

April 21, 2014

Mr. Tom Hutchings

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

RE: Discharge Permit Submittal–January 2014 through March 2014 Permit No.: 6-08-04-04-GML1

FILE: 15388/51440/Docs

Dear Mr. Hutchings:

In accordance with requirements of the above referenced discharge permit, we are providing you with the following discharge information for the period January 1, 2014 to March 31, 2014 for the Coldwater Road Landfill facility, located at 6220 Horton Avenue, Flint, Michigan.

- Periodic Report on Continued Compliance, certification
- Periodic Report on Continued Compliance (Table 1)
- Daily Discharge Summary Table (Table 2)
- Analytical Reports provided by Merit Laboratories, Inc. for samples from the on-site, above ground collection tank collected on
- 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 x16 if you have any questions.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

ford Scott yout

Clifford S. Yantz Scientist-3

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

37000 Grand River Avenue, Suite 260, Farmington Hills, MI 48335 | p 248-477-5701 | f 248-477-5962 | www.obg.com

City of Flint Industrial Pretreatment Program

Periodic Report on Continued Compliance

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

Reporting Period: ______ January 1, 2014 through March 31, 2014

Average Volume of Daily Discharge (during reporting period): <u>1,435 gallons</u>. (1 day)

Complete the following:

D

"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 |
|---|---|
| • | Scientist-3, O'Brien & Gere Engineers, Inc. As agent for the RACER Trust |
| 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 |
| ate Signed by Authorized Representative: | N/A |

Table 1Coldwater Road LandfillCity of Flint Sewer User Self-Monitoring ReportFirst Quarter - 20146-08-04-04-GML1

| | | | City of Fli | | User Self-Monitori ter Road Facility | ing Rep | port | | | | | | |
|----------------------------|--|--------------------|---|-------------|---|------------------|---|----------------------|---|-----------------------|---|---------------|--|
| Analytical Parameter | Ammonia-N | QL* | BOD | QL* | HEM | QL* | рН | QL* | TP | QL* | TSS | 0 | |
| Units | mg/L | | mg/L | | mg/L | | SU | | mg/L | | mg/L | | |
| Sampling Frequency | Sample one (1) b accumulated was prior to discharge every three (3) m | tewater e, once | Sample one (1) ba accumulated wastewat discharge, once every months. | er prior to | Sample one (1) ba accumulated wast prior to discharge every three (3) mo | ewater , once | Sample one (1) accumulated was prior to discharg every three (3) r | stewater le, once | Sample one (1) accumulated wa prior to dischar every three (3) | astewater ge, once | Sample one (1) I accumulated was prior to discharg every three (3) n | stew je, o | |
| Daily Maximum Limit | 37 | | 427 | | 100 | | N/A | | 7 | | 305 | | |
| Maximum Limit | N/A | | N/A | | N/A | | 10.5 | | N/A | | N/A | | |
| Minimum Limit | N/A | | N/A | | N/A | | 6.0 | | N/A | | N/A | | |
| Monthly Average Limit | N/A | | N/A | | N/A | | N/A | | N/A | | N/A | | |
| Test Result | 8.80 | 0.02 | 66 | 1 | 1 | 1 | 8.64 | 0.01 | 0.42 | 0.01 | 38 | | |
| Test Method | 4500-NH3 D | | 10360 | | 1664A | | 4500-H+ B | | 4500-PE | | 2540 D | | |
| Test Date | 13-Feb-14 | | 18-Feb-13 | | 18-Feb-14 | | 13-Feb-14 | | 18-Feb-14 | | 17-Feb-14 | | |
| Sample Date | 13-Feb-14 | | 13-Feb-14 | | 13-Feb-14 | | 13-Feb-14 | | 13-Feb-14 | | 13-Feb-14 | | |
| Sample Type | wastewater | | wastewater | | wastewater | | wastewater | | wastewater | | wastewater | | |
| Test Result | | | | | | | | | | | | | |
| Test Method | | | | | | | | | | | | | |
| Test Date | | | | | | | | | | | | | |
| Sample Date | | | | | | | | | | | | | |
| Sample Type | | | | | | | | | | | | | |
| Test Result | | | | | | | | | | | | | |
| Test Method | | | | | | | | | | | | | |
| Test Date | | | | | | | | | | | | | |
| Sample Date | | | | | | | | | | | | | |
| Sample Type | | | | | | | | | | | | | |
| Test Result | | | | | | | | | | | | | |
| Test Method | | | | | | | | | | | | | |
| Test Date | | | | _ | | | | | | | | _ | |
| Sample Date | | | | | | | | | | | | _ | |
| Sample Type | | | | | | | | | | | | | |
| Average Daily Conc. | 8.800 | | 66.000 | | 1.000 | | 8.640 | | 0.420 | | 38.000 | | |
| Monthly Average Conc. | N/A | | N/A | | N/A | | N/A | | N/A | | N/A | | |
| No. of Samples | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | |
| umber of Limit Exceedances | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | |

E1 = Limit Exceedance; E2 = Sample Expired

Table 1Coldwater Road LandfillCity of Flint Sewer User Self-Monitoring ReportFirst Quarter - 20146-08-04-04-GML1

| | | | | | | | r Self-Monitoring Road Facility | Report | | | | | | |
|----------------------------|---|-----------------------|--|----------------------|---|-----------------------|---|-----------------------|--|--------------------|--|--------------------|--|---------|
| Analytical Parameter | Arsenic | QL* | Chromiun | QL* | Copper | QL* | Mercury | QL* | Nickel | QL* | Zinc | QL* | Amenable Cyanide | QL |
| Units | mg/L | | mg/L | | mg/L | | mg/L | | mg/L | | mg/L | | mg/L | |
| Sampling Frequency | Sample one (1) accumulated wa prior to dischar every three (3) | astewater ge, once | Sample one (1) accumulated wa prior to discharg every three (3) | stewater ge, once | Sample one (1) accumulated wa prior to dischar every three (3) | astewater ge, once | Sample one (1 accumulated w prior to dischau every three (3) | astewater ge, once | Sample one (1) b accumulated was prior to discharge every three (3) m | tewater e, once | Sample one (1) b accumulated was prior to discharge every three (3) m | tewater e, once | Sample one (1) bate accumulated wastewat to discharge, once eve (3) months. | iter pi |
| Daily Maximum Limit | 0.048 | | 0.319 | | 3.12 | | 0.0000 | 2 | 0.795 | | 0.445 | | N/A | |
| Maximum Limit | N/A | | N/A | | N/A | | N/A | | N/A | | N/A | | 0.087 | |
| Minimum Limit | N/A | | N/A | | N/A | | N/A | | N/A | | N/A | | N/A | |
| Monthly Average Limit | N/A | | N/A | | N/A | | N/A | | N/A | | N/A | | N/A | |
| Test Result | 0.024 | 0.002 | 0.042 | 0.005 | 1.78 | 0.004 | 0.000 | 0.0002 | 0.415 | 0.005 | 0.017 | 0.005 | 0.000 | 0.0 |
| Test Method | 200.8 | | 200.8 | | 200.8 | | 245.1 | | 200.8 | | 200.8 | | 335.4/4500-CN-G | |
| Test Date | 26-Feb-14 | | 26-Feb-14 | | 26-Feb-14 | | 14-Feb-14 | | 26-Feb-14 | | 26-Feb-14 | | 19-Feb-14 | |
| Sample Date | 13-Feb-14 | | 13-Feb-14 | | 13-Feb-14 | | 13-Feb-14 | | | | 13-Feb-14 | | 13-Feb-14 | |
| Sample Type | wastewater | | wastewater | | wastewater | | wastewater | wastewater wastewater | | | wastewater | | | |
| Test Result | | | | | | | | | | | | | | |
| Test Method | | | | | | | | | | | | | | |
| Test Date | | | | | | | | | | | | | | |
| Sample Date | | | | | | | | | | | | | | |
| Sample Type | | | | | | | | | | | | | | |
| Test Result | | | | | | | | | | | | | | |
| Test Method | | | | | | | | | | | | | | |
| Test Date | | | | | | | | | | | | | | |
| Sample Date | | | | | | | | | | | | | | _ |
| Sample Type | | | | | | | | | | | | | | |
| Test Result | | | | | | | | | | | | | | _ |
| Test Method | | | | | | | | | | | | | | |
| Test Date | | | | | | | | | | | | | | _ |
| Sample Date | | | | | | | | | | | | | | _ |
| Sample Type | | | | | | | | | | | | | | _ |
| Average Daily Conc. | 0.024 | | 0.042 | | 1.780 | | 0.000 | | 0.415 | | 0.017 | | 0.000 | |
| Monthly Average Conc. | N/A | | N/A | | N/A | | N/A | | N/A | | N/A | | N/A | |
| No. of Samples | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | |
| umber of Limit Exceedances | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | |

