



ecology and environment engineering, p.c.

International Specialists in the Environment

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November 4, 2015

Mr. William Welling, 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
October 2015 Operations, Maintenance, and Monitoring Report

Dear Mr. Welling:

Ecology and Environment Engineering, P.C. (EEEPC) is pleased to provide the October 2015 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. Copies of bi-monthly inspection reports prepared by EEEPC's subcontractor, Iyer Environmental Group, PLLC (IEG), are provided in [Attachment A](#). Selected pages from the individual analytical data package prepared by Spectrum Analytical Inc. (SAI), Warwick, Rhode Island are provided as [Attachment B](#). The full analytical reports along with QA/QC information will be retained by EEEPC. The site utility information is provided at [Attachment C](#).

In review of the on-site treatment system operations, monitoring and maintenance for October 2015, EEEPC offers the following comments and highlights:

Operational Summary

Mr. C's Site – Remedial Operations and Maintenance Information

- The monthly checklists for system inspections from IEG are provided as [Attachment A](#) for 10/6/15, 10/19/15, and 11/3/15.
- Based on inspection reports prepared by IEG, the remedial treatment system for the period above had a 100% operational up-time ([Table 1](#)) and the treatment of contaminated groundwater during that period totaling of 376,529 gallons ([Table 1](#)) for October 2015.
- All pumps on site are operational with the exception of PW-7 due to its close proximity to the previous "pilot" bioremediation injections
- The bag filter was changed as needed during the operation period.
- The compliance samples were taken on October 6, 2015 ([Attachment B](#)) and the analytical results were received from SAI on October 13, 2015. The results indicated achievement of the effluent discharge criteria requirements in the site specific SPDES Equivalency Permit ([Table 2](#)).

- The analytical summary results of the October 2015 samples revealed the total volatile organic contaminant concentrations of the influent to be 725.1 µg/L or 725.1 ppb. In review of the effluent concentrations the results were 22 µg/L or 22 ppb. The summary of influent and effluent contaminant concentrations for the October 2015 sampling is presented in Table 1
- The Mr. C's treatment system based on the total monthly flows removed 2.21 lbs. of targeted contaminants from the groundwater below the site in the month of October 2015 and the cleanup effectiveness was 96.7%. The calculations and data for the month are presented in Table 3.
- Piezometer readings were taken on October 21, 2015.

Subslab Depressurization Systems (SSDS) – First Presbyterian Church and 27 Whaley Ave. sites and Other Locations

- SSDS Unit manometer in the Mr. C's Treatment Bldg. (586 Main Street) maintained a subslab pressure of -1.9 inches of water column over the reporting month of October 2015.
- The systems remain operational at the 1st Presbyterian Church. The church has EEEPC's contact information in case some problem occurs with the SSDS units.
- Property owners at 27 Whaley Ave. have not returned our calls for inspection of the SSDS unit. EEEPC will continue to contact to obtain access for inspection.
- The 591 Main Street location is being discussed with the building owner since extensive remodeling is going on with the 1st floor of the building. The basement SSDS unit has been installed and is operational. Discussion needed with property owner to finalize the 2nd SSDS unit installation. Property owner has been difficult to contact, but will continue to pursue.
- Punch list review, communications testing, and post-construction air testing to be performed on three of the four locations was performed in March and April 2015. All post-construction results within acceptable depressurization requirements per NYSDOL. Final construction reports to be issued in October 2015.

Status of Bioremediation Direct Push Injection Work

- Additional review of the recommendations in the summary report to be evaluated with the Remedial Site Optimization (RSO) program.

Soil Vapor Intrusion Investigation Program (Phase 3)

- The Phase 3 SVII work for the 2015 heating season report was issued to NYSDEC / NYSDOH on August 11, 2015.
- Discuss new property locations with NYSDEC / NYSDOH for SVII work in '15-'16.

Site Management Plan

- EEEPC submitted the updated/revised SMP to NYSDEC and NYSDEC Region 9 on March 2, 2015.
- This is an active site document, so future revisions will be performed once major changes to the management of the site are required after optimization evaluation is performed.

Mr. William Welling, Project Manager

November 4, 2015

Page 3 of 3

Annual Long-term Groundwater Monitoring Well Report

- The 2015 Annual Long-term Groundwater Monitoring Well Report was completed in October 2015.

Periodic Review Report (PRR)

- The 2014 Periodic Review Report was issued to NYSDEC on January 30, 2015.
- Comments received from NYSDEC PM regarding the acceptance of the recommendations of the 2014 PRR on March 26, 2015.
- Begin prep work on the 2015 PRR.

Mr. C's Energy Usage Information

- A copy of the site utility costs from the Mr. C's remedial operations for January through October 2015 is provided as Attachment C.

If you have questions regarding the October 2015 OM&M report summary, please do not hesitate to contact me at 716-684-8060.

Very Truly Yours,

Ecology and Environment Engineering, P. C.



Michael G. Steffan
Project Manager

cc: D. Szymanski, Region 9, NYSDEC - Buffalo w/ attachments
D. Iyer, IEG - w/attachments
CTF- 10C3074.0011.07

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

Month	Up-time		Treated Effluent (gallon)	VOC Removal		
	Reporting Hours	Operational Up-time		Influent VOCs (µg/L)	Effluent VOCs(µg/L)	VOCs Removed (lbs.)
(Up-time from 9/5/02 to 12/29/14)	103,429.50	95.97%	124,813.504	NA	NA	1,591.46
December 29, 2014 - February 4, 2015	888	100.00%	400,228	818	8	2.71
February 4, 2015 - March 3, 2015	648	100.00%	278,328	857	16	1.95
March 3, 2015 - March 30, 2015	648	100.00%	316,184	938	11	2.45
March 30, 2015 - May 4, 2015	840	100.00%	426,516	683	4.3	2.42
May 4, 2015 - June 2, 2015	696	100.00%	317,968	700	0	1.86
June 2, 2015 - July 2, 2015	336	46.67%	150,785	543	0	0.68
July 2, 2015 - August 3, 2015	768	100.00%	345,737	562	0	1.62
August 3, 2015 - August 31, 2015	672	100.00%	224,755	593	0	1.11
August 31, 2015 - October 6, 2015	864	100.00%	386,828	579	1.4	1.87
October 6, 2015 - November 3, 2015	672	100.00%	376,529	725	22	2.21
<i>Total in 2015</i>	7,032.00	0.95	3,223,858	6,998.10	62.39	18.87
<i>Total from startup</i>	110,461.50	0.95	128,037,362.00	NA	NA	1,610.33

NOTES:

1. Up-time based as percentage of total reporting hours.
2. Treatment system operated by the Tyree Organization Ltd. from 9/02 - 9/03.
3. Treatment system operated by O&M Enterprises Inc. from 10/03 - 7/07.
4. Treatment system operated by Iyer Environmental Group from 7/07 to present.
5. VOC removal calculations are based on monthly water samples and assumes samples are representative of the entire reporting period.
6. VOC removal calculations assume that non-
7. Total VOCs summations include estimated "J" values.
8. VOC removal calculations are based on effluent totalizer readings.
9. "Influent VOCs" and "Effluent VOCs" values given above is the summation of values for individual compounds given in monthly analytical reports.
10. Unit conversion: 1 pound = 453.5924 grams, 1 gallon = 3.785 liters
11. Formula for the VOC removal calculation:
 $(VOCs_{Influent} - VOCs_{Effluent}) \times (\mu g/L) \times (1g/10^6 \mu g) \times (Monthly\ process\ water)(gal) \times (3.785\ L/gallon)$
12. Using the 8/17/15 analytical results.

