



ecology and environment engineering, p.c.

International Specialists in the Environment

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November 9, 2012

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
October 2012 Operations, Maintenance, and Monitoring Report

Dear Mr. Welling:

Ecology and Environment Engineering, P.C. (EEEP) is pleased to provide the October 2012 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 weekly 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 Attachments B. The full analytical reports along with QA/QC information will be retained by EEEPC. Remedial treatment system utility costs for the Mr. C's site is provided as Attachment C.

In review of the on-site treatment system operations, monitoring and maintenance for October 2012, 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 10/1, 10/16, 10/29, and 11/7/12. Based on the inspection results performed by IEG, the remedial treatment system had a 100.00% operational up-time (Table 1) and the treatment of contaminated groundwater totaling of 346,225 gallons (Table 2) for October 2012.
- The remedial treatment system maintained a 100% operational uptime; however, the groundwater treatment volume was reduced from previous month's volumes due to maintenance issues with pumps PW-6, PW-7, and PW-8. These pumps have been inspected and new pumps have been purchased and will be replaced upon shipment and delivery.
- Initial sampling occurred on October 22, 2012 with the analytical results received on October 28, 2012. The results of the sampling indicated no compliance issues with the effluent discharge requirements for Tetrachloroethene (PCE) or any other contaminants on the SPDES Equivalency Permit. The PCE effluent results for October 2012 were "non-detect" (<1.0 ug/L).

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- The analytical results revealed the influent concentration to be 661 µg/L or 661 ppb, and 0.0 µg/L or 0.0 ppb of treated effluent. PCE effluent concentrations were “non-detect” (< 1 µg/L or < 1 ppb) which is under the 10 µg/L or 10 ppb limit. The summary of influent and effluent contaminant concentrations for the October 22, 2012 sampling events is presented in Table 4.
- The cleanup efficiency for the contaminants of concern at the site during the reporting / operating period 10/1/12 to 11/7/12 was 100.0%. The air stripper unit on the Mr. C’s property is currently in compliance and SAI continues to provide analytical data to sub-ppb accuracy, supporting the accurate determination of effluent contaminant levels. The summary of Effluent Discharge Criteria & Analytical Compliance Results for October 2012 is presented in Table 3.
- The Mr. C’s treatment system based on the total monthly flows has effectively removed 1.91 lbs. of targeted contaminants from the groundwater below the site in the month of October 2012. The calculations and data for the month are presented in Table 5.

Mr. C’s Site – Updated 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 – DelTora LLC – Point of Contact - Mr. Paul Bendrowski – 231-313-1954 (Traverse City, MI). Property Lease – Intrepid Automotive Partners – Dave Kern – 716-481-5703 (East Aurora, NY).

Agway Site Remedial Information

- The Agway facility treatment unit was turned off in December 2011.
- Contact was received from a local architect (Liz Megan 716-901-3029) regarding the redevelopment of the former Agway for a single story building without a basement. Contact report information was passed onto NYSDEC PM and the architectural firm to discuss the issues related to the property.

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

- No current operational issues.

Baseline Sampling – Bioaugmentation Work

- Baseline sampling for the bioaugmentation “pilot” study was performed on November 2, 2012 at four monitoring well location around the Mr. C’s site.
- Analytical results due at the end of November and evaluated for incorporation in the procurement document for subcontractor installation.
- Procurement to be performed in January 2013. Bioaugmentation field work injections to be performed in April 2013.
- Monthly monitoring and analyses to be performed for twelve months to evaluate the effectiveness of the “pilot” installation on the groundwater from the local area monitoring wells.

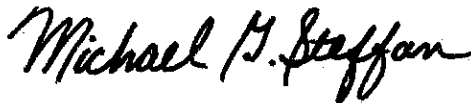
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Mr. C's and Agway Energy Usage Information

- A copy of the site utility costs from the Mr. C's and Agway remedial operations for January through October 2012 are provided as Attachment C.
- The Agway system power was turned off in December 2011.

If you have questions regarding the October 2012 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
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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 1/4/12)	79,183.50	96.27%
January 4, 2012 - February 2, 2012	696	100.00%
February 2, 2012 - March 5, 2012	768	100.00%
March 5, 2012 - April 4, 2012	720	100.00%
April 4, 2012 - April 30, 2012	624	100.00%
April 30, 2012 - June 6, 2012	888	100.00%
June 6, 2012 - July 2, 2012	624	100.00%
July 2, 2012 - July 30, 2012	672	100.00%
July 30, 2012 - September 4, 2012	864	100.00%
September 4, 2012 - October 1, 2012	648	100.00%
October 1, 2012 - November 7, 2012	888	100.00%
		#DIV/0!
		#DIV/0!
Total Hours from System Startup '2/02'	86,575.50	
Average Operational Up-time from startup =		96.58%
Average Operational Up-time for 2012 =		100.00%

