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 10, 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
November 2012 Operations, Maintenance, and Monitoring Report

Dear Mr. Welling:

Ecology and Environment Engineering, P.C. (EEEPC) is pleased to provide the November 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 November 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 11/7, 11/12, 11/19, 11/26, and 12/3/12. 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 325,770 gallons (Table 2) for November 2012.
- The remedial treatment system maintained a 100% operational uptime. Pumps PW-6 and PW-7 were replaced with new pumps on 11/15/12. The pump for PW-8 has been purchased and received. It will be replaced in December 2012.
- Initial sampling occurred on December 3, 2012 with the analytical results received on December 7, 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 November 2012 were "non-detect" (<1.0 ug/L).

- The analytical results revealed the influent concentration to be 886.1 µg/L or 886.1 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 November 2012 sampling event is presented in Table 4.
- The cleanup efficiency for the contaminants of concern at the site during the reporting / operating period 11/7/12 to 12/3/12 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 November 2012 is presented in Table 3.
- The Mr. C's treatment system based on the total monthly flows has effectively removed 2.41 lbs. of targeted contaminants from the groundwater below the site in the month of November 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.

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 November 2012 are provided as Attachment C.
- The Agway system power was turned off in December 2011.

If you have questions regarding the November 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
CTF- 002700.DC13.02.01.01

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%
November 7, 2012 - December 3, 2012	624	100.00%
		#DIV/0!
Total Hours from System Startup '2/02'	**87,199.50**	
Average Operational Up-time from startup =		**96.60%**
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	11/7/12 - 12/3/12	325,770
December 2012		
Total Gallons Treated in 2012		**3,419,183**
Total Gallons Treated To Date:		**121,855,260**

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 3, 2012 - Effluent Analytical Values Compliance
Flow	N/A	gpd	12,530
pH	6.0 - 9.0	standard units	8.3
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[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	490
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 taken November 7, 2012 through December 3, 2012. Total gallons: 325,770 divided by 26 operating days.
7. "J" indicates an estimated value below the detection limit.
8. "B" indicates analyte found in the associated blank.
9. Removed from the required analysis list by NYSDEC Region 9 in February 2005.

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 2012 VOC Analytical Summary

Compound	Based on the 12/3/12 Effluent Sampling Results				
	Influent Concentration* (ug/L)		Effluent Concentration* (ug/L)		Cleanup Efficiency** (%)
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	56		ND (<1.0)	U	100.00%
Chloroform	ND (<10)	U	ND (<1.0)	U	NA
Methylene chloride	7.3	J	ND (<1.0)	U	100.00%
Methyl tert-butyl ether (MTBE)	7.8	J	ND (<1.0)	U	100.00%
Tetrachloroethene	720.0		ND (<1.0)	U	100.00%
Toluene	ND (<10)	U	ND (<1.0)	U	NA
Trichloroethene	95.0		ND (<1.0)	U	100.00%
Carbon Disulfide	ND (<10)	U	ND (<1.0)	U	NA
1,1,2 Trichloro-1,2,2-trifluororethane	ND (<10)	U	ND (<1.0)	U	NA
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
November 2012 TOTALs (in ug/L) =	**886.1**		**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 form 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	2.41
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	11/7/12 - 12/3/12	886.1	0.00	2.41
December 2012				
Total pounds of VOCs removed from inception =				**1,552.66**
Total pounds of VOCs removed in 2012 =				**27.00**

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. 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:

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

Attachment A
IEG Weekly Inspection Reports
November 2012

Including:

11/7/12

11/12/12

11/19/12

11/26/12

12/3/12

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

DATE: 7-Nov-12 ACTIVITIES: Site Inspection

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

WEATHER CONDITIONS: Sunny, cool OUTSIDE TEMPERATURE (°F): 30

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: √	5 ft	PW-5	ON: _____	OFF: √	4 ft
PW-2	ON: _____	OFF: √	7 ft	PW-6	ON: √	OFF: _____	14 ft
PW-3	ON: _____	OFF: √	6 ft	PW-7	ON: √	OFF: _____	13 ft
PW-4	ON: _____	OFF: √	6 ft	PW-8	ON: √	OFF: _____	18 ft

