ecology and environment engineering and geology, p.c.
Environmental Specialists

BUFFALO CORPORATE CENTER
368 Pleasant View Drive
Lancaster, New York 14086
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May 24, 2019

Mr. Payson Long, Project Manager
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233 - 7013

Re: Mr. C's Dry Cleaners Site, Contract # D007617, Site # 915157
April 2019 Operations, Maintenance, and Monitoring Report

Dear Mr. Long:

Ecology and Environment Engineering and Geology, P.C. (E&E) is pleased to provide the April 2019 Operations, Maintenance, and Monitoring (OM&M) Report for the Mr. C's Dry Cleaners Site, NYSDEC Site # 915157, located in the Village of East Aurora, New York.

During the April 2019 reporting period, the treatment system was in operation from April 2 to April 30, 2019. The April monthly OM&M sampling was performed on April 30, 2019, and the results were received from SAI on May 13, 2019 (See Attachment A). A summary of field activities prepared by E&E's subcontractor, IYER Environmental Group, PLLC. (IEG), is provided in Attachment B. The current annual site utility cost information is provided in Attachment C.

In review of the on-site treatment system operations, monitoring and maintenance from IEG for April 2019, E&E offers the following comments and highlights:

**Operational Summary:**

- Based on inspection reports prepared by IEG, the remedial treatment system for the period of April 2 through April 30, 2019, had an approximate operational up-time of 100.00%, and 121,416 gallons of contaminated groundwater were treated during the reporting period. The treated effluent volumes and operational up-time can be seen in Table 1.
- The compliance samples from April 30, 2019 met all requirements of the SPDES Equivalency permit. The effluent results for April 30, 2019 are provided in Table 2.
- The analytical summary results of the April 30, 2019 samples revealed the total volatile organic contaminant concentrations of the influent to be 4,460.00 µg/L and the concentration of total volatile organic contaminants in the effluent was 5.20 µg/L. The summary of influent and effluent contaminant concentrations for the April 2019 sampling are presented in Table 3. Acetone was detected in the effluent sample, but not the influent sample. It is suspected that this is due to lab contamination. Figure 1 shows the influent and effluent VOC concentrations during each sampling event in 2018 and 2019.

- The Mr. C's treatment system, based on the total flows from the uptime operations, removed 4.52 lbs. of targeted contaminants from the groundwater between April 2 to April 30, 2019. The cleanup effectiveness for April 2019 was approximately 100%. The calculations and data for the month are presented in Table 3. The mass of VOCs removed each month throughout 2018 and 2019 is shown in Figure 2.

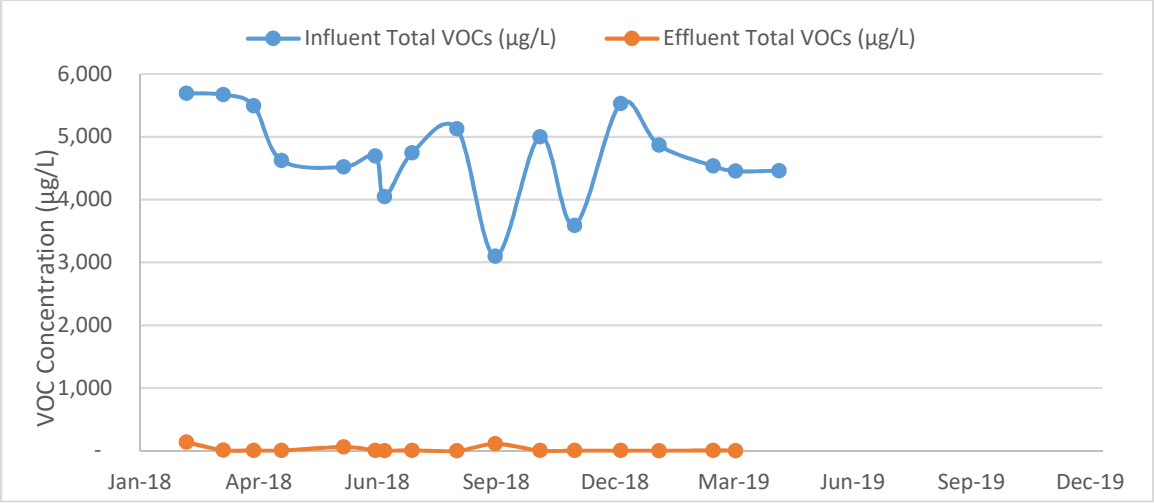


**Figure 1:** Monthly Influent and Effluent VOC concentrations - 2018 and 2019.

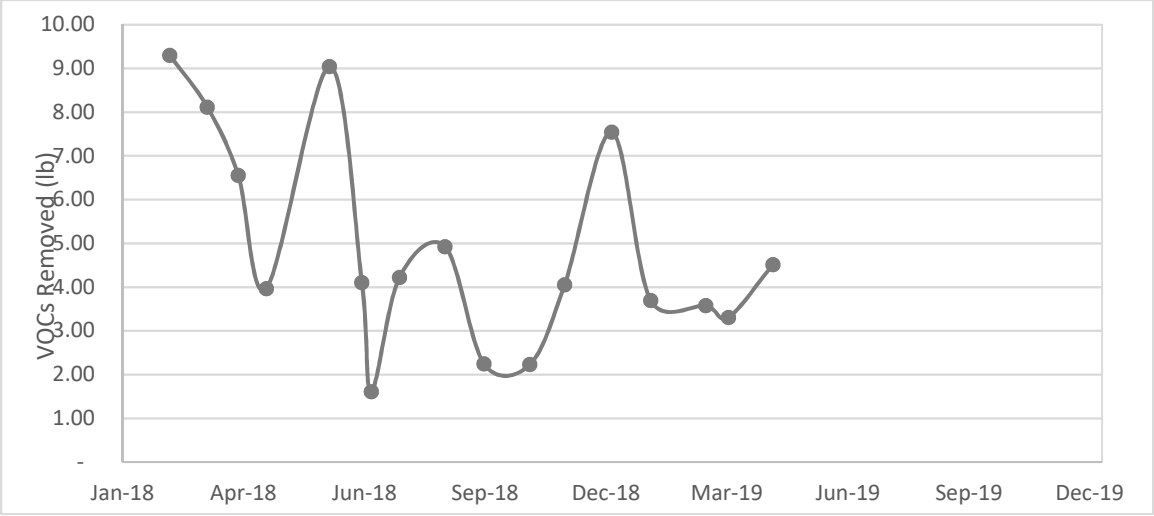


**Figure 2:** Mass of VOCs removed each month - 2018 and 2019.

If you have questions regarding the April 2019 OM&M report summary, please do not hesitate to contact me at 716-684-8060 or asmith@ene.com.

Very Truly Yours,
**Ecology and Environment Engineering and Geology, P. C**.

Ashlee Smith, P.E.
Project Manager

cc: D. Szymanski, Region 9, NYSDEC – Buffalo w/ attachments
D. Iyer, IEG w/ attachments

**Table 1**
**Mr. C's Dry Cleaners Site Remediation**
**Site #915157**
**System Operation and Management**

| Month | Sample Date | Up-time (Reporting Period) | | Treated Effluent (gallon) | VOC Removal | | |
|---|---|---|---|---|---|---|---|
| | | Reporting Hours | Operational Up-time | | Influent VOCs (µg/L) | Effluent VOCs(µg/L) | VOCs Removed (lbs.) |
| **(Treatment System Up-time from 9/5/02 to 01/02/19)** | | **126,541.50** | **91.36%** | **133,095,600** | **NA** | **NA** | **1,753.47** |
| January 03, 2019 to January 31, 2019 | January 29,2019 | 696 | 100.00% | 91,077 | 4868.30 | 3.70 | 3.70 |
| February 01, 2019 to February 28, 2019 | March 11, 2019 | 516 | 76.79% | 94,609 | 4538.10 | 6.20 | 3.58 |
| March 01, 2019 to April 01, 2019 | March 28, 2019 | 768 | 65.63% | 89,168 | 4454.80 | 3.90 | 3.31 |
| April 02, 2019 to April 30, 2019 | April 30, 2019 | 696 | 100.00% | 121,416 | 4460.00 | 5.20 | 4.52 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| *Total in 2019* | | **2,676.00** | **85.04%** | **396,270** | **18,321.20** | **19.00** | **15.11** |
| *Total from startup* | | **129,217.50** | **91.24%** | **133,491,870** | **NA** | **NA** | **1,768.59** |

NOTES:

1. Up-time based as percentage of total reporting hours.
2. Treatment system operated by Iyer Environmental Group from 07/07/2016 to present.
3. VOC removal calculations are based on monthly water samples and assumes samples are representative of the entire reporting period.
4. VOC removal calculations assume that non-detect values = 0 ug/L.
5. Total VOCs summations include estimated "J" values.
6. VOC removal calculations are based on effluent totalizer readings.
7. "Influent VOCs" and "Effluent VOCs" values given above is the summation of values for individual compounds given in monthly analytical reports.
8. Unit conversion: 1 pound = 453.5924 grams, 1 gallon = 3.785 liters
9. Formula for the VOC removal calculation:

$(VOCs_{Influent} - VOCs_{Effluent})(ug/L) \cdot (1g/10^{6} ug) \cdot (1\ lb/453.5924\ g) \cdot (Monthly\ process\ water)(gal) \cdot (3.785\ L/gallon)$

