



ecology and environment engineering, p.c.

International Specialists in the Environment

BUFFALO CORPORATE CENTER
368 Pleasant View Drive
Lancaster, New York 14086
Tel: (716) 684-8060, Fax: (716) 684-0844

December 9, 2013

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 # 9-15-157
November 2013 Operations, Maintenance, and Monitoring Report

Dear Mr. Welling:

Ecology and Environment Engineering, P.C. (EEEPC) is pleased to provide the November 2013 Operations, Maintenance, and Monitoring (OM&M) Report for the Mr. C's Dry Cleaners Site, NYSDEC Site # 9-15-157, located in 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 packages prepared by Spectrum Analytical Inc. (SAI), Warwick, Rhode Island are provided as Attachments B. The full analytical reports along with QA/QC information will be retained by EEEPC.

In review of the on-site treatment system operations, monitoring and maintenance for November 2013, EEEPC offers the following comments and highlights:

Operational Summary

Mr. C's Site – Remedial Operations Information

- Checklists for system inspections from IEG are provided as Attachment A for 11/04/13, 11/18/13, and 12/02/13. Based on inspection reports prepared by IEG, the remedial treatment system for the period above had a 100.00% operational up-time (Table 1) and the treatment of contaminated groundwater during that period totaling of 262,044 gallons (Table 2) for November 2013.
- Compliance samples were taken on November 25, 2013 (Attachment B) and preliminary analytical results received on December 2, 2013 from SAI. Final analytical results after analysis at dilution were received on December 6, 2013. The results comply with the daily maximum effluent discharge criteria requirements in the site specific SPDES Equivalency Permit (Table 3). Methyl tert-butyl ether was not detected in this month's influent sample. Cis-1,2,-dichloroethene; trichloroethene; and tetrachloroethene were detected at above criteria concentrations in the influent sample.

Mr. William Welling, Project Manager

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- The analytical results of the sample revealed the total volatile organic contaminant concentrations of the influent to be 363.0 µg/L or 363.0 ppb. Treated effluent has no detectible concentrations for any of the contaminants of concern. The summary of influent and effluent contaminant concentrations for the November 2013 sampling is presented in Table 4.
- The Mr. C's treatment system based on the total monthly flows has effectively removed 0.79 lb. of targeted contaminants from the groundwater below the site in the month of November 2013 and the cleanup effectiveness was 100%. The calculations and data for the month are presented in Table 5.
- Other System Work performed –
 - Bag filters were changed on November 10
 - Agway shed removal
 - SVE equipment inventoried on November 13
 - Agway shed equipment demobilized on November 15
 - Scrap materials removed from shed and useful materials were assimilated into Treatment Room on November 18
 - Inspected U-haul trailer for shed drop-off on November 20th
 - Snow removed from front of Treatment Room and responded to AutoAlarm on November 27

Mr. C's Site – Property Information

- Contact information regarding the property owner and party leasing the Mr. C's building was provided to the NYSDEC. The information provided is as follows: Property owner (586 Main Street) – DelTora LLC – Owner - Mr. Paul Bendrowski – 231-313-1954 (Traverse City, MI) – Local Point of Contact – Bob Kowal - . Property Lease – Intrepid Automotive Partners – Dave Kern – 716-481-5703 (East Aurora, NY).

Agway Site Remedial Information

- Agway SVE shed and ancillary equipment disassembled and removed during November 2013.

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

- Site inspection of the church facility on February 20, 2013, revealed that the south SSDS unit was shut off. System was switched back on by field staff. EEEPC to review changing of the switch for this fan to provide uninterrupted operations.
- 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.

Bioaugmentation Direct Push Injection Work

- Procurement for obtaining a direct push subcontractor was performed in March 2013. The successful bidder was Nature's Way Environmental, Alden, NY.
- Part 1 of the bio-augmentation direct push injection work was performed by Nature's Way from May 20, through 31, 2013. Part 1 of the program was the injection of the Regenesys HRC primer and 3-D Microemulsion. Oversight of the first for program performance and quality assurance of the scope of work was provided by EEEPC.
- The 1st progress monitoring sampling of the groundwater wells associated with the "pilot" bioaugmentation program was performed on July 1-2, 2013.
- Pumping Wells PW-5 and PW-7 still remain temporarily turned off due to close proximity to the injection locations of the "pilot" bio-augmentation program.
- Monthly monitoring and analyses to be performed for eight months to evaluate the effectiveness of the "pilot" installation on the groundwater from the local area monitoring wells. Interim status reports to be performed and issued by EEEPC.
- The second phase of the bio-injections (BDI Plus) was completed July 15-19, 2013. It is estimated to take a week to complete.
- The 2nd progress monitoring sampling of the groundwater wells associated with the "pilot" bioaugmentation program was performed on August 8-9, 2013.
- Status report on the performance of the "pilot" bio-augmentation program was issued to NYSDEC on August 29, 2013. Report evaluated the baseline sampling plus the two rounds of monthly monitoring.
- The monthly status sampling was performed on September 9 & 10, 2013.
- The monthly status sampling was performed on October 22-23, 2013.

Mr. C's and Agway Energy Usage Information

- A copy of the site utility costs from the Mr. C's remedial operations for January through December 2013 are provided as Attachment C.

Soil Vapor Intrusion Investigation Program

- Soil vapor intrusion investigation, surveys, and sampling were performed at three out four properties surrounding the Mr. C's site on March 6, 7, and 20, 2013. The three properties included the Mr. C's Indoor Air (586 Main Street), The Brownschidle building (578-580 Main Street), and the Doeing Building (572-576 Main Street). The Pitt property (19 Whaley Avenue) would not allow access.
- Analytical results have been received for all three locations and a final validated report was delivered to NYSDEC and NYSDOH on May 7, 2013.
- Letters issued from NYSDOH (May 28, 2013) to the property owners regarding the need to install mitigation systems on the property. Further discussions regarding the installation of the mitigation system will be performed with the NYSDEC PM.

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- Field measurements of the basements at 578 Main Street and 572 Main Street for the installation of the SSDS units were performed by EEEPC engineering personnel in July and August. Drawings under internal review for submission to NYSDEC and the installation of SSDS units by the NYSDEC's proposed callout contractor.

Site Management Plan

- Issued the draft Site Management Plan (SMP) on December 28, 2012 for review and comment. The SMP was revised to be consistent with the new NYSDEC template format.