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 2011	9/5/02 - 12/4/12	118,436,077
January 2012 ³	1/5/12 - 2/2/12	451,020
February 2012 ³	2/2/12 - 3/5/12	422,955
March 2012 ³	3/5/12 - 4/4/12	357,397
April 2012 ³	4/4/12 - 4/30/12	208,864
May 2012	4/30/12 - 6/6/12	348,980
June 2012	6/6/12 - 7/2/12	236,975
July 2012	7/2/12 - 7/30/12	240,837
August 2012	7/30/12 - 9/4/12	268,929
September 2012	9/4/12 - 10/1/12	211,231
October 2012	10/1/12 - 11/7/12	346,225
November 2012		
December 2012		
Total Gallons Treated in 2012		3,093,413
Total Gallons Treated To Date:		121,529,490

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	October 22, 2012 - Effluent Analytical Values Compliance
Flow	N/A	gpd	9,357
pH	6.0 - 9.0	standard units	8.2
1,1 Dichloroethene	10	µg/L	1.0 U
1,1 Dichloroethane	10	µg/L	1.0 U
cis-1,2-dichloroethene	10	µg/L	1.0 U
Trichloroethene	10	µg/L	1.0 U
Tetrachloroethene	10	µg/L	1.0 U
Vinyl Chloride	10	µg/L	1.0 U
Benzene	5	µg/L	1.0 U
Ethylbenzene	5	µg/L	1.0 U
Methylene Chloride	10	µg/L	1.0 U
1,1,1 Trichloroethane	10	µg/L	1.0 U
Toluene	5	µg/L	1.0 U
Methyl-t-Butyl Ether (MTBE)	NA	ug/L	1.0 U
o-Xylene ²	5	µg/L	NA
m, p-Xylene ²	10	µg/L	NA
Total Xylenes	NA	ug/L	1.0 U
Iron, total	600	µg/L	NA ³
Aluminum	4,000	µg/L	NA ³
Copper	43	µg/L	NA ³
Lead	11	µg/L	NA ³
Manganese	2,000	µg/L	NA ³
Silver	100	µg/L	NA ³
Vanadium	23	µg/L	NA ³
Zinc	230	µg/L	NA ³
Total Dissolved Solids	850	mg/L	NA ³
Total Suspended Solids	20	mg/L	NA ³
Hardness	N/A	mg/L	420
Cyanide, Free	10	µg/L	NA ³

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 taken July 2, 2012 through July 30, 2012. Total gallons: 240,837 divided by 28 operating days.
7. "J" indicates an estimated value below the detection limit.
8. "B" indicates analyte found in the associated blank.

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
October 2012 VOC Analytical Summary

Compound	Based on the 10/22/12 Effluent Sampling Results				
	Influent Concentration*		Effluent Concentration*		Cleanup Efficiency**
	(ug/L)		(ug/L)		(%)
Acetone	ND (<50)	U	ND (<5.0)	U	NA
Benzene	ND (<10)	U	ND (<1.0)	U	NA
2-Butanone	ND (<50)	U	ND (<5.0)	U	NA
cis-1, 2-Dichloroethene	ND (<10)	U	ND (<1.0)	U	NA
Chloroform	ND (<10)	U	ND (<1.0)	U	NA
Methylene chloride	ND (<10)	U	ND (<1.0)	U	NA
Methyl tert-butyl ether (MTBE)	ND (<10)	U	ND (<1.0)	U	NA
Tetrachloroethene	630.0		ND (<1.0)	U	100.00%
Toluene	ND (<10)	U	ND (<1.0)	U	NA
Trichloroethene	31.0		ND (<1.0)	U	100.00%
Carbon Disulfide	ND (<10)	U	ND (<1.0)	U	NA
1,1,2 Trichloro-1,2,2-trifluoroethane	ND (<10)	U	ND (<1.0)	U	NA
1,1,1-Trichloroethene	ND (<10)	U	ND (<1.0)	U	NA
Cyclohexane	ND (<10)	U	ND (<1.0)	U	NA
trans-1,2-dichloroethene	ND (<10)	U	ND (<1.0)	U	NA
Chlorobenzene	ND (<10)	U	ND (<1.0)	U	NA
Methylcyclohexane	ND (<10)	U	ND (<1.0)	U	NA
Methyl acetate	ND (<10)	U	ND (<1.0)	U	NA
Total Xylenes	ND (<10)	U	ND (<1.0)	U	NA
October 2012 TOTALs (in ug/L) =	661.0		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..

* (<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 2011 =				1525.66
January 2012	1/4/12 - 2/2/12	2829.0	2.90	10.77
February 2012	2/2/12 - 3/5/12	809.7	3.77	3.03
March 2012	3/5/12 - 4/4/12	653.0	3.30	1.94
April 2012	4/4/12 - 4/30/12	602.0	2.10	1.05
May 2012	4/30/12 - 6/6/12	431.5	1.52	1.25
June 2012	6/6/12 - 7/2/12	690.1	1.80	1.36
July 2012	7/2/12 - 7/30/12	615.6	0.56	1.91
August 2012	7/30/12 - 9/4/12	266.8	0.00	0.60
September 2012	9/4/12 - 10/1/12	153.5	0.00	0.27
October 2012	10/1/12 - 11/7/12	661.0	0.00	1.91
November 2012				
December 2012				
Total pounds of VOCs removed from inception =				1,549.75
Total pounds of VOCs removed in 2012 =				24.09

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 µg/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. No samples were collected in September 2003. August 2003 values are used.
7. Treatment system operated by Tyree Organization, Ltd. from 9/02 to 9/03.
8. Treatment system operated by O&M Enterprises from 10/03 to 7/07.
9. 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
October 2012

Including:

10/1/12

10/16/12

10/29/12

11/7/12

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

DATE: 1-Oct-12 ACTIVITIES: Site Inspection

INSPECTION PERSONNEL: R. Allen OTHER PERSONNEL: _____

WEATHER CONDITIONS: Cloudy, warm OUTSIDE TEMPERATURE (°F): 64

ARE WELL PUMPS OPERATING IN AUTO: YES: _____ NO: If "NO", provide explanation below
PW-6, PW-7 and PW-8 are OFF due to maintenance problems.