**Table 2**
**Mr. C's Dry Cleaners Site Remediation**
**Site #915157**
**Effluent Discharge Criteria & Analytical Compliance Results**

| Parameter/Analyte | Daily Maximum[1] | Units | April 30, 2019 Effluent Analytical Values Compliance |
|---|---|---|---|
| Flow (Average)[2] | N/A | gpd | 4,458 |
| pH | 6.0 - 9.0 | standard units | 8.48 |
| 1,1 Dichloroethene | 10 | µg/L | ND(<1.0) |
| cis-1,2-dichloroethene | 10 | µg/L | ND(<1.0) |
| Trichloroethene | 10 | µg/L | ND(<1.0) |
| Tetrachloroethene | 10 | µg/L | ND(<1.0) |
| Vinyl Chloride | 10 | µg/L | ND(<1.0) |
| Benzene | 5 | µg/L | ND(<0.70) |
| Ethylbenzene | 5 | µg/L | ND(<1.0) |
| Methylene Chloride | 10 | µg/L | ND(<3.0) |
| 1,1,1 Trichloroethane | 10 | µg/L | ND(<1.0) |
| Toluene | 5 | µg/L | ND(<1.0) |
| Methyl-t-Butyl Ether (MTBE) | NA | ug/L | ND(<1.0) |
| o-Xylene[3] | 5 | µg/L | ND(<1.0) |
| m, p-Xylene[3] | 10 | µg/L | ND(<1.0) |
| Total Xylenes | NA | ug/L | ND(<1.0) |
| Iron, total[4] | 600 | µg/L | NA[4] |
| Aluminum[4] | 4,000 | µg/L | NA[4] |
| Copper[4] | 48 | µg/L | NA[4] |
| Lead[4] | 11 | µg/L | NA[4] |
| Manganese[4] | 2,000 | µg/L | NA[4] |
| Silver[4] | 100 | µg/L | NA[4] |
| Vanadium[4] | 28 | µg/L | NA[4] |
| Zinc[4] | 230 | µg/L | NA[4] |
| Total Dissolved Solids[4] | 850 | mg/L | NA[4] |
| Total Suspended Solids[4] | 20 | mg/L | NA[4] |
| Hardness | N/A | | 535 |
| Cyanide, Free[4] | 10 | µg/L | NA[4] |

**NOTES:**

1. "Daily Maximum" excerpted from Attachment E of Addendum 1 to the Construction Contract Documents dated October 2000.
2. Average flows based on effluent readings:

   **April 2 - April 30, 2019 = 4,458 gallons per day**

3. Analytical report did not differentiate between o-Xylene and m, p-Xylene. Total Xylene value reported is given in each line.
4. Removed from the required analysis list by NYSDEC Region 9 in February 2005.
5. Dark shaded cells indicate that analytical value exceeds the "Daily Maximum."
6. "ND" indicates that the compound was not detected and lists the practical quantitation limit in parentheses.
7. "NA" indicates that analyses were not performed and data is unavailable.
8. "J" indicates an estimated value below the detection limit.
9. "B" indicates analyte found in the associated blank.
10. "NS" indicates that the parameter analysis was not sampled.

**Indicates non-compliance with the NYSDEC effluent discharge requirements**
40 **Indicates Not Reported by Lab**
NR

# Table 3
# Mr. C's Dry Cleaners Site Remediation
# NYSDEC Site #915157
# April 2019 VOC Analytical Summary

| Compound | Based on the April 30, 2019 Effluent Analytical Results | | | | |
|---|---|---|---|---|---|
| | Influent Concentration (ug/L) | | Effluent Concentration (ug/L) | | Cleanup Efficiency* (%) |
| Acetone | ND(<50) | U | 5.2 | S | NA |
| Benzene | ND(<7) | U | ND(<0.70) | U | NA |
| cis-1, 2-Dichloroethene | 2100 | | ND(<1.0) | U | 100.00% |
| Chloroform | ND(<50) | U | ND(<5.0) | U | NA |
| Chloromethane | ND(<50) | U | ND(<5.0) | U | NA |
| Methylene chloride | ND(<30) | U | ND(<3.0) | U | NA |
| Methyl tert-butyl ether (MTBE) | ND(<10) | U | ND(<1.0) | U | 100.00% |
| Methyl acetate | ND(<50) | U | ND(<5.0) | U | NA |
| Tetrachloroethene (PCE) | 1900 | | ND(<1.0) | U | 100.00% |
| Toluene | ND(<10) | U | ND(<1.0) | U | NA |
| Trichloroethene (TCE) | 270 | | ND(<1.0) | U | 100.00% |
| Carbon Disulfide | ND(<10) | U | ND(<1.0) | U | NA |
| 1,1,2 Trichloro-1,2,2-trifluororethane | ND(<10) | U | ND(<1.0) | U | NA |
| 2-Hexanone | ND(<25) | U | ND(<2.5) | U | NA |
| 4-Methyl-2-pentanone | ND(<25) | U | ND(<2.5) | U | NA |
| Cyclohexane | ND(<10) | U | ND(<1.0) | U | NA |
| trans-1,2-dichloroethene | ND(<50) | U | ND(<5.0) | U | 100.00% |
| Chlorobenzene | ND(<50) | U | ND(<5.0) | U | NA |
| Methylcyclohexane | ND(<50) | U | ND(<5.0) | U | NA |
| Ethylbenzene | ND(<10) | U | ND(<1.0) | U | NA |
| Vinyl Chloride | 190 | | ND(<1.0) | U | 100.00% |
| Total Xylenes | ND(<10) | U | ND(<1.0) | U | NA |
| TOTAL: | **4460.0** | | **5.2** | | **100%** |

**Notes:**

1. The efficiency cleanup values are calculated based on the April 30, 2019 results
2. "NA" = Not applicable
3. "U" = Compound analyzed, but was not detected. Detection limit in parentheses.
4. "DJ" or "J" indicates an estimated value below the practical quantitation limit but above the method detection limit.
5. Non-detect values are assumed to be equal to zero for calculation of monthly average concentrations.
6. "S" indicates an estimated value and suspected lab contamination.
7. "Bold" - exceeds the SPDES Equilavency Permit Requirements.

* Contaminants of Concern only

# Attachment A
# Excerpts from the Groundwater Treatment System Analytical Report from Spectrum Analytical Laboratories

## Analytical Data Package Work Order ID: SC54607
## Sampled by IEG: April 30, 2019
## Report Received: May 13, 2019

eurofins | Spectrum Analytical

☑ Final Report
☐ Revised Report

Report Date:
13-May-19 16:55

# *Laboratory Report*
# SC54607

Ecology and Environment, Inc.
368 Pleasant View Drive
Lancaster, NY 14086
Attn: Jose Ramirez Hernandez

Project: Mr. C's - East Aurora, NY
Project #: [none]

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87936
Maine # MA138
New Hampshire # 2972/2538
New Jersey # MA011
New York # 11393
Pennsylvania # 68-04426/68-02924
Rhode Island # LAO00348
USDA # P330-15-00375
Vermont # VT-11393

Authorized by:

Dawn Wojcik
Laboratory Director

Eurofins Spectrum Analytical holds primary NELAC certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 36 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

*Eurofins Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Eurofins Spectrum Analytical, Inc. is currently accredited for the specific method or analyte indicated. Please refer to our 'Quality' web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Eurofins Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (PA-68-04426).*

*Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.*

## Sample Summary

**Work Order:** SC54607

**Project:** Mr. C's - East Aurora, NY

**Project Number:** [none]

| Laboratory ID | Client Sample ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| SC54607-01 | Influent | Ground Water | 30-Apr-19 14:30 | 01-May-19 10:30 |
| SC54607-02 | Effluent | Ground Water | 30-Apr-19 14:30 | 01-May-19 10:30 |
| SC54607-03 | HCL TB | Trip Blank | 30-Apr-19 14:30 | 01-May-19 10:30 |

**CASE NARRATIVE:**

Data has been reported to the RDL. This report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the detection limit are reported as "<" (less than) the detection limit in this report.

The samples were received 2.2 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group. If method or program required MS/MSD/Dup were not performed, sufficient sample was not provided to the laboratory.

Analyses for Total Hardness, pH, and Total Residual Chlorine fall under the state of Pennsylvania code Chapter 252.6 accreditation by rule.