If you have questions regarding the November 2013 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- EN-003229-0001-03TTO

Table 1
Mr. C's Dry Cleaners Site Remediation
Site #9-15-157
System Operational Time

Month	Reporting Hours	Operational Up-time
(Up-time from inception to 12/31/12)	87,871.50	96.63%
January 7, 2013 - February 4, 2013	576	85.71%
February 4, 2013 - March 4, 2013	594	88.39%
March 4, 2013 - April 3, 2013	720	100.00%
April 3, 2013 - May 6, 2013	792	100.00%
May 6, 2013 - June 3, 2013	672	100.00%
June 3, 2013 - July 1, 2013	672	100.00%
July 1, 2013 - August 14, 2013	648	61.36%
August 14, 2013 - September 5, 2013	528	100.00%
September 5, 2013 - September 30, 2013	600	100.00%
September 30, 2013 - November 4, 2013	840	100.00%
November 4, 2013 - December 2, 2013	672	100.00%
Total Hours from System Startup '2/02'	95,185.50	
Average Operational Up-time from startup =		96.31%
Average Operational Up-time for 2013 =		92.63%

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.

Table 2
Mr. C's Dry Cleaners Site Remediation
Site #9-15-157
Monthly Process Water Volumes

Month	Actual Period	Gallons (Treated Effluent)
Total - Inception to December 2012	9/5/02 - 12/4/12	118,436,077
January 2013 ³	1/7/13 - 2/4/13	261,527
February 2013 ³	2/4/13 - 3/4/13	242,509
March 2013 ³	3/4/13 - 4/3/13	321,888
April 2013 ³	4/3/13 - 5/6/13	398,999
May 2013	5/6/13 - 6/3/13	304,452
June 2013	6/3/13 - 7/1/13	238,715
July 2013	7/1/13 - 8/14/13	255,356
August 2013	8/14/13 - 9/5/13	188,701
September 2013	9/5/13 - 9/30/13	211,448
October 2013	9/30/13 - 11/4/13	317,639
November 2013	11/4/13 - 12/2/13	262,044
December 2013		0
Total Gallons Treated in 2013		3,003,278
Total Gallons Treated To Date:		121,439,355

NOTES:

1. System operated by Tyree Organization Ltd. From 9/02 - 9/03.
2. System operated by O&M Enterprises from 10/03 - 7/07.
3. System operated by IEG PLLC from 7/07 - present.

Table 3
Mr. C's Dry Cleaners Site Remediation
Site #9-15-157
Effluent Discharge Criteria & Analytical Compliance Results

Parameter/Analyte	Daily Maximum ¹	Units	December 02, 2013 - Effluent Analytical Values Compliance
Flow	N/A	gpd	9,359
Ph	6.0 - 9.0	standard units	8.40
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	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(<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	ug/L	ND(<1.0)
o-Xylene ²	5	µg/L	NA
m, p-Xylene ²	10	µg/L	NA
Total Xylenes	NA	ug/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	420
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 November 4th, 2013 through December 2nd, 2013. Total gallons: 262,044 divided by 28 operating days.
7. "B" 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.

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

Table 4
Mr. C's Dry Cleaners Site Remediation
NYSDEC Site #9-15-157
November 2013 VOC Analytical Summary

Compound	Based on the 11/25/13 Effluent Sampling Results				
	Influent Concentration*		Effluent Concentration*		Cleanup Efficiency**
	(ug/L)		(ug/L)		(%)
Acetone	ND (<5.0)	U	ND (<1.0)	U	NA
Benzene	ND (<1.0)	U	ND (<1.0)	U	NA
2-Butanone	ND (<5.0)	U	ND (<5.0)	U	NA
cis-1, 2-Dichloroethene	25		ND (<1.0)	U	100.00%
Chloroform	ND (<1.0)	U	ND (<1.0)	U	NA
Methylene chloride	ND (<1.0)	U	ND (<1.0)	U	NA
Methyl tert-butyl ether (MTBE)	ND (<1.0)	U	ND (<1.0)	U	NA
Tetrachloroethene (PCE)	320.0		ND (<1.0)	U	100.00%
Toluene	ND (<1.0)	U	ND (<1.0)	U	NA
Trichloroethene (TCE)	18.0		ND (<1.0)	U	100.00%
Carbon Disulfide	ND (<1.0)	U	ND (<1.0)	U	NA
1,1,2 Trichloro-1,2,2-trifluoroethane	ND (<1.0)	U	ND (<1.0)	U	NA
Cyclohexane	ND (<1.0)	U	ND (<1.0)	U	NA
trans-1,2-dichloroethene	ND (<1.0)	U	ND (<1.0)	U	NA
Chlorobenzene	ND (<1.0)	U	ND (<1.0)	U	NA
Methylcyclohexane	ND (<1.0)	U	ND (<1.0)	U	NA
Methyl acetate	ND (<1.0)	U	ND (<1.0)	U	NA
Total Xylenes	ND (<1.0)	U	ND (<1.0)	U	NA

• The 1st progress monitoring sampling of the groundwater wells associated with the "pilot" bioaugmentation program was performed on July 1-2, 2013.

363.0

0.00

100.00%

Notes:

1. "NA" = Not applicable
2. "U" = Compound analyzed, but was not detected. Detection limit in parentheses.
3. "DJ" or "J" indicates an estimated value below the practical quantitation limit but above the method detection limit.
4. Non-detect values are assumed to be equal to zero for calculation of monthly average concentrations.
5. "D" indicates the compound concentration was obtained from a secondary dilution analysis.
6. Acetone was not detected in the influent sample but detected in the effluent sample below quantitation limits (J qualifier) due to laboratory contamination. It is not a contaminant of concern.

* (<50) - Detection Limit

** Contaminants of Concern only

Table 5
Mr. C's Dry Cleaners Site Remediation
Site #9-15-157
Monthly VOCs Removed From Groundwater

Month	Actual Period	Influent VOCs (µg/L)	Effluent VOCs (µg/L)	VOCs Removed (lbs.)
Total pounds of VOCs removed from inception to December 2012 =				1556.45
January 2013	01/7/13 - 2/4/13	1094.9	0.91	2.39
February 2013	2/4/13 - 3/4/13	1112.2	12.44	2.23
March 2013	3/4/13 - 4/3/13	1306.0	23.65	3.44
April 2013	4/3/13 - 5/6/13	1744.0	5.80	5.79
May 2013	5/6/13 - 6/3/13	1097.0	10.00	2.76
June 2013	6/3/13 - 7/1/13	103.1	6.87	0.19
July 2013	7/1/13 - 8/14/13	144.6	1.50	0.30
August 2013	8/14/13 - 9/5/13	117.6	2.12	0.18
September 2013	9/5/13 - 9/30/13	233.0	0.00	0.41
October 2013	9/30/13 - 11/4/13	407.1	2.40	1.08
November 2013	11/4/13 - 12/2/13	363.0	0.00	0.79
December 2013				0.00
Total pounds of VOCs removed from inception =				1,576.02
Total pounds of VOCs removed in 2013 =				19.57

HISTORICAL NOTES:

1. Calculations are based on monthly water samples and assumes samples are representative of the entire reporting period.
2. Calculations assume that non-detect values = 0 ug/L.
3. Total VOCs summations include estimated "J" values.
4. Calculations are based on effluent totalizer readings.
5. "Influent VOCs" and "Effluent VOCs" values given above is the summation of values for individual compounds given in monthly analytical reports.
6. Treatment system operated by Tyree Organization, Ltd. from 9/02 to 9/03.
7. Treatment system operated by O&M Enterprises from 10/03 to 7/07.
8. Treatment system operated by IEG from 7/07 to present.