EQUALIZATION TANK: 3 ft Last Alarm D/T/Condition: 10/29/12 Air Stripper Low Air Pressure

NOTES: _____

INFLUENT FLOW RATE: 12 gpm INFLUENT TOTALIZER READING: 5,025,071.0 gallons

SEQUESTERING AGENT DRUM LEVEL: 16 inches (x 1.7=) AMOUNT OF AGENT REMAINING: 27 gallons

SEQUESTERING AGENT FEED RATE: 7.0 ml/min METERING PUMP PRESSURE: 4.0 psi

		Top	Bottom		Top	Bottom
BAG FILTER PRESSURES:	LEFT:	20	0 psi	RIGHT:	31	0 psi

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

AIR STRIPPER BLOWER IN USE: #1 _____ #2 √ AIR STRIPPER PRESSURE: 16.0 in. H_2O

AIR STRIPPER DIFFERENTIAL PRESSURE: 0.007 in. H_2O DISCHARGE PRESSURE: 4.0 in. H_2O

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

EFFLUENT FLOW RATE: 118 gpm EFFLUENT TOTALIZER READING: 69,297,854 | 767460 gallons

ARE BUILDING HEATERS IN USE? YES: √ NO: _____ INSIDE TEMPERATURE (°F): 53

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

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_2O *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: 12-Nov-12 ACTIVITIES: Site Inspection

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

WEATHER CONDITIONS: Partly cloudy, warm OUTSIDE TEMPERATURE (° F): 66

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: √	7 ft	PW-5	ON: _____	OFF: √	4 ft
PW-2	ON: _____	OFF: √	6 ft	PW-6	ON: √	OFF: _____	14 ft
PW-3	ON: _____	OFF: √	7 ft	PW-7	ON: √	OFF: _____	13 ft
PW-4	ON: _____	OFF: √	8 ft	PW-8	ON: √	OFF: _____	18 ft

EQUALIZATION TANK: 5 ft Last Alarm D/T/Condition: 11/7/12 Air Stripper Low Level

NOTES:

INFLUENT FLOW RATE: 58 gpm INFLUENT TOTALIZER READING: 5,112,197.0 gallons

SEQUESTERING AGENT DRUM LEVEL: 14 inches (x 1.7=) AMOUNT OF AGENT REMAINING: 24 gallons

SEQUESTERING AGENT FEED RATE: 8.0 ml/min METERING PUMP PRESSURE: 3.0 psi

	Top	Bottom		Top	Bottom
BAG FILTER PRESSURES:	LEFT: 0	0 psi	RIGHT:	8	0 psi

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

AIR STRIPPER BLOWER IN USE: #1 _____ #2 √ AIR STRIPPER PRESSURE: 16.0 in. H_2O

AIR STRIPPER DIFFERENTIAL PRESSURE: 0.005 in. H_2O DISCHARGE PRESSURE: 4.0 in. H_2O

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

EFFLUENT FLOW RATE: 0.005 gpm EFFLUENT TOTALIZER READING: 69,350,490 | 821010 gallons

ARE BUILDING HEATERS IN USE? YES: _____ NO: √ INSIDE TEMPERATURE (° F): 72

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

12-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:

Other Actions: Emptied old Redux drum into new drum. Have 1/2 drum left.

Swept spruce needles off of Library parking lot around well groups PW-6 and PW-7.

Replaced well pumps in PW-6 and PW-7 with stronger units. Added CLR to both wells to reduce blockage.

AGWAY

SYSTEM VACUUM: _____ In. H_2O *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: 19-Nov-12 ACTIVITIES: Site Inspection

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

WEATHER CONDITIONS: Sunny, cool OUTSIDE TEMPERATURE (° F): 45

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

PW-8 is OFF due to maintenance problems.