E1 = Limit Exceedance; E2 = Sample Expired

Table 2 Coldwater Road Landfill Daily Discharge Summary Table First Quarter - 2014 6-08-04-04-GML1

| | Beginning Flow | End Flow | End Flow Gallons Begin Time End Time Average Flow Temperature a | | | | | | |
|-----------|----------------|---------------|---|--------------|--------------|-----------|-----|------|------|
| Date | Meter Reading | Meter Reading | Discharged | of Discharge | of Discharge | (gal/min) | (C) | (F) | рН |
| 3/14/2014 | 488,091 | 489,526 | 1,435 | 12:00 | 13:10 | 20.5 | 8.6 | 47.5 | 7.76 |

Total Discharge Volume: 1,435

Average Volume per Discharge: 1,435

NOTES :



Analytical Laboratory Report

Report ID: S59997.01(01) Generated on 02/26/2014

Report to

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

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

Addtional Contacts: Kevin Schneider

Report Summary

Lab Sample ID(s): S59997.01 Project: RACER Coldwater Rd Landfill Collected Date: 02/13/2014 Submitted Date/Time: 02/13/2014 14:00 Sampled by: Kevin Schneider P.O. #: 11311200 Report produced by

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

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

Contacts for report questions: Kevin George (kgeorge@meritlabs.com) Barbara Ball (bball@meritlabs.com)

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 reporting limit (RL).

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

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

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002) IN Drinking Water (#C-MI-07), NELAC NY (#11814), NCDENR (#680), NC Drinking Water (#26702) Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshad

Violetta F. Murshak Laboratory Director



Analytical Laboratory Report

| Sample Sumr | nary (1 samples) | | |
|-------------|------------------|------------|---------------------|
| Sample ID | Sample Tag | Matrix | Collected Date/Time |
| S59997.01 | O1-PRCC-14 | Wastewater | 02/13/2014 11:00 |



Analytical Laboratory Report

Lab Sample ID: S59997.01 Sample Tag: O1-PRCC-14 Collected Date/Time: 02/13/2014 11:00 Matrix: Wastewater COC Reference: 82199

Sample Containers

| 1 1L Plastic None Yes 4.7 IR 1 250ml Plastic H2SO4 Yes 4.7 IR 1 125ml Plastic HNO3 Yes 4.7 IR 1 125ml Plastic NaOH Yes 4.7 IR 1 125ml Plastic NaOH Yes 4.7 IR 1 32oz Glass HCL Yes 4.7 IR Analysis Results Units RL Method Run Date/Time Analyst CAS # Flags Extraction / Prep. Flags Hethod Run Date/Time Analyst CAS # Flags | # | Туре | Preservative(s) | | Refrigerated? | Arrival Ten | np. (C) Therm | ometer # | | | |
|--|-------|----------------------------|-----------------|--------------|---------------|-------------|---------------|--------------------|--------|-----------|-------|
| 1 125ml Plastic HNO3 Yes 4.7 IR 1 125ml Plastic NaOH Yes 4.7 IR 1 125ml Plastic NaOH Yes 4.7 IR 1 32oz Glass HCL Yes 4.7 IR Analysis Results Units RL Method Run Date/Time Analyst CAS # Flags | 1 | 1L Plastic | None | | Yes | 4.7 | IR | | | | |
| 1 125ml Plastic NaOH Yes 4.7 IR 1 32oz Glass HCL Yes 4.7 IR Analysis Results Units RL Method Run Date/Time Analyst CAS # Flags | 1 | 250ml Plastic | H2SO4 | | Yes | 4.7 | IR | | | | |
| 1 32oz Glass HCL Yes 4.7 IR Analysis Results Units RL Method Run Date/Time Analyst CAS # Flags | 1 | 125ml Plastic | HNO3 | | Yes | 4.7 | IR | | | | |
| Analysis Results Units RL Method Run Date/Time Analyst CAS # Flags | 1 | 125ml Plastic | NaOH | | Yes | 4.7 | IR | | | | |
| | 1 | 32oz Glass | HCL | | Yes | 4.7 | IR | | | | |
| Extraction / Prep. | Ana | lysis | | Results | Units | RL | Method | Run Date/Time | Analys | st CAS # | Flags |
| | Ext | raction / Prep. | | | | | | | | | |
| Mercury DigestionCompletedE245.102/14/14 11:29CCM | Mer | cury Digestion | | Completed | | | E245.1 | 02/14/14 11:29 | CCM | | |
| Metal Digestion Completed SW3015A 02/26/14 13:20 JRH | Met | al Digestion | | Completed | | | SW3015A | 02/26/14 13:20 | JRH | | |
| Inorganics | Ino | rganics | | | | | | | | | |
| Amenable Cyanide Not detected mg/L 0.005 E335.4/SM4500-CN02/19/14 13:22 JDP 57-12-5AM 1 | Ame | enable Cyanide | | Not detected | mg/L | 0.005 | E335.4/SM4500 |)-CN02/19/14 13:22 | JDP | 57-12-5AM | 1 |
| Ammonia-N (Undistilled) 8.8 mg/L 0.2 SM4500-NH3 D 02/13/14 17:07 MJC 7664-41-7 | Amr | monia-N (Undistilled) | | 8.8 | mg/L | 0.2 | SM4500-NH3 D | 0 02/13/14 17:07 | MJC | 7664-41-7 | |
| Oil & Grease n-Hexane Extract. 1 mg/L 1 E1664A 02/18/14 12:00 RGS | Oil 8 | & Grease n-Hexane Extract. | | 1 | mg/L | 1 | E1664A | 02/18/14 12:00 | RGS | | |
| TBOD5 - Set Completed mg/L 10360 02/13/14 16:15 ASB | TBC | DD5 - Set | | Completed | mg/L | | 10360 | 02/13/14 16:15 | ASB | | |
| TBOD5 66 mg/L 1 10360 02/18/14 16:30 ASB | TBC | DD5 | | 66 | mg/L | 1 | 10360 | 02/18/14 16:30 | ASB | | |
| Total Phosphorus 0.42 mg/L 0.05 SM4500-PE 02/18/14 16:11 MJC 7723-14-0 | Tota | al Phosphorus | | 0.42 | mg/L | 0.05 | SM4500-PE | 02/18/14 16:11 | MJC | 7723-14-0 | |
| Total Suspended Solids 38 mg/L 1 SM2540D 02/17/14 17:15 ASB | Tota | al Suspended Solids | | 38 | mg/L | 1 | SM2540D | 02/17/14 17:15 | ASB | | |
| Metals | Mei | tals | | | | | | | | | |
| Arsenic 0.024 mg/L 0.002 E200.8 02/26/14 15:55 JRH 7440-38-2 | Arse | enic | | 0.024 | mg/L | 0.002 | E200.8 | 02/26/14 15:55 | JRH | 7440-38-2 | |
| Chromium 0.042 mg/L 0.005 E200.8 02/26/14 15:55 JRH 7440-47-3 | Chr | omium | | 0.042 | mg/L | 0.005 | E200.8 | 02/26/14 15:55 | JRH | 7440-47-3 | |
| Copper 1.78 mg/L 0.004 E200.8 02/26/14 15:55 JRH 7440-50-8 | Сор | per | | 1.78 | mg/L | 0.004 | E200.8 | 02/26/14 15:55 | JRH | 7440-50-8 | |
| Mercury Not detected mg/L 0.0002 E245.1 02/14/14 15:56 CCM 7439-97-6 | Mer | cury | | Not detected | mg/L | 0.0002 | E245.1 | 02/14/14 15:56 | CCM | 7439-97-6 | |
| Nickel 0.415 mg/L 0.005 E200.8 02/26/14 15:55 JRH 7440-02-0 | Nicł | (el | | 0.415 | mg/L | 0.005 | E200.8 | 02/26/14 15:55 | JRH | 7440-02-0 | |
| Zinc 0.017 mg/L 0.005 E200.8 02/26/14 15:55 JRH 7440-66-6 | Zinc | ; | | 0.017 | mg/L | 0.005 | E200.8 | 02/26/14 15:55 | JRH | 7440-66-6 | |