CONVERSIONS:

1 pound = 453.5924 grams
1 gallon = 3.785 liters

Based on the Analytical Results from Each Month:

Pounds of VOCs removed calculated by the following formula:

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

Attachment A
IEG Weekly Inspection Reports
November 2013

Including:

11/4/13

11/18/13

12/2/13

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

DATE: 4-Nov-13 ACTIVITIES: Site Inspection

INSPECTION PERSONNEL: R. Allen OTHER PERSONNEL: _____

WEATHER CONDITIONS: Partly cloudy, cool OUTSIDE TEMPERATURE (° F): 37

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

PW-6 is OFF due to maintenance problems.

PW-5 and PW-7 are OFF due to injection operation.

PROVIDE WATER LEVEL READINGS ON CONTROL PANEL

RW-1	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>8</u> ft	PW-5	ON: <input checked="" type="checkbox"/>	OFF: _____	<u>12</u> ft
PW-2	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>5</u> ft	PW-6	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>65507</u> ft
PW-3	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>5</u> ft	PW-7	ON: <input checked="" type="checkbox"/>	OFF: _____	<u>13</u> ft
PW-4	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>7</u> ft	PW-8	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>5</u> ft

EQUALIZATION TANK: 3 ft Last Alarm D/T/Condition: 10/31/13 Air Stripper High Level

NOTES: _____

INFLUENT FLOW RATE: 43 gpm INFLUENT TOTALIZER READING: 712,616.0 gallons

SEQUESTERING AGENT DRUM LEVEL: 6 inches (x 1.7=) AMOUNT OF AGENT REMAINING: 10 gallons

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

BAG FILTER PRESSURES:	LEFT:	Top	Bottom	RIGHT:	Top	Bottom
		<u>0</u>	<u>0</u> psi		<u>12 - 6</u>	<u>0</u> psi

INFLUENT FEED PUMP IN USE: #1 #2 _____ INFLUENT PUMP PRESSURE: 12 psi

AIR STRIPPER BLOWER IN USE: #1 #2 _____ AIR STRIPPER PRESSURE: 25.0 in. H₂O

AIR STRIPPER DIFFERENTIAL PRESSURE: 0.26 in. H₂O DISCHARGE PRESSURE: 0.4 in. H₂O

EFFLUENT PUMP IN USE: #1 _____ #2 EFFLUENT FEED PUMP PRESSURE: 3.0 psi

EFFLUENT FLOW RATE: 120 gpm EFFLUENT TOTALIZER READING: 72,756,541 280970 gallons

ARE BUILDING HEATERS IN USE? YES: NO: _____ INSIDE TEMPERATURE (° F): 64

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

WATER LEVEL IN SUMP: 5.5 in. TREATMENT BUILDING CLEAN & ORGANIZED? YES: NO: _____

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

4-Nov-13

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:

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

Remarks: Ball valve near Equalizer Tank has slow leak.

Other Actions: Change bag filters. Right filter was broken.

AGWAY

SYSTEM VACUUM: _____ in. H₂O AIR PRESSURE: _____ psi

SP-1: _____ scfm _____ psi	SP-5 _____ scfm _____ psi
SP-2: _____ scfm _____ psi	SP-6 _____ scfm _____ psi
SP-3: _____ scfm _____ psi	SP-7 _____ scfm _____ psi
SP-4: _____ scfm _____ psi	SP-8 _____ scfm _____ psi

INCLUDE REMARKS & DESCRIBE ANY OTHER SYSTEM MAINTENANCE PERFORMED ON AGWAY SITE

Remarks: System is OFF until further instructions.

Other Actions: _____

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

DATE: 18-Nov-13 ACTIVITIES: Site Inspection

INSPECTION PERSONNEL: R. Allen OTHER PERSONNEL: _____

WEATHER CONDITIONS: Cloudy, cool, windy OUTSIDE TEMPERATURE (° F): 48

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

PW-6 is OFF due to maintenance problems.

PW-5 and PW-7 are OFF due to injection operation.

PROVIDE WATER LEVEL READINGS ON CONTROL PANEL

RW-1	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>8</u> ft	PW-5	ON: <input checked="" type="checkbox"/>	OFF: _____	<u>12</u> ft
PW-2	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>7</u> ft	PW-6	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>65507</u> ft
PW-3	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>7</u> ft	PW-7	ON: <input checked="" type="checkbox"/>	OFF: _____	<u>13</u> ft
PW-4	ON: <input checked="" type="checkbox"/>	OFF: _____	<u>6</u> ft	PW-8	ON: <input checked="" type="checkbox"/>	OFF: _____	<u>4</u> ft

EQUALIZATION TANK: 3 ft Last Alarm D/T/Condition: 11/10/13 Air Stripper Low Level

NOTES: _____

INFLUENT FLOW RATE: 40 gpm INFLUENT TOTALIZER READING 929,536.0 gallons

SEQUESTERING AGENT DRUM LEVEL: Full inches (x 1.7=) AMOUNT OF AGENT REMAINING: 55 gallons

SEQUESTERING AGENT FEED RATE: 4.0 ml/min METERING PUMP PRESSURE: 4.0 psi

		Top	Bottom		Top	Bottom
BAG FILTER PRESSURES:	LEFT:	<u>0</u>	<u>0</u> psi	RIGHT:	<u>7</u>	<u>0</u> psi

INFLUENT FEED PUMP IN USE: #1 #2 _____ INFLUENT PUMP PRESSURE: 12 psi

AIR STRIPPER BLOWER IN USE: #1 #2 _____ AIR STRIPPER PRESSURE: 30.0 in. H₂O

AIR STRIPPER DIFFERENTIAL PRESSURE: 0.18 in. H₂O DISCHARGE PRESSURE: 0.3 in. H₂O

EFFLUENT PUMP IN USE: #1 _____ #2 EFFLUENT FEED PUMP PRESSURE: 3.0 psi

EFFLUENT FLOW RATE: 120 gpm EFFLUENT TOTALIZER READING: _____ 416360 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: 7.5 in. TREATMENT BUILDING CLEAN & ORGANIZED? YES: NO: _____

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

18-Nov-13

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:

Many UEs and MWs are covered with puddles from ongoing rain.