PROVIDE WATER LEVEL READINGS ON CONTROL PANEL

RW-1	ON: _____	OFF: √	8 ft	PW-5	ON: _____	OFF: √	4 ft
PW-2	ON: _____	OFF: √	5 ft	PW-6	ON: _____	OFF: √	7 ft
PW-3	ON: √	OFF: _____	7 ft	PW-7	ON: _____	OFF: √	7 ft
PW-4	ON: _____	OFF: √	8 ft	PW-8	ON: √	OFF: _____	18 ft

EQUALIZATION TANK: 4 ft Last Alarm D/T/Condition: 11/7/12 Air Stripper Low Level

NOTES: _____

INFLUENT FLOW RATE: 55 gpm INFLUENT TOTALIZER READING: 5,257,017.0 gallons

SEQUESTERING AGENT DRUM LEVEL: 10 inches (x 1.7=) AMOUNT OF AGENT REMAINING: 17 gallons

SEQUESTERING AGENT FEED RATE: 8.0 ml/min METERING PUMP PRESSURE: 3.0 psi

BAG FILTER PRESSURES:	Top	Bottom		Top	Bottom	
LEFT:	0	0	psi	RIGHT: 22 - 6	0	psi

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

AIR STRIPPER BLOWER IN USE: #1 _____ #2 √ AIR STRIPPER PRESSURE: 17.0 in. H_2O

AIR STRIPPER DIFFERENTIAL PRESSURE: 0.006 in. H_2O DISCHARGE PRESSURE: 4.5 in. H_2O

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

EFFLUENT FLOW RATE: 118 gpm EFFLUENT TOTALIZER READING: 69,438,596 | 910870 gallons

ARE BUILDING HEATERS IN USE? YES: √ NO: _____ INSIDE TEMPERATURE (° F): 61

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

WATER LEVEL IN SUMP: 6.5 in. TREATMENT BUILDING CLEAN & ORGANIZED? YES: √ NO: _____

MR. C's DRY CLEANERS SITE

NYSDEC Site #90150157

SITE INSPECTION FORM

19-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.

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

Remarks: Turned Jesco pump down slightly to: Left 2.25; Right 1.3.

Other Actions: Changed bag filters.

AGWAY

SYSTEM VACUUM: _____ in. H_2O *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: 26-Nov-12 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-8 is OFF due to maintenance problems.

PROVIDE WATER LEVEL READINGS ON CONTROL PANEL

RW-1	ON: ____	OFF: √	6 ft	PW-5	ON: ____	OFF: √	5 ft
PW-2	ON: ____	OFF: √	7 ft	PW-6	ON: ____	OFF: √	5 ft
PW-3	ON: ____	OFF: √	6 ft	PW-7	ON: ____	OFF: √	7 ft
PW-4	ON: ____	OFF: √	4 ft	PW-8	ON: √	OFF: ____	18 ft

EQUALIZATION TANK: 3 ft Last Alarm D/T/Condition: 11/20/12 Air Stripper Low Level

NOTES: ____

INFLUENT FLOW RATE: 14 gpm INFLUENT TOTALIZER READING: 5,411,362.0 gallons

SEQUESTERING AGENT DRUM LEVEL: 5 inches (x 1.7=) AMOUNT OF AGENT REMAINING: 8.5 gallons

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

		Top	Bottom			Top	Bottom	
BAG FILTER PRESSURES:	LEFT:	0	0	psi	RIGHT:	7	0	psi

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

AIR STRIPPER BLOWER IN USE: #1 ____ #2 √ AIR STRIPPER PRESSURE: 17.0 in. H_2O

AIR STRIPPER DIFFERENTIAL PRESSURE: 0.008 in. H_2O DISCHARGE PRESSURE: 4.0 in. H_2O

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

EFFLUENT FLOW RATE: 116 gpm EFFLUENT TOTALIZER READING: 69,531,624 | 5790 gallons

ARE BUILDING HEATERS IN USE? YES: √ NO: ____ INSIDE TEMPERATURE (° F): 58

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

26-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.