1-* Total CN- = 0.015 mg/L

| Π | | Γ |
|-----|--------------------|---|
| _// | Merit | |
| | Laboratories, Inc. | |

2680 East Lansing Dr., East Lansing, MI 48823 Phone (517) 332-0167 Fax (517) 332-4034 www.meritlabs.com

C.O.C. PAGE # OF

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| CONTACT NAME | CIIFA | = Yn | tz / Kevin Schne | ider | | | | С | | | | | | | X (s | AME | | | | | | | | | | |
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| FOR LAB USE ONLY | | | | | | | | ž | | | žž | 6 | | | | | | V | | | | | | truction | | ο. |
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Quality Control Report

Report ID: QC-S59997.01(01) Generated on 02/27/2014

Report to

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

Phone: 248-477-5701 FAX:

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

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

Report Summary

Lab Sample ID(s): S59997.01 Project: RACER Coldwater Rd Landfill Submitted Date/Time: 02/13/2014 14:00 Sampled by: Kevin Schneider P.O. #: 11311200

Report Sections

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

Report Flag Descriptions

*: QC result is outside of indicated control limits

W: Surrogate result not applicable due to sample dilution

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

"Not detected" indicates that parameter was not found at a level equal to or greater than the RDL.

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

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814) Some analytes reported may not be certified. Full certification lists are available upon request.

Bartara Ball

Barbara Ball Quality Assurance Manager

Lab Sample ID: S59997.01

Sample Tag: O1-PRCC-14 Collected Date/Time: 02/13/2014 11:00 Matrix: Wastewater COC Reference: 82199

| Analysis | Method | Run Date/Time | Batch ID | Prep ID | Surr | QC Types |
|--------------------------------|------------------|------------------|----------------|----------------|------|--------------------|
| Inorganics | | | | | | |
| Amenable Cyanide | E335.4/SM4500-Cl | N 02/19/14 13:22 | CN140219-W1 | CN140219-W1 | No | BLK/LCS/MS/MSD/DUP |
| Ammonia-N (Undistilled) | SM4500-NH3 D | 02/13/14 17:07 | AMN140213 | AMN140213 | No | BLK/LCS/MS/DUP |
| Oil & Grease n-Hexane Extract. | E1664A | 02/18/14 12:00 | OGHEX140218W01 | OGHEX140218W01 | No | BLK/LCS |
| Total Phosphorus | SM4500-PE | 02/18/14 16:11 | PHS140218 | PHS140218 | No | BLK/LCS/MS/DUP |
| Total Suspended Solids | SM2540D | 02/17/14 17:15 | TSS140217 | TSS140217 | No | BLK/LCS/DUP |
| | | | | | | |
| Metals | | | | | | |
| Arsenic | E200.8 | 02/26/14 15:55 | MT3-14-0226A | MTD-022614-3 | No | LCS/BLK/MS/MSD |
| Chromium | E200.8 | 02/26/14 15:55 | MT3-14-0226A | MTD-022614-3 | No | LCS/BLK/MS/MSD |
| Copper | E200.8 | 02/26/14 15:55 | MT3-14-0226A | MTD-022614-3 | No | LCS/BLK/MS/MSD |
| Mercury | E245.1 | 02/14/14 15:56 | HG2-14-0214A | HGD-021414-1 | No | LCS/BLK/MS/MSD |
| Nickel | E200.8 | 02/26/14 15:55 | MT3-14-0226A | MTD-022614-3 | No | LCS/BLK/MS/MSD |
| Zinc | E200.8 | 02/26/14 15:55 | MT3-14-0226A | MTD-022614-3 | No | LCS/BLK/MS/MSD |

QC Report - Prep Batch Summary

| Inorganics, | Prep Batch ID: AMN140213 | | | |
|---------------|----------------------------------|-----------------|------------------|----------------|
| • | No, QC Types: BLK/LCS/MS/DUP | | | |
| Sample ID | Analysis | Method | Run Date/Time | Batch ID |
| S59997.01 | Ammonia-N (Undistilled) | SM4500-NH3 D | 02/13/14 17:07 | AMN140213 |
| Inorganics, | Prep Batch ID: CN140219-W1 | | | |
| Surrogates: N | lo, QC Types: BLK/LCS/MS/MSD/DUP | | | |
| Sample ID | Analysis | Method | Run Date/Time | Batch ID |
| S59997.01 | Amenable Cyanide | E335.4/SM4500-C | N 02/19/14 13:22 | CN140219-W1 |
| Inorganics, | Prep Batch ID: OGHEX140218W01 | | | |
| Surrogates: N | No, QC Types: BLK/LCS | | | |
| Sample ID | Analysis | Method | Run Date/Time | Batch ID |
| S59997.01 | Oil & Grease n-Hexane Extract. | E1664A | 02/18/14 12:00 | OGHEX140218W01 |
| Inorganics, | Prep Batch ID: PHS140218 | | | |
| Surrogates: N | lo, QC Types: BLK/LCS/MS/DUP | | | |
| Sample ID | Analysis | Method | Run Date/Time | Batch ID |
| S59997.01 | Total Phosphorus | SM4500-PE | 02/18/14 16:11 | PHS140218 |
| Inorganics, | Prep Batch ID: TSS140217 | | | |
| Surrogates: N | No, QC Types: BLK/LCS/DUP | | | |
| Sample ID | Analysis | Method | Run Date/Time | Batch ID |
| S59997.01 | Total Suspended Solids | SM2540D | 02/17/14 17:15 | TSS140217 |
| Metals, Pre | p Batch ID: HGD-021414-1 | | | |
| Surrogates: N | No, QC Types: LCS/BLK/MS/MSD | | | |
| Sample ID | Analysis | Method | Run Date/Time | Batch ID |
| S59997.01 | Mercury | E245.1 | 02/14/14 15:56 | HG2-14-0214A |
| Metals, Pre | p Batch ID: MTD-022614-3 | | | |
| Surrogates: N | No, QC Types: LCS/BLK/MS/MSD | | | |
| Sample ID | Analysis | Method | Run Date/Time | Batch ID |
| S59997.01 | Arsenic | E200.8 | 02/26/14 15:55 | MT3-14-0226A |
| S59997.01 | Chromium | E200.8 | 02/26/14 15:55 | MT3-14-0226A |
| S59997.01 | Copper | E200.8 | 02/26/14 15:55 | MT3-14-0226A |
| S59997.01 | Nickel | E200.8 | 02/26/14 15:55 | MT3-14-0226A |
| S59997.01 | Zinc | E200.8 | 02/26/14 15:55 | MT3-14-0226A |
| | | | | |