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

Remarks: Ball valve near Equalizer Tank has slow leak.

Air Stripper exhaust leaks.

Other Actions: Assimilated useful Agway Shed hardware into Treatment Room.

Mixed cement into top layer of Sludge Drum #1. Mixed material from Sludge Drum #2 with cement and then added it to Sludge Drum #2 to top off. Drum #1 is full. Drum #2 is 1/4 full.

AGWAY

SYSTEM VACUUM: _____ In. H ₂ O			AIR PRESSURE: _____ psi		
SP-1:	_____ scfm	_____ psi	SP-5:	_____ scfm	_____ psi
SP-2:	_____ scfm	_____ psi	SP-6:	_____ scfm	_____ psi
SP-3:	_____ scfm	_____ psi	SP-7:	_____ scfm	_____ psi
SP-4:	_____ scfm	_____ psi	SP-8:	_____ scfm	_____ psi

INCLUDE REMARKS & DESCRIBE ANY OTHER SYSTEM MAINTENANCE PERFORMED ON AGWAY SITE

Remarks: Agway Shed equipment is demobilized.

Other Actions: Removed scrap materials from shed.

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

DATE: 2-Dec-13 ACTIVITIES: Site Inspection

INSPECTION PERSONNEL: R. Allen OTHER PERSONNEL: _____

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

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

PW-6 is OFF due to maintenance problems.

PW-5 and PW-7 are OFF due to injection operation.

PROVIDE WATER LEVEL READINGS ON CONTROL PANEL

RW-1	ON: _____	OFF: <input checked="" type="checkbox"/> <u>7</u> ft	PW-5	ON: <input checked="" type="checkbox"/> _____	OFF: _____ <u>12</u> ft
PW-2	ON: _____	OFF: <input checked="" type="checkbox"/> <u>5</u> ft	PW-6	ON: _____	OFF: <input checked="" type="checkbox"/> <u>65507</u> ft
PW-3	ON: _____	OFF: <input checked="" type="checkbox"/> <u>7</u> ft	PW-7	ON: <input checked="" type="checkbox"/> _____	OFF: _____ <u>13</u> ft
PW-4	ON: <input checked="" type="checkbox"/> _____	OFF: _____ <u>6</u> ft	PW-8	ON: _____	OFF: <input checked="" type="checkbox"/> <u>6</u> ft

EQUALIZATION TANK: 5 ft Last Alarm D/T/Condition: 11/27/13 Air Stripper Low Air

NOTES: _____

INFLUENT FLOW RATE: 24 gpm INFLUENT TOTALIZER READING 1,133,409.0 gallons

SEQUESTERING AGENT DRUM LEVEL: 24 inches (x 1.7=) AMOUNT OF AGENT REMAINING: 41 gallons

SEQUESTERING AGENT FEED RATE: 4.0 ml/min METERING PUMP PRESSURE: 3.0 psi

		Top	Bottom		Top	Bottom
BAG FILTER PRESSURES:	LEFT:	<u>0</u>	<u>0</u> psi	RIGHT:	<u>11 - 7</u>	<u>0</u> psi

INFLUENT FEED PUMP IN USE: #1 #2 _____ INFLUENT PUMP PRESSURE: 13 psi

AIR STRIPPER BLOWER IN USE: #1 #2 _____ AIR STRIPPER PRESSURE: 31.0 in. H₂O

AIR STRIPPER DIFFERENTIAL PRESSURE: 0.17 in. H₂O DISCHARGE PRESSURE: 0.4 in. H₂O

EFFLUENT PUMP IN USE: #1 _____ #2 EFFLUENT FEED PUMP PRESSURE: 4.0 psi

EFFLUENT FLOW RATE: 118 gpm EFFLUENT TOTALIZER READING: 73,018,585 544450 gallons

ARE BUILDING HEATERS IN USE? YES: NO: _____ INSIDE TEMPERATURE (° F): 60

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

2-Dec-13

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:

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

Remarks: Ball valve near Equalizer Tank has slow leak.

Air Stripper exhaust leaks.

Other Actions:

AGWAY

SYSTEM VACUUM: _____ in. H ₂ O			AIR PRESSURE: _____ psi		
SP-1: _____	scfm _____	psi _____	SP-5 _____	scfm _____	psi _____
SP-2: _____	scfm _____	psi _____	SP-6 _____	scfm _____	psi _____
SP-3: _____	scfm _____	psi _____	SP-7 _____	scfm _____	psi _____
SP-4: _____	scfm _____	psi _____	SP-8 _____	scfm _____	psi _____

INCLUDE REMARKS & DESCRIBE ANY OTHER SYSTEM MAINTENANCE PERFORMED ON AGWAY SITE

Remarks: Agway Shed equipment is demobilized.

Other Actions:

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

Date: 21-Nov-13

Measurements taken by: R. Allen

RW-1	<u>17.00</u> ft	Comments: _____
PZ-1A	<u>11.30</u> ft	Comments: _____
PZ-1B	<u>11.09</u> ft	Comments: _____
PZ-1C	<u>12.24</u> ft	Comments: _____
PZ-1D	<u>12.31</u> ft	Comments: _____
PW-2	<u>13.78</u> ft	Comments: _____
PZ-2A	<u>10.85</u> ft	Comments: _____
PZ-2B	<u>11.19</u> ft	Comments: _____
PZ-2C	<u>10.66</u> ft	Comments: _____
MW-7	<u>11.20</u> ft	Comments: <u>Substitute for 2D</u>
PW-3	<u>19.60</u> ft	Comments: _____
PZ-3A	<u>11.31</u> ft	Comments: _____
PZ-3B	<u>11.40</u> ft	Comments: _____
PZ-3C	<u>11.87</u> ft	Comments: _____
PZ-3D	<u>11.38</u> ft	Comments: _____
PW-4	<u>18.20</u> ft	Comments: _____
PZ-4A	<u>11.04</u> ft	Comments: _____
PZ-4B	<u>10.70</u> ft	Comments: _____
PZ-4C	<u>-----</u> ft	Comments: <u>sealed over</u>
PZ-4D	<u>10.32</u> ft	Comments: _____

