detected	ug/L	10	625M	08/23/10 14:07	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/L	10	625M	08/23/10 14:07	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/L	10	625M	08/23/10 14:07	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	10	625M	08/23/10 14:07	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	10	625M	08/23/10 14:07	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	10	625M	08/23/10 14:07	PL	193-39-5	
Isophorone	Not detected	ug/L	10	625M	08/23/10 14:07	PL	78-59-1	
Naphthalene	Not detected	ug/L	10	625M	08/23/10 14:07	PL	91-20-3	
Nitrobenzene	Not detected	ug/L	10	625M	08/23/10 14:07	PL	98-95-3	
2-Nitrophenol	Not detected	ug/L	10	625M	08/23/10 14:07	PL	88-75-5	
4-Nitrophenol	Not detected	ug/L	10	625M	08/23/10 14:07	PL	100-02-7	
N-Nitrosodimethylamine	Not detected	ug/L	10	625M	08/23/10 14:07	PL	62-75-9	
N-Nitrosodiphenylamine	Not detected	ug/L	10	625M	08/23/10 14:07	PL	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	ug/L	10	625M	08/23/10 14:07	PL	621-64-7	
Pentachlorophenol	Not detected	ug/L	10	625M	08/23/10 14:07	PL	87-86-5	
2-Methyl-4,6-dinitrophenol	Not detected	ug/L	10	625M	08/23/10 14:07	PL	534-52-1	
Phenol	Not detected	ug/L	10	625M	08/23/10 14:07	PL	108-95-2	
Pyrene	Not detected	ug/L	10	625M	08/23/10 14:07	PL	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/L	10	625M	08/23/10 14:07	PL	120-82-1	
2,4,6-Trichlorophenol	Not detected	ug/L	10	625M	08/23/10 14:07	PL	88-06-2	
Phenanthrene	Not detected	ug/L	10	625M	08/23/10 14:07	PL	85-01-8	
TCDD	Not detected	ug/L	10	625M	08/23/10 14:07	PL	1746-01-6	

Organics - Volatiles

BTEX with total

Benzene	Not detected	ug/L	1	624	08/19/10 21:18	JGH	71-43-2	
Toluene	Not detected	ug/L	1	624	08/19/10 21:18	JGH	108-88-3	
Ethylbenzene	Not detected	ug/L	1	624	08/19/10 21:18	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	624	08/19/10 21:18	JGH		
o-Xylene	Not detected	ug/L	1	624	08/19/10 21:18	JGH	95-47-6	
Total BTEX	Not detected	ug/L	6	624	08/19/10 21:18	JGH		

VOCs, TTO List

Acrolein	Not detected	ug/L	10	624	08/24/10 22:06	JGH	107-02-8	
Acrylonitrile	Not detected	ug/L	1	624	08/24/10 22:06	JGH	107-13-1	
Benzene	Not detected	ug/L	1	624	08/24/10 22:06	JGH	71-43-2	
Bromodichloromethane	Not detected	ug/L	1	624	08/24/10 22:06	JGH	75-27-4	
Bromoform	Not detected	ug/L	1	624	08/24/10 22:06	JGH	75-25-2	
Bromomethane	Not detected	ug/L	1	624	08/24/10 22:06	JGH	74-83-9	
Carbon tetrachloride	Not detected	ug/L	1	624	08/24/10 22:06	JGH	56-23-5	



Analytical Laboratory Report

Lab Sample ID: S45330.01 (continued)

Sample Tag: 03-PRCC-10

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
VOCs, TTO List (continued)								
Chlorobenzene	Not detected	ug/L	1	624	08/24/10 22:06	JGH	108-90-7	
Chloroethane	Not detected	ug/L	1	624	08/24/10 22:06	JGH	75-00-3	
2-Chloroethylvinyl ether	Not detected	ug/L	1	624	08/24/10 22:06	JGH	110-75-8	
Chloroform	Not detected	ug/L	1	624	08/24/10 22:06	JGH	67-66-3	
Chloromethane	Not detected	ug/L	1	624	08/24/10 22:06	JGH	74-87-3	
Dibromochloromethane	Not detected	ug/L	1	624	08/24/10 22:06	JGH	124-48-1	
1,1-Dichloroethane	Not detected	ug/L	1	624	08/24/10 22:06	JGH	75-34-3	
1,2-Dichloroethane	Not detected	ug/L	1	624	08/24/10 22:06	JGH	107-06-2	
1,1-Dichloroethene	Not detected	ug/L	1	624	08/24/10 22:06	JGH	75-35-4	
trans-1,2-Dichloroethene	Not detected	ug/L	1	624	08/24/10 22:06	JGH	156-60-5	
1,2-Dichloropropane	Not detected	ug/L	1	624	08/24/10 22:06	JGH	78-87-5	
cis-1,3-Dichloropropene	Not detected	ug/L	1	624	08/24/10 22:06	JGH	10061-01-5	
trans-1,3-Dichloropropene	Not detected	ug/L	1	624	08/24/10 22:06	JGH	10061-02-6	
Ethylbenzene	Not detected	ug/L	1	624	08/24/10 22:06	JGH	100-41-4	
Methylene chloride	Not detected	ug/L	5	624	08/24/10 22:06	JGH	75-09-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	624	08/24/10 22:06	JGH	79-34-5	
Tetrachloroethene	Not detected	ug/L	1	624	08/24/10 22:06	JGH	127-18-4	
Toluene	Not detected	ug/L	1	624	08/24/10 22:06	JGH	108-88-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	624	08/24/10 22:06	JGH	71-55-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	624	08/24/10 22:06	JGH	79-00-5	
Trichloroethene	Not detected	ug/L	1	624	08/24/10 22:06	JGH	79-01-6	
Vinyl chloride	Not detected	ug/L	1	624	08/24/10 22:06	JGH	75-01-4	