Inorganics, Prep Batch ID: AMN140213

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

Blank (BLK)

| Blank (BLK) | | | | | |
|--|--|---|----------------------------------|----------------|-------------|
| Lab Sample ID: AMN140213.LRB1 | | | | | |
| Run in Batch: AMN140213, Run Date: 02/13/201 | 4 11:14, Prep | Date: 02/1 | 3/2014, M | atrix: Liquid, | Dilution: 1 |
| Analyte | Flags | Conc | RDL | Units | |
| Ammonia-N (Undistilled) | | ND | 0.02 | mg/L | |
| Laboratory Control Sample (LCS) | | | | | |
| Lab Sample ID: AMN140213.LCS1 | | | | | |
| Run in Batch: AMN140213, Run Date: 02/13/201 | 4 12:15, Prep | Date: 02/1 | 3/2014, M | atrix: Liquid, | Dilution: 1 |
| Analyte | Flags | % Rec | LCL | UCL | |
| Ammonia-N (Undistilled) | | 105 | 90 | 110 | |
| Matrix Spike (MS) | | | | | |
| Lab Sample ID: AMN140213.MS1, Parent Sample | | | | | |
| Run in Batch: AMN140213, Run Date: 02/13/201 | 4 13:27, Prep | Date: 02/1 | 3/2014, M | atrix: Liquid, | Dilution: 1 |
| Analyte | Flags | % Rec | LCL | UCL | |
| Ammonia-N (Undistilled) | | 102 | 80 | 120 | |
| Matrix Spike (MS) | | | | | |
| Lab Sample ID: AMN140213.MS2, Parent Sample | e ID: S59964.0 |)8 | | | |
| Run in Batch: AMN140213, Run Date: 02/13/201 | 4 19:26, Prep | Date: 02/1 | 3/2014, M | atrix: Liquid, | Dilution: 1 |
| Analyte | Flags | % Rec | LCL | UCL | |
| Ammonia-N (Undistilled) | | 116 | 80 | 120 | |
| Matrix Spike (MS) | | | | | |
| Lab Sample ID: AMN140213.MS3, Parent Sample | e ID: S59964.0 |)9 | | | |
| Run in Batch: AMN140213, Run Date: 02/13/201 | 4 19:40, Prep | Date: 02/1 | 3/2014, M | atrix: Liquid, | Dilution: 1 |
| Analyte | Flags | % Rec | LCL | UCL | |
| Ammonia-N (Undistilled) | | | | | |
| | | 111 | 80 | 120 | |
| | | 111 | 80 | 120 | |
| | e ID: S59906.0 | | 80 | 120 | |
| Duplicate (DUP) Lab Sample ID: AMN140213.DP1, Parent Sample | | 1 | | | Dilution: 1 |
| Duplicate (DUP) Lab Sample ID: AMN140213.DP1, Parent Sample | | 1 | | | Dilution: 1 |
| Duplicate (DUP) Lab Sample ID: AMN140213.DP1, Parent Sample Run in Batch: AMN140213, Run Date: 02/13/201 | 4 12:43, Prep | 1 2 Date: 02/1 | <u>3/2014, M</u> | | Dilution: 1 |
| Duplicate (DUP) Lab Sample ID: AMN140213.DP1, Parent Sample Run in Batch: AMN140213, Run Date: 02/13/201 Analyte | 4 12:43, Prep | 1 <u>5 Date: 02/1</u> RPD | <u>3/2014, M</u> RPD CL | | Dilution: 1 |
| Duplicate (DUP) Lab Sample ID: AMN140213.DP1, Parent Sample Run in Batch: AMN140213, Run Date: 02/13/201 Analyte Ammonia-N (Undistilled) | <u>4 12:43, Prer</u> Flags | 1 <u>5 Date: 02/1</u> RPD 3.2 | <u>3/2014, M</u> RPD CL | | Dilution: 1 |
| Duplicate (DUP) Lab Sample ID: AMN140213.DP1, Parent Sample Run in Batch: AMN140213, Run Date: 02/13/201 Analyte Ammonia-N (Undistilled) Duplicate (DUP) | 4 12:43, Prep Flags 9 ID: S59964.0 | 1 <u>5 Date: 02/1</u> RPD 3.2 5 | <u>3/2014, M</u> RPD CL 20 | atrix: Liquid, | |
| Duplicate (DUP) Lab Sample ID: AMN140213.DP1, Parent Sample <u>Run in Batch: AMN140213, Run Date: 02/13/201</u> <u>Analyte</u> Ammonia-N (Undistilled) Duplicate (DUP) Lab Sample ID: AMN140213.DP2, Parent Sample | 4 12:43, Prep Flags 9 ID: S59964.0 | 1 <u>5 Date: 02/1</u> RPD 3.2 5 | <u>3/2014, M</u> RPD CL 20 | atrix: Liquid, | |

Inorganics, Prep Batch ID: CN140219-W1

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

Blank (BLK)