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

Remarks:

Other Actions: Added backup can of Redux to last drum. Have 1/4 drum left.

Hosed off vent screen above man door. Will install insulation and vent cover next week when dry.

Took delivery of (3) Redux drums.

AGWAY

SYSTEM VACUUM: _____ in. H_2O *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: 3-Dec-12 ACTIVITIES: Site Inspection

INSPECTION PERSONNEL: R. Allen OTHER PERSONNEL:

WEATHER CONDITIONS: Cloudy, cool OUTSIDE TEMPERATURE (°F): 44

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

PW-8 is OFF due to maintenance problems.

PROVIDE WATER LEVEL READINGS ON CONTROL PANEL

RW-1	ON:	OFF: √	5 ft	PW-5	ON:	OFF: √	6 ft		
PW-2	ON:	OFF: √	5 ft	PW-6	ON:	OFF: √	7 ft		
PW-3	ON: √	OFF:	7 ft	PW-7	ON:	OFF: √	5 ft		
PW-4	ON:	OFF: √	7 ft	PW-8	ON: √	OFF:	19 ft		

EQUALIZATION TANK: 3 ft Last Alarm D/T/Condition: 11/20/12 Air Stripper Low Level

NOTES:

INFLUENT FLOW RATE: 15 gpm INFLUENT TOTALIZER READING: 5,563,804.0 gallons

SEQUESTERING AGENT DRUM LEVEL: 30 inches (x 1.7=) AMOUNT OF AGENT REMAINING: 51 gallons

SEQUESTERING AGENT FEED RATE: 5.0 ml/min METERING PUMP PRESSURE: 2.0 psi

		Top	Bottom			Top	Bottom	
BAG FILTER PRESSURES:	LEFT:	0	0	psi	RIGHT:	6	0	psi

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

AIR STRIPPER BLOWER IN USE: #1 #2 √ AIR STRIPPER PRESSURE: 18.0 in. H_2O

AIR STRIPPER DIFFERENTIAL PRESSURE: 0.007 in. H_2O DISCHARGE PRESSURE: 3.8 in. H_2O

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

EFFLUENT FLOW RATE: 114 gpm EFFLUENT TOTALIZER READING: 69,623,624 | 99510 gallons

ARE BUILDING HEATERS IN USE? YES: NO: √ INSIDE TEMPERATURE (°F): 67

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

WATER LEVEL IN SUMP: 6.5 in. TREATMENT BUILDING CLEAN & ORGANIZED? YES: √ NO:

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

3-Dec-12

SAMPLES COLLECTED? YES: √ NO: _____

	Sample ID	Time of Sampling	pH	Turbidity	Temp.	Sp. Cond.
AIR STRIPPER INFLUENT:	INF	1:30 PM	7.44	5.92	15.6	1888
AIR STRIPPER EFFLUENT:	EFF	1:30 PM	8.60	7.03	16.7	2300

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.

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

Remarks: Increased Jesco pump slightly to: Left 2.25; Right 1.25.

Other Actions:

AGWAY

SYSTEM VACUUM: _____ in. H_2O *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: 9-Nov-12 **Measurements taken by:** R. Allen