Quality Control Report

Report ID: QC-S45330.01(01)

Generated on 08/27/2010

Report to

Attention: Clifford Yantz/Kevin Schneider
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): S45330.01
Project: Coldwater Rd. PRCC
Submitted Date/Time: 08/18/2010 15:10
Sampled by: Kevin Schneider
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 10-25)

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: S45330.01

Sample Tag: 03-PRCC-10

Collected Date/Time: 08/18/2010 11:00

Matrix: Wastewater

COC Reference: 042298

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Inorganics						
Amenable Cyanide	335.4/4500-CN-G	08/23/10 13:16	CN100823-W1	CN100823-W1	No	BLK/LCS/MS/MSD/DUP
Ammonia-N	4500-NH3 D	08/24/10 16:00	AMN100824	AMN100824	No	BLK/MS/DUP
COD	410.4	08/19/10 12:00	COD100819	COD100819	No	BLK/LCS/MS/DUP
Oil & Grease n-Hexane Extract.	1664A	08/19/10 15:12	OGHEX100819W02	OGHEX100819W02	No	BLK/LCS
Phenols	420.1	08/20/10 14:50	PHL100820-W1	PHL100820-W1	No	BLK/LCS/MS/DUP
Total Kjeldahl Nitrogen	4500-N(org)/NH3	08/19/10 15:00	TKN100819	TKN100819	No	BLK/LCS/MS/DUP
Total Phosphorus	4500-PE	08/23/10 17:22	PHS100823	PHS100823	No	BLK/LCS/MS/DUP
Total Suspended Solids	2540 D	08/23/10 09:00	TSS100823W02	TSS100823W02	No	BLK/LCS/DUP
Metals						
Arsenic	200.8	08/19/10 14:32	MT3-10-0819B	MTD-081910-4	No	LCS/BLK/MS/MSD
Chromium	200.8	08/19/10 14:32	MT3-10-0819B	MTD-081910-4	No	LCS/BLK/MS/MSD
Copper	200.8	08/19/10 14:32	MT3-10-0819B	MTD-081910-4	No	LCS/BLK/MS/MSD
Mercury	245.1	08/19/10 13:46	HG2-10-0819A	HGD-081910-1	No	LCS/BLK/MS/MSD
Nickel	200.8	08/19/10 14:32	MT3-10-0819B	MTD-081910-4	No	LCS/BLK/MS/MSD
Zinc	200.8	08/19/10 14:32	MT3-10-0819B	MTD-081910-4	No	LCS/BLK/MS/MSD
Organics - PCBs/Pesticides						
Pesticides and PCBs, TTO	608	08/19/10 14:42	F100819	PA100819W01	Yes	LCS/BLK/LCSD
Organics - Semi-Volatiles						
SVOCs, TTO List	625M	08/23/10 14:07	H100823	SF100821W01	Yes	LCS/BLK/LCSD
Organics - Volatiles						
BTEX with total	624	08/19/10 21:18	100819A3	VF100819W2	Yes	LCS/BLK/LCSD
VOCs, TTO List	624	08/24/10 22:06	100824B5	VF100824W3	Yes	LCS/BLK/LCSD

QC Report - Prep Batch Summary

Inorganics, Prep Batch ID: AMN100824

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

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S45330.01	Ammonia-N	4500-NH3 D	08/24/10 16:00	AMN100824

Inorganics, Prep Batch ID: CN100823-W1

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

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S45330.01	Amenable Cyanide	335.4/4500-CN-G	08/23/10 13:16	CN100823-W1

Inorganics, Prep Batch ID: COD100819

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

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S45330.01	COD	410.4	08/19/10 12:00	COD100819

Inorganics, Prep Batch ID: OGHEX100819W02

Surrogates: No, QC Types: BLK/LCS

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S45330.01	Oil & Grease n-Hexane Extract.	1664A	08/19/10 15:12	OGHEX100819W02

Inorganics, Prep Batch ID: PHL100820-W1

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

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S45330.01	Phenols	420.1	08/20/10 14:50	PHL100820-W1

Inorganics, Prep Batch ID: PHS100823

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

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S45330.01	Total Phosphorus	4500-PE	08/23/10 17:22	PHS100823