**See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.**

## SW8260C

**Blanks:**

CD05185-BLK

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

% 1,2-dichlorobenzene-d4
% Bromofluorobenzene
% Dibromofluoromethane
% Toluene-d8
1,1,1,2-Tetrachloroethane
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,1-Dichloropropene
1,2,3-Trichlorobenzene
1,2,3-Trichloropropane
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,2-Dibromo-3-chloropropane
1,2-Dibromoethane
1,2-Dichlorobenzene
1,2-Dichloroethane
1,2-Dichloropropane
1,3,5-Trimethylbenzene
1,3-Dichlorobenzene
1,3-Dichloropropane
1,4-Dichlorobenzene
2,2-Dichloropropane
2-Chlorotoluene
2-Hexanone
2-Isopropyltoluene
4-Chlorotoluene
4-Methyl-2-pentanone
Acetone
Acrolein
Acrylonitrile
Benzene
Bromobenzene
Bromochloromethane

## SW8260C

**Blanks:**

CD05185-BLK

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Bromodichloromethane
Bromoform
Bromomethane
Carbon Disulfide
Carbon tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Cyclohexane
Dibromochloromethane
Dibromomethane
Dichlorodifluoromethane
Ethylbenzene
Hexachlorobutadiene
Isopropylbenzene
m&p-Xylene
Methyl Acetate
Methyl ethyl ketone
Methyl t-butyl ether (MTBE)
Methylcyclohexane
Methylene chloride
Naphthalene
n-Butylbenzene
n-Propylbenzene
o-Xylene
p-Isopropyltoluene
sec-Butylbenzene
Styrene
tert-Butylbenzene
Tetrachloroethene
Tetrahydrofuran (THF)
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
trans-1,4-dichloro-2-butene
Trichloroethene
Trichlorofluoromethane
Trichlorotrifluoroethane
Vinyl chloride

CD07117-BLK

## SW8260C

**Blanks:**

CD07117-BLK

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

% 1,2-dichlorobenzene-d4
% Bromofluorobenzene
% Dibromofluoromethane
% Toluene-d8
1,1,1,2-Tetrachloroethane
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,1-Dichloropropene
1,2,3-Trichlorobenzene
1,2,3-Trichloropropane
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,2-Dibromo-3-chloropropane
1,2-Dibromoethane
1,2-Dichlorobenzene
1,2-Dichloroethane
1,2-Dichloropropane
1,3,5-Trimethylbenzene
1,3-Dichlorobenzene
1,3-Dichloropropane
1,4-Dichlorobenzene
2,2-Dichloropropane
2-Chlorotoluene
2-Hexanone
2-Isopropyltoluene
4-Chlorotoluene
4-Methyl-2-pentanone
Acetone
Acrolein
Acrylonitrile
Benzene
Bromobenzene
Bromochloromethane
Bromodichloromethane
Bromoform
Bromomethane
Carbon Disulfide
Carbon tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Cyclohexane
Dibromochloromethane
Dibromomethane
Dichlorodifluoromethane
Ethylbenzene
Hexachlorobutadiene
Isopropylbenzene
m&p-Xylene
Methyl Acetate

## SW8260C

**Blanks:**

CD07117-BLK

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Methyl ethyl ketone
Methyl t-butyl ether (MTBE)
Methylcyclohexane
Methylene chloride
Naphthalene
n-Butylbenzene
n-Propylbenzene
o-Xylene
p-Isopropyltoluene
sec-Butylbenzene
Styrene
tert-Butylbenzene
Tetrachloroethene
Tetrahydrofuran (THF)
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
trans-1,4-dichloro-2-butene
Trichloroethene
Trichlorofluoromethane
Trichlorotrifluoroethane
Vinyl chloride

**Laboratory Control Samples:**

CD05185-LCS

## SW8260C

**Laboratory Control Samples:**

CD05185-LCS

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

% 1,2-dichlorobenzene-d4
% Bromofluorobenzene
% Dibromofluoromethane
% Toluene-d8
1,1,1,2-Tetrachloroethane
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,1-Dichloropropene
1,2,3-Trichlorobenzene
1,2,3-Trichloropropane
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,2-Dibromo-3-chloropropane
1,2-Dibromoethane
1,2-Dichlorobenzene
1,2-Dichloroethane
1,2-Dichloropropane
1,3,5-Trimethylbenzene
1,3-Dichlorobenzene
1,3-Dichloropropane
1,4-Dichlorobenzene
2,2-Dichloropropane
2-Chlorotoluene
2-Hexanone
2-Isopropyltoluene
4-Chlorotoluene
4-Methyl-2-pentanone
Acetone
Acrolein
Acrylonitrile
Benzene
Bromobenzene
Bromochloromethane
Bromodichloromethane
Bromoform
Bromomethane
Carbon Disulfide
Carbon tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Cyclohexane
Dibromochloromethane
Dibromomethane
Dichlorodifluoromethane
Ethylbenzene
Hexachlorobutadiene
Isopropylbenzene
m&p-Xylene
Methyl Acetate

## SW8260C

**Laboratory Control Samples:**

CD05185-LCS

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Methyl ethyl ketone
Methyl t-butyl ether (MTBE)
Methylcyclohexane
Methylene chloride
Naphthalene
n-Butylbenzene
n-Propylbenzene
o-Xylene
p-Isopropyltoluene
sec-Butylbenzene
Styrene
tert-Butylbenzene
Tetrachloroethene
Tetrahydrofuran (THF)
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
trans-1,4-dichloro-2-butene
Trichloroethene
Trichlorofluoromethane
Trichlorotrifluoroethane
Vinyl chloride

CD05185-LCSD

[Undefined]

Dichlorodifluoromethane

## SW8260C

**Laboratory Control Samples:**

CD05185-LCSD

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

% 1,2-dichlorobenzene-d4
% Bromofluorobenzene
% Dibromofluoromethane
% Toluene-d8
1,1,1,2-Tetrachloroethane
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,1-Dichloropropene
1,2,3-Trichlorobenzene
1,2,3-Trichloropropane
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,2-Dibromo-3-chloropropane
1,2-Dibromoethane
1,2-Dichlorobenzene
1,2-Dichloroethane
1,2-Dichloropropane
1,3,5-Trimethylbenzene
1,3-Dichlorobenzene
1,3-Dichloropropane
1,4-Dichlorobenzene
2,2-Dichloropropane
2-Chlorotoluene
2-Hexanone
2-Isopropyltoluene
4-Chlorotoluene
4-Methyl-2-pentanone
Acetone
Acrolein
Acrylonitrile
Benzene
Bromobenzene
Bromochloromethane
Bromodichloromethane
Bromoform
Bromomethane
Carbon Disulfide
Carbon tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Cyclohexane
Dibromochloromethane
Dibromomethane
Ethylbenzene
Hexachlorobutadiene
Isopropylbenzene
m&p-Xylene
Methyl Acetate
Methyl ethyl ketone

## SW8260C

**Laboratory Control Samples:**

CD05185-LCSD

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Methyl t-butyl ether (MTBE)
Methylcyclohexane
Methylene chloride
Naphthalene
n-Butylbenzene
n-Propylbenzene
o-Xylene
p-Isopropyltoluene
sec-Butylbenzene
Styrene
tert-Butylbenzene
Tetrachloroethene
Tetrahydrofuran (THF)
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
trans-1,4-dichloro-2-butene
Trichloroethene
Trichlorofluoromethane
Trichlorotrifluoroethane
Vinyl chloride

This parameter is outside laboratory lcs/lcsd specified recovery limits.

Dichlorodifluoromethane

CD07117-LCS

## SW8260C

**Laboratory Control Samples:**

CD07117-LCS

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

% 1,2-dichlorobenzene-d4
% Bromofluorobenzene
% Dibromofluoromethane
% Toluene-d8
1,1,1,2-Tetrachloroethane
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,1-Dichloropropene
1,2,3-Trichlorobenzene
1,2,3-Trichloropropane
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,2-Dibromo-3-chloropropane
1,2-Dibromoethane
1,2-Dichlorobenzene
1,2-Dichloroethane
1,2-Dichloropropane
1,3,5-Trimethylbenzene
1,3-Dichlorobenzene
1,3-Dichloropropane
1,4-Dichlorobenzene
2,2-Dichloropropane
2-Chlorotoluene
2-Hexanone
2-Isopropyltoluene
4-Chlorotoluene
4-Methyl-2-pentanone
Acetone
Acrolein
Acrylonitrile
Benzene
Bromobenzene
Bromochloromethane
Bromodichloromethane
Bromoform
Bromomethane
Carbon Disulfide
Carbon tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Cyclohexane
Dibromochloromethane
Dibromomethane
Dichlorodifluoromethane
Ethylbenzene
Hexachlorobutadiene
Isopropylbenzene
m&p-Xylene
Methyl Acetate

## SW8260C

**Laboratory Control Samples:**

CD07117-LCS

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Methyl ethyl ketone
Methyl t-butyl ether (MTBE)
Methylcyclohexane
Methylene chloride
Naphthalene
n-Butylbenzene
n-Propylbenzene
o-Xylene
p-Isopropyltoluene
sec-Butylbenzene
Styrene
tert-Butylbenzene
Tetrachloroethene
Tetrahydrofuran (THF)
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
trans-1,4-dichloro-2-butene
Trichloroethene
Trichlorofluoromethane
Trichlorotrifluoroethane
Vinyl chloride

CD07117-LCSD

## SW8260C

**Laboratory Control Samples:**

CD07117-LCSD

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

% 1,2-dichlorobenzene-d4
% Bromofluorobenzene
% Dibromofluoromethane
% Toluene-d8
1,1,1,2-Tetrachloroethane
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,1-Dichloropropene
1,2,3-Trichlorobenzene
1,2,3-Trichloropropane
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,2-Dibromo-3-chloropropane
1,2-Dibromoethane
1,2-Dichlorobenzene
1,2-Dichloroethane
1,2-Dichloropropane
1,3,5-Trimethylbenzene
1,3-Dichlorobenzene
1,3-Dichloropropane
1,4-Dichlorobenzene
2,2-Dichloropropane
2-Chlorotoluene
2-Hexanone
2-Isopropyltoluene
4-Chlorotoluene
4-Methyl-2-pentanone
Acetone
Acrolein
Acrylonitrile
Benzene
Bromobenzene
Bromochloromethane
Bromodichloromethane
Bromoform
Bromomethane
Carbon Disulfide
Carbon tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Cyclohexane
Dibromochloromethane
Dibromomethane
Dichlorodifluoromethane
Ethylbenzene
Hexachlorobutadiene
Isopropylbenzene
m&p-Xylene
Methyl Acetate

## SW8260C

**Laboratory Control Samples:**

CD07117-LCSD

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Methyl ethyl ketone
Methyl t-butyl ether (MTBE)
Methylcyclohexane
Methylene chloride
Naphthalene
n-Butylbenzene
n-Propylbenzene
o-Xylene
p-Isopropyltoluene
sec-Butylbenzene
Styrene
tert-Butylbenzene
Tetrachloroethene
Tetrahydrofuran (THF)
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
trans-1,4-dichloro-2-butene
Trichloroethene
Trichlorofluoromethane
Trichlorotrifluoroethane
Vinyl chloride

**Samples:**

SC54607-02 *Effluent*

S - Laboratory solvent, contamination is possible.