PROVIDE WATER LEVEL READINGS ON CONTROL PANEL

RW-1	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>8</u> ft	PW-5	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>4</u> ft
PW-2	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>7</u> ft	PW-6	ON: <input checked="" type="checkbox"/>	OFF: _____	<u>13</u> ft
PW-3	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>4</u> ft	PW-7	ON: <input checked="" type="checkbox"/>	OFF: _____	<u>12</u> ft
PW-4	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>8</u> ft	PW-8	ON: <input checked="" type="checkbox"/>	OFF: _____	<u>17</u> ft

EQUALIZATION TANK: 3 ft Last Alarm D/T/Condition: 9/24/12 Air Stripper Low Level

NOTES: Pumps at PW-6, PW-7 and PW-8 need to be replaced; PW-8 needs a higher HP pump; awaiting work plan approval to purchase the pumps

INFLUENT FLOW RATE: 13 gpm INFLUENT TOTALIZER READING: 4,460,575.0 gallons

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

SEQUESTERING AGENT FEED RATE: 9.0 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>6</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: 16.0 in. H₂O

AIR STRIPPER DIFFERENTIAL PRESSURE: 0.012 in. H₂O DISCHARGE PRESSURE: 4.5 in. H₂O

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

EFFLUENT FLOW RATE: 116 gpm EFFLUENT TOTALIZER READING: 68,951,629 414300 gallons

ARE BUILDING HEATERS IN USE? YES: _____ NO: INSIDE TEMPERATURE (°F): 70

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

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

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

1-Oct-12

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:

PW-4 has collapsed inner ring. PZ-1B has missing top cover and is temporarily sealed.

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

Remarks: Have (1) full drum of Redux.

Other Actions: Switched Redux pickup to new drum. Have (1) full drum. (10/5/12)

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: 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: 16-Oct-12 ACTIVITIES: Site Inspection

INSPECTION PERSONNEL: R. Allen OTHER PERSONNEL: _____

WEATHER CONDITIONS: Cloudy, cool OUTSIDE TEMPERATURE (°F): 54

ARE WELL PUMPS OPERATING IN AUTO: YES: _____ NO: If "NO", provide explanation below
PW-6, PW-7 and PW-8 are OFF due to maintenance problems.

PROVIDE WATER LEVEL READINGS ON CONTROL PANEL

RW-1	ON: <input checked="" type="checkbox"/>	OFF: _____	<u>8</u> ft	PW-5	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>4</u> ft
PW-2	ON: <input checked="" type="checkbox"/>	OFF: _____	<u>7</u> ft	PW-6	ON: <input checked="" type="checkbox"/>	OFF: _____	<u>13</u> ft
PW-3	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>5</u> ft	PW-7	ON: <input checked="" type="checkbox"/>	OFF: _____	<u>12</u> ft
PW-4	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>7</u> ft	PW-8	ON: <input checked="" type="checkbox"/>	OFF: _____	<u>18</u> ft

EQUALIZATION TANK: 5 ft Last Alarm D/T/Condition: 9/24/12 Air Stripper Low Level

NOTES: _____

INFLUENT FLOW RATE: 15 gpm INFLUENT TOTALIZER READING: 4,673,674.0 gallons

SEQUESTERING AGENT DRUM LEVEL: 27 inches (x 1.7=) AMOUNT OF AGENT REMAINING: 46 gallons

SEQUESTERING AGENT FEED RATE: 5.0 ml/min METERING PUMP PRESSURE: 3.0 psi

		Top	Bottom		Top	Bottom
BAG FILTER PRESSURES:	LEFT:	<u>30</u>	<u>0</u> psi	RIGHT:	<u>48 - 10</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: 16.0 in. H₂O

AIR STRIPPER DIFFERENTIAL PRESSURE: 0.008 in. H₂O DISCHARGE PRESSURE: 4.3 in. H₂O

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

EFFLUENT FLOW RATE: 115 gpm EFFLUENT TOTALIZER READING: 69,081,969 547040 gallons

ARE BUILDING HEATERS IN USE? YES: _____ NO: INSIDE TEMPERATURE (°F): 63

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

WATER LEVEL IN SUMP: 2.0 in. TREATMENT BUILDING CLEAN & ORGANIZED? YES: NO: _____

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

16-Oct-12

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:

PW-4 has collapsed inner ring. PZ-1B has missing top cover and is temporarily sealed.

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

Remarks: _____

Other Actions: Changed bag filters.

Installed new vent cap on Air Stripper exhaust line.