| Blank (BLK) | | | | | | |
|--|--|---|---|---|---|------------------------|
| Lab Sample ID: CN140219-W1.LRB1 | | | | | | |
| Run in Batch: CN140219-W1, Run Date: 02/19/2 | 2014 13:00, P | rep Date: 02 | 2/19/2014, | Matrix: Liqu | id, Dilution: | 1 |
| Analyte | Flags | Conc | RDL | Units | | |
| Amenable Cyanide | | ND | 0.005 | mg/L | | |
| Blank (BLK) | | | | | | |
| Lab Sample ID: CN140219-W1.LRB2 | | | | | | |
| Run in Batch: CN140219-W1, Run Date: 02/19/2 | 2014 13:40, P | rep Date: 02 | 2/19/2014, | Matrix: Liqu | id, Dilution: | 1 |
| Analyte | Flags | Conc | RDL | Units | | |
| Amenable Cyanide | | ND | 0.005 | mg/L | | |
| Laboratory Control Sample (LCS) | | | | | | |
| Lab Sample ID: CN140219-W1.LCS1 | | | | | | |
| Run in Batch: CN140219-W1, Run Date: 02/19/2 | 2014 13:06, P | rep Date: 02 | 2/19/2014, | Matrix: Liqu | id, Dilution: | 1 |
| Analyte | Flags | % Rec | LCL | UCL | | |
| Amenable Cyanide | | 98 | 90 | 110 | | |
| Laboratory Control Sample (LCS) | | | | | | |
| Lab Sample ID: CN140219-W1.LCS2 | | | | | | |
| Run in Batch: CN140219-W1, Run Date: 02/19/2 | 2014 13:44, P | rep Date: 02 | 2/19/2014, | Matrix: Liqu | id, Dilution: | 1 |
| | | | | | | |
| Analyte | Flags | % Rec | LCL | UCL | | |
| Analyte Amenable Cyanide | Flags | <u>% Rec</u> 95 | <u>LCL</u> 90 | UCL 110 | | |
| | Flags | | | | | |
| Amenable Cyanide | | 95 | | | | |
| Amenable Cyanide Matrix Spike (MS) | nple ID: S5997 | 95 1.01 | 90 | 110 | id, Dilution: | 1 |
| Amenable Cyanide Matrix Spike (MS) Lab Sample ID: CN140219-W1.MS1, Parent San | nple ID: S5997 | 95 1.01 | 90 | 110 | id, Dilution: | 1 |
| Amenable Cyanide Matrix Spike (MS) Lab Sample ID: CN140219-W1.MS1, Parent San <u>Run in Batch: CN140219-W1, Run Date: 02/19/</u> 2 | nple ID: S5997 2014 13:12, P | 95 1.01 rep Date: 02 | 90 2/19/2014, | 110 Matrix: Liqu | id, Dilution: | 1 |
| Amenable Cyanide Matrix Spike (MS) Lab Sample ID: CN140219-W1.MS1, Parent San <u>Run in Batch: CN140219-W1, Run Date: 02/19/</u> <u>Analyte</u> | nple ID: S5997 2014 13:12, P | 95 1.01 <u>rep Date: 0:</u> % Rec | 90 2/19/2014, LCL | 110 <u>Matrix: Liqu</u> UCL | id, Dilution: | 1 |
| Amenable Cyanide Matrix Spike (MS) Lab Sample ID: CN140219-W1.MS1, Parent San <u>Run in Batch: CN140219-W1, Run Date: 02/19/2</u> <u>Analyte</u> Amenable Cyanide Matrix Spike (MS) | nple ID: S5997 2014 13:12, P Flags | 95 1.01 <u>rep Date: 0</u> % Rec 94 | 90 2/19/2014, LCL | 110 <u>Matrix: Liqu</u> UCL | id, Dilution: | 1 |
| Amenable Cyanide Matrix Spike (MS) Lab Sample ID: CN140219-W1.MS1, Parent San <u>Run in Batch: CN140219-W1, Run Date: 02/19/2</u> <u>Analyte</u> Amenable Cyanide | nple ID: S5997 <u>2014 13:12, P</u> Flags nple ID: S5999 | 95 1.01 <u>rep Date: 0</u> % Rec 94 7.01 | 90 2/19/2014, LCL 80 | 110 <u>Matrix: Liqu</u> UCL 120 | | |
| Amenable Cyanide Matrix Spike (MS) Lab Sample ID: CN140219-W1.MS1, Parent San <u>Run in Batch: CN140219-W1, Run Date: 02/19/2</u> <u>Analyte</u> Amenable Cyanide Matrix Spike (MS) Lab Sample ID: CN140219-W1.MS2, Parent San | nple ID: S5997 <u>2014 13:12, P</u> Flags nple ID: S5999 | 95 1.01 <u>rep Date: 0</u> % Rec 94 7.01 | 90 2/19/2014, LCL 80 | 110 <u>Matrix: Liqu</u> UCL 120 | | |
| Amenable Cyanide Matrix Spike (MS) Lab Sample ID: CN140219-W1.MS1, Parent San <u>Run in Batch: CN140219-W1, Run Date: 02/19/2</u> <u>Analyte</u> Amenable Cyanide Matrix Spike (MS) Lab Sample ID: CN140219-W1.MS2, Parent San <u>Run in Batch: CN140219-W1, Run Date: 02/19/2</u> | nple ID: S5997 2014 13:12, P Flags 1014 ID: S5999 2014 13:50, P | 95 1.01 <u>rep Date: 0:</u> % Rec 94 7.01 rep Date: 0: | 90 2/19/2014, LCL 80 2/19/2014, | 110 <u>Matrix: Liqu</u> UCL 120 <u>Matrix: Liqu</u> | | |
| Amenable Cyanide Matrix Spike (MS) Lab Sample ID: CN140219-W1.MS1, Parent San Run in Batch: CN140219-W1, Run Date: 02/19/2 Analyte Amenable Cyanide Matrix Spike (MS) Lab Sample ID: CN140219-W1.MS2, Parent San Run in Batch: CN140219-W1, Run Date: 02/19/2 Analyte Amenable Cyanide Matrix Spike Duplicate (MSD) | nple ID: S5997 2014 13:12, P Flags nple ID: S5999 2014 13:50, P Flags | 95 11.01 rep Date: 02 % Rec 94 7.01 rep Date: 02 % Rec 88 | 90 2/19/2014, LCL 80 2/19/2014, LCL 90 | 110 <u>Matrix: Liqu</u> UCL 120 <u>Matrix: Liqu</u> UCL | | |
| Amenable Cyanide Matrix Spike (MS) Lab Sample ID: CN140219-W1.MS1, Parent San <u>Run in Batch: CN140219-W1, Run Date: 02/19/</u> <u>Analyte</u> Amenable Cyanide Matrix Spike (MS) Lab Sample ID: CN140219-W1.MS2, Parent San <u>Run in Batch: CN140219-W1, Run Date: 02/19/</u> <u>Analyte</u> Amenable Cyanide Matrix Spike Duplicate (MSD) | nple ID: S5997 2014 13:12, P Flags nple ID: S5999 2014 13:50, P Flags | 95 11.01 rep Date: 02 % Rec 94 7.01 rep Date: 02 % Rec 88 | 90 2/19/2014, LCL 80 2/19/2014, LCL 90 | 110 <u>Matrix: Liqu</u> UCL 120 <u>Matrix: Liqu</u> UCL | | |
| Amenable Cyanide Matrix Spike (MS) Lab Sample ID: CN140219-W1.MS1, Parent San Run in Batch: CN140219-W1, Run Date: 02/19/2 Analyte Amenable Cyanide Matrix Spike (MS) Lab Sample ID: CN140219-W1.MS2, Parent San Run in Batch: CN140219-W1, Run Date: 02/19/2 Analyte Amenable Cyanide Matrix Spike Duplicate (MSD) Lab Sample ID: CN140219-W1.MSD1, Parent Sa | nple ID: S5997 2014 13:12, P Flags nple ID: S5999 2014 13:50, P Flags | 95 1.01 <u>rep Date: 0:</u> % Rec 94 7.01 <u>rep Date: 0:</u> % Rec 88 40219-W1.M | 90 <u>2/19/2014,</u> <u>LCL</u> 80 <u>2/19/2014,</u> <u>LCL</u> 90 IS1 | 110 <u>Matrix: Liqu</u> UCL 120 <u>Matrix: Liqu</u> UCL 110 | id, Dilution: | 1 |
| Amenable Cyanide Matrix Spike (MS) Lab Sample ID: CN140219-W1.MS1, Parent San <u>Run in Batch: CN140219-W1, Run Date: 02/19/2</u> <u>Analyte</u> Amenable Cyanide Matrix Spike (MS) Lab Sample ID: CN140219-W1.MS2, Parent San <u>Run in Batch: CN140219-W1, Run Date: 02/19/2</u> <u>Analyte</u> Amenable Cyanide | nple ID: S5997 2014 13:12, P Flags nple ID: S5999 2014 13:50, P Flags | 95 1.01 <u>rep Date: 0:</u> % Rec 94 7.01 <u>rep Date: 0:</u> % Rec 88 40219-W1.M | 90 <u>2/19/2014,</u> <u>LCL</u> 80 <u>2/19/2014,</u> <u>LCL</u> 90 IS1 | 110 <u>Matrix: Liqu</u> UCL 120 <u>Matrix: Liqu</u> UCL 110 | id, Dilution: | 1 |
| Amenable Cyanide Matrix Spike (MS) Lab Sample ID: CN140219-W1.MS1, Parent San Run in Batch: CN140219-W1, Run Date: 02/19/2 Analyte Amenable Cyanide Matrix Spike (MS) Lab Sample ID: CN140219-W1.MS2, Parent San Run in Batch: CN140219-W1.MS2, Parent San Run in Batch: CN140219-W1, Run Date: 02/19/2 Analyte Amenable Cyanide Matrix Spike Duplicate (MSD) Lab Sample ID: CN140219-W1.MSD1, Parent San Run in Batch: CN140219-W1.MSD1, Parent San Run in Batch: CN140219-W1.MSD1, Parent San | nple ID: S5997 2014 13:12, P Flags nple ID: S5999 2014 13:50, P Flags ample ID: CN14 2014 13:14, P | 95 1.01 rep Date: 02 % Rec 94 7.01 rep Date: 02 % Rec 88 40219-W1.M rep Date: 02 | 90 2/19/2014, LCL 80 2/19/2014, LCL 90 IS1 2/19/2014, | 110 <u>Matrix: Liqu</u> <u>UCL</u> 120 <u>Matrix: Liqu</u> <u>UCL</u> 110 <u>Matrix: Liqu</u> | id, Dilution: id, Dilution: | 1 |
| Amenable Cyanide Matrix Spike (MS) Lab Sample ID: CN140219-W1.MS1, Parent San Run in Batch: CN140219-W1, Run Date: 02/19/2 Analyte Amenable Cyanide Matrix Spike (MS) Lab Sample ID: CN140219-W1.MS2, Parent San Run in Batch: CN140219-W1.MS2, Parent San Run in Batch: CN140219-W1, Run Date: 02/19/2 Analyte Amenable Cyanide Matrix Spike Duplicate (MSD) Lab Sample ID: CN140219-W1.MSD1, Parent San Run in Batch: CN140219-W1.MSD1, Parent San Run in Batch: CN140219-W1.MSD1, Parent San Analyte | nple ID: S5997 2014 13:12, P Flags nple ID: S5999 2014 13:50, P Flags ample ID: CN14 2014 13:14, P | 95 1.01 rep Date: 02 % Rec 94 7.01 rep Date: 02 % Rec 10219-W1.M rep Date: 02 % Rec | 90 2/19/2014, LCL 80 2/19/2014, LCL 90 IS1 2/19/2014, LCL | 110 <u>Matrix: Liqu</u> <u>UCL</u> 120 <u>Matrix: Liqu</u> <u>UCL</u> <u>Matrix: Liqu</u> <u>UCL</u> | id, Dilution: id, Dilution: RPD | 1 1 RPD CL |
| Amenable Cyanide Matrix Spike (MS) Lab Sample ID: CN140219-W1.MS1, Parent San Run in Batch: CN140219-W1, Run Date: 02/19// Analyte Amenable Cyanide Matrix Spike (MS) Lab Sample ID: CN140219-W1.MS2, Parent San Run in Batch: CN140219-W1, Run Date: 02/19// Analyte Amenable Cyanide Matrix Spike Duplicate (MSD) Lab Sample ID: CN140219-W1.MSD1, Parent Sa Run in Batch: CN140219-W1.MSD1, Parent Sa Run in Batch: CN140219-W1, Run Date: 02/19// Analyte Amenable Cyanide Matrix Spike Duplicate (MSD) Lab Sample ID: CN140219-W1.MSD1, Parent Sa Run in Batch: CN140219-W1.MSD1, Parent Sa | nple ID: S5997 2014 13:12, P Flags nple ID: S5999 2014 13:50, P Flags ample ID: CN14 2014 13:14, P Flags | 95 1.01 rep Date: 02 % Rec 94 7.01 rep Date: 02 % Rec 88 40219-W1.M rep Date: 02 % Rec 94 40219-W1.M | 90 2/19/2014, LCL 80 2/19/2014, LCL 90 1S1 2/19/2014, LCL 80 1S2 | 110 <u>Matrix: Liqu</u> <u>UCL</u> 120 <u>Matrix: Liqu</u> <u>UCL</u> 120 | id, Dilution: id, Dilution: <u>RPD</u> 0 | 1 1 RPD CL 15 |
| Amenable Cyanide Matrix Spike (MS) Lab Sample ID: CN140219-W1.MS1, Parent San Run in Batch: CN140219-W1, Run Date: 02/19/2 Analyte Amenable Cyanide Matrix Spike (MS) Lab Sample ID: CN140219-W1.MS2, Parent San Run in Batch: CN140219-W1, Run Date: 02/19/2 Analyte Amenable Cyanide Matrix Spike Duplicate (MSD) Lab Sample ID: CN140219-W1.MSD1, Parent Sa Run in Batch: CN140219-W1, Run Date: 02/19/2 Analyte Amenable Cyanide | nple ID: S5997 2014 13:12, P Flags nple ID: S5999 2014 13:50, P Flags ample ID: CN14 2014 13:14, P Flags | 95 1.01 rep Date: 02 % Rec 94 7.01 rep Date: 02 % Rec 88 40219-W1.M rep Date: 02 % Rec 94 40219-W1.M | 90 2/19/2014, LCL 80 2/19/2014, LCL 90 1S1 2/19/2014, LCL 80 1S2 | 110 <u>Matrix: Liqu</u> <u>UCL</u> 120 <u>Matrix: Liqu</u> <u>UCL</u> 120 | id, Dilution: id, Dilution: <u>RPD</u> 0 | 1 1 RPD CL 15 |
| Amenable Cyanide Matrix Spike (MS) Lab Sample ID: CN140219-W1.MS1, Parent San Run in Batch: CN140219-W1, Run Date: 02/19/2 Analyte Amenable Cyanide Matrix Spike (MS) Lab Sample ID: CN140219-W1.MS2, Parent San Run in Batch: CN140219-W1.MS2, Parent San Run in Batch: CN140219-W1.MS2, Parent San Amenable Cyanide Matrix Spike Duplicate (MSD) Lab Sample ID: CN140219-W1.MSD1, Parent Sa Run in Batch: CN140219-W1.MSD1, Parent Sa Run in Batch: CN140219-W1.MSD1, Parent Sa Amenable Cyanide Matrix Spike Duplicate (MSD) Lab Sample ID: CN140219-W1.MSD1, Parent Sa Run in Batch: CN140219-W1.MSD1, Parent Sa Run in Batch: CN140219-W1.MSD1, Parent Sa Matrix Spike Duplicate (MSD) Lab Sample ID: CN140219-W1.MSD2, Parent Sa | nple ID: S5997 2014 13:12, P Flags nple ID: S5999 2014 13:50, P Flags ample ID: CN14 2014 13:14, P Flags | 95 1.01 rep Date: 02 % Rec 94 7.01 rep Date: 02 % Rec 88 40219-W1.M rep Date: 02 % Rec 94 40219-W1.M | 90 2/19/2014, LCL 80 2/19/2014, LCL 90 1S1 2/19/2014, LCL 80 1S2 | 110 <u>Matrix: Liqu</u> <u>UCL</u> 120 <u>Matrix: Liqu</u> <u>UCL</u> 120 | id, Dilution: id, Dilution: <u>RPD</u> 0 | 1 1 RPD CL 15 |