Acetone

## Summary of Hits

**Lab ID:** SC54607-01 **Client ID:** Influent

| Parameter | Result | Flag | Reporting Limit | Units | Analytical Method |
|---|---|---|---|---|---|
| Hardness (CaCO3) | 558 | | 0.1 | mg/l | E200.7 |
| Calcium | 180 | | 0.10 | mg/l | SW6010D |
| Magnesium | 26.3 | | 0.010 | mg/l | SW6010D |
| cis-1,2-Dichloroethene | 2100 | | 100 | ug/l | SW8260C |
| Tetrachloroethene | 1900 | | 100 | ug/l | SW8260C |

**Lab ID:** SC54607-01RE1 **Client ID:** Influent

| Parameter | Result | Flag | Reporting Limit | Units | Analytical Method |
|---|---|---|---|---|---|
| Trichloroethene | 270 | | 10 | ug/l | SW8260C |
| Vinyl chloride | 190 | | 10 | ug/l | SW8260C |

**Lab ID:** SC54607-02 **Client ID:** Effluent

| Parameter | Result | Flag | Reporting Limit | Units | Analytical Method |
|---|---|---|---|---|---|
| Hardness (CaCO3) | 586 | | 0.1 | mg/l | E200.7 |
| Calcium | 192 | | 0.10 | mg/l | SW6010D |
| Magnesium | 25.8 | | 0.010 | mg/l | SW6010D |
| Acetone | 5.2 | S | 5.0 | ug/l | SW8260C |

*Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.*

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **Influent**<br>SC54607-01 | [none] | Ground Water | 30-Apr-19 14:30 | 01-May-19 |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry Parameters** | | | | | | | | | | | | | |
| | pH | **7.14** | pH | pH Units | | | 1 | ASTM D 1293-99B | 01-May-19 12:00 | 01-May-19 12:00 | ABW | 1900603 | |
| **Subcontracted Analyses** | | | | | | | | | | | | | |
| *Analysis performed by Phoenix Environmental Labs, Inc. * - CT007* | | | | | | | | | | | | | |
| | Hardness (CaCO3) | **558** | | mg/l | 0.1 | | 1 | E200.7 | 09-May-19 14:20 | 09-May-19 14:20 | 11301 | '[none]' | |
| Subcontracted Analyses<br>Prepared by method SW3005A/SW3010A | | | | | | | | | | | | | |
| *Analysis performed by Phoenix Environmental Labs, Inc. * - CT007* | | | | | | | | | | | | | |
| 7440-70-2 | Calcium | **180** | | mg/l | 0.10 | 0.030 | 10 | SW6010D | 01-May-19 | 02-May-19 21:50 | 11301 | 477208A | |
| 7439-95-4 | Magnesium | **26.3** | | mg/l | 0.010 | 0.01 | 1 | " | " | " | " | " | |
| Subcontracted Analyses<br>Prepared by method SW8260C | | | | | | | | | | | | | |
| *Analysis performed by Phoenix Environmental Labs, Inc. * - CT007* | | | | | | | | | | | | | |
| 156-59-2 | cis-1,2-Dichloroethene | **2,100** | | ug/l | 100 | 25 | 100 | SW8260C | 07-May-19 09:05 | 07-May-19 09:52 | 11301 | 478011A | |
| 127-18-4 | Tetrachloroethene | **1,900** | | ug/l | 100 | 25 | 100 | " | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | | | |
| *2199-69-1* | *% 1,2-dichlorobenzene-d4* | *99* | | | *70-130 %* | | | " | " | " | " | " | |
| *460-00-4* | *% Bromofluorobenzene* | *92* | | | *70-130 %* | | | " | " | " | " | " | |
| *1868-53-7* | *% Dibromofluoromethane* | *95* | | | *70-130 %* | | | " | " | " | " | " | |
| *2037-26-5* | *% Toluene-d8* | *99* | | | *70-130 %* | | | " | " | " | " | " | |
| Re-analysis of Subcontracted Analyses<br>Prepared by method SW8260C | | | | | | | | | | | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | < 10 | | ug/l | 10 | 2.5 | 10 | SW8260C | 07-May-19 09:05 | 07-May-19 10:14 | 11301 | 478011A | |
| 71-55-6 | 1,1,1-Trichloroethane | < 50 | | ug/l | 50 | 2.5 | 10 | " | " | " | " | " | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 79-00-5 | 1,1,2-Trichloroethane | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 75-34-3 | 1,1-Dichloroethane | < 50 | | ug/l | 50 | 2.5 | 10 | " | " | " | " | " | |
| 75-35-4 | 1,1-Dichloroethene | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 563-58-6 | 1,1-Dichloropropene | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 87-61-6 | 1,2,3-Trichlorobenzene | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 96-18-4 | 1,2,3-Trichloropropane | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 120-82-1 | 1,2,4-Trichlorobenzene | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 95-63-6 | 1,2,4-Trimethylbenzene | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | < 10 | | ug/l | 10 | 5.0 | 10 | " | " | " | " | " | |
| 106-93-4 | 1,2-Dibromoethane | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 95-50-1 | 1,2-Dichlorobenzene | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 107-06-2 | 1,2-Dichloroethane | < 6.0 | | ug/l | 6.0 | 5.0 | 10 | " | " | " | " | " | |
| 78-87-5 | 1,2-Dichloropropane | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 108-67-8 | 1,3,5-Trimethylbenzene | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 541-73-1 | 1,3-Dichlorobenzene | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 142-28-9 | 1,3-Dichloropropane | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 106-46-7 | 1,4-Dichlorobenzene | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 594-20-7 | 2,2-Dichloropropane | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 95-49-8 | 2-Chlorotoluene | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **Influent** | [none] | Ground Water | 30-Apr-19 14:30 | 01-May-19 |
| SC54607-01 | | | | |

| *CAS No.* | *Analyte(s)* | *Result* | *Flag* | *Units* | **RDL* | *MDL* | *Dilution* | *Method Ref.* | *Prepared* | *Analyzed* | *Analyst* | *Batch* | *Cert.* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Subcontracted Analyses** | | | | | | | | | | | | | |
| *Analysis performed by Phoenix Environmental Labs, Inc. * - CT007* | | | | | | | | | | | | | |
| Re-analysis of Subcontracted Analyses | | | | | | | | | | | | | |
| 591-78-6 | 2-Hexanone | < 25 | | ug/l | 25 | 25 | 10 | SW8260C | 07-May-19 09:05 | 07-May-19 10:14 | 11301 | 478011A | |
| 527-84-4 | 2-Isopropyltoluene | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 106-43-4 | 4-Chlorotoluene | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 108-10-1 | 4-Methyl-2-pentanone | < 25 | | ug/l | 25 | 25 | 10 | " | " | " | " | " | |
| 67-64-1 | Acetone | < 50 | | ug/l | 50 | 25 | 10 | " | " | " | " | " | |
| 107-02-8 | Acrolein | < 50 | | ug/l | 50 | 25 | 10 | " | " | " | " | " | |
| 107-13-1 | Acrylonitrile | < 50 | | ug/l | 50 | 25 | 10 | " | " | " | " | " | |
| 71-43-2 | Benzene | < 7.0 | | ug/l | 7.0 | 2.5 | 10 | " | " | " | " | " | |
| 108-86-1 | Bromobenzene | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 74-97-5 | Bromochloromethane | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 75-27-4 | Bromodichloromethane | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 75-25-2 | Bromoform | < 50 | | ug/l | 50 | 2.5 | 10 | " | " | " | " | " | |
| 74-83-9 | Bromomethane | < 50 | | ug/l | 50 | 2.5 | 10 | " | " | " | " | " | |
| 75-15-0 | Carbon Disulfide | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 56-23-5 | Carbon tetrachloride | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 108-90-7 | Chlorobenzene | < 50 | | ug/l | 50 | 2.5 | 10 | " | " | " | " | " | |
| 75-00-3 | Chloroethane | < 50 | | ug/l | 50 | 2.5 | 10 | " | " | " | " | " | |
| 67-66-3 | Chloroform | < 50 | | ug/l | 50 | 2.5 | 10 | " | " | " | " | " | |
| 74-87-3 | Chloromethane | < 50 | | ug/l | 50 | 2.5 | 10 | " | " | " | " | " | |
| 10061-01-5 | cis-1,3-Dichloropropene | < 4.0 | | ug/l | 4.0 | 2.5 | 10 | " | " | " | " | " | |
| 110-82-7 | Cyclohexane | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 124-48-1 | Dibromochloromethane | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 74-95-3 | Dibromomethane | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 75-71-8 | Dichlorodifluoromethane | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 100-41-4 | Ethylbenzene | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 87-68-3 | Hexachlorobutadiene | < 5.0 | | ug/l | 5.0 | 2.0 | 10 | " | " | " | " | " | |
| 98-82-8 | Isopropylbenzene | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 179601-23-1 | m&p-Xylene | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 79-20-9 | Methyl Acetate | < 50 | | ug/l | 50 | 10 | 10 | " | " | " | " | " | |
| 78-93-3 | Methyl ethyl ketone | < 25 | | ug/l | 25 | 25 | 10 | " | " | " | " | " | |
| 1634-04-4 | Methyl t-butyl ether (MTBE) | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 108-87-2 | Methylcyclohexane | < 50 | | ug/l | 50 | 5.0 | 10 | " | " | " | " | " | |
| 75-09-2 | Methylene chloride | < 30 | | ug/l | 30 | 10 | 10 | " | " | " | " | " | |
| 104-51-8 | n-Butylbenzene | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 103-65-1 | n-Propylbenzene | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 91-20-3 | Naphthalene | < 10 | | ug/l | 10 | 10 | 10 | " | " | " | " | " | |
| 95-47-6 | o-Xylene | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 99-87-6 | p-Isopropyltoluene | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 135-98-8 | sec-Butylbenzene | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 100-42-5 | Styrene | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 98-06-6 | tert-Butylbenzene | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 109-99-9 | Tetrahydrofuran (THF) | < 50 | | ug/l | 50 | 25 | 10 | " | " | " | " | " | |
| 108-88-3 | Toluene | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **Influent** SC54607-01 | [none] | Ground Water | 30-Apr-19 14:30 | 01-May-19 |