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

Parameter/Analyte	Daily Maximum ¹	Units	October 13, 2015 - Effluent Analytical Values - Compliance
Flow (Average)	N/A	gpd	13,447
Ph	6.0 - 9.0	standard units	8.30
1,1 Dichloroethene	10	µg/L	ND(<1.0)
1,1 Dichloroethane	10	µg/L	ND(<1.0)
cis-1,2-dichloroethene	10	µg/L	9.6
Trichloroethene	10	µg/L	1.1
Tetrachloroethene	10	µg/L	9.4
Vinyl Chloride	10	µg/L	ND(<1.0)
Benzene	5	µg/L	ND(<1.0)
Ethylbenzene	5	µg/L	ND(<1.0)
Methylene Chloride	10	µg/L	ND(<1.0)
1,1,1 Trichloroethane	10	µg/L	ND(<1.0)
Toluene	5	µg/L	ND(<1.0)
Methyl-t-Butyl Ether (MTBE)	NA	µg/L	0.57 J
o-Xylene ²	5	µg/L	NA
m, p-Xylene ²	10	µg/L	NA
Total Xylenes	NA	µg/L	ND(<1.0)
Iron, total	600	µg/L	NA ⁹
Aluminum	4,000	µg/L	NA ⁹
Copper	48	µg/L	NA ⁹
Lead	11	µg/L	NA ⁹
Manganese	2,000	µg/L	NA ⁹
Silver	100	µg/L	NA ⁹
Vanadium	28	µg/L	NA ⁹
Zinc	230	µg/L	NA ⁹
Total Dissolved Solids	850	mg/L	NA ⁹
Total Suspended Solids	20	mg/L	NA ⁹
Hardness	N/A	mg/L	260
Cyanide, Free	10	µg/L	NA ⁹

NOTES:

1. "Daily Maximum" excerpted from Attachment E of Addendum 1 to the Construction Contract Documents dated October 2000.
2. Analytical report did not differentiate between o-Xylene and m, p-Xylene. Total Xylene value reported is given in each line.
3. Shaded cells indicate that analytical value exceeds the "Daily Maximum."
4. "ND" indicates that the compound was not detected and lists the practical quantitation limit in parentheses.
5. "NA" indicates that analyses were not performed and data is unavailable.
6. Average flows based on effluent readings: October 6, 2015 through November 3, 2015, Total gallons: 376,529 divided by 28 operating days.
7. "J" indicates an estimated value below the detection limit.
8. "B" indicates analyte found in the associated blank.
9. Removed from the required analysis list by NYSDEC Region 9 in February 2005.
10. "NS" indicates that the parameter analysis was not sampled.

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

Table 3
Mr. C's Dry Cleaners Site Remediation
NYSDEC Site #915157
October 2015 VOC Analytical Summary

Compound	Based on the 10/13/15 Effluent Analytical Results				
	Influent Concentration*		Effluent Concentration**		Cleanup Efficiency***
	(ug/L)		(ug/L)		(%)
Acetone	ND (<25)	U	ND (<5.0)	U	NA
Benzene	ND (<5)	U	ND (<1.0)	U	NA
2-Butanone	ND (<25)	U	ND (<5.0)	U	NA
cis-1, 2-Dichloroethene	250		9.6		96.16%
Chloroform	ND (<5)	U	ND (<1.0)	U	NA
Chloeromethane	ND (<5)	U	1.4		-1.40%
Methylene chloride	ND (<5)	U	ND (<1.0)	U	NA
Methyl tert-butyl ether (MTBE)	4.1	J	0.57	J	NA
Methyl acetate	ND (<5)	U	ND (<1.0)	U	NA
Tetrachloroethene (PCE)	420		9.4		97.76%
Toluene	ND (<5)	U	ND (<1.0)	U	NA
Trichloroethene (TCE)	40.0		1.1		97.25%
Carbon Disulfide	ND (<5)	U	ND (<1.0)	U	NA
1,1,2 Trichloro-1,2,2-trifluoroethane	ND (<5)	U	ND (<1.0)	U	NA
2-Hexanone	ND (<25)	U	ND (<5.0)	U	NA
4-Methyl-2-pentanone	ND (<25)	U	ND (<5.0)	U	NA
Cyclohexane	ND (<5)	U	ND (<1.0)	U	NA
trans-1,2-dichloroethene	ND (<5)	U	ND (<1.0)	U	NA
Chlorobenzene	ND (<5)	U	ND (<1.0)	U	NA
Methylcyclohexane	ND (<5)	U	ND (<1.0)	U	NA
Ethylbenzene	ND (<5)	U	ND (<1.0)	U	NA
Methyl acetate	ND (<5)	U	ND (<1.0)	U	NA
Vinyl Chloride	11		ND (<1.0)	U	100.00%
Total Xylenes	ND (<5)	U	ND (<1.0)	U	NA
<ul style="list-style-type: none"> The 1st progress monitoring sampling of the groundwater wells associated with the "pilot" bioaugmentation program was performed on July 1-2, 2013. 					96.96%
		725.1			22.07

Notes:

- "NA" = Not applicable
- "U" = Compound analyzed, but was not detected. Detection limit in parentheses.
- "DJ" or "J" indicates an estimated value below the practical quantitation limit but above the method detection limit.
- Non-detect values are assumed to be equal to zero for calculation of monthly average concentrations.
- "D" indicates the compound concentration was obtained from a secondary dilution analysis.
- Acetone was not detected in the influent sample above the MDL but detected in the effluent sample. It is not a contaminant of concern for the Mr. C's site.