Inorganics, Prep Batch ID: CN140219-W1 (continued)

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

Duplicate (DUP)

| ID: S59971 | 1.01 | | | | |
|------------|--|----------------------------------|--|--|--|
| 4 13:10, P | rep Date: 0 | 02/19/2014, | Matrix: Liquid, | Dilution: 1 | |
| Flags | RPD | RPD CL | | | |
| | <1 | 15 | | | |
| | | | | | |
| ID: S59997 | 7.01 | | | | |
| 4 13:48, P | rep Date: 0 |)2/19/2014, | Matrix: Liquid, | Dilution: 1 | |
| | <u>4 13:10, P</u> Flags ID: S59997 | Flags RPD <1 ID: S59997.01 | 4 13:10, Prep Date: 02/19/2014, Flags RPD RPD CL <1 15 ID: S59997.01 | A 13:10, Prep Date: 02/19/2014, Matrix: Liquid, Flags RPD RPD CL <1 | 4 13:10, Prep Date: 02/19/2014, Matrix: Liquid, Dilution: 1 Flags RPD RPD CL <1 15 |

| Run in Batch: CIN140219-W1, | , Run Date: 02/19/2014 13:48, P | rep Date: | 02/19/2014, Matrix: Liquid, Dilution: 1 | |
|-----------------------------|---------------------------------|-----------|---|--|
| Analyte | Flags | RPD | RPD CL | |
| Amenable Cyanide | | <1 | 15 | |

Inorganics, Prep Batch ID: OGHEX140218W01

Surrogates: No, QC Types: BLK/LCS

Oil & Grease n-Hexane Extract.