| *CAS No.* | *Analyte(s)* | *Result* | *Flag* | *Units* | **RDL* | *MDL* | *Dilution* | *Method Ref.* | *Prepared* | *Analyzed* | *Analyst* | *Batch* | *Cert.* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Subcontracted Analyses** | | | | | | | | | | | | | |
| *Analysis performed by Phoenix Environmental Labs, Inc. * - CT007* | | | | | | | | | | | | | |
| Re-analysis of Subcontracted Analyses | | | | | | | | | | | | | |
| 156-60-5 | trans-1,2-Dichloroethene | < 50 | | ug/l | 50 | 2.5 | 10 | SW8260C | 07-May-19 09:05 | 07-May-19 10:14 | 11301 | 478011A | |
| 10061-02-6 | trans-1,3-Dichloropropene | < 4.0 | | ug/l | 4.0 | 2.5 | 10 | " | " | " | " | " | |
| 110-57-6 | trans-1,4-dichloro-2-buten e | < 25 | | ug/l | 25 | 25 | 10 | " | " | " | " | " | |
| 79-01-6 | Trichloroethene | **270** | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 75-69-4 | Trichlorofluoromethane | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 76-13-1 | Trichlorotrifluoroethane | < 10 | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| 75-01-4 | Vinyl chloride | **190** | | ug/l | 10 | 2.5 | 10 | " | " | " | " | " | |
| *Surrogate recoveries:* | | | | | | | | | | | | | |
| *2199-69-1* | *% 1,2-dichlorobenzene-d4* | *99* | | | *70-130 %* | | | " | " | " | " | " | |
| *460-00-4* | *% Bromofluorobenzene* | *92* | | | *70-130 %* | | | " | " | " | " | " | |
| *1868-53-7* | *% Dibromofluoromethane* | *99* | | | *70-130 %* | | | " | " | " | " | " | |
| *2037-26-5* | *% Toluene-d8* | *100* | | | *70-130 %* | | | " | " | " | " | " | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **Effluent** SC54607-02 | [none] | Ground Water | 30-Apr-19 14:30 | 01-May-19 |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry Parameters** | | | | | | | | | | | | | |
| | pH | **8.48** | pH | pH Units | | | 1 | ASTM D 1293-99B | 01-May-19 12:00 | 01-May-19 12:00 | ABW | 1900603 | |
| **Subcontracted Analyses** | | | | | | | | | | | | | |
| *Analysis performed by Phoenix Environmental Labs, Inc. * - CT007* | | | | | | | | | | | | | |
| | Hardness (CaCO3) | **586** | | mg/l | 0.1 | | 1 | E200.7 | 09-May-19 14:25 | 09-May-19 14:25 | 11301 | '[none]' | |
| Subcontracted Analyses Prepared by method SW3005A/SW3010A | | | | | | | | | | | | | |
| *Analysis performed by Phoenix Environmental Labs, Inc. * - CT007* | | | | | | | | | | | | | |
| 7440-70-2 | Calcium | **192** | | mg/l | 0.10 | 0.030 | 10 | SW6010D | 01-May-19 | 02-May-19 21:52 | 11301 | 477208A | |
| 7439-95-4 | Magnesium | **25.8** | | mg/l | 0.010 | 0.01 | 1 | " | " | " | " | " | |
| Subcontracted Analyses Prepared by method SW8260C | | | | | | | | | | | | | |
| *Analysis performed by Phoenix Environmental Labs, Inc. * - CT007* | | | | | | | | | | | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | SW8260C | 07-May-19 09:05 | 07-May-19 09:29 | 11301 | 478011A | |
| 71-55-6 | 1,1,1-Trichloroethane | < 5.0 | | ug/l | 5.0 | 0.25 | 1 | " | " | " | " | " | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 79-00-5 | 1,1,2-Trichloroethane | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 75-34-3 | 1,1-Dichloroethane | < 5.0 | | ug/l | 5.0 | 0.25 | 1 | " | " | " | " | " | |
| 75-35-4 | 1,1-Dichloroethene | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 563-58-6 | 1,1-Dichloropropene | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 87-61-6 | 1,2,3-Trichlorobenzene | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 96-18-4 | 1,2,3-Trichloropropane | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 120-82-1 | 1,2,4-Trichlorobenzene | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 95-63-6 | 1,2,4-Trimethylbenzene | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | < 1.0 | | ug/l | 1.0 | 0.50 | 1 | " | " | " | " | " | |
| 106-93-4 | 1,2-Dibromoethane | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 95-50-1 | 1,2-Dichlorobenzene | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 107-06-2 | 1,2-Dichloroethane | < 0.60 | | ug/l | 0.60 | 0.50 | 1 | " | " | " | " | " | |
| 78-87-5 | 1,2-Dichloropropane | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 108-67-8 | 1,3,5-Trimethylbenzene | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 541-73-1 | 1,3-Dichlorobenzene | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 142-28-9 | 1,3-Dichloropropane | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 106-46-7 | 1,4-Dichlorobenzene | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 594-20-7 | 2,2-Dichloropropane | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 95-49-8 | 2-Chlorotoluene | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 591-78-6 | 2-Hexanone | < 2.5 | | ug/l | 2.5 | 2.5 | 1 | " | " | " | " | " | |
| 527-84-4 | 2-Isopropyltoluene | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 106-43-4 | 4-Chlorotoluene | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 108-10-1 | 4-Methyl-2-pentanone | < 2.5 | | ug/l | 2.5 | 2.5 | 1 | " | " | " | " | " | |
| 67-64-1 | Acetone | **5.2** | S | ug/l | 5.0 | 2.5 | 1 | " | " | " | " | " | |
| 107-02-8 | Acrolein | < 5.0 | | ug/l | 5.0 | 2.5 | 1 | " | " | " | " | " | |
| 107-13-1 | Acrylonitrile | < 5.0 | | ug/l | 5.0 | 2.5 | 1 | " | " | " | " | " | |
| 71-43-2 | Benzene | < 0.70 | | ug/l | 0.70 | 0.25 | 1 | " | " | " | " | " | |
| 108-86-1 | Bromobenzene | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 74-97-5 | Bromochloromethane | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **Effluent** SC54607-02 | [none] | Ground Water | 30-Apr-19 14:30 | 01-May-19 |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Subcontracted Analyses** | | | | | | | | | | | | | |
| Subcontracted Analyses | | | | | | | | | | | | | |
| *Analysis performed by Phoenix Environmental Labs, Inc. * - CT007* | | | | | | | | | | | | | |
| 75-27-4 | Bromodichloromethane | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | SW8260C | 07-May-19 09:05 | 07-May-19 09:29 | 11301 | 478011A | |
| 75-25-2 | Bromoform | < 5.0 | | ug/l | 5.0 | 0.25 | 1 | " | " | " | " | " | |
| 74-83-9 | Bromomethane | < 5.0 | | ug/l | 5.0 | 0.25 | 1 | " | " | " | " | " | |
| 75-15-0 | Carbon Disulfide | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 56-23-5 | Carbon tetrachloride | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 108-90-7 | Chlorobenzene | < 5.0 | | ug/l | 5.0 | 0.25 | 1 | " | " | " | " | " | |
| 75-00-3 | Chloroethane | < 5.0 | | ug/l | 5.0 | 0.25 | 1 | " | " | " | " | " | |
| 67-66-3 | Chloroform | < 5.0 | | ug/l | 5.0 | 0.25 | 1 | " | " | " | " | " | |
| 74-87-3 | Chloromethane | < 5.0 | | ug/l | 5.0 | 0.25 | 1 | " | " | " | " | " | |
| 156-59-2 | cis-1,2-Dichloroethene | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 10061-01-5 | cis-1,3-Dichloropropene | < 0.40 | | ug/l | 0.40 | 0.25 | 1 | " | " | " | " | " | |
| 110-82-7 | Cyclohexane | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 124-48-1 | Dibromochloromethane | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 74-95-3 | Dibromomethane | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 75-71-8 | Dichlorodifluoromethane | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 100-41-4 | Ethylbenzene | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 87-68-3 | Hexachlorobutadiene | < 0.50 | | ug/l | 0.50 | 0.20 | 1 | " | " | " | " | " | |
| 98-82-8 | Isopropylbenzene | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 179601-23-1 | m&p-Xylene | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 79-20-9 | Methyl Acetate | < 5.0 | | ug/l | 5.0 | 1.0 | 1 | " | " | " | " | " | |
| 78-93-3 | Methyl ethyl ketone | < 2.5 | | ug/l | 2.5 | 2.5 | 1 | " | " | " | " | " | |
| 1634-04-4 | Methyl t-butyl ether (MTBE) | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 108-87-2 | Methylcyclohexane | < 5.0 | | ug/l | 5.0 | 0.50 | 1 | " | " | " | " | " | |
| 75-09-2 | Methylene chloride | < 3.0 | | ug/l | 3.0 | 1.0 | 1 | " | " | " | " | " | |
| 104-51-8 | n-Butylbenzene | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 103-65-1 | n-Propylbenzene | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 91-20-3 | Naphthalene | < 1.0 | | ug/l | 1.0 | 1.0 | 1 | " | " | " | " | " | |
| 95-47-6 | o-Xylene | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 99-87-6 | p-Isopropyltoluene | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 135-98-8 | sec-Butylbenzene | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 100-42-5 | Styrene | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 98-06-6 | tert-Butylbenzene | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 127-18-4 | Tetrachloroethene | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 109-99-9 | Tetrahydrofuran (THF) | < 5.0 | | ug/l | 5.0 | 2.5 | 1 | " | " | " | " | " | |
| 108-88-3 | Toluene | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 156-60-5 | trans-1,2-Dichloroethene | < 5.0 | | ug/l | 5.0 | 0.25 | 1 | " | " | " | " | " | |
| 10061-02-6 | trans-1,3-Dichloropropene | < 0.40 | | ug/l | 0.40 | 0.25 | 1 | " | " | " | " | " | |
| 110-57-6 | trans-1,4-dichloro-2-buten e | < 2.5 | | ug/l | 2.5 | 2.5 | 1 | " | " | " | " | " | |
| 79-01-6 | Trichloroethene | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 75-69-4 | Trichlorofluoromethane | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 76-13-1 | Trichlorotrifluoroethane | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |
| 75-01-4 | Vinyl chloride | < 1.0 | | ug/l | 1.0 | 0.25 | 1 | " | " | " | " | " | |