PW-5	<u>-----</u> ft	Comments: <u>injection fluid</u>
PZ-5A	<u>10.63</u> ft	Comments: _____
PZ-5B	<u>10.62</u> ft	Comments: _____
PZ-5C	<u>10.24</u> ft	Comments: _____
PZ-5D	<u>11.52</u> ft	Comments: _____
PW-6	<u>-----</u> ft	Comments: <u>injection fluid</u>
PZ-6A	<u>11.47</u> ft	Comments: _____
PZ-6B	<u>11.33</u> ft	Comments: _____
PZ-6C	<u>11.62</u> ft	Comments: _____
PZ-6D	<u>11.29</u> ft	Comments: <u>Shown as RW-2 on map</u>
PW-7	<u>-----</u> ft	Comments: <u>injection fluid</u>
MPI-6S	<u>-----</u> ft	Comments: <u>injection fluid</u>
PZ-7B	<u>11.17</u> ft	Comments: _____
OW-B	<u>11.11</u> ft	Comments: _____
PZ-7D	<u>-----</u> ft	Comments: <u>injection fluid</u>
PW-8	<u>20.90</u> ft	Comments: _____
PZ-8A	<u>8.14</u> ft	Comments: _____
PZ-8B	<u>8.06</u> ft	Comments: _____
PZ-8C	<u>7.66</u> ft	Comments: _____
PZ-8D	<u>7.89</u> ft	Comments: _____

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

Mr. C's CLEANERS OM&M

SUMMARY OF FIELD ACTIVITIES BY IEG - 11/2013

DATE	ACTIVITY
4-Nov	OM&M Weekly Inspection. End of month time and expenses.
10-Nov	Changed bag filters.
11-Nov	OM&M Weekly Inspection. Pick up supplies.
12-Nov	Get SVE system supplies
13-Nov	Get SVE system supplies. Inventory Agway Shed equipment. Relate Agway Shed plans to IAE.
15-Nov	Drop-off SVE system supplies. Demobilize Agway Shed equipment. Accept delivery of Redux drums.
18-Nov	OM&M Weekly Inspection. Remove scrap materials from Agway Shed. Assimilate useful Agway Shed materials into Treatment Room. Prepare (2) sludge drums for disposal.
20-Nov	Inspect UHAUL trailer for Shed Drop-off. Purchase (2) drums for well purging. Purge MPI-6S for E&E, Inc.
21-Nov	Piezometer Readings. Get materials for equipment drop-off. Sample sludge drums.
22-Nov	Get SVE system supplies. UM office work.
25-Nov	OM&M Weekly Inspection. Changed bag filters. UM office work.
26-Nov	UM office work
27-Nov	Respond to AutoAlarm. Shovel snow in front of Treatment Room.

Mr. C's CLEANERS OM&M
STATUS OF FIELD ACTIVITIES BY IEG - 11/2013

ACTIVITY	DESCRIPTION	COMPLETION DATE/STATUS
PW-8 cycles erratically	Transducer appears defective. Inspect/clean transducer and aneroid bellows.	Apr-13
PW-2 not pumping	Inspect and clean pump and transducer. Replace defective well pump.	Apr-13
PW-4 Well Repair and Level	Asphalt around PW-4 well has sunk, due to collapse of corroded inner ring. Replace inner ring and bring parking lot up to level with asphalt patch.	Aug-13
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
Replace Air Stripper Exhaust	Present Air Stripper exhaust is very heavy and leaks moisture. Replace with lighter system.	in progress
Demobilize Agway Shed	Remove all equipment from shed and deliver to owner/recycle/dispose as needed; dismantle electrical installations; disassemble/remove shed structure/base.	in progress
PW-7 pitless adapter	Pitless adapter does not seal well. Repair or replace pitless adapter	in progress
PW-8 pitless adapter	Pitless adapter feels broken/does not seal well. Repair/replace pitless adapter	in progress
Blower #2 makes loud noise	Fan seems to have slipped off of the motor shaft. Disassemble, inspect and repair.	in progress
PW-6 pumping into itself	Water enters well when well pump is running. Suspect faulty check valve. Test and repair as needed.	in progress
Dispose Open Top Sludge Drum	Plastic 55 gal drum with open top is almost full of sludge. Dispose of drum to free up space in the cramped Treatment Room.	in progress
Dispose used Bag Filters	There are (2) Metal 55 gal drums filled with used bag filters. Dispose of both drums and get new drum to store used bag filters.	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
Teardown Air Stripper and clean	Sediment bypass from corroded filter housings has plugged lower tray of Air Stripper. Tear down and clean.	Jul-13
Move Effluent Pipe	Effluent pipe blocks the access ports of Tray #2. Air Stripper cleaning through these access ports is compromised. Lower effluent pipe 8" to clear the ports.	Jul-13
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 new Air Stripper holes	After last teardown clean of Air Stripper, more corroded areas started to leak upon reassembly. Repatch old leaking patches as well as new corroded areas.	Aug-13
Repair Air Stripper exhaust pipe	Air Stripper exhaust pipe corroded through inside at the elbow near the ceiling and outside through the vertical pipe. Replace all corroded parts and seal. Add plastic tubes on support wires to prevent wear of flexible pipe.	Aug-13
Repair Leaking Ball Valve	Influent ball valve near EQ Tank drips. Inspect/clean and replace if necessary.	in progress
Install Sub Slab Vapor Extraction System	High levels of VOCs were found under the floor of the Treatment Room. Install a system to remove these vapors and discharge them into the air above the roof.	in progress
Retrieve Sampling Bailers	(2) bailers became stuck in PW-7 and PW-6 when E & E, Inc was doing sampling. Assist E & E, Inc personel in retrieving bailers from the two wells.	Oct-13

Mr. C's CLEANERS OM&M
SUMMARY OF WATER PUMP MAINTENANCE BY IEG - 2013

as of Nov 2013

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	Feb 08, Jan 12	May 10, Nov 08					May 10, Jan 12					
PW - 2	Jun 08, Aug 09, May 10, Apr 13	Jul 08, Apr 13						Nov 11, May 10, Apr 13	Sep 09, Dec 11		Aug-09	Nov-11	Sep-09
PW - 3	Jun 08, Aug 09, May 10	Jul 08, Dec 11		Repair adapter				Aug 09, Nov 11	Dec 11		Aug-09	Nov-11	
PW - 4	Dec 07, May 08, Sep 09, May 10, Jan 12	Dec 07, Jan 12	Sep-13		Aug 13			May 10, Nov 11	Dec 11, Mar 08, Sep 08	Sep-08	Jul 09, Sep 09	Sep 09, Nov 11	Sep-09
PW - 5	Jan 12, May 08	Jul 08, Jan 12						Mar-11	Jan 12, Sep 08	Sep-09		Jan-12	
PW - 6	Jun 08, Jul 09, Jul 12, Nov 12	Jun 08, Jul 09, Aug 12, Nov 12				Jul 12, Nov 12		Aug 09, Jul 12, Dec 12, Apr 13	Sep-09	Jun-08	Aug-09	Aug 09, Sep 09	Jul 09, Sep 09
PW - 7	Jun 08, Jul 09, May 10, Oct 10, Aug 11, Mar 12, Jul 12, Nov 12	Nov 07, Jul 09, Oct 10, Nov 12				Jul 12, Nov 12		Oct 10, Aug 11, Mar 12, Jul 12, Dec 12		Jun-08	Aug 09, May 10, Aug 11		
PW - 8	Jun 08, Aug 09, May 10, Aug 11, Jul 12, Dec 12	Jul 08, Sep 09, Aug 11, Dec 12				Pipe 8/09, Jul 12		May 10, Aug 11, Jul 12, Dec 12, Apr 13			Aug 09, May 10, Aug 11	Apr-13	Apr-13