Inorganics, Prep Batch ID: TKN100819

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

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S45330.01	Total Kjeldahl Nitrogen	4500-N(org)/NH3	08/19/10 15:00	TKN100819

Inorganics, Prep Batch ID: TSS100823W02

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

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S45330.01	Total Suspended Solids	2540 D	08/23/10 09:00	TSS100823W02

Metals, Prep Batch ID: HGD-081910-1

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

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S45330.01	Mercury	245.1	08/19/10 13:46	HG2-10-0819A

Metals, Prep Batch ID: MTD-081910-4

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

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S45330.01	Arsenic	200.8	08/19/10 14:32	MT3-10-0819B
S45330.01	Chromium	200.8	08/19/10 14:32	MT3-10-0819B
S45330.01	Copper	200.8	08/19/10 14:32	MT3-10-0819B
S45330.01	Nickel	200.8	08/19/10 14:32	MT3-10-0819B
S45330.01	Zinc	200.8	08/19/10 14:32	MT3-10-0819B

QC Report - Prep Batch Summary

Organics - PCBs/Pesticides, Prep Batch ID: PA100819W01

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

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S45330.01	Pesticides and PCBs, TTO	608	08/19/10 14:42	F100819

Organics - Semi-Volatiles, Prep Batch ID: SF100821W01

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

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S45330.01	SVOCs, TTO List	625M	08/23/10 14:07	H100823

Organics - Volatiles, Prep Batch ID: VF100819W2

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

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S45330.01	BTEX with total	624	08/19/10 21:18	100819A3

Organics - Volatiles, Prep Batch ID: VF100824W3

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

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S45330.01	VOCs, TTO List	624	08/24/10 22:06	100824B5

QC Report - Surrogates per Lab Sample

Lab Sample ID: S45330.01

Sample Tag: 03-PRCC-10

Collected Date/Time: 08/18/2010 11:00

Matrix: Wastewater

COC Reference: 042298

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

Run in Batch: F100819, Run Date: 08/19/2010 14:42, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
TCX		68.60	34.1	137.1
DCB2		62.60	30.0	138.6

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

Run in Batch: H100823, Run Date: 08/23/2010 14:07, Matrix: WW, Dilution: 10

Surrogate	Flags	%Rec	LCL	UCL
2-Fluorophenol		49.60	10.0	110.0
2-Fluorobiphenyl		83.10	10.0	116.0
Nitrobenzene-D5		70.10	10.0	114.0
Phenol-D5		40.10	10.0	110.0
2,4,6-Tribromophenol		94.70	10.0	123.0
Terphenyl-D14		94.50	10.0	141.0

Organics - Volatiles, Analysis: BTEX with total

Run in Batch: 100819A3, Run Date: 08/19/2010 21:18, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		97.60	78.4	119.6
1,2-Dichloroethane-D4		102.60	66.4	124.8
Toluene-D8		100.60	82.5	118.4

Organics - Volatiles, Analysis: VOCs, TTO List

Run in Batch: 100824B5, Run Date: 08/24/2010 22:06, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		105.50	78.4	119.6
1,2-Dichloroethane-D4		104.10	66.4	124.8
Toluene-D8		106.00	82.5	118.4

QC Report - Surrogates per QC Sample

Organics - PCBs/Pesticides, Prep Batch ID: PA100819W01

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

Laboratory Control Sample (LCS)

Lab Sample ID: f10081906.slcs-w.01

Run in Batch: F100819, Run Date: 08/19/2010 09:57, Prep Date: 08/19/2010, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
TCX		86.00	34.1	137.1
DCB2		79.90	30.0	138.6

Blank (BLK)

Lab Sample ID: f10081908.sblk-w.01

Run in Batch: F100819, Run Date: 08/19/2010 10:17, Prep Date: 08/19/2010, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
TCX		75.70	34.1	137.1
DCB2		81.30	30.0	138.6

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: f10081907.slcs-w.01d, Parent Sample ID: f10081906.slcs-w.01

Run in Batch: F100819, Run Date: 08/19/2010 10:07, Prep Date: 08/19/2010, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
TCX		84.30	34.1	137.1
DCB2		76.00	30.0	138.6

QC Report - Surrogates per QC Sample

Organics - Semi-Volatiles, Prep Batch ID: SF100821W01

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

Laboratory Control Sample (LCS)

Lab Sample ID: h100823.lcsw23a

Run in Batch: H100823, Run Date: 08/23/2010 10:45, Prep Date: 08/21/2010, Matrix: WW, Dilution: 2

Surrogate	Flags	%Rec	LCL	UCL
2-Fluorophenol		75.90	10.0	110.0
2-Fluorobiphenyl		81.50	10.0	116.0
Nitrobenzene-D5		77.10	10.0	114.0
Phenol-D5		78.90	10.0	110.0
2,4,6-Tribromophenol		92.00	10.0	123.0
Terphenyl-D14		91.00	10.0	141.0

Blank (BLK)

Lab Sample ID: h100823.blkw23a

Run in Batch: H100823, Run Date: 08/23/2010 09:48, Prep Date: 08/21/2010, Matrix: WW, Dilution: 2