| Sample Identification | Client Project # | Matrix | Collection Date/Time | Received |
|---|---|---|---|---|
| **Effluent** SC54607-02 | [none] | Ground Water | 30-Apr-19 14:30 | 01-May-19 |

| CAS No. | Analyte(s) | Result | Flag | Units | *RDL | MDL | Dilution | Method Ref. | Prepared | Analyzed | Analyst | Batch | Cert. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Subcontracted Analyses** | | | | | | | | | | | | | |
| Subcontracted Analyses | | | | | | | | | | | | | |
| *Analysis performed by Phoenix Environmental Labs, Inc. * - CT007* | | | | | | | | | | | | | |
| *Surrogate recoveries:* | | | | | | | | | | | | | |
| *2199-69-1* | *% 1,2-dichlorobenzene-d4* | *100* | | | *70-130 %* | | | SW8260C | 07-May-19 09:05 | -May-19 09: | 11301 | 478011A | |
| *460-00-4* | *% Bromofluorobenzene* | *93* | | | *70-130 %* | | | " | " | " | " | " | |
| *1868-53-7* | *% Dibromofluoromethane* | *99* | | | *70-130 %* | | | " | " | " | " | " | |
| *2037-26-5* | *% Toluene-d8* | *98* | | | *70-130 %* | | | " | " | " | " | " | |

## Notes and Definitions

| | |
|---|---|
| c1 | [Undefined] |
| c1 | A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate. |
| c2 | |
| l | This parameter is outside laboratory lcs/lcsd specified recovery limits. |
| S | S - Laboratory solvent, contamination is possible. |
| dry | Sample results reported on a dry weight basis |
| NR | Not Reported |
| RPD | Relative Percent Difference |
| pH | The method for pH does not stipulate a specific holding time other than to state that the samples should be analyzed as soon as possible. For aqueous samples the 40 CFR 136 specifies a holding time of 15 minutes from sampling to analysis. Therefore all aqueous pH samples not analyzed in the field are considered out of hold time at the time of sample receipt. All soil samples are analyzed as soon as possible after sample receipt. |

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

SC 54607 PM

eurofins | Spectrum Analytical

# CHAIN OF CUSTODY RECORD

Page 1 of 1

**Special Handling:**

☒ Standard TAT - 7 to 10 business days

☐ Rush TAT - Date Needed: _____

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 60 days unless otherwise instructed.

Report To: E&E, Inc
368 Pleasantview Dr
Lancaster, NY 14086

Telephone #: (716) 684-8060
Project Mgr: Jose Hernandez

Invoice To: E&E, Inc

P.O No.: _____ Quote #: _____

Project No: _____
Site Name: MrCs OM&M
Location: East Aurora State: NY
Sampler(s): R. Allen

F=Field Filtered 1=$Na_2S2O_3$ 2=HCl 3=$H_2SO_4$ 4=$HNO_3$ 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=$H_3PO_4$ 11=_____ 12=_____

DW=Dinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1=_____ X2=_____ X3=_____

G= Grab C=Compsite

List Preservative Code below: - 4 2

| Lab ID: | Sample ID: | Date: | Time: | Type | Matrix | Containers: # of VOA Vials | # of Amber Glass | # of Clear Glass | # of Plastic | Analysis: pH | Hardness | VOCs | Check if chlorinated |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SC54607-01 | INFLUENT | 4/30/19 | 2:30P | G | GW | | | | 1 | ✓ | | | ☐ |
| | INFLUENT | | | G | GW | | | | 1 | | ✓ | | ☐ |
| | INFLUENT | | | G | GW | 3 | | | | | | ✓ | ☐ |
| -02 | EFFLUENT | | | G | GW | | | | 1 | ✓ | | | ☐ |
| | EFFLUENT | | | G | GW | | | | 1 | | ✓ | | ☐ |
| | EFFLUENT | | | G | GW | 3 | | | | | | ✓ | ☐ |
| -03 | HCL TB | | | G | W | 2 | | | | | | ✓ | ☐ |
| | | | | | | | | | | | | | ☐ |
| | | | | | | | | | | | | | ☐ |
| | | | | | | | | | | | | | ☐ |

**QA/QC Reporting Notes:**
* additional charges may appply

MA DEP MCP CAM Report? ☐ Yes ☒ No
CT DPH RCP Report? ☐ Yes ☒ No
☒ Standard ☐ No QC ☐ DQA*
☒ ASP A* ☐ ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ Tier II* ☐ Tier IV*
☐ Other: _____
State-specific reporting standards:

Please send another Sample Kit. (DO not send smallest cooler)

| Relinquished by: | Received by: | Date: | Time: |
|---|---|---|---|
| Richard C Allen Jr | Fedex | | |
| Fedex | | 5/1/19 | 10:30 |
| | | | |
| | | | |

Temp °C: Observed 2.2; Correction Factor 0; Corrected 2.2; IR ID # 1

☒ EDD format: PDF
☐ E-mail to: JRamirez/Hernandez@ene.com

Condition upon receipt: Custody Seals: ☑ Present ☑ Intact ☐ Broken
☐ Ambient ☑ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

# Attachment B
# IEG Summary of Field Activities

# April 2019

# MR. C's DRY CLEANERS SITE
## NYSDEC Site #9-15-157
## OM&M: SITE INSPECTION FORM

*DATE:* 1-Apr-19 *ACTIVITIES:* Site Inspection

*INSPECTION PERSONNEL:* R. Allen *OTHER PERSONNEL:* ----------

WEATHER CONDITIONS: Sunny, cool *OUTSIDE TEMPERATURE (°F):* 34

*ARE WELL PUMPS OPERATING IN AUTO:* YES: NO: √ If "NO", provide explanation below

RW-1, PW-2 and PW-3 are manually set to OFF position; PW-4 through PW-8 are in AUTO

PROVIDE WATER LEVEL READINGS ON CONTROL PANEL

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| RW-1 | ON: √ | OFF: | 14 | ft | PW-5 | ON: | OFF: √ | 6 | ft |
| PW-2 | ON: | OFF: √ | 11 | ft | PW-6 | ON: | OFF: √ | 6 | ft |
| PW-3 | ON: √ | OFF: | 12 | ft | PW-7 | ON: | OFF: √ | 6 | ft |
| PW-4 | ON: | OFF: √ | 5 | ft | PW-8 | ON: √ | OFF: | 4 | ft |