* Detection Limits (<10) and (<50)

** Detection Limits (<1) and (<5)

*** Contaminants of Concern only

Attachment A
IEG Weekly Inspection Reports
October 2015

Including:

10/6/15

10/19/15

11/3/15

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

DATE: <u>6-Oct-15</u>		ACTIVITIES: <u>Site Inspection</u>	
INSPECTION PERSONNEL: <u>R. Allen</u>		OTHER PERSONNEL: _____	
WEATHER CONDITIONS: <u>Cloudy, warm</u>		OUTSIDE TEMPERATURE (° F): <u>66</u>	
ARE WELL PUMPS OPERATING IN AUTO: YES: _____ NO: <input checked="" type="checkbox"/> If "NO", provide explanation below			
<u>PW-3 is OFF due to maintenance problem. New pump to be installed</u>			
<u>PW-7 is OFF due to injection operation.</u>			
PROVIDE WATER LEVEL READINGS ON CONTROL PANEL			
RW-1	ON: <input checked="" type="checkbox"/>	OFF: <u>6</u> ft	PW-5 ON: _____ OFF: <input checked="" type="checkbox"/> <u>6</u> ft
PW-2	ON: _____	OFF: <input checked="" type="checkbox"/> <u>3</u> ft	PW-6 ON: _____ OFF: <input checked="" type="checkbox"/> <u>3</u> ft
PW-3	ON: <input checked="" type="checkbox"/>	OFF: _____ <u>11</u> ft	PW-7 ON: <input checked="" type="checkbox"/> OFF: _____ <u>12</u> ft
PW-4	ON: _____	OFF: <input checked="" type="checkbox"/> <u>4</u> ft	PW-8 ON: _____ OFF: <input checked="" type="checkbox"/> <u>6</u> ft
EQUALIZATION TANK: <u>4</u> ft		Last Alarm DT/Condition: <u>10/6/15 PW-2 Overload</u>	
NOTES: _____			
INFLUENT FLOW RATE: <u>36</u> gpm		INFLUENT TOTALIZER READING <u>10,112,831.0</u> gallons	
SEQUESTERING AGENT DRUM LEVEL: <u>8</u> inches		(x 1.7=) AMOUNT OF AGENT REMAINING: <u>13.5</u> gallons	
SEQUESTERING AGENT FEED RATE: _____ ml/min		METERING PUMP PRESSURE: <u>4.0</u> psi	
BAG FILTER PRESSURES:		Top Bottom	Top Bottom
LEFT: <u>0</u> <u>0</u> psi		RIGHT: <u>8</u> <u>0</u> psi	
INFLUENT FEED PUMP IN USE: #1 <input checked="" type="checkbox"/> #2 _____		INFLUENT PUMP PRESSURE: <u>7</u> psi	
AIR STRIPPER BLOWER IN USE: #1 <input checked="" type="checkbox"/> #2 _____		AIR STRIPPER PRESSURE: <u>41.0</u> in. H ₂ O	
AIR STRIPPER DIFFERENTIAL PRESSURE: <u>broken</u> in. H ₂ O		DISCHARGE PRESSURE: <u>0.00</u> in. H ₂ O	
AIR FLOW: <u>700</u> fpm X 1.4 = <u>980</u> CFM (16" PVC)			
EFFLUENT PUMP IN USE: #1 _____ #2 <input checked="" type="checkbox"/>		EFFLUENT FEED PUMP PRESSURE: _____ <u>9</u> psi	
EFFLUENT FLOW RATE: <u>138</u> gpm		EFFLUENT TOTALIZER READING: <u>79,336,592</u> 943480 gallons	
ARE BUILDING HEATERS IN USE? YES: _____ NO: <input checked="" type="checkbox"/>		INSIDE TEMPERATURE (° F): <u>82</u>	
IS SUMP PUMP IN USE: YES: _____ NO: <input checked="" type="checkbox"/>		ARE ANY LEAKS PRESENT? YES: _____ NO: <input checked="" type="checkbox"/>	
WATER LEVEL IN SUMP: <u>7.0</u> in.		TREATMENT BUILDING CLEAN & ORGANIZED? YES: <input checked="" type="checkbox"/> NO: _____	

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

6-Oct-15

SAMPLES COLLECTED? YES: NO:

	Sample ID	Time of Sampling	pH	Turbidity	Temp.	Sp. Cond.
AIR STRIPPER INFLUENT:	INF	1:00p	8.15	5.80	19.7	1810
AIR STRIPPER EFFLUENT:	EFF	1:00p	9.00	3.16	20.4	1843

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:

PZ-1B has surface concrete damage from winter conditions.

SUBSLAB SYSTEM

MANOMETER: <u>1.9</u> in. WC (Fan Inlet)	west	east	NOTES: <u>cfm = 0.05 x fpm (3" PVC)</u>
	FLOW (fpm): 500	1050	
	FLOW (cfm): 25	52.5	

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

Remarks:

Other Actions: Changed bag filters

PW-3: replaced defective well pump.

RW-1, PW-4, PW-5: inspect, clean transducers and well pumps.

AGWAY

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

Other Actions: Parking lot around well group PW-3 is being paved.