Surrogate	Flags	%Rec	LCL	UCL
2-Fluorophenol		49.60	10.0	110.0
2-Fluorobiphenyl		74.10	10.0	116.0
Nitrobenzene-D5		71.80	10.0	114.0
Phenol-D5		37.10	10.0	110.0
2,4,6-Tribromophenol		90.70	10.0	123.0
Terphenyl-D14		95.80	10.0	141.0

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: h100823.lcsdw23a, Parent Sample ID: h100823.lcsw23a

Run in Batch: H100823, Run Date: 08/23/2010 11:14, Prep Date: 08/21/2010, Matrix: WW, Dilution: 2

Surrogate	Flags	%Rec	LCL	UCL
2-Fluorophenol		84.90	10.0	110.0
2-Fluorobiphenyl		91.20	10.0	116.0
Nitrobenzene-D5		85.90	10.0	114.0
Phenol-D5		88.30	10.0	110.0
2,4,6-Tribromophenol		102.80	10.0	123.0
Terphenyl-D14		100.60	10.0	141.0

QC Report - Surrogates per QC Sample

Organics - Volatiles, Prep Batch ID: VF100819W2

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

Laboratory Control Sample (LCS)

Lab Sample ID: 100819a3.lcsw19a

Run in Batch: 100819A3, Run Date: 08/19/2010 12:30, Prep Date: 08/19/2010, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		101.60	78.4	119.6
1,2-Dichloroethane-D4		100.60	66.4	124.8
Toluene-D8		99.90	82.5	118.4

Blank (BLK)

Lab Sample ID: 100819a3.blkw19a

Run in Batch: 100819A3, Run Date: 08/19/2010 14:01, Prep Date: 08/19/2010, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		97.30	78.4	119.6
1,2-Dichloroethane-D4		100.70	66.4	124.8
Toluene-D8		98.60	82.5	118.4

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: 100819a3.lcsw19b, Parent Sample ID: 100819a3.lcsw19a

Run in Batch: 100819A3, Run Date: 08/19/2010 12:48, Prep Date: 08/19/2010, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		100.90	78.4	119.6
1,2-Dichloroethane-D4		101.20	66.4	124.8
Toluene-D8		100.00	82.5	118.4

QC Report - Surrogates per QC Sample

Organics - Volatiles, Prep Batch ID: VF100824W3

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

Laboratory Control Sample (LCS)

Lab Sample ID: 100824b5.lcsw24a

Run in Batch: 100824B5, Run Date: 08/24/2010 18:47, Prep Date: 08/24/2010, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		107.00	78.4	119.6
1,2-Dichloroethane-D4		103.70	66.4	124.8
Toluene-D8		105.50	82.5	118.4

Laboratory Control Sample (LCS)

Lab Sample ID: 100824c5.lcsg24a

Run in Batch: 100824C5, Run Date: 08/24/2010 19:27, Prep Date: 08/24/2010, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
No Surrogates				

Blank (BLK)

Lab Sample ID: 100824b5.blkw24a

Run in Batch: 100824B5, Run Date: 08/24/2010 21:07, Prep Date: 08/24/2010, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		103.90	78.4	119.6
1,2-Dichloroethane-D4		102.40	66.4	124.8
Toluene-D8		104.10	82.5	118.4

Blank (BLK)

Lab Sample ID: 100824c5.blkw24a

Run in Batch: 100824C5, Run Date: 08/24/2010 21:07, Prep Date: 08/24/2010, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
No Surrogates				

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: 100824b5.lcsw24b, Parent Sample ID: 100824b5.lcsw24a

Run in Batch: 100824B5, Run Date: 08/24/2010 19:07, Prep Date: 08/24/2010, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
4-Bromofluorobenzene		107.30	78.4	119.6
1,2-Dichloroethane-D4		105.10	66.4	124.8
Toluene-D8		105.50	82.5	118.4

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: 100824c5.lcsg24b, Parent Sample ID: 100824c5.lcsg24a

Run in Batch: 100824C5, Run Date: 08/24/2010 19:47, Prep Date: 08/24/2010, Matrix: WW, Dilution: 1

Surrogate	Flags	%Rec	LCL	UCL
No Surrogates				

QC Report - Batch QC Results

Inorganics, Prep Batch ID: AMN100824

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

Blank (BLK)

Lab Sample ID: AMN100824.LRB1

Run in Batch: AMN100824, Run Date: 08/24/2010 16:00, Prep Date: 08/24/2010, Matrix: Liquid, Dilution: 1

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

Matrix Spike (MS)

Lab Sample ID: AMN100824.MS1, Parent Sample ID: S45324.08

Run in Batch: AMN100824, Run Date: 08/24/2010 16:00, Prep Date: 08/24/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Ammonia-N		106	80	120

Matrix Spike (MS)

Lab Sample ID: AMN100824.MS2, Parent Sample ID: S45323.01

Run in Batch: AMN100824, Run Date: 08/24/2010 16:00, Prep Date: 08/24/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Ammonia-N		101	80	120

Duplicate (DUP)