*EQUALIZATION TANK:* 4 ft Last Alarm D/T/Condition: 3/19/2019 Air Stripper Low Pressure

*NOTES:*

INFLUENT FLOW RATE: 0 gpm INFLUENT TOTALIZER READING: 17367367 gallons

*SEQUESTERING AGENT DRUM LEVEL:* 17 inches *(x 1.7=)* *AMOUNT OF AGENT REMAINING:* 29 gallons

*SEQUESTERING AGENT FEED RATE:* ----- ml/min *METERING PUMP PRESSURE:* ----- psi

| | Top | Bottom | | | Top | Bottom | |
|---|---|---|---|---|---|---|---|
| *BAG FILTER PRESSURES:* LEFT: | 0 | 0 | psi | RIGHT: | 8 | 0 | psi |

*INFLUENT FEED PUMP IN USE:* #1 √ #2 *INFLUENT PUMP PRESSURE:* 7 psi

*AIR STRIPPER BLOWER IN USE:* #1 √ #2 *AIR STRIPPER PRESSURE:* 4 in. $H_2O$

*AIR STRIPPER DIFFERENTIAL PRESSURE:* broken in. $H_2O$ *DISCHARGE PRESSURE:* 9.8 in. $H_2O$

*AIR FLOW :* 1400 fpm X 1.4 = 1960 CFM *AIR SPARGER* *LEFT* 6.6 *RIGHT* 3.0 CFM

*AIR TEMP:* 87.6 °F

*EFFLUENT PUMP IN USE:* #1 √ #2 *EFFLUENT FEED PUMP PRESSURE:* 5 psi

*EFFLUENT FLOW RATE:* 81 gpm *EFFLUENT TOTALIZER READING:* 84,908,435 | 571930 gallons

*ARE BUILDING HEATERS IN USE?* YES: √ NO: *INSIDE TEMPERATURE (°F):* 62

*IS SUMP PUMP IN USE:* YES: √ NO: *ARE ANY LEAKS PRESENT?* YES: NO: √

*WATER LEVEL IN SUMP:* 6.0 in. *TREATMENT BUILDING CLEAN & ORGANIZED?* YES: √ NO:

# MR. C's DRY CLEANERS SITE
## NYSDEC Site #90150157
## SITE INSPECTION FORM

**1-Apr-19**

***SAMPLES COLLECTED?*** **YES:** ____ **NO:** √

| | Sample ID | Time of Sampling | pH | Turbidity | Temp. | Sp. Cond. |
|---|---|---|---|---|---|---|
| ***AIR STRIPPER INFLUENT:*** | | | | | | |
| ***AIR STRIPPER EFFLUENT:*** | | | | | | |

***IS THERE EVIDENCE OF TAMPERING/VANDALISM OF WELLS: ?*** **YES:** ____ **NO:** √

***WERE MANHOLES INSPECTED?*** **YES:** √ **NO:** ____

***WERE ELECTRICAL BOXES INSPECTED?*** **YES:** √ **NO:** ____

***IS WATER PRESENT IN ANY MANHOLES OR ELECTRICAL BOXES?*** **YES:** √ **NO:** ____

**If yes, provide manhole/electric box ID and description of any corrective measures below:**

RW-1 inner ring is corroded. PZ-1B and PZ-6A have winter concrete damage around road boxes.

### SUBSLAB SYSTEMS

**TREATMENT ROOM**

**MANOMETER:** 1.3 **in. WC** (Fan Inlet)

**CONDENSATE** 1.0 **gallon** **DRAINED** Yes

| | west | east |
|---|---|---|
| **FLOW (fpm):** | | |
| **FLOW (cfm):** | | |
| **VACUUM GAUGE (in WC)** | | |

***NOTES:*** cfm = 0.05 x fpm (3" PVC)

**OTHER LOCATIONS**

586 Building SVE CONDENSATE drained: **NO**____ VOLUME: ----- gallon

***INCLUDE REMARKS & DESCRIBE ANY OTHER SYSTEM MAINTENANCE PERFORMED ON MR. C's SITE***

**Remarks:**

**Other Actions:** Replaced broken electric box cover on outside wall. Sealed conduit and electric box.

### AGWAY

**Remarks:** Site is empty of materials and has been graded and graveled.

**Other Actions:**

# MR. C's DRY CLEANERS SITE
## NYSDEC Site #9-15-157
## OM&M: SITE INSPECTION FORM

*DATE:* 17-Apr-19 *ACTIVITIES:* Site Inspection

*INSPECTION PERSONNEL:* R. Allen *OTHER PERSONNEL:* ----------

WEATHER CONDITIONS: Sunny, warm *OUTSIDE TEMPERATURE (°F):* 58

*ARE WELL PUMPS OPERATING IN AUTO:* YES: NO: √ If "NO", provide explanation below

RW-1, PW-2 and PW-3 are manually set to OFF position; PW-4 through PW-8 are in AUTO

PROVIDE WATER LEVEL READINGS ON CONTROL PANEL

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| RW-1 | ON: √ | OFF: | 14 | ft | PW-5 | ON: | OFF: √ | 6 | ft |
| PW-2 | ON: | OFF: √ | 11 | ft | PW-6 | ON: | OFF: √ | 5 | ft |
| PW-3 | ON: √ | OFF: | 12 | ft | PW-7 | ON: | OFF: √ | 3 | ft |
| PW-4 | ON: | OFF: √ | 6 | ft | PW-8 | ON: | OFF: √ | 7 | ft |

*EQUALIZATION TANK:* 3 ft Last Alarm D/T/Condition: 3/19/2019 Air Stripper Low Pressure

*NOTES:*

INFLUENT FLOW RATE: 7 gpm INFLUENT TOTALIZER READING: 17465295 gallons

*SEQUESTERING AGENT DRUM LEVEL:* 1 inches *(x 1.7=)* *AMOUNT OF AGENT REMAINING:* 2 gallons

*SEQUESTERING AGENT FEED RATE:* ----- ml/min *METERING PUMP PRESSURE:* ----- psi

| | Top | Bottom | | | Top | Bottom | |
|---|---|---|---|---|---|---|---|
| *BAG FILTER PRESSURES:* LEFT: | 0 | 0 | psi | RIGHT: | 8 | 0 | psi |

*INFLUENT FEED PUMP IN USE:* #1 √ #2 *INFLUENT PUMP PRESSURE:* 7 psi

*AIR STRIPPER BLOWER IN USE:* #1 √ #2 *AIR STRIPPER PRESSURE:* 4 in. $H_2O$

*AIR STRIPPER DIFFERENTIAL PRESSURE:* broken in. $H_2O$ *DISCHARGE PRESSURE:* 9.8 in. $H_2O$

*AIR FLOW :* 1400 fpm X 1.4 = 1960 CFM *AIR SPARGER* *LEFT* 6.4 *RIGHT* 2.8 CFM

*AIR TEMP:* 90 °F

*EFFLUENT PUMP IN USE:* #1 √ #2 *EFFLUENT FEED PUMP PRESSURE:* 4 psi

*EFFLUENT FLOW RATE:* 84 gpm *EFFLUENT TOTALIZER READING:* 84,975,510 | 639000 gallons

*ARE BUILDING HEATERS IN USE?* YES: NO: √ *INSIDE TEMPERATURE (°F):* 71

*IS SUMP PUMP IN USE:* YES: √ NO: *ARE ANY LEAKS PRESENT?* YES: NO: √

*WATER LEVEL IN SUMP:* 6.0 in. *TREATMENT BUILDING CLEAN & ORGANIZED?* YES: √ NO:

# MR. C's DRY CLEANERS SITE
## NYSDEC Site #90150157
## SITE INSPECTION FORM

**17-Apr-19**

***SAMPLES COLLECTED?*** **YES:** ____ **NO:** √

| | Sample ID | Time of Sampling | pH | Turbidity | Temp. | Sp. Cond. |
|---|---|---|---|---|---|---|
| ***AIR STRIPPER INFLUENT:*** | | | | | | |
| ***AIR STRIPPER EFFLUENT:*** | | | | | | |

***IS THERE EVIDENCE OF TAMPERING/VANDALISM OF WELLS: ?*** **YES:** ____ **NO:** √

***WERE MANHOLES INSPECTED?*** **YES:** √ **NO:** ____

***WERE ELECTRICAL BOXES INSPECTED?*** **YES:** √ **NO:** ____

***IS WATER PRESENT IN ANY MANHOLES OR ELECTRICAL BOXES?*** **YES:** √ **NO:** ____

**If yes, provide manhole/electric box ID and description of any corrective measures below:**

RW-1 inner ring is corroded.