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

DATE: <u>19-Oct-15</u>		ACTIVITIES: <u>Site Inspection</u>									
INSPECTION PERSONNEL: <u>R. Allen</u>		OTHER PERSONNEL: <u>E & E, Inc.</u>									
WEATHER CONDITIONS: <u>Partly cloudy, cool</u>		OUTSIDE TEMPERATURE (° F): <u>50</u>									
ARE WELL PUMPS OPERATING IN AUTO: YES: _____ NO: <input checked="" type="checkbox"/> If "NO", provide explanation below											
<u>PW-7 is OFF due to injection operation.</u>											
PROVIDE WATER LEVEL READINGS ON CONTROL PANEL											
RW-1	ON: _____	OFF: <input checked="" type="checkbox"/> <u>7</u> ft	PW-5 ON: _____ OFF: <input checked="" type="checkbox"/> <u>7</u> ft								
PW-2	ON: _____	OFF: <input checked="" type="checkbox"/> <u>7</u> ft	PW-6 ON: _____ OFF: <input checked="" type="checkbox"/> <u>6</u> ft								
PW-3	ON: _____	OFF: <input checked="" type="checkbox"/> <u>6</u> ft	PW-7 ON: <input checked="" type="checkbox"/> OFF: _____ <u>12</u> ft								
PW-4	ON: _____	OFF: <input checked="" type="checkbox"/> <u>6</u> ft	PW-8 ON: _____ OFF: <input checked="" type="checkbox"/> <u>7</u> ft								
EQUALIZATION TANK: <u>3</u> ft		Last Alarm D/T/Condition: <u>10/19/2015 PW-2 Overload</u>									
NOTES: _____											
INFLUENT FLOW RATE: <u>10</u> gpm		INFLUENT TOTALIZER READING <u>10,327,265.0</u> gallons									
SEQUESTERING AGENT DRUM LEVEL: <u>25</u> inches		(x 1.7=) AMOUNT OF AGENT REMAINING: <u>42.5</u> gallons									
SEQUESTERING AGENT FEED RATE: _____ ml/min		METERING PUMP PRESSURE: <u>4.0</u> psi									
BAG FILTER PRESSURES: LEFT: <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="text-align: center;">Top</td><td style="text-align: center;">Bottom</td></tr><tr><td style="text-align: center;">11 - 0</td><td style="text-align: center;">0</td></tr></table> psi		Top	Bottom	11 - 0	0	RIGHT: <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="text-align: center;">Top</td><td style="text-align: center;">Bottom</td></tr><tr><td style="text-align: center;">20 - 8</td><td style="text-align: center;">0</td></tr></table> psi		Top	Bottom	20 - 8	0
Top	Bottom										
11 - 0	0										
Top	Bottom										
20 - 8	0										
INFLUENT FEED PUMP IN USE: #1 <input checked="" type="checkbox"/> #2 _____		INFLUENT PUMP PRESSURE: <u>7</u> psi									
AIR STRIPPER BLOWER IN USE: #1 <input checked="" type="checkbox"/> #2 _____		AIR STRIPPER PRESSURE: <u>43.0</u> in. H ₂ O									
AIR STRIPPER DIFFERENTIAL PRESSURE: <u>broken</u> in. H ₂ O		DISCHARGE PRESSURE: <u>0.00</u> in. H ₂ O									
AIR FLOW: <u>500</u> fpm X 1.4 = <u>700</u> CFM											
EFFLUENT PUMP IN USE: #1 _____ #2 <input checked="" type="checkbox"/>		EFFLUENT FEED PUMP PRESSURE: <u>10</u> psi									
EFFLUENT FLOW RATE: <u>137</u> gpm		EFFLUENT TOTALIZER READING: <u>79,512,428</u> 120020 gallons									
ARE BUILDING HEATERS IN USE? YES: _____ NO: <input checked="" type="checkbox"/>		INSIDE TEMPERATURE (° F): <u>78</u>									
IS SUMP PUMP IN USE: YES: <input checked="" type="checkbox"/> NO: _____		ARE ANY LEAKS PRESENT? YES: _____ NO: <input checked="" type="checkbox"/>									
WATER LEVEL IN SUMP: <u>6.0</u> in.		TREATMENT BUILDING CLEAN & ORGANIZED? YES: <input checked="" type="checkbox"/> NO: _____									

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

19-Oct-15

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:

PZ-1B has surface concrete damage from winter conditions.

SUBSLAB SYSTEM

MANOMETER: <u> 1.9 </u> in. WC	west	east	NOTES: <u> cfm = 0.05 x fpm (3" PVC) </u>
(Fan Inlet)	FLOW (fpm): _____	_____	_____
	FLOW (cfm): _____	_____	_____
VACUUM GAUGE (in WC)	_____	_____	_____

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

Remarks: _____

Other Actions: Changed bag filters.

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: <u>3-Nov-15</u>		ACTIVITIES: <u>Site Inspection</u>	
INSPECTION PERSONNEL: <u>R. Allen</u>		OTHER PERSONNEL: _____	
WEATHER CONDITIONS: <u>Sunny, warm</u>		OUTSIDE TEMPERATURE (° F): <u>66</u>	
ARE WELL PUMPS OPERATING IN AUTO: YES: _____ NO: <input checked="" type="checkbox"/> If "NO", provide explanation below			
<u>PW-7 is OFF due to injection operation.</u>			
PROVIDE WATER LEVEL READINGS ON CONTROL PANEL			
RW-1	ON: <input checked="" type="checkbox"/>	OFF: <u>7</u> ft	PW-5 ON: _____ OFF: <input checked="" type="checkbox"/> <u>6</u> ft
PW-2	ON: _____	OFF: <input checked="" type="checkbox"/> <u>3</u> ft	PW-6 ON: _____ OFF: <input checked="" type="checkbox"/> <u>6</u> ft
PW-3	ON: _____	OFF: <input checked="" type="checkbox"/> <u>7</u> ft	PW-7 ON: <input checked="" type="checkbox"/> OFF: _____ <u>12</u> ft
PW-4	ON: _____	OFF: <input checked="" type="checkbox"/> <u>3</u> ft	PW-8 ON: <input checked="" type="checkbox"/> OFF: _____ <u>5</u> ft
EQUALIZATION TANK: <u>4</u> ft		Last Alarm D/T/Condition: <u>11/3/15 PW-2 Overload</u>	
NOTES: _____			
INFLUENT FLOW RATE: <u>0</u> gpm		INFLUENT TOTALIZER READING: <u>10,592,371.0</u> gallons	
SEQUESTERING AGENT DRUM LEVEL: <u>8</u> inches		(x 1.7=) AMOUNT OF AGENT REMAINING: <u>13.5</u> gallons	
SEQUESTERING AGENT FEED RATE: _____ ml/min		METERING PUMP PRESSURE: _____ psi	
BAG FILTER PRESSURES:			
		Top	Bottom
LEFT:	<u>0</u>	<u>0</u> psi	RIGHT: _____
		Top	Bottom
		<u>0</u> psi	<u>0</u> psi
INFLUENT FEED PUMP IN USE: #1 <input checked="" type="checkbox"/> #2 _____		INFLUENT PUMP PRESSURE: <u>6</u> psi	
AIR STRIPPER BLOWER IN USE: #1 <input checked="" type="checkbox"/> #2 _____		AIR STRIPPER PRESSURE: <u>43.0</u> in. H ₂ O	
AIR STRIPPER DIFFERENTIAL PRESSURE: <u>broken</u> in. H ₂ O		DISCHARGE PRESSURE: <u>< 0.0</u> in. H ₂ O	
AIR FLOW: _____ fpm X 1.4 = _____ CFM			
EFFLUENT PUMP IN USE: #1 _____ #2 <input checked="" type="checkbox"/>		EFFLUENT FEED PUMP PRESSURE: <u>9</u> psi	
EFFLUENT FLOW RATE: <u>144</u> gpm		EFFLUENT TOTALIZER READING: <u>79,713,121</u> 321320 gallons	
ARE BUILDING HEATERS IN USE? YES: _____ NO: <input checked="" type="checkbox"/>		INSIDE TEMPERATURE (° F): <u>94</u>	
IS SUMP PUMP IN USE: YES: <input checked="" type="checkbox"/> NO: _____		ARE ANY LEAKS PRESENT? YES: _____ NO: <input checked="" type="checkbox"/>	
WATER LEVEL IN SUMP: <u>6.0</u> in.		TREATMENT BUILDING CLEAN & ORGANIZED? YES: <input checked="" type="checkbox"/> NO: _____	

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

3-Nov-15

SAMPLES COLLECTED? YES: NO:

	Sample ID	Time of Sampling	pH	Turbidity	Temp.	Sp. Cond.
AIR STRIPPER INFLUENT:	INF	2:00 PM	8.59	3.12	20.4	1190
AIR STRIPPER EFFLUENT:	EFF	2:00 PM	8.34	3.09	21.4	1675

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:

PZ-1B has surface concrete damage from winter conditions.