Instal new bulb in PanelView.

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: 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: <u>29-Oct-12</u>		ACTIVITIES: <u>Site Inspection</u>									
INSPECTION PERSONNEL: <u>R. Allen</u>		OTHER PERSONNEL: _____									
WEATHER CONDITIONS: <u>Cloudy, drizzle, cool</u>		OUTSIDE TEMPERATURE (°F): <u>44</u>									
ARE WELL PUMPS OPERATING IN AUTO: YES: _____ NO: <input checked="" type="checkbox"/> If "NO", provide explanation below											
<u>PW-6, PW-7 and PW-8 are OFF due to maintenance problems.</u>											
PROVIDE WATER LEVEL READINGS ON CONTROL PANEL											
RW-1	ON: _____	OFF: <input checked="" type="checkbox"/> <u>5</u> ft	PW-5 ON: _____ OFF: <input checked="" type="checkbox"/> <u>6</u> ft								
PW-2	ON: _____	OFF: <input checked="" type="checkbox"/> <u>6</u> ft	PW-6 ON: <input checked="" type="checkbox"/> OFF: _____ <u>14</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: _____	OFF: <input checked="" type="checkbox"/> <u>6</u> ft	PW-8 ON: <input checked="" type="checkbox"/> OFF: _____ <u>18</u> ft								
EQUALIZATION TANK: <u>5</u> ft		Last Alarm D/T/Condition: <u>10/18/12 Air Stripper Low Level</u>									
NOTES: _____											
INFLUENT FLOW RATE: <u>65</u> gpm		INFLUENT TOTALIZER READING: <u>4,867,758.0</u> gallons									
SEQUESTERING AGENT DRUM LEVEL: <u>21</u> inches		(x 1.7=) AMOUNT OF AGENT REMAINING: <u>36</u> gallons									
SEQUESTERING AGENT FEED RATE: <u>9.0</u> ml/min		METERING PUMP PRESSURE: <u>3.0</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;">0</td><td style="text-align: center;">0</td></tr></table> psi		Top	Bottom	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;">6</td><td style="text-align: center;">0</td></tr></table> psi		Top	Bottom	6	0
Top	Bottom										
0	0										
Top	Bottom										
6	0										
INFLUENT FEED PUMP IN USE: #1 <input checked="" type="checkbox"/> #2 _____		INFLUENT PUMP PRESSURE: <u>12</u> psi									
AIR STRIPPER BLOWER IN USE: #1 _____ #2 <input checked="" type="checkbox"/>		AIR STRIPPER PRESSURE: <u>16.0</u> in. H ₂ O									
AIR STRIPPER DIFFERENTIAL PRESSURE: <u>0.004</u> in. H ₂ O		DISCHARGE PRESSURE: <u>4.0</u> in. H ₂ O									
EFFLUENT PUMP IN USE: #1 _____ #2 <input checked="" type="checkbox"/>		EFFLUENT FEED PUMP PRESSURE: <u>3.0</u> psi									
EFFLUENT FLOW RATE: <u>115</u> gpm		EFFLUENT TOTALIZER READING: <u>69,200,119</u> 667740 gallons									
ARE BUILDING HEATERS IN USE? YES: _____ NO: <input checked="" type="checkbox"/>		INSIDE TEMPERATURE (°F): <u>61</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>7.5</u> in.		TREATMENT BUILDING CLEAN & ORGANIZED? YES: <input checked="" type="checkbox"/> NO: _____									

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

29-Oct-12

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:

PW-4 has collapsed inner ring. Most MWs and UEs have puddles on them from ongoing rain.

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

Remarks: Roofing materials are being stored in the Library parking lot over well groups PW-6 and PW-7.

Other Actions: PZ-1B - surface is much harder than it was last Friday but not yet fully cured. Removed traffic cones.

Respond to Auto Dialer alarm during storm (low Air Stripper pressure).

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: System is OFF until further instructions.

Other Actions: Turned OFF electrical breakers in outside electrical panel.