Blank (BLK)

| Lab Sample ID: OGHEX140218W01.LRB1 | | | | |
|--|---------------|-------------|-------------|-----------------------------------|
| Run in Batch: OGHEX140218W01, Run Date: 02 | /18/2014 12:0 | 0, Prep Dat | te: 02/18/2 | 2014, 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: OGHEX140218W01.LCS1 | | | | |
| Run in Batch: OGHEX140218W01, Run Date: 02 | /18/2014 12:0 | 0, Prep Dat | te: 02/18/2 | 2014, Matrix: Liquid, Dilution: 1 |
| Analyte | Flags | % Rec | LCL | UCL |
| Oil & Grease n-Hexane Extract. | | 96 | 78 | 114 |
| Laboratory Control Sample (LCS) | | | | |
| Lab Sample ID: OGHEX140218W01.LCS2 | | | | |
| Run in Batch: OGHEX140218W01, Run Date: 02 | /18/2014 12:0 | 0, Prep Dat | te: 02/18/2 | 2014, Matrix: Liquid, Dilution: 1 |
| | | | LCL | |

96

78

114

Inorganics, Prep Batch ID: PHS140218

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

Blank (BLK)

| Blank (BLK) | | | | | |
|--|------------|-------------|------------|-----------------|-------------|
| Lab Sample ID: PHS140218.LRB1 | | | | | |
| Run in Batch: PHS140218, Run Date: 02/18/2014 1 | 5:07, Prep | Date: 02/18 | 8/2014, Ma | atrix: Liquid, | Dilution: 1 |
| Analyte | Flags | Conc | RDL | Units | |
| Total Phosphorus | | ND | 0.01 | mg/L | |
| Blank (BLK) | | | | | |
| Lab Sample ID: PHS140218.LRB2 | | | | | |
| Run in Batch: PHS140218, Run Date: 02/18/2014 | 5:13, Prep | Date: 02/18 | 8/2014, Ma | atrix: Liquid, | Dilution: 1 |
| Analyte | Flags | Conc | RDL | Units | |
| Total Phosphorus | | ND | 0.01 | mg/L | |
| | | | | | |
| Laboratory Control Sample (LCS) | | | | | |
| Lab Sample ID: PHS140218.LCS1 | | | | | |
| Run in Batch: PHS140218, Run Date: 02/18/2014 1 | | | | | Dilution: 1 |
| Analyte | Flags | % Rec | LCL | UCL | |
| Total Phosphorus | | 96 | 90 | 110 | |
| Matrix Spike (MS) | | | | | |
| Lab Sample ID: PHS140218.MS1, Parent Sample ID | : S59951.0 | 2 | | | |
| Run in Batch: PHS140218, Run Date: 02/18/2014 2 | 1:01, Prep | Date: 02/18 | B/2014, Ma | atrix: Liquid, | Dilution: 1 |
| Analyte | Flags | % Rec | LCL | UCL | |
| Total Phosphorus | | 85 | 80 | 120 | |
| Duplicate (DUP) | | | | | |
| | SE0000 04 | 4 | | | |
| Lab Sample ID: PHS140218.DP1, Parent Sample ID: | | | | مغيثين النصيناء | Dilution 4 |
| Run in Batch: PHS140218, Run Date: 02/18/2014 20 | | | | atrix: Liquid, | Dilution: 1 |
| Analyte | Flags | RPD | RPD CL | | |
| Total Phosphorus | | 3.1 | 20 | | |
| | | | | | |

Inorganics, Prep Batch ID: TSS140217

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

Blank (BLK)

Total Suspended Solids

| Lab Sample ID: TSS140217.LRB1 Run in Batch: TSS140217, Run Date: 02/17/201 | 14 17:15. Prep | Date: 02/17 | 7/2014. M | atrix: Liquid, Dilution: 1 | |
|---|-----------------|-------------|-----------|----------------------------|--|
| Analyte | Flags | Conc | RDL | Units | |
| Total Suspended Solids | | ND | 1 | mg/L | |
| Laboratory Control Sample (LCS) | | | | | |
| Lab Sample ID: TSS140217.LCS1 | | | | | |
| Run in Batch: TSS140217, Run Date: 02/17/20 | 14 17:15, Prep | Date: 02/17 | 7/2014, M | atrix: Liquid, Dilution: 1 | |
| Analyte | Flags | % Rec | LCL | UCL | |
| Total Suspended Solids | | 102 | 82 | 111 | |
| Duplicate (DUP) | | | | | |
| Lab Sample ID: TSS140217.DP1, Parent Sample | e ID: S59992.01 | | | | |
| Run in Batch: TSS140217, Run Date: 02/17/20 | 14 17:15, Prep | Date: 02/17 | 7/2014, M | atrix: Liquid, Dilution: 1 | |
| | | | | | |

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| Report to O'Brien & Gere Engineers, Inc. |
|--|
| Project: RACER Coldwater Rd Landfill |

Metals, Prep Batch ID: HGD-021414-1

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

Laboratory Control Sample (LCS)