SUBSLAB SYSTEM

MANOMETER: 1.9 in. WC (Fan Inlet)

	west	east	NOTES:
FLOW (fpm):			cfm = 0.05 x fpm (3" PVC)
FLOW (cfm):			
VACUUM GAUGE (in WC)			

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:

MR. C's DRY CLEANERS SITE
 NYSDEC Site #9-15-157
OM&M: PIEZOMETER WATER LEVEL LOG

Date: 21-Oct-15

Measurements taken by: R. Allen

RW-1	<u>18.40</u> ft	Comments:	
PZ-1A	<u>-----</u> ft	Comments:	Auto parked over
PZ-1B	<u>11.29</u> ft	Comments:	
PZ-1C	<u>12.45</u> ft	Comments:	
PZ-1D	<u>12.57</u> ft	Comments:	
PW-2	<u>14.10</u> ft	Comments:	
PZ-2A	<u>11.07</u> ft	Comments:	
PZ-2B	<u>11.43</u> ft	Comments:	
PZ-2C	<u>10.93</u> ft	Comments:	
MW-7	<u>11.43</u> ft	Comments:	Substitute for 2D
PW-3	<u>19.90</u> ft	Comments:	
PZ-3A	<u>11.58</u> ft	Comments:	
PZ-3B	<u>-----</u> ft	Comments:	Auto parked over
PZ-3C	<u>12.14</u> ft	Comments:	
PZ-3D	<u>11.64</u> ft	Comments:	
PW-4	<u>16.70</u> ft	Comments:	
PZ-4A	<u>11.10</u> ft	Comments:	
PZ-4B	<u>10.94</u> ft	Comments:	
PZ-4C	<u>-----</u> ft	Comments:	sealed over
PZ-4D	<u>10.62</u> ft	Comments:	

PW-5	<u>16.60</u> ft	Comments:	
PZ-5A	<u>10.85</u> ft	Comments:	
PZ-5B	<u>10.89</u> ft	Comments:	
PZ-5C	<u>10.51</u> ft	Comments:	
PZ-5D	<u>11.28</u> ft	Comments:	
PW-6	<u>14.50</u> ft	Comments:	
PZ-6A	<u>11.62</u> ft	Comments:	
PZ-6B	<u>11.69</u> ft	Comments:	
PZ-6C	<u>11.75</u> ft	Comments:	
PZ-6D	<u>11.63</u> ft	Comments:	Shown as RW-2 on map
PW-7	<u> </u> ft	Comments:	injection operation
MPI-6S	<u> </u> ft	Comments:	injection operation
PZ-7B	<u>11.44</u> ft	Comments:	
OW-B	<u>11.37</u> ft	Comments:	
PZ-7D	<u> </u> ft	Comments:	injection operation
PW-8	<u>21.90</u> ft	Comments:	
PZ-8A	<u>8.39</u> ft	Comments:	
PZ-8B	<u>8.30</u> ft	Comments:	
PZ-8C	<u>7.99</u> ft	Comments:	
PZ-8D	<u>8.04</u> ft	Comments:	

PUMPS IN OPERATION DURING MEASUREMENTS			
RW-1 pump on?	<u> </u> Yes	<u> √ </u> No	
PW-2 pump on?	<u> </u> Yes	<u> √ </u> No	
PW-3 pump on?	<u> </u> Yes	<u> √ </u> No	
PW-4 pump on?	<u> </u> Yes	<u> √ </u> No	
PW-5 pump on?	<u> </u> Yes	<u> √ </u> No	
PW-6 pump on?	<u> </u> Yes	<u> √ </u> No	
PW-7 pump on?	<u> </u> Yes	<u> </u> No	
PW-8 pump on?	<u> √ </u> Yes	<u> </u> No	

Mr. C's CLEANERS OM&M

SUMMARY OF FIELD ACTIVITIES BY IEG - 10/2015

DATE	ACTIVITY
5-Oct	September End of Month Summaries.
6-Oct	OM&M Weekly Inspection and sampling. Changed bag filters.
8-Oct	PW-3 replace well pump. PW-4, PW-5 and RW-1 inspect and clean transducers and well pumps.
13-Oct	OM&M Weekly Inspection.
19-Oct	OM&M Weekly Inspection. Changed bag filters.
21-Oct	Piezometer Readings.
22-Oct	OM&M Office Work
29-Oct	OM&M Weekly Inspection. Contact E&E, Inc concerning PW-6 and PW-8 not ON. Inspect Church SVE fan. Accept Redux delivery.
30-Oct	Clean and test SVE fan at Church