Lab Sample ID: AMN100824.DP1, Parent Sample ID: S45324.08

Run in Batch: AMN100824, Run Date: 08/24/2010 16:00, Prep Date: 08/24/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	RPD	RPD CL
Ammonia-N		11.9	20

Duplicate (DUP)

Lab Sample ID: AMN100824.DP2, Parent Sample ID: S45308.01

Run in Batch: AMN100824, Run Date: 08/24/2010 16:00, Prep Date: 08/24/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	RPD	RPD CL
Ammonia-N		0.8	20

QC Report - Batch QC Results

Inorganics, Prep Batch ID: CN100823-W1

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

Blank (BLK)

Lab Sample ID: CN100823-W1.LRB1

Run in Batch: CN100823-W1, Run Date: 08/23/2010 13:00, Prep Date: 08/23/2010, Matrix: Liquid, Dilution: 1

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

Laboratory Control Sample (LCS)

Lab Sample ID: CN100823-W1.LCS1

Run in Batch: CN100823-W1, Run Date: 08/23/2010 13:06, Prep Date: 08/23/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Amenable Cyanide		103	90	110

Matrix Spike (MS)

Lab Sample ID: CN100823-W1.MS1, Parent Sample ID: S45295.01

Run in Batch: CN100823-W1, Run Date: 08/23/2010 13:12, Prep Date: 08/23/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Amenable Cyanide		92	80	120

Matrix Spike Duplicate (MSD)

Lab Sample ID: CN100823-W1.MSD1, Parent Sample ID: CN100823-W1.MS1

Run in Batch: CN100823-W1, Run Date: 08/23/2010 13:14, Prep Date: 08/23/2010, Matrix: Liquid, Dilution: 1

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

Duplicate (DUP)

Lab Sample ID: CN100823-W1.DP1, Parent Sample ID: S45295.01

Run in Batch: CN100823-W1, Run Date: 08/23/2010 13:10, Prep Date: 08/23/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	RPD	RPD CL
Amenable Cyanide		<1	15

QC Report - Batch QC Results

Inorganics, Prep Batch ID: COD100819

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

Blank (BLK)

Lab Sample ID: COD100819.LRB1

Run in Batch: COD100819, Run Date: 08/19/2010 12:00, Prep Date: 08/19/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
COD		ND	1	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: COD100819.LCS1

Run in Batch: COD100819, Run Date: 08/19/2010 12:00, Prep Date: 08/19/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
COD		104	90	110

Matrix Spike (MS)

Lab Sample ID: COD100819.MS1, Parent Sample ID: S45246.01

Run in Batch: COD100819, Run Date: 08/19/2010 12:00, Prep Date: 08/19/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
COD		105	80	120

Duplicate (DUP)

Lab Sample ID: COD100819.DP1, Parent Sample ID: S45246.02

Run in Batch: COD100819, Run Date: 08/19/2010 12:00, Prep Date: 08/19/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	RPD	RPD CL
COD		11.6	20

QC Report - Batch QC Results

Inorganics, Prep Batch ID: OGHEX100819W02

Surrogates: No, QC Types: BLK/LCS

Blank (BLK)

Lab Sample ID: OGHEX100819W02.LRB1

Run in Batch: OGHEX100819W02, Run Date: 08/19/2010 15:12, Prep Date: 08/19/2010, 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: OGHEX100819W02.LCS1

Run in Batch: OGHEX100819W02, Run Date: 08/19/2010 15:12, Prep Date: 08/19/2010, Matrix: Liquid, Dilution: 1

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

Laboratory Control Sample (LCS)

Lab Sample ID: OGHEX100819W02.LCS2

Run in Batch: OGHEX100819W02, Run Date: 08/19/2010 15:12, Prep Date: 08/19/2010, 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: PHL100820-W1

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

Blank (BLK)

Lab Sample ID: PHL100820-W1.LRB1

Run in Batch: PHL100820-W1, Run Date: 08/20/2010 14:00, Prep Date: 08/20/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Phenols		ND	0.02	mg/L

Laboratory Control Sample (LCS)

Lab Sample ID: PHL100820-W1.LCS1

Run in Batch: PHL100820-W1, Run Date: 08/20/2010 14:15, Prep Date: 08/20/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Phenols		108	90	110

Matrix Spike (MS)

Lab Sample ID: PHL100820-W1.MS1, Parent Sample ID: S45347.01

Run in Batch: PHL100820-W1, Run Date: 08/20/2010 14:35, Prep Date: 08/20/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Phenols		120	90	110

Duplicate (DUP)

Lab Sample ID: PHL100820-W1.DP1, Parent Sample ID: S45345.01

Run in Batch: PHL100820-W1, Run Date: 08/20/2010 14:25, Prep Date: 08/20/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	RPD	RPD CL
Phenols		10	15

QC Report - Batch QC Results

Inorganics, Prep Batch ID: PHS100823

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

Blank (BLK)

Lab Sample ID: PHS100823.LRB1

Run in Batch: PHS100823, Run Date: 08/23/2010 12:38, Prep Date: 08/23/2010, Matrix: Liquid, Dilution: 1