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

DATE: <u>7-Nov-12</u>		ACTIVITIES: <u>Site Inspection</u>	
INSPECTION PERSONNEL: <u>R. Allen</u>		OTHER PERSONNEL: _____	
WEATHER CONDITIONS: <u>Sunny, cool</u>		OUTSIDE TEMPERATURE (°F): <u>30</u>	
ARE WELL PUMPS OPERATING IN AUTO: YES: _____ NO: <input checked="" type="checkbox"/> If "NO", provide explanation below			
<u>PW-6, PW-7 and PW-8 are OFF due to maintenance problems.</u>			
PROVIDE WATER LEVEL READINGS ON CONTROL PANEL			
RW-1	ON: _____	OFF: <input checked="" type="checkbox"/> <u>5</u> ft	PW-5 ON: _____ OFF: <input checked="" type="checkbox"/> <u>4</u> ft
PW-2	ON: _____	OFF: <input checked="" type="checkbox"/> <u>7</u> ft	PW-6 ON: <input checked="" type="checkbox"/> OFF: _____ <u>14</u> ft
PW-3	ON: _____	OFF: <input checked="" type="checkbox"/> <u>6</u> ft	PW-7 ON: <input checked="" type="checkbox"/> OFF: _____ <u>13</u> ft
PW-4	ON: _____	OFF: <input checked="" type="checkbox"/> <u>6</u> ft	PW-8 ON: <input checked="" type="checkbox"/> OFF: _____ <u>18</u> ft
EQUALIZATION TANK: <u>3</u> ft		Last Alarm D/T/Condition: <u>10/29/12 Air Stripper Low Air Pressure</u>	
NOTES: _____			
INFLUENT FLOW RATE: <u>12</u> gpm		INFLUENT TOTALIZER READING: <u>5,025,071.0</u> gallons	
SEQUESTERING AGENT DRUM LEVEL: <u>16</u> inches		(x 1.7=) AMOUNT OF AGENT REMAINING: <u>27</u> gallons	
SEQUESTERING AGENT FEED RATE: <u>7.0</u> ml/min		METERING PUMP PRESSURE: <u>4.0</u> psi	
BAG FILTER PRESSURES:			
LEFT: <u>20</u> ^{Top} <u>0</u> ^{Bottom} psi		RIGHT: <u>31</u> ^{Top} <u>0</u> ^{Bottom} psi	
INFLUENT FEED PUMP IN USE: #1 <input checked="" type="checkbox"/> #2 _____		INFLUENT PUMP PRESSURE: <u>12</u> psi	
AIR STRIPPER BLOWER IN USE: #1 _____ #2 <input checked="" type="checkbox"/>		AIR STRIPPER PRESSURE: <u>16.0</u> in. H ₂ O	
AIR STRIPPER DIFFERENTIAL PRESSURE: <u>0.007</u> in. H ₂ O		DISCHARGE PRESSURE: <u>4.0</u> in. H ₂ O	
EFFLUENT PUMP IN USE: #1 _____ #2 <input checked="" type="checkbox"/>		EFFLUENT FEED PUMP PRESSURE: <u>3.0</u> psi	
EFFLUENT FLOW RATE: <u>118</u> gpm		EFFLUENT TOTALIZER READING: <u>69,297,854</u> 767460 gallons	
ARE BUILDING HEATERS IN USE? YES: <input checked="" type="checkbox"/> NO: _____		INSIDE TEMPERATURE (°F): <u>53</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

7-Nov-12

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:

PW-4 has collapsed inner ring. Tremco roofing materials are being stored on Library parking lot over groups PW-6 and PW-7.

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

Remarks: NYSDEC traffic cone is inside of Treatment Room.

Other Actions: Changed bag filters.

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: System is OFF until further instructions.

Other Actions:

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

Date: 19-Oct-12

Measurements taken by:

R. Allen

RW-1	<u>18.90</u> ft	Comments: _____
PZ-1A	<u>12.26</u> ft	Comments: _____
PZ-1B	----- ft	Comments: <u>damaged</u>
PZ-1C	<u>19.07</u> ft	Comments: _____
PZ-1D	----- ft	Comments: <u>trailer parked over</u>
PW-2	<u>15.30</u> ft	Comments: _____
PZ-2A	<u>11.57</u> ft	Comments: _____
PZ-2B	<u>11.95</u> ft	Comments: _____
PZ-2C	<u>11.41</u> ft	Comments: _____
MW-7	<u>11.94</u> ft	Comments: <u>Substitute for 2D</u>
PW-3	<u>19.90</u> ft	Comments: _____
PZ-3A	<u>12.07</u> ft	Comments: _____
PZ-3B	<u>12.13</u> ft	Comments: _____
PZ-3C	<u>12.65</u> ft	Comments: _____
PZ-3D	<u>12.14</u> ft	Comments: _____
PW-4	----- ft	Comments: <u>damaged ring</u>
PZ-4A	<u>12.10</u> ft	Comments: _____
PZ-4B	<u>11.45</u> ft	Comments: _____
PZ-4C	----- ft	Comments: <u>sealed over</u>
PZ-4D	<u>11.00</u> ft	Comments: _____

PW-5	<u>14.60</u> ft	Comments: _____
PZ-5A	<u>11.46</u> ft	Comments: _____
PZ-5B	<u>11.38</u> ft	Comments: _____
PZ-5C	<u>11.02</u> ft	Comments: _____
PZ-5D	<u>11.69</u> ft	Comments: _____
PW-6	<u>12.00</u> ft	Comments: _____
PZ-6A	<u>12.13</u> ft	Comments: _____
PZ-6B	<u>12.14</u> ft	Comments: _____
PZ-6C	<u>12.01</u> ft	Comments: _____
PZ-6D	<u>12.01</u> ft	Comments: <u>Shown as RW-2 on map</u>
PW-7	<u>11.50</u> ft	Comments: _____
MPI-6S	<u>11.04</u> ft	Comments: _____
PZ-7B	<u>11.83</u> ft	Comments: _____
OW-B	<u>21.41</u> ft	Comments: _____
PZ-7D	<u>11.49</u> ft	Comments: _____
PW-8	<u>9.00</u> ft	Comments: _____
PZ-8A	<u>8.70</u> ft	Comments: _____
PZ-8B	<u>8.76</u> ft	Comments: _____
PZ-8C	<u>8.45</u> ft	Comments: _____
PZ-8D	<u>8.74</u> ft	Comments: _____