Mr. C's CLEANERS OM&M
STATUS OF FIELD ACTIVITIES BY IEG - 10/2015

ACTIVITY	DESCRIPTION	COMPLETION DATE/STATUS
PanelView is Defective	Analyze PanelView and determine the correct repair / replacement. Replace PanelView with upgraded model.	Jul-15
Replace Air Stripper Exhaust	Air Stripper exhaust is very heavy & leaks moisture. Replaced with lighter system.	Aug-15
PW-7 pitless adapter	Pitless adapter does not seal well. Repair or replace pitless adapter	Aug-15
PW-8 pitless adapter	Pitless adapter feels broken/does not seal well. Replaced pitless adapter	Aug-15
PW-6 pumping into itself	Water enters well with pump running, faulty check valve. Tested/repared	Aug-15
MW OW-B corroded through	Inner ring of piezometer corroded through. Repair hole or replace inner ring.	Aug-15
Gas Line Interferes with Maintenance	The Gas Line that runs through the Treatment Room hangs down from the ceiling too far. This interferes with Air Stripper maintenance. Move gas line higher.	Aug-15
MPI-5S cover is loose.	IAE complained of a loose cover on a piezometer in the parking lot. Clean and lube top cover bolt. Realign riser cap to clear top cover bracket during top cover instal.	Aug-15
PW-4 UE Level	Asphalt around Underground Enclosure has sunk, leaving it vulnerable to damage. Bring parking lot up to level with asphalt patch.	in progress
Rebuild JAC Pump as needed	Jesco America Corp recommends rebuilding the Redux pump when needed. Purchased rebuild kit.	in progress
Brace Effluent Pipe	David Szymanski (NYSDEC) inspected Treatment Room and said that the effluent pipe should be braced in (3) places to the north wall.	in progress
Inspect and clean Manholes	Inspect manholes near operating pumps. Pump out water in manholes and clean out remaining sediment and other material.	in progress
Trim Broken Piezometers	Many of the piezometers are broken. Measuring water levels is not precise when a pipe is broken. Identify and trim all broken piezometers.	in progress
Cool Treatment Room	Temperature in Treatment Room is well above 90 degrees during the summer months. Need to increase outside air inflow to the room.	in progress
Filter Housings are corroded	Flanges that seal filter baskets inside Rosedale Filter Housings are corroded. Sediment flows around filters instead of being trapped. Replace seals in existing housings (short term). Replace housings (long term).	in progress
Replace Air Stripper Latches	Around (6) latches on the Air Stripper trays are loose or broken. Reattach keepers with JB Weld. Replace broken latches and springs with new parts.	in progress
Repair Leaking Ball Valve	Influent ball valve near east side of EQ Tank drips. Inspect/clean and replace if necessary.	in progress
PZ-1B has damage	PZ-2B has surface concrete damage from severe winter conditions this year. Repair chipped concrete with epoxy material.	in progress
Redux usage rapidly increased	The rate of Redux usage increased rapidly during the past several months despite turning the Jesco Pump settings to their lowest levels. Clean pump and test. Adjust clamps on Redux line. Replace pump if necessary.	in progress
Reduce Influent Pump Rate	Lab Tests have shown high levels of VOCs. Try lengthening the time that the Influent Pump runs to increase the Air Sparging time inside the Air Stripper	in progress
Add Air Sparging System	Lab Tests have shown high levels of VOCs. Try adding an Air Sparging system to the sump box of the Air Stripper to increase the treatment of the effluent.	in progress
South Wall should be sealed	South Wall of Treatment Room has leaked into the neighboring unit several times when there have been water related problems. Trim wall insulation matting to reduce moisture retention. Seal base of wall with silicone caulking.	in progress
PW-8 Maintenance	Pull up transducer, pump and vertical pipe. Clean, inspect and reinstall.	Sep-15
PW-6 does not run	Replace transducer and well pump with more powerful model. Cleaned vertical pipe and Underground Enclosure. Replaced corroded connectors in UE.	Sep-15
PW-2 Maintenance	Pull up transducer, pump and vertical pipe. Clean, inspect and reinstall.	Sep-15
PW-3 does not run	Cleaned vertical pipe, transducer and Underground Enclosure. Replaced corroded connectors in UE. Replaced with new pump.	Oct-15
Church Fan Complaint	West SVE fan is not working. Inspect and clean connections inside unit.	Oct-15

Mr. C's CLEANERS OM&M
SUMMARY OF WATER PUMP MAINTENANCE BY IEG - 2015

as of Oct 2015

ID	CLEAN & INSPECT PUMP	REPLACED PUMP	REPAIR PUMP	PITLESS ADAPTER	INNER RING	HORIZONTAL PIPE	CHECK VALVE	CLEAN & INSPECT TRANSDUCER	REPLACE TRANSDUCER	REPAIR TRANSDUCER	PUMP OUT WELL	CLEAN OUT & INSPECT ELECTRICAL BOX	ELECTRICAL BOX REPAIR
RW - 1	Jan 08, May 10, Jan 12, Oct 15	Feb 08, Jan 12	May 10, Nov 08					May 10, Jan 12, Oct 15					
PW - 2	Jun 08, Aug 09, May 10, Apr 13, Sep 15	Jul 08, Apr 13			Sep-15			Nov 11, May 10, Apr 13	Sep 09, Dec 11		Aug-09	Nov-11	Sep-09
PW - 3	Jun 08, Aug 09, May 10, Sep 15	Jul 08, Dec 11, Oct 15		Repair adapter	Sep-15			Aug 09, Nov 11, Oct 15	Dec 11, Sep 15		Aug-09	Nov 11, Sep 15	
PW - 4	Dec 07, May 08, Sep 09, May 10, Jan 12, Oct 15	Dec 07, Jan 12	Sep-13		Aug 13			May 10, Nov 11, Oct 15	Dec 11, Mar 08, Sep 08	Sep-08	Jul 09, Sep 09	Sep 09, Nov 11	Sep-09
PW - 5	Jan 12, May 08, Oct 15	Jul 08, Jan 12						Mar 11, Oct 15	Jan 12, Sep 08	Sep-09		Jan-12	
PW - 6	Jun 08, Jul 09, Jul 12, Nov 12, Aug 15	Jun 08, Jul 09, Aug 12, Nov 12, Sep 15		Replaced Aug 15	Jul 12, Nov 12, Sep 15			Aug 09, Jul 12, Dec 12, Apr 13, Aug 15	Sep 09, Sep 15	Jun-08	Aug-09	Aug 09, Sep 09, Sep 15	Jul 09, Sep 09
PW - 7	Jun 08, Jul 09, May 10, Oct 10, Aug 11, Mar 12, Jul 12, Nov 12, Aug 15	Nov 07, Jul 09, Oct 10, Nov 12		Replaced Aug 15	Jul 12, Nov 12			Aug 11, Mar 12, Jul 12, Dec 12, Aug 15		Jun-08	Aug 09, May 10, Aug 11		
PW - 8	Jun 08, Aug 09, May 10, Aug 11, Jul 12, Dec 12, Aug 15	Jul 08, Sep 09, Aug 11, Dec 12		Replaced Aug 15	Pipe 8/09, Jul 12, Sep 15			May 10, Aug 11, Jul 12, Dec 12, Apr 13, Aug 15			Aug 09, May 10, Aug 11	Apr 13, Aug 15	Apr-13

Mr. C's CLEANERS OM&M

SUMMARY OF WATER PUMP STATUS - 2015

as of Oct 2015

ID	NEEDS CLEANING & INSPECTION	NEEDS NEW PUMP	NEEDS NEW INNER RING	NEEDS P.A. OR PIPE	NEEDS WELL CLEAN-OUT	PITLESS ADAPTER	NEEDS HORIZONTAL LINE PURGE	NEEDS CHECK VALVE INSPECTION	NEEDS TRANSDUCER INSPECTION	NEEDS NEW TRANSDUCER	NEEDS ANEROID BELLOWS	NEEDS U.E. CLEANED	NEEDS U.E. REPAIR
RW-1	NO	NO	PZ-1B		YES				NO	NO	NO	NO	YES - bolts
PW-2	NO	NO	NO		NO				NO		NO	NO	YES - bolts
PW-3	NO	NO	NO	REPAIRED 8/09	DONE 8/09				NO		NO	NO	NO
PW-4	NO	NO	Replaced 8/13		DONE 9/09				NO		NO	NO	YES - Asphalt patch
PW-5	NO	NO	NO		YES				NO	DONE 1/12	DONE 1/12	NO	NO
PW-6	NO	NO	NO	Replaced pipe 8/09	DONE 8/09	Replaced 8/15	NO	Done 8/15	NO	NO	DONE 9/09, 9/15	NO	DONE
PW-7	YES	NO	NO	Replaced pipe 8/09	NO	Replaced 8/15	NO	Done 8/15	NO	NO	DONE	NO	NO
PW-8	NO	DONE 8/11	NO	Replaced pipe 8/09	NO	Replaced 8/15	NO	Done 8/15	NO	NO	YES	NO	NO