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

Blank (BLK)

Lab Sample ID: PHS100823.LRB2

Run in Batch: PHS100823, Run Date: 08/23/2010 12:43, Prep Date: 08/23/2010, Matrix: Liquid, Dilution: 1

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

Laboratory Control Sample (LCS)

Lab Sample ID: PHS100823.LCS1

Run in Batch: PHS100823, Run Date: 08/23/2010 12:50, Prep Date: 08/23/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Total Phosphorus		93	90	110

Matrix Spike (MS)

Lab Sample ID: PHS100823.MS1, Parent Sample ID: S45319.02

Run in Batch: PHS100823, Run Date: 08/23/2010 18:08, Prep Date: 08/23/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Total Phosphorus		92	80	120

Duplicate (DUP)

Lab Sample ID: PHS100823.DP1, Parent Sample ID: S45325.01

Run in Batch: PHS100823, Run Date: 08/23/2010 18:05, Prep Date: 08/23/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	RPD	RPD CL
Total Phosphorus		11.7	20

QC Report - Batch QC Results

Inorganics, Prep Batch ID: TKN100819

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

Blank (BLK)

Lab Sample ID: TKN100819.LRB1

Run in Batch: TKN100819, Run Date: 08/19/2010 15:00, Prep Date: 08/19/2010, Matrix: Liquid, Dilution: 1

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

Blank (BLK)

Lab Sample ID: TKN100819.LRB2

Run in Batch: TKN100819, Run Date: 08/19/2010 15:00, Prep Date: 08/19/2010, Matrix: Liquid, Dilution: 1

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

Laboratory Control Sample (LCS)

Lab Sample ID: TKN100819.LCS1

Run in Batch: TKN100819, Run Date: 08/19/2010 15:00, Prep Date: 08/19/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Total Kjeldahl Nitrogen		97	90	110

Matrix Spike (MS)

Lab Sample ID: TKN100819.MS1, Parent Sample ID: S45246.02

Run in Batch: TKN100819, Run Date: 08/19/2010 15:00, Prep Date: 08/19/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Total Kjeldahl Nitrogen		95	80	120

Duplicate (DUP)

Lab Sample ID: TKN100819.DP1, Parent Sample ID: S45246.01

Run in Batch: TKN100819, Run Date: 08/19/2010 15:00, Prep Date: 08/19/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	RPD	RPD CL
Total Kjeldahl Nitrogen		0.8	20

QC Report - Batch QC Results

Inorganics, Prep Batch ID: TSS100823W02

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

Blank (BLK)

Lab Sample ID: TSS100823W02.LRB1

Run in Batch: TSS100823W02, Run Date: 08/23/2010 09:00, Prep Date: 08/23/2010, Matrix: Liquid, Dilution: 1

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

Laboratory Control Sample (LCS)

Lab Sample ID: TSS100823W02.LCS1

Run in Batch: TSS100823W02, Run Date: 08/23/2010 09:00, Prep Date: 08/23/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Total Suspended Solids		101	90	110

Duplicate (DUP)

Lab Sample ID: TSS100823W02.DP1, Parent Sample ID: S45330.01

Run in Batch: TSS100823W02, Run Date: 08/23/2010 09:00, Prep Date: 08/23/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	RPD	RPD CL
Total Suspended Solids		0	15

QC Report - Batch QC Results

Metals, Prep Batch ID: HGD-081910-1

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

Laboratory Control Sample (LCS)

Lab Sample ID: HG2-10-0819A.015.LCS

Run in Batch: HG2-10-0819A, Run Date: 08/19/2010 13:19, Prep Date: 08/19/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Mercury		100	85	115

Blank (BLK)

Lab Sample ID: HG2-10-0819A.016.LRB

Run in Batch: HG2-10-0819A, Run Date: 08/19/2010 13:22, Prep Date: 08/19/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Mercury		ND	0.05	ug/L

Matrix Spike (MS)

Lab Sample ID: HG2-10-0819A.023.MS, Parent Sample ID: S45323.01

Run in Batch: HG2-10-0819A, Run Date: 08/19/2010 13:37, Prep Date: 08/19/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Mercury		100	80	120

Matrix Spike (MS)

Lab Sample ID: HG2-10-0819A.034.MS, Parent Sample ID: S45333.04

Run in Batch: HG2-10-0819A, Run Date: 08/19/2010 14:02, Prep Date: 08/19/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Mercury		98	80	120

Matrix Spike Duplicate (MSD)

Lab Sample ID: HG2-10-0819A.024.MSD, Parent Sample ID: HG2-10-0819A.023.MS

Run in Batch: HG2-10-0819A, Run Date: 08/19/2010 13:39, Prep Date: 08/19/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Mercury		100	80	120	0	20

Matrix Spike Duplicate (MSD)

Lab Sample ID: HG2-10-0819A.035.MSD, Parent Sample ID: HG2-10-0819A.034.MS

Run in Batch: HG2-10-0819A, Run Date: 08/19/2010 14:04, Prep Date: 08/19/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Mercury		96	80	120	2	20