PUMPS IN OPERATION DURING MEASUREMENTS

RW-1 pump on?	Yes	<input checked="" type="checkbox"/>	No
PW-2 pump on?	Yes	<input checked="" type="checkbox"/>	No
PW-3 pump on?	Yes	<input checked="" type="checkbox"/>	No
PW-4 pump on?	Yes	<input type="checkbox"/>	No

PW-5 pump on?	Yes	<input checked="" type="checkbox"/>	No
PW-6 pump on?	Yes	<input checked="" type="checkbox"/>	No
PW-7 pump on?	Yes	<input checked="" type="checkbox"/>	No
PW-8 pump on?	Yes	<input checked="" type="checkbox"/>	No

Mr. C's CLEANERS OM&M

SUMMARY OF FIELD ACTIVITIES BY IEG - 10/2012

DATE	ACTIVITY
1-Oct	OM&M Weekly Inspection. End of month summaries. Inventory well pumps.
5-Oct	Switched Redux pickup to new drum
8-Oct	OM&M Weekly Inspection and office work
16-Oct	OM&M Weekly Inspection. Changed bag filters.
17-Oct	Get supplies. Make new vent cap.
18-Oct	Install new vent cap. Meet with NYSDEC. Meeting with E & E, Inc. Instal new PanelView bulb.
19-Oct	Piezometer Readings
22-Oct	OM&M Weekly Inspection and Sampling. UM office work.
23-Oct	UM office work
24-Oct	Mobilize for PZ-1B repair
25-Oct	PZ-1B replace inner ring.
26-Oct	Demobilize equipment for MW repair. MW repair office work.
29-Oct	OM&M Weekly Inspection and Sampling. UM office work.
30-Oct	Respond to AutoDialer Alarm. Inspect PZ-1B.
31-Oct	Inspect PZ-1B. Turn off breakers inside of Agway Shed electrical box. UM office work.

Mr. C's CLEANERS OM&M
STATUS OF FIELD ACTIVITIES BY IEG - 10/2012

ACTIVITY	DESCRIPTION	COMPLETION DATE/STATUS
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.	in progress
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 and /or dispose as needed. Dismantle electrical installations. Disassemble / remove shed structure and base.	on hold
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
PZ-1B Repair	Top cover was knocked off and lost by snowplow. Replace inner ring and lower height so MW will not be as susceptible to snowplow damage.	Oct-12
Adjust Air Stripper	Effluent lab results were below standard. Troubleshoot and adjust Air Stripper to achieve better results.	in progress
Mr Cs Building Remodel	The Mr Cs building is being remodeled - in May, it included siding and lights around the Treatment Room. Photo document the remodeling.	Aug-12
Mr Cs Parking Lot Repaving	During early June the paved parking lot is being repaved. Talk to property manager and paving contractors about MWs and UEs. Photo document the remodeling.	Jun-12
Auto Alarm will not program	Remove Verbatim Auto Alarm and send to RACO for repair. Reinstall repaired unit.	Jun-12
Replace Discharge Vent Cap	Air Stripper exhaust vent is not large enough and creates too much backpressure. Replace existing cap with one that has a larger exhaust vent.	Oct-12
Replace Panelview Bulb	OEM bulb burns very hot and is expensive to replace. Replace with aftermarket bulb that burns cooler and lasts longer.	Oct-12
PW-6, PW-7 and PW-8 are not pumping down	Inspect and clean pump and transducer. Inspect pitless adapter to gauge condition of horizontal lines; awaiting Work Plan approval to get replacement pumps	in progress

Mr. C's CLEANERS OM&M
SUMMARY OF WATER PUMP MAINTENANCE BY IEG - 2012

as of Oct 12

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

Mr. C's CLEANERS OM&M

SUMMARY OF WATER PUMP STATUS - 2012

as of Oct 12

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 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			YES			NO		NO	NO	YES - bolts
PW-3	NO	NO		REPAIRED 8/09	DONE 8/09			NO		NO	NO	NO
PW-4	DONE 1/12	NO	YES		DONE 9/09			NO		NO	NO	YES - Asphalt patch
PW-5	DONE 1/12	NO			YES			NO	DONE 1/12	DONE 1/12	NO	NO
PW-6	YES	DONE 8/09		Replaced pipe 8/09	DONE 8/09		YES	NO	NO	DONE 9/09	NO	DONE
PW-7	YES	DONE 10/10		Replaced pipe 8/09	YES	YES	YES	NO	NO	DONE	NO	NO
PW-8	YES	DONE 8/11		Replaced pipe 8/09	NO	YES	YES	NO	NO	YES	NO	NO

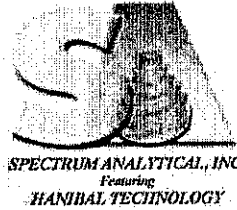
Attachment B
Analytical Report from
Mitkem Laboratories

Analytical Data Package Work Order ID: L22265

Sampled: October 22, 2012

Received: October 28, 2012

Report Date:
28-Oct-12 22:12



- Final Report
 Re-Issued Report
 Revised Report

Laboratory Report

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

Work Order: L2265
Project: Mr. C's Dry Cleaning
Project #: 4500000623/EN-003229-0001-03TTO

Attn: Michael Steffan

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
L2265-01	INFLUENT	Aqueous	22-Oct-12 13:00	23-Oct-12 08:54
L2265-02	EFFLUENT	Aqueous	22-Oct-12 13:30	23-Oct-12 08:54

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.