Attachment B
Analytical Report from
Spectrum Analytical Laboratories

Analytical Data Package Work Order ID: P1491
Sampled by IEG: October 6, 2015
Received by Lab: October 7, 2015
Date of Final Report: October 13, 2015

Report Date:
13-Oct-15 16:53



Spectrum Analytical

- Final Report
- Re-Issued Report
- Revised Report

Laboratory Report

Ecology and Environment Engineering P.C.
368 Pleasant View Drive
Lancaster, NY 14086

Work Order: P1491
Project : Mr. C's Dry Cleaning
Project #: 1703074.0011

Attn: Michael Steffan

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
P1491-01	INFLUENT	Aqueous	06-Oct-15 13:30	07-Oct-15 10:05
P1491-02	EFFLUENT	Aqueous	06-Oct-15 13:30	07-Oct-15 10:05

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirements have been met.

Eurofins Spectrum Analytical (ESA-RI) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033



Certificate # L2247 Testing

Authorized by:

Yihai Ding
Laboratory Director

Sample Transmittal Documentation



A Division of SPECTRUM ANALYTICAL, INC. Featuring HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Special Handling:

TAT - Indicate Date Needed: Std
 All TATs subject to laboratory approval.
 Min. 24-hour notification needed for rushes.
 Samples disposed of after 30 days unless otherwise instructed.

Page 1 of 1

Report To: ERE Inc
368 Pleasantview Dr
Lancaster, NY 14086
(716) 684-8060
 Project Mgr.: Mike Steffan

Invoice To: ERE, Inc
 P.O. No.: _____ RQN: _____

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

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid 7=CH₃OH
 8=NaHSO₄ 9= _____ 10= _____ 11= _____

DW=Drinking Water GW=Groundwater WW=Wastewater
 O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
 X1= _____ X2= _____ X3= _____

G=Grab C=Composite

List preservative code below:
 1 4 2

Containers:
 # of VOA Vials # of Amber Glass # of Clear Glass # of Plastic

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses:	Notes:
P1491	INFLUENT	Oct 6, 2015	1:30 P	G	GW				1		
	INFLUENT			G	GW				1		
	INFLUENT			G	GW	3			1		
	EFFLUENT			G	GW				1		
	EFFLUENT			G	GW				1		
	EFFLUENT			G	GW	3			1		

Reimquished by: Richard C Allen Jr Received by: [Signature] Date: 10/07/15 Time: 10:05

E-mail to msteffan@ere.com
 EDD Format PDF

Condition upon receipt: Ice Ambient °C 47.2

Received By: <u>WJL</u>						Page 01 of 00			
Reviewed By: <u>AP</u>						Log-in Date 10/07/2015			
Work Order: P1491			Client Name: Ecology and Environment Engineering P.C.						
Project Name/Event: Mr. C's Dry Cleaning / 1703074.0011									
Remarks: (1/2) Please see associated sample/extract transfer logbook pages submitted with this data package.				Preservation (pH)			VOA Matrix	Soil HeadSpace or Air Bubble > or equal to 1/4"	
				Lab Sample ID	HNO3	H2SO4			HCl
				P1491-01	<2				
P1491-02	<2					H			
1. Custody Seal(s) Present / Absent Intact / Broken									
2. Custody Seal Nos. N/A									
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists Present / Absent									
4. Airbill AirBill / Sticker Present / Absent									
5. Airbill No. UPS 1ZFR87250199464584									
6. Sample Tags Present / Absent Sample Tag Numbers Listed / NOT Listed on Chain-of-Custody									
7. Sample Condition Intact / Broken / Leaking									
8. Cooler Temperature Indicator Bottle Present / Absent									
9. Cooler Temperature 4.7 °C									
10. Does information on TR/COCs and sample tags agree? Yes / No									
11. Date Received at Laboratory 10/07/2015									
12. Time Received 10:05									
Sample Transfer									
Fraction (1) TVOA/VOA		Fraction (2) SVOA/PEST/ARO							
Area #		Area #							
By		By							
On		On							
IR Temp Gun ID: MT-74				VOA Matrix Key: US = Unpreserved Soil A = Air UA = Unpreserved Aqueous H = HCl M = MeOH E = Encore N = NaHSO4 F = Freeze					
Coolant Condition: ICE									
Preservative Name/Lot No.									
				See Sample Condition Notification/Corrective Action Form Yes / <u>No</u>					
				Rad OK <u>Yes</u> / No					

* Volatiles *

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

INFLUENT

Lab Name: EUROFINS SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: ESA-RI Case No.: P1491 Mod. Ref No.: _____ SDG No.: SP1491
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: P1491-01A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8E1899.D
 Level: (TRACE/LOW/MED) LOW Date Received: 10/07/2015
 % Moisture: not dec. Date Analyzed: 10/08/2015
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
75-71-8	Dichlorodifluoromethane		5.0	U
74-87-3	Chloromethane		5.0	U
75-01-4	Vinyl chloride		11	
74-83-9	Bromomethane		5.0	U
75-00-3	Chloroethane		5.0	U
75-69-4	Trichlorofluoromethane		5.0	U
75-35-4	1,1-Dichloroethene		5.0	U
67-64-1	Acetone		25	U
75-15-0	Carbon disulfide		5.0	U
75-09-2	Methylene chloride		5.0	U
156-60-5	trans-1,2-Dichloroethene		5.0	U
1634-04-4	Methyl tert-butyl ether		4.1	J
75-34-3	1,1-Dichloroethane		5.0	U
78-93-3	2-Butanone		25	U
156-59-2	cis-1,2-Dichloroethene		250	
67-66-3	Chloroform		5.0	U
71-55-6	1,1,1-Trichloroethane		5.0	U
56-23-5	Carbon tetrachloride		5.0	U
107-06-2	1,2-Dichloroethane		5.0	U
71-43-2	Benzene		5.0	U
79-01-6	Trichloroethene		40	
78-87-5	1,2-Dichloropropane		5.0	U
75-27-4	Bromodichloromethane		5.0	U
10061-01-5	cis-1,3-Dichloropropene		5.0	U
108-10-1	4-Methyl-2-pentanone		25	U
108-88-3	Toluene		5.0	U
10061-02-6	trans-1,3-Dichloropropene		5.0	U
79-00-5	1,1,2-Trichloroethane		5.0	U
127-18-4	Tetrachloroethene		420	
591-78-6	2-Hexanone		25	U
124-48-1	Dibromochloromethane		5.0	U
106-93-4	1,2-Dibromoethane		5.0	U
108-90-7	Chlorobenzene		5.0	U
100-41-4	Ethylbenzene		5.0	U
1330-20-7	Xylene (Total)		5.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