RW-1	16.40 ft	Comments:		PW-5	14.90 ft	Comments:	
PZ-1A	11.67 ft	Comments:		PZ-5A	10.40 ft	Comments:	
PZ-1B	10.82 ft	Comments:		PZ-5B	10.55 ft	Comments:	
PZ-1C	22.05 ft	Comments:		PZ-5C	10.14 ft	Comments:	
PZ-1D	12.12 ft	Comments:		PZ-5D	10.96 ft	Comments:	
PW-2	16.20 ft	Comments:		PW-6	----- ft	Comments:	Covered
PZ-2A	10.68 ft	Comments:		PZ-6A	----- ft	Comments:	with roofing
PZ-2B	11.03 ft	Comments:		PZ-6B	----- ft	Comments:	materials
PZ-2C	10.42 ft	Comments:		PZ-6C	11.59 ft	Comments:	
MW-7	11.06 ft	Comments:	Substitute for 2D	PZ-6D	11.21 ft	Comments:	Shown as RW-2 on map
PW-3	16.70 ft	Comments:		PW-7	10.80 ft	Comments:	
PZ-3A	11.16 ft	Comments:		MPI-6S	10.98 ft	Comments:	
PZ-3B	11.25 ft	Comments:		PZ-7B	11.09 ft	Comments:	
PZ-3C	11.74 ft	Comments:		OW-B	11.02 ft	Comments:	
PZ-3D	11.23 ft	Comments:		PZ-7D	10.71 ft	Comments:	
PW-4	----- ft	Comments:	Damaged ring	PW-8	17.40 ft	Comments:	
PZ-4A	11.53 ft	Comments:		PZ-8A	7.88 ft	Comments:	
PZ-4B	10.62 ft	Comments:		PZ-8B	7.87 ft	Comments:	
PZ-4C	----- ft	Comments:	Sealed over	PZ-8C	7.72 ft	Comments:	
PZ-4D	10.21 ft	Comments:		PZ-8D	7.43 ft	Comments:	

PUMPS IN OPERATION DURING MEASUREMENTS

RW-1 pump on?		Yes	√	No	PW-5 pump on?		Yes	√	No
PW-2 pump on?		Yes	√	No	PW-6 pump on?		Yes	√	No
PW-3 pump on?		Yes	√	No	PW-7 pump on?		Yes	√	No
PW-4 pump on?		Yes		No	PW-8 pump on?		Yes	√	No

Mr. C's CLEANERS OM&M

SUMMARY OF FIELD ACTIVITIES BY IEG - 11/2012

DATE	ACTIVITY
6-Nov	End of month summaries.
7-Nov	OM&M Weekly Inspection and office work. Changed bag filters.
9-Nov	Piezometer Readings
12-Nov	OM&M Weekly Inspection. Swept spruce needles off of Library parking lot.
15-Nov	Replace PW-6 and PW-7 well pumps. Treat wells with CLR.
16-Nov	PW-7 treat with CLR. Demobilize well maintenance equipment. Record pump cycles.
19-Nov	OM&M Weekly Inspection.
20-Nov	Changed bag filters. Record totalizer meters.
26-Nov	OM&M Weekly Inspection. Cleaned vent screen over man door. Added spare Redux can to last drum.
29-Nov	Took delivery of Redux drums. Move Redux pickup to new drum. Have Treatment Room key made.

Mr. C's CLEANERS OM&M
STATUS OF FIELD ACTIVITIES BY IEG - 11/2012

ACTIVITY	DESCRIPTION	COMPLETION DATE/STATUS
Repair (2) Filter Baskets	(1) Filter Basket is splitting open along its seam. (1) Filter Basket has a broken handle. Take both baskets to Buffalo Well Products for repair.	Mar-12
Dig containment trench around Library Parking Lot	Spruce needles wash onto Library Parking Lot around groups PW-6 and PW-7 during rain storms. The needles wash into pump wells and underground enclosures where they obstruct the flow of water in the pipes. Re-dig small trench around the entire back parking lot.	Mar-12
Clean Effluent Pumps/Meter	Effluent Meter is running slowly. Disassemble and clean pumps and meter.	Apr-12
Repair Blower #2	Determined bearing is failing in A.S. blower motor. Replaced motor with new motor - but replacement motor was defective; pulled motor for warranty repair. Balanced blower fan before reinstalling.	Jun-12
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/dispose as needed; dismantle electrical installations; disassemble/remove shed structure/base.	on hold
PW-7 pitless adapter	Pitless adapter does not seal well. Repair or replacer pitless adapter	in progress
PW-8 pitless adapter	Pitless adapter feels brokent/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.	Nov-12
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 and PW-7 are not pumping down	Inspect and clean pump and transducer. Suspect horizontal lines are clogged with iron oxide/sediment. Inspect pitless adapter to gauge condition of horizontal lines; awaiting Work Plan approval to get replacement pumps. Replace existing pumps with stronger units and treat system with CLR.	Nov-12
PW-8 is not pumping down	Inspect/clean pump & transducer. Suspect horizontal lines are clogged with iron oxide/sediment. Inspect pitless adapter to gauge condition of horizontal lines; Replace existing pumps with stronger units and treat system with CLR.	in progress