Mr. C's CLEANERS OM&M

SUMMARY OF WATER PUMP STATUS - 2013

as of Nov 2013

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	DONE 1/12	NO	PZ-1B		YES				NO	NO	NO	NO	YES - bolts
PW-2	NO	NO	NO		YES				NO		NO	NO	YES - bolts
PW-3	NO	NO	NO	REPAIRED 8/09	DONE 8/09				NO		NO	NO	NO
PW-4	DONE 9/13	NO	Replaced 8/13		DONE 9/09				NO		NO	NO	YES - Asphalt patch
PW-5	DONE 1/12	NO	NO		YES				NO	DONE 1/12	DONE 1/12	NO	NO
PW-6	YES	YES	NO	Replaced pipe 8/09	DONE 8/09		NO	YES	NO	NO	DONE 9/09	NO	DONE
PW-7	NO	NO	NO	Replaced pipe 8/09	YES	YES	NO		NO	NO	DONE	NO	NO
PW-8	NO	DONE 8/11	NO	Replaced pipe 8/09	NO	YES	YES		NO	NO	YES	NO	NO

Attachment B
Analytical Report from
Spectrum Analytical Laboratories

Analytical Data Package Work Order ID: M2328

Sampled: November 25, 2013

Received: December 6, 2013

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

12/06/2013

Client: Ecology and Environment Engineering P.C.

Client Sample ID: INFLUENT

Lab ID: M2328-01

Project: Mr. C's Dry Cleaning

Collection Date: 11/25/13 12:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							SW8260_W
Dichlorodifluoromethane	ND		1.0	ug/L		11/30/2013 3:48	75036
Chloromethane	ND		1.0	ug/L		11/30/2013 3:48	75036
Vinyl chloride	ND		1.0	ug/L		11/30/2013 3:48	75036
Bromomethane	ND		1.0	ug/L		11/30/2013 3:48	75036
Chloroethane	ND		1.0	ug/L		11/30/2013 3:48	75036
Trichlorofluoromethane	ND		1.0	ug/L		11/30/2013 3:48	75036
1,1-Dichloroethene	ND		1.0	ug/L		11/30/2013 3:48	75036
Acetone	ND		5.0	ug/L		11/30/2013 3:48	75036
Carbon disulfide	ND		1.0	ug/L		11/30/2013 3:48	75036
Methylene chloride	ND		1.0	ug/L		11/30/2013 3:48	75036
trans-1,2-Dichloroethene	ND		1.0	ug/L		11/30/2013 3:48	75036
Methyl tert-butyl ether	2.8		1.0	ug/L		11/30/2013 3:48	75036
1,1-Dichloroethane	ND		1.0	ug/L		11/30/2013 3:48	75036
2-Butanone	ND		5.0	ug/L		11/30/2013 3:48	75036
cis-1,2-Dichloroethene	26		1.0	ug/L		11/30/2013 3:48	75036
Chloroform	ND		1.0	ug/L		11/30/2013 3:48	75036
1,1,1-Trichloroethane	0.72	J	1.0	ug/L		11/30/2013 3:48	75036
Carbon tetrachloride	ND		1.0	ug/L		11/30/2013 3:48	75036
1,2-Dichloroethane	ND		1.0	ug/L		11/30/2013 3:48	75036
Benzene	ND		1.0	ug/L		11/30/2013 3:48	75036
Trichloroethene	18		1.0	ug/L		11/30/2013 3:48	75036
1,2-Dichloropropane	ND		1.0	ug/L		11/30/2013 3:48	75036
Bromodichloromethane	ND		1.0	ug/L		11/30/2013 3:48	75036
cis-1,3-Dichloropropene	ND		1.0	ug/L		11/30/2013 3:48	75036
4-Methyl-2-pentanone	ND		5.0	ug/L		11/30/2013 3:48	75036
Toluene	ND		1.0	ug/L		11/30/2013 3:48	75036
trans-1,3-Dichloropropene	ND		1.0	ug/L		11/30/2013 3:48	75036
1,1,2-Trichloroethane	ND		1.0	ug/L		11/30/2013 3:48	75036
Tetrachloroethene	350	E	1.0	ug/L		11/30/2013 3:48	75036
2-Hexanone	ND		5.0	ug/L		11/30/2013 3:48	75036
Dibromochloromethane	ND		1.0	ug/L		11/30/2013 3:48	75036
1,2-Dibromoethane	ND		1.0	ug/L		11/30/2013 3:48	75036
Chlorobenzene	ND		1.0	ug/L		11/30/2013 3:48	75036
Ethylbenzene	ND		1.0	ug/L		11/30/2013 3:48	75036
Xylene (Total)	ND		1.0	ug/L		11/30/2013 3:48	75036
Styrene	ND		1.0	ug/L		11/30/2013 3:48	75036
Bromoform	ND		1.0	ug/L		11/30/2013 3:48	75036
Isopropylbenzene	ND		1.0	ug/L		11/30/2013 3:48	75036

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

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

12/06/2013

Client: Ecology and Environment Engineering P.C.
 Client Sample ID: INFLUENT
 Lab ID: M2328-01

Project: Mr. C's Dry Cleaning
 Collection Date: 11/25/13 12:30

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS				SW8260_W
1,1,2,2-Tetrachloroethane	ND	1.0 ug/L	11/30/2013 3:48	75036
1,3-Dichlorobenzene	ND	1.0 ug/L	11/30/2013 3:48	75036
1,4-Dichlorobenzene	ND	1.0 ug/L	11/30/2013 3:48	75036
1,2-Dichlorobenzene	ND	1.0 ug/L	11/30/2013 3:48	75036
1,2-Dibromo-3-chloropropane	ND	1.0 ug/L	11/30/2013 3:48	75036
1,2,4-Trichlorobenzene	ND	1.0 ug/L	11/30/2013 3:48	75036
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0 ug/L	11/30/2013 3:48	75036
Cyclohexane	ND	1.0 ug/L	11/30/2013 3:48	75036
Methyl acetate	ND	1.0 ug/L	11/30/2013 3:48	75036
Methylcyclohexane	ND	1.0 ug/L	11/30/2013 3:48	75036
Surrogate: Dibromofluoromethane	102	85-115 %REC	11/30/2013 3:48	75036
Surrogate: 1,2-Dichloroethane-d4	103	70-120 %REC	11/30/2013 3:48	75036
Surrogate: Toluene-d8	98.2	85-120 %REC	11/30/2013 3:48	75036
Surrogate: Bromofluorobenzene	90.0	75-120 %REC	11/30/2013 3:48	75036

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

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

12/06/2013

Client: Ecology and Environment Engineering P.C.