INFLUENT

Lab Name: EUROFINS SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: ESA-RI Case No.: P1491 Mod. Ref No.: _____ SDG No.: SP1491
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: P1491-01A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8E1899.D
 Level: (TRACE/LOW/MED) LOW Date Received: 10/07/2015
 % Moisture: not dec. Date Analyzed: 10/08/2015
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U
108-87-2	Methylcyclohexane	5.0	U

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EFFLUENT

Lab Name: EUROFINS SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: ESA-RI Case No.: P1491 Mod. Ref No.: _____ SDG No.: SP1491
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: P1491-02A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8E1898.D
 Level: (TRACE/LOW/MED) LOW Date Received: 10/07/2015
 % Moisture: not dec. Date Analyzed: 10/08/2015
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
75-71-8	Dichlorodifluoromethane		1.0	U
74-87-3	Chloromethane		1.0	U
75-01-4	Vinyl chloride		1.0	U
74-83-9	Bromomethane		1.0	U
75-00-3	Chloroethane		1.0	U
75-69-4	Trichlorofluoromethane		1.0	U
75-35-4	1,1-Dichloroethene		1.0	U
67-64-1	Acetone		5.0	U
75-15-0	Carbon disulfide		1.0	U
75-09-2	Methylene chloride		1.0	U
156-60-5	trans-1,2-Dichloroethene		1.0	U
1634-04-4	Methyl tert-butyl ether		0.57	J
75-34-3	1,1-Dichloroethane		1.0	U
78-93-3	2-Butanone		5.0	U
156-59-2	cis-1,2-Dichloroethene		9.6	
67-66-3	Chloroform		1.0	U
71-55-6	1,1,1-Trichloroethane		1.0	U
56-23-5	Carbon tetrachloride		1.0	U
107-06-2	1,2-Dichloroethane		1.0	U
71-43-2	Benzene		1.0	U
79-01-6	Trichloroethene		1.1	
78-87-5	1,2-Dichloropropane		1.0	U
75-27-4	Bromodichloromethane		1.0	U
10061-01-5	cis-1,3-Dichloropropene		1.0	U
108-10-1	4-Methyl-2-pentanone		5.0	U
108-88-3	Toluene		1.0	U
10061-02-6	trans-1,3-Dichloropropene		1.0	U
79-00-5	1,1,2-Trichloroethane		1.0	U
127-18-4	Tetrachloroethene		9.4	
591-78-6	2-Hexanone		5.0	U
124-48-1	Dibromochloromethane		1.0	U
106-93-4	1,2-Dibromoethane		1.0	U
108-90-7	Chlorobenzene		1.0	U
100-41-4	Ethylbenzene		1.0	U
1330-20-7	Xylene (Total)		1.0	U

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
EFFLUENT

Lab Name: EUROFINS SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: ESA-RI Case No.: P1491 Mod. Ref No.: _____ SDG No.: SP1491
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: P1491-02A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V8E1898.D
 Level: (TRACE/LOW/MED) LOW Date Received: 10/07/2015
 % Moisture: not dec. Date Analyzed: 10/08/2015
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
100-42-5	Styrene		1.0	U
75-25-2	Bromoform		1.0	U
98-82-8	Isopropylbenzene		1.0	U
79-34-5	1,1,2,2-Tetrachloroethane		1.0	U
541-73-1	1,3-Dichlorobenzene		1.0	U
106-46-7	1,4-Dichlorobenzene		1.0	U
95-50-1	1,2-Dichlorobenzene		1.0	U
96-12-8	1,2-Dibromo-3-chloropropane		1.0	U
120-82-1	1,2,4-Trichlorobenzene		1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		1.0	U
110-82-7	Cyclohexane		1.0	U
79-20-9	Methyl acetate		1.0	U
108-87-2	Methylcyclohexane		1.0	U

* Wet Chemistry *

Client: Ecology and Environment Engineering P.C.

Client Sample ID: INFLUENT

Lab ID: P1491-01

Project: Mr. C's Dry Cleaning

Collection Date: 10/06/15 13:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 2340B -- HARDNESS by Calculation							SM2340_W
Hardness, Ca/Mg (As CaCO3)	250		4.0	mg/L CaCO3		1 10/09/2015 14:04	83257
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	7.3		1.0	S.U.		1 10/07/2015 11:50	R91340

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Ecology and Environment Engineering P.C.

Client Sample ID: EFFLUENT

Lab ID: P1491-02

Project: Mr. C's Dry Cleaning

Collection Date: 10/06/15 13:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 2340B -- HARDNESS by Calculation							SM2340_W
Hardness, Ca/Mg (As CaCO3)	260		4.0	mg/L CaCO3		110/09/2015 14:07	83257
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	8.3		1.0	S.U.		110/07/2015 11:52	R91340

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Attachment C
Summary of Site Utility Costs and Projections
January to December 2015

Mr. C's Dry Cleaners Site - Remedial Treatment Utility Costs

NYSDEC Work Assignment #11

12 Months of System Operation and Maintenance

October 2015 Report

	Optimum Operating Hours	Actual Operating Hours	Up-time Percentage	Capacity	Comments:	Budget Remaining:	Electric:
January-15	888	888	100.00%	9.6%	Cold and Snow	\$14,157.61	
February-15	648	648	100.00%	9.2%	Extremely Cold	\$316.68	Telephone:
March-15	648	648	100.00%	10.4%	Cold & Rainy	\$880.25	Gas
April-15	840	840	100.00%	10.8%	Warmer Temperatures. Normal Rain		Total:
May-15	686	336	100.00%	9.8%	Spring time		
June-15	720	336	46.67%	9.6%	Downtime with PLC. Rainy.		
July-15	768	768	100.00%	9.6%	Summer weather occasional rain		
August-15	672	672	100.00%	7.1%	Dry, but occasional rain		
September-15	864	864	100.00%	9.5%	Pumps cleaned in September		
October-15	672	672	100.00%	11.9%	All pumps active except PW-7		
November-15			#DIV/0!				
December-15			#DIV/0!				
Totals to Date	7416	7032	94.82%				

* Percent Capacity is based on initial operating groundwater flows from the eight installed pumps from 9/02. Evaluated on total gallons discharged for monthly operating time. Maximum pump discharges calculated as an average of 78 gpm as the total for all 8 pumps at the site if all pumps operate 100%. With the exception of groundwater pump RW-1, all others run on a batch basis.

Monthly Average Costs

Mr. C's Electric	\$	1,238.04					
Agway Electric	\$	-					
Mr. C's Gas	\$	34.25					
Mr. C's Telephone	\$	37.22					
Ave. Utility Cost Total	\$	1,309.51	12 Month Estimate	\$17,023.67			