### SUBSLAB SYSTEMS

**TREATMENT ROOM**

**MANOMETER:** **1.3** **in. WC** west east ***NOTES:*** cfm = 0.05 x fpm (3" PVC)

**(Fan Inlet)** **FLOW (fpm):**

**CONDENSATE** **0.5** **gallon** **FLOW (cfm):**

**DRAINED** **Yes** **VACUUM GAUGE (in WC)**

**OTHER LOCATIONS**

586 Building SVE CONDENSATE drained: **YES**___ VOLUME: **1.0** gallon

***INCLUDE REMARKS & DESCRIBE ANY OTHER SYSTEM MAINTENANCE PERFORMED ON MR. C's SITE***

**Remarks:**

**Other Actions:** Mixed new drum of Redux; 2 Water : 1 Redux. Rinsed out old drum.

### AGWAY

**Remarks:** Site is empty of materials and has been graded and graveled.

**Other Actions:**

# MR. C's DRY CLEANERS SITE
## NYSDEC Site #9-15-157
## OM&M: SITE INSPECTION FORM

*DATE:* 30-Apr-19 *ACTIVITIES:* Site Inspection

*INSPECTION PERSONNEL:* R. Allen *OTHER PERSONNEL:*

WEATHER CONDITIONS: Cloudy, cool *OUTSIDE TEMPERATURE (°F):* 40

*ARE WELL PUMPS OPERATING IN AUTO:* YES: NO: √ If "NO", provide explanation below

RW-1, PW-2 and PW-3 are manually set to OFF position; PW-4 through PW-8 are in AUTO

PROVIDE WATER LEVEL READINGS ON CONTROL PANEL

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| RW-1 | ON: √ | OFF: | 14 | ft | PW-5 | ON: | OFF: √ | 3 | ft |
| PW-2 | ON: | OFF: √ | 10 | ft | PW-6 | ON: | OFF: √ | 6 | ft |
| PW-3 | ON: √ | OFF: | 12 | ft | PW-7 | ON: | OFF: √ | 7 | ft |
| PW-4 | ON: | OFF: √ | 7 | ft | PW-8 | ON: | OFF: √ | 5 | ft |

*EQUALIZATION TANK:* 3 ft Last Alarm D/T/Condition: 3/19/2019 Air Stripper Low Pressure

*NOTES:*

INFLUENT FLOW RATE: 1 gpm INFLUENT TOTALIZER READING: 17544360 gallons

*SEQUESTERING AGENT DRUM LEVEL:* 19 inches *(x 1.7=)* *AMOUNT OF AGENT REMAINING:* 33 gallons

*SEQUESTERING AGENT FEED RATE:* ----- ml/min *METERING PUMP PRESSURE:* ----- psi

| | Top | Bottom | | | Top | Bottom | |
|---|---|---|---|---|---|---|---|
| *BAG FILTER PRESSURES:* LEFT: | 0 | 0 | psi | RIGHT: | 8 | 0 | psi |

*INFLUENT FEED PUMP IN USE:* #1 √ #2 *INFLUENT PUMP PRESSURE:* 7 psi

*AIR STRIPPER BLOWER IN USE:* #1 √ #2 *AIR STRIPPER PRESSURE:* 4 in. $H_2O$

*AIR STRIPPER DIFFERENTIAL PRESSURE:* broken in. $H_2O$ *DISCHARGE PRESSURE:* 9.8 in. $H_2O$

*AIR FLOW :* 1360 fpm X 1.4 = 1904 CFM *AIR SPARGER* *LEFT* 6.6 *RIGHT* 2.9 CFM

*AIR TEMP:* 86.8 °F

*EFFLUENT PUMP IN USE:* #1 √ #2 *EFFLUENT FEED PUMP PRESSURE:* 3.5 psi

*EFFLUENT FLOW RATE:* 70 gpm *EFFLUENT TOTALIZER READING:* 85,029,851 | 693340 gallons

*ARE BUILDING HEATERS IN USE?* YES: √ NO: *INSIDE TEMPERATURE (°F):* 69

*IS SUMP PUMP IN USE:* YES: √ NO: *ARE ANY LEAKS PRESENT?* YES: NO: √

*WATER LEVEL IN SUMP:* 7.0 in. *TREATMENT BUILDING CLEAN & ORGANIZED?* YES: √ NO:

# MR. C's DRY CLEANERS SITE
## NYSDEC Site #90150157
## SITE INSPECTION FORM

**30-Apr-19**

***SAMPLES COLLECTED?*** **YES:** √ **NO:** ____

| | Sample ID | Time of Sampling | pH | Turbidity | Temp. | Sp. Cond. |
|---|---|---|---|---|---|---|
| ***AIR STRIPPER INFLUENT:*** | INF | 1:30 pm | 7.5 | 6.9 | 12.7 | 3.11 |
| ***AIR STRIPPER EFFLUENT:*** | EFF | 1:30 pm | 8.6 | 8.4 | 14.5 | 3.09 |

***IS THERE EVIDENCE OF TAMPERING/VANDALISM OF WELLS: ?*** **YES:** ____ **NO:** √

***WERE MANHOLES INSPECTED?*** **YES:** √ **NO:** ____

***WERE ELECTRICAL BOXES INSPECTED?*** **YES:** √ **NO:** ____

***IS WATER PRESENT IN ANY MANHOLES OR ELECTRICAL BOXES?*** **YES:** ____ **NO:** √

**If yes, provide manhole/electric box ID and description of any corrective measures below:**

RW-1 inner ring is corroded. PZ-1B, PZ-6A and PZ-6C have winter snowplow damage.

### SUBSLAB SYSTEMS

**TREATMENT ROOM**

**MANOMETER:** **1.3** **in. WC** | west | east | ***NOTES:*** cfm = 0.05 x fpm (3" PVC)

**(Fan Inlet)** **FLOW (fpm):** | | |

**CONDENSATE** **0.5** **gallon** **FLOW (cfm):** | | |

**DRAINED** **Yes** **VACUUM GAUGE (in WC)** | |

**OTHER LOCATIONS**

586 Building SVE CONDENSATE drained: **YES**___ VOLUME: **1.0** gallon

***INCLUDE REMARKS & DESCRIBE ANY OTHER SYSTEM MAINTENANCE PERFORMED ON MR. C's SITE***

**Remarks:**

**Other Actions:**

### AGWAY

**Remarks:** Site is empty of materials and has been graded and graveled.

**Other Actions:**

# Attachment C
# Summary of Site Utility Costs and Projections
# January to December 2019

# Mr. C's Dry Cleaners Site - Remedial Treatment Utility Costs
# NYSDEC Work Assignment #1703074.0011.11
# 12 Months of System Operation and Maintenance
# April 2019 Report

**ATTACHMENT C**

| **Utility Budget:** | Electric: | $25,300.00 |
|---|---|---|
| | Telephone: | $540.00 |
| | Gas | $1,120.00 |
| | Total: | $26,960.00 |

## Gas and Electric

| Utility Provider | Account # | E&E Cost Center | Description | Jan-2019 | Feb-2019 | Mar-2019 | Apr-2019 | May-2019 | Jun-2019 |
|---|---|---|---|---|---|---|---|---|---|
| ***New York State E&G*** | 1001-0310-422 | EN-003229-0001-03TTO | Mr. C's Electric Costs | $ 1,262.22 | $ 1,406.49 | $ 861.06 | $ 1,950.53 | $ 339.38 | |
| ***New York State E&G*** | 76-311-11-015900-18 | | | | | | | | |
| ***National Fuel Gas*** | 7160295 10 | EN-003229-0001-03TTO | Mr. C's Natural Gas Costs | | | $ 22.15 | | | |
| | | | **Totals** | **$ 1,262.22** | **$ 1,406.49** | **$ 883.21** | **$ 1,950.53** | **$ 339.38** | **$ -** |

| | Jul-2019 | Aug-2019 | Sep-2019 | Oct-2019 | Nov-2019 | Dec-2019 |
|---|---|---|---|---|---|---|
| Mr. C's Electric Costs | | | | | | |
| | | | | | | |
| Mr. C's Natural Gas Costs | | | | | | |
| **Totals** | **$ -** | **$ -** | **$ -** | **$ -** | **$ -** | **$ -** |

| | | | |
|---|---|---|---|
| **Electric - Mr. C's** | **$** | **5,819.68** | **Notes:** |
| **Natural Gas - Mr. C's** | **$** | **22.15** | Overbilled natural gas costs - no charges |
| **Grand Total - NYSE&G/National Fuel Gas Costs To Date** | **$** | **5,841.83** | **Estimated Reading** |

## Telephone

| Utility Provider | Phone # | E&E Cost Center | Location Description | Jan-2019 | Feb-2019 | Mar-2019 | Apr-2019 | May-2019 | Jun-2019 |
|---|---|---|---|---|---|---|---|---|---|
| ***Granite Telecommunications*** | | | | $ 41.62 | $ 46.88 | $ 43.80 | $ 42.56 | | |
| ***Account # 01890582*** | 866-874-5500 | EN-003229-0001-03TTO | Mr. C's Telephone Costs | **Jul-2019** | **Aug-2019** | **Sep-2019** | **Oct-2019** | **Nov-2019** | **Dec-2019** |
| | | | | | | | | | |

| | | |
|---|---|---|
| **Verizon Costs to Date - Mr. C's** | **$** | **174.86** |
| **Grand Total All Utilities To Date** | **$** | **6,016.69** |

## Monthly Average Costs

| | | |
|---|---|---|
| Mr. C's Electric | $ | 1,163.94 |
| Mr. C's Gas | $ | 22.15 |
| Mr. C's Telephone | $ | 43.72 |
| **Average Utility Cost Total** | **$** | **1,229.80** |
| **12 Month Estimate** | **$** | **14,757.61** |

| **Budget Remaining:** | Electric: | $19,480.32 |
|---|---|---|
| | Telephone: | $365.14 |
| | Gas | $1,097.85 |
| | Total: | $20,943.31 |