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Lab ID: M2328-01

Project: Mr. C's Dry Cleaning

Collection Date: 11/25/13 12:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							SW8260_W
Dichlorodifluoromethane	ND		10	ug/L		10/12/02/2013 11:29	75041
Chloromethane	ND		10	ug/L		10/12/02/2013 11:29	75041
Vinyl chloride	ND		10	ug/L		10/12/02/2013 11:29	75041
Bromomethane	ND		10	ug/L		10/12/02/2013 11:29	75041
Chloroethane	ND		10	ug/L		10/12/02/2013 11:29	75041
Trichlorofluoromethane	ND		10	ug/L		10/12/02/2013 11:29	75041
1,1-Dichloroethene	ND		10	ug/L		10/12/02/2013 11:29	75041
Acetone	ND		50	ug/L		10/12/02/2013 11:29	75041
Carbon disulfide	ND		10	ug/L		10/12/02/2013 11:29	75041
Methylene chloride	ND		10	ug/L		10/12/02/2013 11:29	75041
trans-1,2-Dichloroethene	ND		10	ug/L		10/12/02/2013 11:29	75041
Methyl tert-butyl ether	ND		10	ug/L		10/12/02/2013 11:29	75041
1,1-Dichloroethane	ND		10	ug/L		10/12/02/2013 11:29	75041
2-Butanone	ND		50	ug/L		10/12/02/2013 11:29	75041
cis-1,2-Dichloroethene	25		10	ug/L		10/12/02/2013 11:29	75041
Chloroform	ND		10	ug/L		10/12/02/2013 11:29	75041
1,1,1-Trichloroethane	ND		10	ug/L		10/12/02/2013 11:29	75041
Carbon tetrachloride	ND		10	ug/L		10/12/02/2013 11:29	75041
1,2-Dichloroethane	ND		10	ug/L		10/12/02/2013 11:29	75041
Benzene	ND		10	ug/L		10/12/02/2013 11:29	75041
Trichloroethene	18		10	ug/L		10/12/02/2013 11:29	75041
1,2-Dichloropropane	ND		10	ug/L		10/12/02/2013 11:29	75041
Bromodichloromethane	ND		10	ug/L		10/12/02/2013 11:29	75041
cis-1,3-Dichloropropene	ND		10	ug/L		10/12/02/2013 11:29	75041
4-Methyl-2-pentanone	ND		50	ug/L		10/12/02/2013 11:29	75041
Toluene	ND		10	ug/L		10/12/02/2013 11:29	75041
trans-1,3-Dichloropropene	ND		10	ug/L		10/12/02/2013 11:29	75041
1,1,2-Trichloroethane	ND		10	ug/L		10/12/02/2013 11:29	75041
Tetrachloroethene	320		10	ug/L		10/12/02/2013 11:29	75041
2-Hexanone	ND		50	ug/L		10/12/02/2013 11:29	75041
Dibromochloromethane	ND		10	ug/L		10/12/02/2013 11:29	75041
1,2-Dibromoethane	ND		10	ug/L		10/12/02/2013 11:29	75041
Chlorobenzene	ND		10	ug/L		10/12/02/2013 11:29	75041
Ethylbenzene	ND		10	ug/L		10/12/02/2013 11:29	75041
Xylene (Total)	ND		10	ug/L		10/12/02/2013 11:29	75041
Styrene	ND		10	ug/L		10/12/02/2013 11:29	75041
Bromoform	ND		10	ug/L		10/12/02/2013 11:29	75041
Isopropylbenzene	ND		10	ug/L		10/12/02/2013 11:29	75041

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

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

12/06/2013

Client: Ecology and Environment Engineering P.C.

Client Sample ID: INFLUENT

Lab ID: M2328-01

Project: Mr. C's Dry Cleaning

Collection Date: 11/25/13 12:30

Analyses	Result Qual	RL Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS					SW8260_W
1,1,2,2-Tetrachloroethane	ND	10 ug/L		10/12/02/2013 11:29	75041
1,3-Dichlorobenzene	ND	10 ug/L		10/12/02/2013 11:29	75041
1,4-Dichlorobenzene	ND	10 ug/L		10/12/02/2013 11:29	75041
1,2-Dichlorobenzene	ND	10 ug/L		10/12/02/2013 11:29	75041
1,2-Dibromo-3-chloropropane	ND	10 ug/L		10/12/02/2013 11:29	75041
1,2,4-Trichlorobenzene	ND	10 ug/L		10/12/02/2013 11:29	75041
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	10 ug/L		10/12/02/2013 11:29	75041
Cyclohexane	ND	10 ug/L		10/12/02/2013 11:29	75041
Methyl acetate	ND	10 ug/L		10/12/02/2013 11:29	75041
Methylcyclohexane	ND	10 ug/L		10/12/02/2013 11:29	75041
Surrogate: Dibromofluoromethane	106	85-115 %REC		10/12/02/2013 11:29	75041
Surrogate: 1,2-Dichloroethane-d4	102	70-120 %REC		10/12/02/2013 11:29	75041
Surrogate: Toluene-d8	97.3	85-120 %REC		10/12/02/2013 11:29	75041
Surrogate: Bromofluorobenzene	91.8	75-120 %REC		10/12/02/2013 11:29	75041

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

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

12/06/2013

Client: Ecology and Environment Engineering P.C.