| Laboratory Control Sample (LCS) | | | | | | |
|--|--|---|---|--|--------------------------------|-------------------|
| Lab Sample ID: HG2-14-0214A.015.LCS | | | | | | |
| Run in Batch: HG2-14-0214A, Run Date: 02/14/2 | 2014 15:08, F | Prep Date: 02 | 2/14/2014 | Matrix: Liquic | d, Dilution | :1 |
| Analyte | Flags | % Rec | LCL | UCL | | |
| Mercury | | 97 | 85 | 115 | | |
| Blank (BLK) | | | | | | |
| Lab Sample ID: HG2-14-0214A.016.LRB | | | | | | |
| Run in Batch: HG2-14-0214A, Run Date: 02/14/2 | 2014 15:10, F | Prep Date: 02 | 2/14/2014 | , Matrix: Liquic | d, Dilution | : 1 |
| Analyte | Flags | Conc | RDL | Units | | |
| Mercury | | ND | 0.03 | ug/L | | |
| Matrix Spike (MS) | | | | | | |
| Lab Sample ID: HG2-14-0214A.027.MS, Parent S | Sample ID: S5 | 9959.01 | | | | |
| Run in Batch: HG2-14-0214A, Run Date: 02/14/2 | 2014 15:32, F | Prep Date: 02 | 2/14/2014 | , Matrix: Liquic | d, Dilution | : 1 |
| Analyte | Flags | % Rec | LCL | UCL | | |
| Mercury | | 98 | 80 | 120 | | |
| | | | | | | |
| Matrix Spike (MS) | | | | | | |
| Lab Sample ID: HG2-14-0214A.041.MS, Parent S | • | | | | | |
| Lab Sample ID: HG2-14-0214A.041.MS, Parent S Run in Batch: HG2-14-0214A, Run Date: 02/14/2 | • | Prep Date: 02 | | | d, Dilution | : 1 |
| Lab Sample ID: HG2-14-0214A.041.MS, Parent S | • | Prep Date: 02 % Rec | LCL | UCL | I, Dilution | : 1 |
| Lab Sample ID: HG2-14-0214A.041.MS, Parent S Run in Batch: HG2-14-0214A, Run Date: 02/14/2 | 2014 16:00, F | Prep Date: 02 | | | l, Dilution | : 1 |
| Lab Sample ID: HG2-14-0214A.041.MS, Parent S <u>Run in Batch: HG2-14-0214A, Run Date: 02/14/2</u> <u>Analyte</u> Mercury Matrix Spike Duplicate (MSD) | 2 <u>014 16:00, F</u> Flags | Prep Date: 0/ % Rec 97 | LCL 80 | UCL 120 | d, Dilution | . 1 |
| Lab Sample ID: HG2-14-0214A.041.MS, Parent S Run in Batch: HG2-14-0214A, Run Date: 02/14/2 Analyte Mercury | 2 <u>014 16:00, F</u> Flags | Prep Date: 0/ % Rec 97 | LCL 80 | UCL 120 | d, Dilution | : 1 |
| Lab Sample ID: HG2-14-0214A.041.MS, Parent S <u>Run in Batch: HG2-14-0214A, Run Date: 02/14/2</u> <u>Analyte</u> Mercury Matrix Spike Duplicate (MSD) | 2014 16:00, F Flags | Prep Date: 02 % Rec 97 IG2-14-0214 | LCL 80 A.027.MS | UCL 120 | I, Dilution | : 1 |
| Lab Sample ID: HG2-14-0214A.041.MS, Parent S <u>Run in Batch: HG2-14-0214A, Run Date: 02/14/2</u> <u>Analyte</u> Mercury Matrix Spike Duplicate (MSD) Lab Sample ID: HG2-14-0214A.028.MSD, Parent | 2014 16:00, F Flags | Prep Date: 02 % Rec 97 IG2-14-0214 | LCL 80 A.027.MS | UCL 120 | | |
| Lab Sample ID: HG2-14-0214A.041.MS, Parent S <u>Run in Batch: HG2-14-0214A, Run Date: 02/14/2</u> <u>Analyte</u> Mercury Matrix Spike Duplicate (MSD) Lab Sample ID: HG2-14-0214A.028.MSD, Parent <u>Run in Batch: HG2-14-0214A, Run Date: 02/14/2</u> | 2014 16:00, F Flags : Sample ID: H 2014 15:34, F | Prep Date: 02 % Rec 97 IG2-14-0214 Prep Date: 02 | LCL 80 A.027.MS | UCL 120 , Matrix: Liquic | I, Dilution | : 1 |
| Lab Sample ID: HG2-14-0214A.041.MS, Parent S <u>Run in Batch: HG2-14-0214A, Run Date: 02/14/2</u> <u>Analyte</u> Mercury Matrix Spike Duplicate (MSD) Lab Sample ID: HG2-14-0214A.028.MSD, Parent <u>Run in Batch: HG2-14-0214A, Run Date: 02/14/2</u> <u>Analyte</u> | 2014 16:00, F Flags : Sample ID: H 2014 15:34, F | Prep Date: 02 % Rec 97 IG2-14-0214 Prep Date: 02 % Rec | LCL 80 A.027.MS 2/14/2014 LCL | UCL 120 Matrix: Liquic UCL | l, Dilution RPD | 1 RPD CL |
| Lab Sample ID: HG2-14-0214A.041.MS, Parent S <u>Run in Batch: HG2-14-0214A, Run Date: 02/14/2</u> <u>Analyte</u> Mercury Matrix Spike Duplicate (MSD) Lab Sample ID: HG2-14-0214A.028.MSD, Parent <u>Run in Batch: HG2-14-0214A, Run Date: 02/14/2</u> <u>Analyte</u> Mercury | 2014 16:00, F Flags : Sample ID: H 2014 15:34, F Flags | Prep Date: 02 % Rec 97 IG2-14-0214 Prep Date: 02 % Rec 99 | LCL 80 A.027.MS 2/14/2014 LCL 80 | UCL 120 Matrix: Liquic UCL 120 | l, Dilution RPD | 1 RPD CL |
| Lab Sample ID: HG2-14-0214A.041.MS, Parent S <u>Run in Batch: HG2-14-0214A, Run Date: 02/14/2</u> <u>Analyte</u> Mercury Matrix Spike Duplicate (MSD) Lab Sample ID: HG2-14-0214A.028.MSD, Parent <u>Run in Batch: HG2-14-0214A, Run Date: 02/14/2</u> <u>Analyte</u> Mercury Matrix Spike Duplicate (MSD) | 2014 16:00, F Flags : Sample ID: H 2014 15:34, F Flags : Sample ID: H | Prep Date: 02 % Rec 97 G2-14-0214 Prep Date: 02 % Rec 99 | LCL 80 A.027.MS 2/14/2014 LCL 80 A.041.MS | UCL 120 Matrix: Liquic UCL 120 | <u>d, Dilution</u> RPD 1 | 1 RPD CL 20 |
| Lab Sample ID: HG2-14-0214A.041.MS, Parent S <u>Run in Batch: HG2-14-0214A, Run Date: 02/14/2</u> <u>Analyte</u> Mercury Matrix Spike Duplicate (MSD) Lab Sample ID: HG2-14-0214A.028.MSD, Parent <u>Run in Batch: HG2-14-0214A, Run Date: 02/14/2</u> <u>Analyte</u> Mercury Matrix Spike Duplicate (MSD) Lab Sample ID: HG2-14-0214A.042.MSD, Parent | 2014 16:00, F Flags : Sample ID: H 2014 15:34, F Flags : Sample ID: H | Prep Date: 02 % Rec 97 G2-14-0214 Prep Date: 02 % Rec 99 | LCL 80 A.027.MS 2/14/2014 LCL 80 A.041.MS | UCL 120 Matrix: Liquic UCL 120 | <u>d, Dilution</u> RPD 1 | 1 RPD CL 20 |

Metals, Prep Batch ID: MTD-022614-3

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

Laboratory Control Sample (LCS)

Lab Sample ID: MT3-14-0226A.022.LCS

| Run in Batch: MT3-14-0226A, Run Date: 02/26/2014 15:35, Prep Date: 02/26/2014, Matrix: Liquid, Dilution: 1 |
|--|
|--|

| Analyte | Flags | % Rec | LCL | UCL |
|----------|-------|-------|-----|-----|
| Arsenic | | 103 | 85 | 115 |
| Chromium | | 101 | 85 | 115 |
| Copper | | 102 | 85 | 115 |
| Nickel | | 100 | 85 | 115 |
| Zinc | | 100 | 85 | 115 |

Blank (BLK)

Lab Sample ID: MT3-14-0226A.024.LRB

Run in Batch: MT3-14-0226A, Run Date: 02/26/2014 15:43, Prep Date: 02/26/2014, Matrix: Liquid, Dilution: 1

| Analyte | Flags | Conc | RDL | Units |
|----------|-------|------|--------|-------|
| Arsenic | | ND | 0.0004 | mg/L |
| Chromium | | ND | 0.001 | mg/L |
| Copper | | ND | 0.0008 | mg/L |
| Nickel | | ND | 0.001 | mg/L |
| Zinc | | ND | 0.001 | mg/L |
| | | | | |

Matrix Spike (MS)

Lab Sample ID: MT3-14-0226A.030.MS, Parent Sample ID: S60001.03

Run in Batch: MT3-14-0226A, Run Date: 02/26/2014 16:07, Prep Date: 02/26/2014, Matrix: Liquid, Dilution: 5

| Analyte | Flags | % Rec | LCL | UCL |
|----------|-------|-------|-----|-----|
| Arsenic | | 108 | 75 | 125 |
| Chromium | | 104 | 75 | 125 |
| Copper | | 99 | 75 | 125 |
| Nickel | | 99 | 75 | 125 |
| Zinc | | 76 | 75 | 125 |

Matrix Spike Duplicate (MSD)

Lab Sample ID: MT3-14-0226A.031.MSD, Parent Sample ID: MT3-14-0226A.030.MS

Run in Batch: MT3-14-0226A, Run Date: 02/26/2014 16:11, Prep Date: 02/26/2014, Matrix: Liquid, Dilution: 5

| Analyte | Flags | % Rec | LCL | UCL | RPD | RPD CL |
|----------|-------|-------|-----|-----|-----|--------|
| Arsenic | | 108 | 75 | 125 | 1 | 20 |
| Chromium | | 106 | 75 | 125 | 1 | 20 |
| Copper | | 101 | 75 | 125 | 2 | 20 |
| Nickel | | 101 | 75 | 125 | 2 | 20 |
| Zinc | | 77 | 75 | 125 | 0 | 20 |
| | | | | | | |

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| | Laboratories, Inc. | |

2680 East Lansing Dr., East Lansing, MI 48823 Phone (517) 332-0167 Fax (517) 332-4034 www.meritlabs.com

C.O.C. PAGE # _ OF

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| CONTACT NAME CLIFF Vantz/ Kewin Schneider | | | | | | | | | | | | | | | | | | | | | | | | | | |
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