QC Report - Batch QC Results

Metals, Prep Batch ID: MTD-081910-4

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

Laboratory Control Sample (LCS)

Lab Sample ID: MT3-10-0819B.011.LCS

Run in Batch: MT3-10-0819B, Run Date: 08/19/2010 13:56, Prep Date: 08/19/2010, Matrix: Liquid, Dilution: 1

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

Blank (BLK)

Lab Sample ID: MT3-10-0819B.014.LRB

Run in Batch: MT3-10-0819B, Run Date: 08/19/2010 14:05, Prep Date: 08/19/2010, Matrix: Liquid, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Arsenic		ND	0.0004	mg/L
Chromium		ND	0.005	mg/L
Copper		ND	0.0008	mg/L
Nickel		ND	0.005	mg/L
Zinc		ND	0.005	mg/L

Matrix Spike (MS)

Lab Sample ID: MT3-10-0819B.025.MS, Parent Sample ID: S45323.01

Run in Batch: MT3-10-0819B, Run Date: 08/19/2010 14:38, Prep Date: 08/19/2010, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL
Arsenic		113	75	125
Chromium		107	75	125
Copper		102	75	125
Nickel		106	75	125
Zinc		107	75	125

Matrix Spike Duplicate (MSD)

Lab Sample ID: MT3-10-0819B.026.MSD, Parent Sample ID: MT3-10-0819B.025.MS

Run in Batch: MT3-10-0819B, Run Date: 08/19/2010 14:41, Prep Date: 08/19/2010, Matrix: Liquid, Dilution: 5

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Arsenic		111	75	125	2	20
Chromium		106	75	125	1	20
Copper		101	75	125	2	20
Nickel		105	75	125	1	20
Zinc		106	75	125	1	20

QC Report - Batch QC Results

Organics - PCBs/Pesticides, Prep Batch ID: PA100819W01

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

Laboratory Control Sample (LCS)

Lab Sample ID: f10081906.slcs-w.01

Run in Batch: F100819, Run Date: 08/19/2010 09:57, Prep Date: 08/19/2010, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
PCB-1016/1260		97.60	59.1	123.7

Blank (BLK)

Lab Sample ID: f10081908.sblk-w.01

Run in Batch: F100819, Run Date: 08/19/2010 10:17, Prep Date: 08/19/2010, 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: f10081907.slcs-w.01d, Parent Sample ID: f10081906.slcs-w.01

Run in Batch: F100819, Run Date: 08/19/2010 10:07, Prep Date: 08/19/2010, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
PCB-1016/1260		98.52	59.1	123.7	0.9	20.0

QC Report - Batch QC Results

Organics - Semi-Volatiles, Prep Batch ID: SF100821W01

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

Laboratory Control Sample (LCS)

Lab Sample ID: h100823.lcsw23a

Run in Batch: H100823, Run Date: 08/23/2010 10:45, Prep Date: 08/21/2010, Matrix: WW, Dilution: 2

Analyte	Flags	% Rec	LCL	UCL
2-Chlorophenol		81.62	14.0	123.0
4-Nitrophenol		80.06	10.0	110.0
Acenaphthene		89.76	26.4	118.0
4-Chloro-3-methylphenol		92.82	20.8	120.7
1,4-Dichlorobenzene		76.32	16.8	110.0
2,4-Dinitrotoluene		95.86	24.0	110.0
N-Nitrosodi-n-propylamine		80.34	31.3	119.6
Pentachlorophenol		95.30	10.0	110.9
Phenol		81.62	10.0	110.0
Pyrene		94.70	23.0	127.5
1,2,4-Trichlorobenzene		80.88	20.5	110.0

Blank (BLK)

Lab Sample ID: h100823.blkw23a

Run in Batch: H100823, Run Date: 08/23/2010 09:48, Prep Date: 08/21/2010, 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: SF100821W01 (continued)

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

Blank (BLK) (continued)

Lab Sample ID: h100823.blkw23a

Run in Batch: H100823, Run Date: 08/23/2010 09:48, Prep Date: 08/21/2010, Matrix: WW, Dilution: 2

Analyte	Flags	Conc	RDL	Units
2,4-Dinitrophenol		ND	1	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	1	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: h100823.lcsdw23a, Parent Sample ID: h100823.lcsw23a

Run in Batch: H100823, Run Date: 08/23/2010 11:14, Prep Date: 08/21/2010, Matrix: WW, Dilution: 2

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
2-Chlorophenol		90.84	14.0	123.0	10.7	20.0
4-Nitrophenol		84.90	10.0	110.0	5.9	20.0
Acenaphthene		98.80	26.4	118.0	9.6	20.0
4-Chloro-3-methylphenol		100.36	20.8	120.7	7.8	20.0
1,4-Dichlorobenzene		84.76	16.8	110.0	10.5	20.0
2,4-Dinitrotoluene		102.08	24.0	110.0	6.3	20.0
N-Nitrosodi-n-propylamine		89.20	31.3	119.6	10.5	20.0
Pentachlorophenol		101.20	10.0	110.9	6.0	20.0
Phenol		90.52	10.0	110.0	10.3	20.0
Pyrene		101.16	23.0	127.5	6.6	20.0
1,2,4-Trichlorobenzene		88.18	20.5	110.0	8.6	20.0