Spectrum Analytical (Rhode Island) 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
North Carolina	581
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



SPECTRUM ANALYTICAL, INC.
Pioneering
ANALYTICAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

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

Report To: E & E Inc
368 Pleasant View Dr
Leicester, MA 14086
 Telephone: (716) 684-8060
 Project Mgr.: Mike Steffan

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

P.O. No.: _____ RQN: _____

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= _____

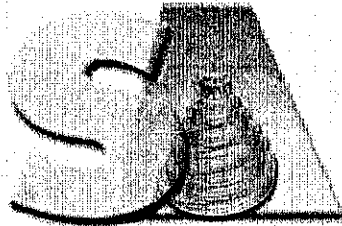
List preservative code below:
1 4 2

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers:				Analyses:	Notes:	
						# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic			
L2265	01	INFLUENT	Oct 22, 2012	1:00 P	GW				1			QA/QC Reporting Level <input type="checkbox"/> Level I <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input checked="" type="checkbox"/> Level IV <input type="checkbox"/> Other <u>CAT A</u> State specific reporting standards: <u>Please send another sample kit.</u>
		INFLUENT		1:00 P	GW				1			
		INFLUENT		1:00 P	GW	2						
		EFFLUENT		1:30 P	GW				1			
		EFFLUENT		1:30 P	GW				1			
L2265		EFFLUENT		1:30 P	GW	2						

Reinquinished by: Richard C Allen Jr Received by: Valentin Brijal Date: 10/23/12 Time: 8:54

E-mail to w.steffan@ene.com
 EDD Format PDF

Condition upon receipt: Sealed Ambient ACC



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

*** Volatiles ***

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

EPA SAMPLE NO.

INFLUENT

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L2265 Mod. Ref No.: _____ SDG No.: SL2265
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2265-01A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0790.D
 Level: (TRACE/LOW/MED) LOW Date Received: 10/23/2012
 % Moisture: not dec. Date Analyzed: 10/23/2012
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.0
 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		10	U
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-69-4	Trichlorofluoromethane		10	U
75-35-4	1,1-Dichloroethene		10	U
67-64-1	Acetone		50	U
75-15-0	Carbon disulfide		10	U
75-09-2	Methylene chloride		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
1634-04-4	Methyl tert-butyl ether		10	U
75-34-3	1,1-Dichloroethane		10	U
78-93-3	2-Butanone		50	U
156-59-2	cis-1,2-Dichloroethene		10	U
67-66-3	Chloroform		10	U
71-55-6	1,1,1-Trichloroethane		10	U
56-23-5	Carbon tetrachloride		10	U
107-06-2	1,2-Dichloroethane		10	U
71-43-2	Benzene		10	U
79-01-6	Trichloroethene		31	
78-87-5	1,2-Dichloropropane		10	U
75-27-4	Bromodichloromethane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
108-10-1	4-Methyl-2-pentanone		50	U
108-88-3	Toluene		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
127-18-4	Tetrachloroethene		630	
591-78-6	2-Hexanone		50	U
124-48-1	Dibromochloromethane		10	U
106-93-4	1,2-Dibromoethane		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethylbenzene		10	U
1330-20-7	Xylene (Total)		10	U

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

EPA SAMPLE NO.

INFLUENT

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L2265 Mod. Ref No.: _____ SDG No.: SL2265
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2265-01A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0790.D
 Level: (TRACE/LOW/MED) LOW Date Received: 10/23/2012
 % Moisture: not dec. _____ Date Analyzed: 10/23/2012
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10.0
 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		10	U
75-25-2	Bromoform		10	U
98-82-8	Isopropylbenzene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U
96-12-8	1,2-Dibromo-3-chloropropane		10	U
120-82-1	1,2,4-Trichlorobenzene		10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		10	U
110-82-7	Cyclohexane		10	U
79-20-9	Methyl acetate		10	U
108-87-2	Methylcyclohexane		10	U

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

EPA SAMPLE NO.

EFFLUENT

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L2265 Mod. Ref No.: _____ SDG No.: SL2265
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2265-02A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0791.D
 Level: (TRACE/LOW/MED) LOW Date Received: 10/23/2012
 % Moisture: not dec. Date Analyzed: 10/23/2012
 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		1.0	U
75-34-3	1,1-Dichloroethane		1.0	U
78-93-3	2-Butanone		5.0	U
156-59-2	cis-1,2-Dichloroethene		1.0	U
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		1.0	U
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		1.0	U
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

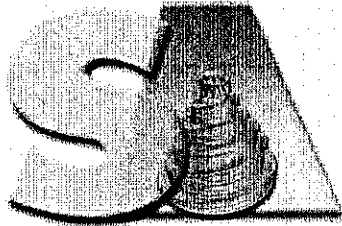
1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EFFLUENT