Mr. C's CLEANERS OM&M

SUMMARY OF WATER PUMP MAINTENANCE BY IEG - 2012

as of Nov 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, Nov 12	Aug 12, Nov 12			Jul 12, Nov 12	Apr 09, Aug 09, Jul 12	Sep-09		Aug-09	Aug 09, Sep 09	Jul 09, Sep 09
PW - 7	Aug 11, Mar 12, Jul 12, Nov 12	Oct 10, Nov 12			Jul 12, Nov 12	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 Nov 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	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 1/12	NO	YES		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	NO	NO	NO	Replaced pipe 8/09	DONE 8/09		NO	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	YES	DONE 8/11	NO	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: L2499
Sampled: December 3, 2012
Received: December 4, 2012

Report Date:
07-Dec-12 16:01

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

Laboratory Report

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

Work Order: L2499
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
L2499-01	INFLUENT	Aqueous	03-Dec-12 14:00	04-Dec-12 10:00
L2499-02	EFFLUENT	Aqueous	03-Dec-12 14:30	04-Dec-12 10:00

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 requirments have been meet.

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

NELAP ACCREDITED LABORATORY

LABORATORY ACCREDITATION BUREAU ACCREDITED
Certificate # L2247 Testing

Authorized by:

Yihai Ding
Laboratory Director

Sample Transmittal Documentation

SPECTRUM ANALYTICAL, INC
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

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

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

Invoice To: E&E, Inc
P.O. No.: _____ RQN: _____

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

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9=_____ 10=_____ 11=_____

List preservative code below:

Notes:

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

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: pH	Hardness	VOC
	INFLUENT	Dec 3, 2012	2:00 P	G	GW				1	✓		
	INFLUENT		2:00 P	G	GW				1		✓	
	INFLUENT		2:00 P	G	GW	2						✓
	EFFLUENT		2:30 P	G	GW				1	✓		
	EFFLUENT		2:30 P	G	GW				1		✓	
	EFFLUENT		2:30 P	G	GW	2						✓

QA/QC Reporting Level
☐ Level I ☐ Level II
☐ Level III ☐ Level IV
☒ Other CAT A

State specific reporting standards: _____

Please send (2) Sampling Kits.

☒ E-mail to msteffan@ene.com
EDD Format PDF

Condition upon receipt: ☑ Iced ☐ Ambient ☑ °C 5

Relinquished by:	Received by:	Date:	Time:
Richard C Allen Jr		12/4/12	10:00

3

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

Received By:	Page 01 of 00
Reviewed By:	Log-in Date 12/04/2012
Work Order: L2499	Client Name: Ecology and Environment Engineering P.C.
Project Name/Event: Mr. C's Dry Cleaning / 4500000623/EN-003229-0001-03TTO	

Remarks: (1/2) Please see associated sample/extract transfer logbook pages submitted with this data package.

1. Custody Seal(s)	Present / Absent
	Intact / Broken
2. Custody Seal Nos.	N/A
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists	Present / Absent
4. Airbill	AirBill / Sticker
	Present / Absent
5. Airbill No.	FedEx 7942 0908 0297
6. Sample Tags	Present / Absent
Sample Tag Numbers	Listed / Not Listed on Chain-of-Custody
7. Sample Condition	Intact / Broken/ Leaking
8. Cooler Temperature Indicator Bottle	Present / Absent
9. Cooler Temperature	5 °C
10. Does information on TR/COCs and sample tags agree?	Yes / No
11. Date Received at Laboratory	12/04/2012
12. Time Received	10:00