Client Sample ID: EFFLUENT

Lab ID: M2328-02

Project: Mr. C's Dry Cleaning

Collection Date: 11/25/13 13:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS				SW8260_W
Dichlorodifluoromethane	ND	1.0 ug/L	11/30/2013 3:21	75036
Chloromethane	ND	1.0 ug/L	11/30/2013 3:21	75036
Vinyl chloride	ND	1.0 ug/L	11/30/2013 3:21	75036
Bromomethane	ND	1.0 ug/L	11/30/2013 3:21	75036
Chloroethane	ND	1.0 ug/L	11/30/2013 3:21	75036
Trichlorofluoromethane	ND	1.0 ug/L	11/30/2013 3:21	75036
1,1-Dichloroethene	ND	1.0 ug/L	11/30/2013 3:21	75036
Acetone	4.6 J	5.0 ug/L	11/30/2013 3:21	75036
Carbon disulfide	ND	1.0 ug/L	11/30/2013 3:21	75036
Methylene chloride	ND	1.0 ug/L	11/30/2013 3:21	75036
trans-1,2-Dichloroethene	ND	1.0 ug/L	11/30/2013 3:21	75036
Methyl tert-butyl ether	ND	1.0 ug/L	11/30/2013 3:21	75036
1,1-Dichloroethane	ND	1.0 ug/L	11/30/2013 3:21	75036
2-Butanone	ND	5.0 ug/L	11/30/2013 3:21	75036
cis-1,2-Dichloroethene	ND	1.0 ug/L	11/30/2013 3:21	75036
Chloroform	ND	1.0 ug/L	11/30/2013 3:21	75036
1,1,1-Trichloroethane	ND	1.0 ug/L	11/30/2013 3:21	75036
Carbon tetrachloride	ND	1.0 ug/L	11/30/2013 3:21	75036
1,2-Dichloroethane	ND	1.0 ug/L	11/30/2013 3:21	75036
Benzene	ND	1.0 ug/L	11/30/2013 3:21	75036
Trichloroethene	ND	1.0 ug/L	11/30/2013 3:21	75036
1,2-Dichloropropane	ND	1.0 ug/L	11/30/2013 3:21	75036
Bromodichloromethane	ND	1.0 ug/L	11/30/2013 3:21	75036
cis-1,3-Dichloropropene	ND	1.0 ug/L	11/30/2013 3:21	75036
4-Methyl-2-pentanone	ND	5.0 ug/L	11/30/2013 3:21	75036
Toluene	ND	1.0 ug/L	11/30/2013 3:21	75036
trans-1,3-Dichloropropene	ND	1.0 ug/L	11/30/2013 3:21	75036
1,1,2-Trichloroethane	ND	1.0 ug/L	11/30/2013 3:21	75036
Tetrachloroethene	ND	1.0 ug/L	11/30/2013 3:21	75036
2-Hexanone	ND	5.0 ug/L	11/30/2013 3:21	75036
Dibromochloromethane	ND	1.0 ug/L	11/30/2013 3:21	75036
1,2-Dibromoethane	ND	1.0 ug/L	11/30/2013 3:21	75036
Chlorobenzene	ND	1.0 ug/L	11/30/2013 3:21	75036
Ethylbenzene	ND	1.0 ug/L	11/30/2013 3:21	75036
Xylene (Total)	ND	1.0 ug/L	11/30/2013 3:21	75036
Styrene	ND	1.0 ug/L	11/30/2013 3:21	75036
Bromoform	ND	1.0 ug/L	11/30/2013 3:21	75036
Isopropylbenzene	ND	1.0 ug/L	11/30/2013 3:21	75036

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
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 DF - Dilution Factor

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

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

12/06/2013

Client: Ecology and Environment Engineering P.C.

Client Sample ID: EFFLUENT

Lab ID: M2328-02

Project: Mr. C's Dry Cleaning

Collection Date: 11/25/13 13:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS				SW8260_W
1,1,2,2-Tetrachloroethane	ND	1.0 ug/L	111/30/2013 3:21	75036
1,3-Dichlorobenzene	ND	1.0 ug/L	111/30/2013 3:21	75036
1,4-Dichlorobenzene	ND	1.0 ug/L	111/30/2013 3:21	75036
1,2-Dichlorobenzene	ND	1.0 ug/L	111/30/2013 3:21	75036
1,2-Dibromo-3-chloropropane	ND	1.0 ug/L	111/30/2013 3:21	75036
1,2,4-Trichlorobenzene	ND	1.0 ug/L	111/30/2013 3:21	75036
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0 ug/L	111/30/2013 3:21	75036
Cyclohexane	ND	1.0 ug/L	111/30/2013 3:21	75036
Methyl acetate	ND	1.0 ug/L	111/30/2013 3:21	75036
Methylcyclohexane	ND	1.0 ug/L	111/30/2013 3:21	75036
Surrogate: Dibromofluoromethane	102	85-115 %REC	111/30/2013 3:21	75036
Surrogate: 1,2-Dichloroethane-d4	101	70-120 %REC	111/30/2013 3:21	75036
Surrogate: Toluene-d8	99.1	85-120 %REC	111/30/2013 3:21	75036
Surrogate: Bromofluorobenzene	92.7	75-120 %REC	111/30/2013 3:21	75036

Qualifiers: ND - Not Detected at the Reporting Limit
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 DF - Dilution Factor

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

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

12/02/2013

Client: Ecology and Environment Engineering P.C.
Client Sample ID: INFLUENT
Lab ID: M2328-01

Project: Mr. C's Dry Cleaning
Collection Date: 11/25/13 12:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 2340B -- HARDNESS by Calculation							SM2340_W
Hardness, Ca/Mg (As CaCO3)	400		4.0	mg/L CaCO3		1 11/27/2013 8:36	75005
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	7.4		1.0	S.U.		1 11/27/2013 10:15	R78309

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

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

12/Q2/2013

Client: Ecology and Environment Engineering P.C.
Client Sample ID: EFFLUENT
Lab ID: M2328-02

Project: Mr. C's Dry Cleaning
Collection Date: 11/25/13 13:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 2340B -- HARDNESS by Calculation							SM2340_W
Hardness, Ca/Mg (As CaCO3)	420			4.0 mg/L CaCO3		111/27/2013 8:39	75005
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	8.4			1.0 S.U.		111/27/2013 10:20	R78309

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 2013

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

NYSDEC Work Assignment #DC13

12 Months of System Operation and Maintenance

November 2013 Report

Month	Optimum Operating Hours	Actual Operating Hours	Up-time Percentage	Capacity	Comments	Electric	Telephone	Gas	Total
January-13	672	576	85.71%	13.8%	Mild January				
February-13	672	594	88.39%	8.7%	Mild February				
March-13	720	720	100.00%	9.6%	Cold March				
April-13	782	782	100.00%	10.7%	Mild April				
May-13	672	672	100.00%	9.8%	Normal May				
June-13	672	672	100.00%	7.5%	Wet June				
July-13	1066	648	61.36%	8.4%	Stripper teardown/new bag filter installed				
August-13	528	528	100.00%	7.6%	Normal August				
September-13	600	600	100.00%	7.5%	Dry September				
October-13	840	840	100.00%	8.0%	Ave October				
November-13	672	672	100.00%	8.3%	Rain				
December-13			#DIV/0!						
Totals to Date	7896	7314	92.63%						\$3,967.53

* 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 ppm 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	\$	1,241.73
Agway Electric	\$	-
Mr. C's Gas	\$	76.57
Mr. C's Telephone	\$	44.20
Ave. Utility Cost Total	\$	1,362.51

12 Month Estimate \$17,712.80

ATTACHMENT C

Budget Remaining:

Electric: \$3,382.68

Telephone: \$230.58

Gas: \$354.27

Total: \$3,967.53