Lab Name: SPECTRUM ANALYTICAL, INC. Contract: _____
 Lab Code: MITKEM Case No.: L2265 Mod. Ref No.: _____ SDG No.: SL2265
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2265-02A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6I0791.D
 Level: (TRACE/LOW/MED) LOW Date Received: 10/23/2012
 % Moisture: not dec. Date Analyzed: 10/23/2012
 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



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

*** Wet Chemistry ***

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division 10/25/2012

Client: Ecology and Environment Engineering P.C.
Client Sample ID: INFLUENT
Lab ID: L2265-01

Project: Mr. C's Dry Cleaning
Collection Date: 10/22/12 13:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 2340B -- HARDNESS by Calculation							SM2340_W
Hardness, Ca/Mg (As CaCO3)	430		4.0	mg/L CaCO3		110/25/2012 9:54	68973
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	7.2		1.0	S.U.		110/23/2012 10:30	R70373

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. Featuring Hanibal Technology -- Rhode Island Division

10/25/2012

Client: Ecology and Environment Engineering P.C.

Client Sample ID: EFFLUENT

Lab ID: L2265-02

Project: Mr. C's Dry Cleaning

Collection Date: 10/22/12 13:30

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		110/25/2012 9:58	68973
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	8.2		1.0	S.U.		110/23/2012 10:31	R70373

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 2012

Mr. C's Dry Cleaners Site - Remedial Treatment Utility Costs										
NYSDEC Work Assignment #DC13.02.01.01										
12 Months of System Operation and Maintenance										
October 2012 Report										
Utility Provider	Account #	E&E Cost Center	Description	Jan-2012	Feb-2012	Mar-2012	Apr-2012	May-2012	Jun-2012	Electric:
New York State E&G	06-311-11-002616-26	002700.DC13.02.01.01	Mr. C's Electric Costs	\$1,297.64	1,191.08	1,075.21	1,076.16	963.93	1,210.05	\$15,800.00
New York State E&G	76-311-11-015900-18		Agway Site - Electric	\$239.29		\$97.33		\$82.01		\$540.00
National Fuel Gas	15819628-05	002700.DC13.02.01.01	Mr. C's Natural Gas Costs	\$205.14	193.04	155.38	258.86	70.77	\$30.08	\$1,120.00
Totals				\$ 1,742.07	\$ 1,384.12	\$ 1,327.92	\$ 1,335.02	\$ 1,116.71	\$ 1,240.13	\$17,460.00
Mr. C's Electric Costs				\$1,506.04	1,412.11	1,419.49	1,351.27			
Agway Electric				\$38.66		\$40.12				
Mr. C's Natural Gas Costs				\$21.96	12.56	\$1.33	\$7.63			
Totals				\$1,566.06	\$ 1,424.69	\$ 1,490.94	\$ 1,418.90	\$ -	\$ -	\$ 1,454.40
Electric (Both sites)				\$13,000.39						
Natural Gas				\$ 1,046.17						
Grand Total - NYSE&G/National Fuel Gas Costs To Date				\$ 14,046.56						
Notes: Overbilled natural gas costs - no charges										
Estimated Reading \$ 333.44 in red -adjusted billing										
Phone	Phone #	E&E Cost Center	Location Description	Jan-2012	Feb-2012	Mar-2012	Apr-2012	May-2012	Jun-2012	
Verizon	716-652-0094	002700.DC13.02.01.01	Mr. C's Telephone Costs	\$ 35.00	35.00	35.00	35.00	35.00	35.00	
Totals				\$ 35.00	35.00	35.00	35.00	35.00	35.00	
Grand Total - Verizon Costs to Date				\$ 350.00						
Grand Total All Utilities To Date				\$ 14,396.56						
Ave./Month										\$ 35.00
716 652 0094 416 26 2										

Mr. C's Dry Cleaners Site - Remedial Treatment Utility Costs
NYSDEC Work Assignment #DC13
12 Months of System Operation and Maintenance
October 2012 Report

Month	Optimum Operating Hours	Actual Operating Hours	Up-time Percentage	Capacity	Comments:	Budget Remaining:	Electric:
January-12	892	892	100.00%	13.8%	Mild January		\$2,799.61
February-12	768	768	100.00%	11.7%	Mild February		\$190.00
March-12	720	720	100.00%	10.6%	Very Mild March		\$73.83
April-12	624	624	100.00%	7.2%	Warm and Fair April		
May-12	888	888	100.00%	8.4%	Sunny May		
June-12	624	624	100.00%	8.0%	Sunny June		
July-12	672	672	100.00%	7.7%	Very Dry		
August-12	864	864	100.00%	6.8%	Very Dry		
September-12	848	848	100.00%	6.9%	Dry		
October-12	888	888	100.00%	8.6%	Normal		
November-12			#DNV/01				
December-12			#DNV/01				
Totals to Date	7388	7388	100.00%				

* Percent Capacity is based on initial operating groundwater flows from the eight installed pumps from 9402. 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	\$	1,250.30
Agway Electric	\$	98.48
Mr. C's Gas	\$	104.62
Mr. C's Telephone	\$	35.00
Ave. Utility Cost Total	\$	1,489.40

12 Month Estimate \$19,362.16