Sample Transfer	
Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO
Area #	Area #
By	By
On	On

IR Temp Gun ID:MT-1

CoolantCondition: ICE

Preservative Name/Lot No:

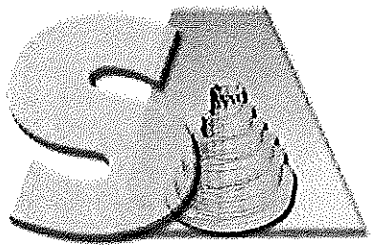
Lab Sample ID	Preservation (pH) HNO3	H2SO4	HCl	NaOH	H3PO4	VOA Matrix	Soil HeadSpace or Air Bubble > or equal to 1/4"
L2499-01	<2					H	
L2499-02	<2					H	

VOA Matrix Key:

US = Unpreserved Soil	A= Air
UA = Unpreserved Aqueous	H = HCl
M = MeOH	E = Encore
N = NaHSO4	F = Freeze

See Sample Condition Notification/Corrective Action Form Yes / No

Rad OK Yes / No



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

* Volatiles *

175 Metro Center Boulevard · Warwick, RI 02886-1755 · 401-732-3400 · FAX 401-732-3499
www.spectrum-analytical.com

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

INFLUENT

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2499 Mod. Ref No.: SDG No.: SL2499

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2499-01A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V2M5288.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/04/2012

% Moisture: not dec. Date Analyzed: 12/05/2012

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: (ug/L or ug/Kg) UG/L	Q
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	7.3	J
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-butyl ether	7.8	J
75-34-3	1,1-Dichloroethane	10	U
78-93-3	2-Butanone	50	U
156-59-2	cis-1,2-Dichloroethene	56	
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	95	
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	720	
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

CLIENT SAMPLE NO.

INFLUENT

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2499 Mod. Ref No.: SDG No.: SL2499

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2499-01A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V2M5288.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/04/2012

% Moisture: not dec. Date Analyzed: 12/05/2012

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: (ug/L or ug/Kg) UG/L	Q
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

CLIENT SAMPLE NO.

EFFLUENT

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2499 Mod. Ref No.: SDG No.: SL2499

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2499-02A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M9538.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/04/2012

% Moisture: not dec. Date Analyzed: 12/04/2012

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: (ug/L or ug/Kg) UG/L	Q
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

CLIENT SAMPLE NO.

EFFLUENT

Lab Name: SPECTRUM ANALYTICAL, INC. Contract:

Lab Code: MITKEM Case No.: L2499 Mod. Ref No.: SDG No.: SL2499

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: L2499-02A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1M9538.D

Level: (TRACE/LOW/MED) LOW Date Received: 12/04/2012

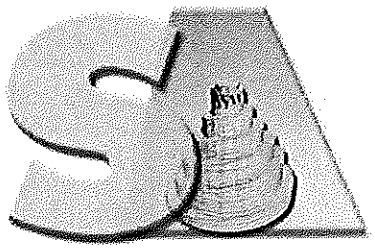
% Moisture: not dec. Date Analyzed: 12/04/2012

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: (ug/L or ug/Kg) UG/L	Q
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 *

175 Metro Center Boulevard · Warwick, RI 02886-1755 · 401-732-3400 · FAX 401-732-3499
www.spectrum-analytical.com

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

12/07/2012

Client: Ecology and Environment Engineering P.C.
Client Sample ID: INFLUENT
Lab ID: L2499-01

Project: Mr. C's Dry Cleaning
Collection Date: 12/03/12 14:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 2340B -- HARDNESS by Calculation							**SM2340_W**
Hardness, Ca/Mg (As CaCO3)	480		4.0	mg/L CaCO3	1	12/06/2012 8:22	69564
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	7.2		1.0	S.U.	1	12/04/2012 11:00	R71200