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: VF100819W2

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

Laboratory Control Sample (LCS)

Lab Sample ID: 100819a3.lcsw19a

Run in Batch: 100819A3, Run Date: 08/19/2010 12:30, Prep Date: 08/19/2010, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Benzene		88.56	73.7	127.0
Chlorobenzene		86.34	75.0	130.0
1,1-Dichloroethene		91.04	59.9	145.0
Trichloroethene		86.26	71.0	121.2
Toluene		87.60	71.4	127.6

Blank (BLK)

Lab Sample ID: 100819a3.blkw19a

Run in Batch: 100819A3, Run Date: 08/19/2010 14:01, Prep Date: 08/19/2010, Matrix: WW, Dilution: 1

Analyte	Flags	Conc	RDL	Units
Benzene		ND	1	ug/l
Toluene		ND	1	ug/l
Ethylbenzene		ND	1	ug/l
p,m-Xylene		ND	1	ug/l
o-Xylene		ND	1	ug/l

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: 100819a3.lcsw19b, Parent Sample ID: 100819a3.lcsw19a

Run in Batch: 100819A3, Run Date: 08/19/2010 12:48, Prep Date: 08/19/2010, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Benzene		103.60	73.7	127.0	15.7	20.0
Chlorobenzene		104.18	75.0	130.0	18.7	20.0
1,1-Dichloroethene		105.30	59.9	145.0	14.5	20.0
Trichloroethene		102.34	71.0	121.2	17.1	20.0
Toluene		103.92	71.4	127.6	17.0	20.0

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: VF100824W3

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

Laboratory Control Sample (LCS)

Lab Sample ID: 100824b5.lcsw24a

Run in Batch: 100824B5, Run Date: 08/24/2010 18:47, Prep Date: 08/24/2010, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
Benzene		108.58	73.7	127.0
Chlorobenzene		107.88	75.0	130.0
1,1-Dichloroethene		119.14	59.9	145.0
Trichloroethene		110.78	71.0	121.2
Toluene		108.12	71.4	127.6

Laboratory Control Sample (LCS)

Lab Sample ID: 100824c5.lcsg24a

Run in Batch: 100824C5, Run Date: 08/24/2010 19:27, Prep Date: 08/24/2010, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
TPH GRO (C6-C10)		78.19	50.0	150.0
TPH GRO (C4-C12)		78.32	50.0	150.0

Blank (BLK)

Lab Sample ID: 100824b5.blkw24a

Run in Batch: 100824B5, Run Date: 08/24/2010 21:07, Prep Date: 08/24/2010, 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
Carbon tetrachloride		ND	1	ug/l
Chlorobenzene		ND	1	ug/l
Chloroethane		ND	1	ug/l
2-Chloroethylvinyl ether		ND	1	ug/l
Chloroform		ND	1	ug/l
Chloromethane		ND	1	ug/l
Dibromochloromethane		ND	1	ug/l
1,1-Dichloroethane		ND	1	ug/l
1,2-Dichloroethane		ND	1	ug/l
1,1-Dichloroethene		ND	1	ug/l
trans-1,2-Dichloroethene		ND	1	ug/l
1,2-Dichloropropane		ND	1	ug/l
cis-1,3-Dichloropropene		ND	1	ug/l
trans-1,3-Dichloropropene		ND	1	ug/l
Ethylbenzene		ND	1	ug/l
Methylene chloride		ND	1	ug/l
1,1,2,2-Tetrachloroethane		ND	1	ug/l
Tetrachloroethene		ND	1	ug/l
Toluene		ND	1	ug/l
1,1,1-Trichloroethane		ND	1	ug/l
1,1,2-Trichloroethane		ND	1	ug/l
Trichloroethene		ND	1	ug/l
Vinyl chloride		ND	1	ug/l

QC Report - Batch QC Results

Organics - Volatiles, Prep Batch ID: VF100824W3 (continued)

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

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: 100824b5.lcsw24b, Parent Sample ID: 100824b5.lcsw24a

Run in Batch: 100824B5, Run Date: 08/24/2010 19:07, Prep Date: 08/24/2010, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
Benzene		105.12	73.7	127.0	3.2	20.0
Chlorobenzene		103.10	75.0	130.0	4.5	20.0
1,1-Dichloroethene		112.80	59.9	145.0	5.5	20.0
Trichloroethene		107.94	71.0	121.2	2.6	20.0
Toluene		105.12	71.4	127.6	2.8	20.0

Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: 100824c5.lcsg24b, Parent Sample ID: 100824c5.lcsg24a

Run in Batch: 100824C5, Run Date: 08/24/2010 19:47, Prep Date: 08/24/2010, Matrix: WW, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
TPH GRO (C6-C10)		77.32	50.0	150.0	1.1	20.0
TPH GRO (C4-C12)		77.39	50.0	150.0	1.2	20.0



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