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Ecology and Environment Engineering P.C.
Client Sample ID: EFFLUENT
Lab ID: L2499-02
Project: Mr. C's Dry Cleaning
Collection Date: 12/03/12 14:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 2340B -- HARDNESS by Calculation							**SM2340_W**
Hardness, Ca/Mg (As CaCO3)	490		4.0	mg/L CaCO3	1	12/06/2012 8:26	69564
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	8.3		1.0	S.U.	1	12/04/2012 11:02	R71200

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation 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

ATTACHMENT C

NYSDEC Work Assignment #DC13.02.01.01

12 Months of System Operation and Maintenance

November 2012 Report

Utility Budget:	
Electric:	$15,800.00
Telephone:	$540.00
Gas	$1,120.00
Total:	$17,460.00

Gas, Telephone, and Electric

Utility Provider	Account #	E&E Cost Center	Description	Jan-2012	Feb-2012	Mar-2012	Apr-2012	May-2012	Jun-2012
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
New York State E&G	76-311-11-015900-18		Agway Site - Electric	$239.29		$97.33		$82.01	
National Fuel Gas	5819628-05	002700.DC13.02.01. 01	Mr. C's Natural Gas Costs	$205.14	$ 193.04	$ 155.38	$ 258.86	$ 70.77	$30.08
			Totals	**$ 1,742.07**	**$ 1,384.12**	**$ 1,327.92**	**$ 1,335.02**	**$ 1,116.71**	**$ 1,240.13**

				Jul-2012	Aug-2012	Sep-2012	Oct-2012	Nov-2012	Dec-2012	Ave. /Month
			Mr. C's Electric Costs	$1,506.04	$ 1,412.11	$ 1,419.49	$ 1,351.27	$ 1,435.03		**$ 1,267.09**
			Agway Electric	$38.66		$40.12		$41.58	$47.53	**$ 83.79**
			Mr. C's Natural Gas Costs	$21.36	$ 12.58	$ 31.33	$ 67.63	$ 108.45		**$ 104.97**
			Totals	**$1,566.06**	**$ 1,424.69**	**$ 1,490.94**	**$ 1,418.90**	**$ 1,585.06**	**$ 47.53**	**$ 1,455.85**

Electric (Both sites)	**$14,524.53**
Natural Gas	**$ 1,154.62**
Grand Total - NYSE&G/National Fuel Gas Costs To Date	**$ 15,679.15**

Notes:

Overbilled natural gas costs - no charges

Estimated Reading $ 333.44 in red -adjusted billing

Phone

Utility Provider	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
Account #									
716 652 0094 416 26 2									

	Jul-2012	Aug-2012	Sep-2012	Oct-2012	Nov-2012	Dec-2012	Ave./Month
	$ 35.00	$ 35.00	$ 35.00	$ 35.00			**$ 35.00**

Grand Total - Verizon Costs to Date	**$ 350.00**
Grand Total All Utilities To Date	**$ 16,029.15**

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

ATTACHMENT C

NYSDEC Work Assignment #DC13

12 Months of System Operation and Maintenance

November 2012 Report

Budget Remaining:

Electric:	$1,275.47
Telephone:	$190.00
Gas	-$34.62
Total:	$1,430.85

	Optimum Operating Hours	Actual Operating Hours	Up-time Percentage	Capacity	Comments:
January-12	692	692	100.00%	13.8%	Mild January
February-12	768	768	100.00%	11.7%	Mild February
March-12	720	720	100.00%	10.6%	Very Mild March
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%	6.6%	Very Dry
September-12	648	648	100.00%	6.9%	Dry
October-12	888	888	100.00%	8.8%	Normal
November-12	624	624	100.00%	11.2%	Wetter weather new pumps for PW6 and PW7
December-12			#DIV/0!		
Totals to Date	**8012**	**8012**	**100.00%**		

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

Monthly Average Costs

Mr. C's Electric	**$**	**1,267.09**			
Agway Electric	**$**	**83.79**			
Mr. C's Gas	**$**	**104.97**			
Mr. C's Telephone	**$**	**35.00**			
Ave. Utility Cost Total	**$**	**1,490.85**	**times**	**12 Month Estimate**	**$19,381.00**