



# ecology and environment engineering, p.c.

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March 8, 2010

Mr. William Welling PE, 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 # D004442.DC13, Site # 9-15-157  
February 2010 Operations, Maintenance, and Monitoring Report

Dear Mr. Welling:

Ecology and Environment Engineering, P.C. (EEEPC) is pleased to provide the February 2010 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 Mitkem Laboratories, Inc. (MTK) on February 22, 2010 are provided as Attachment B. The full analytical report along with QA/QC information will be retained by EEEPC. Remedial treatment system utility costs for the Mr. C's and Agway sites are provided as Attachment C.

In review of the on-site treatment system operations, monitoring and maintenance for February 2010, EEEPC offers the following comments and highlights:

## Operational Summary

### Mr. C's Site – Remedial Operations Information

- Checklists for weekly system inspections from IEG are provided as Attachment A for 2/1, 2/8, 2/18, 2/22, and 3/2/10.
- Based on the weekly inspection results performed by IEG, the remedial treatment system had a 100% operational up-time (Table 1) for February 2010 and the treatment of contaminated groundwater totaling of 672,687 gallons (Table 2).
- The analytical samples for the monthly compliance were taken on February 1, 2010. The sampling results were received by EEEPC on February 22, 2010. Excerpts from the Analytical Data package for the February 1, 2010 sampling event are presented in Attachment B.
- The air stripper unit on Mr. C's property is in compliance and MTK 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 February 2010 is presented in Table 3.

Mr. William Welling PE, Project Manager

March 8, 2010

Page 2 of 2

- A review of the analytical data revealed the influent concentration to be 992.2  $\mu\text{g/L}$  or 992.2 ppb, and 3.90  $\mu\text{g/L}$  or 3.90 ppb of treated effluent. The summary of influent and effluent contaminant concentrations for February 2010 is presented in Table 4. Overall cleanup efficiency for the reporting period 2/1/10 to 3/2/10 was 99.61%.
- The Mr. C's treatment system based on the total monthly flows has effectively removed 5.55 lbs of targeted contaminants from the groundwater below the site in the month of February 2010. The calculations and data for the month and entire year of 2010 are presented in Table 5.

The air stripper unit on Mr. C's property continues to be in compliance and provide analytical data to sub-ppb accuracy, supporting the accurate determination of effluent contaminant levels. Based on analytical results for the February 1, 2010 sampling event, the Mr. C's treatment system continues to effectively remove targeted contaminants from the groundwater below the site in accordance with the SPDES Equivalency permit.

#### **Agway Site Remedial Information**

- Road reconstruction of Main Street has been completed in front of the Agway property. Equipment and construction materials have been removed from the site.

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

- No current operational issues.

#### **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 February 2010 and year to date are provided as Attachment C.

If you have questions regarding the February 2010 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*

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
<b>(Up-time from inception to 1/5/10)</b>	<b>61,992.50</b>	<b>95.99%</b>
January 5, 2010 - February 1, 2010	648	100.00%
February 1, 2010 - March 2, 2010	696	100.00%
Mar-2010		
Apr-2010		
May-2010		
Jun-2010		
Jul-2010		
Aug-2010		
Sep-2010		
Oct-2010		
Nov-2010		
Dec-2010		
<b>Total Hours from System Startup '2/02'</b>	<b>63,336.50</b>	
<b>Average Operational Up-time from startup =</b>		<b>96.07%</b>
<b>Average Operational Up-time for 2010 =</b>		<b>100.00%</b>

**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
Total - Inception to December 2009	9/5/02 - 1/5/10	109,009,157
January 2010 <sup>3</sup>	1/5/10 - 2/1/10	648,852
February 2010 <sup>3</sup>	2/1/10 - 3/2/10	672,687
March 2010 <sup>3</sup>		
April 2010 <sup>3</sup>		
May 2010 <sup>3</sup>		
June 2010 <sup>3</sup>		
July 2010 <sup>3</sup>		
August 2010 <sup>3</sup>		
September 2010 <sup>3</sup>		
October 2010 <sup>3</sup>		
November 2010 <sup>3</sup>		
December 2010 <sup>3</sup>		
Total Gallons Treated in 2010		1,321,539
<b>Total Gallons Treated To Date:</b>		<b>110,330,696</b>

**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 <sup>1</sup>	Units	February 1, 2010 Effluent Analytical Values - Compliance
Flow	6.0 - 9.0	gpd	23,196.10
pH	10	standard units	7.90
1,1 Dichloroethene	10	µg/L	ND(<1.0)
1,2 Dichloroethane	10	µg/L	ND(<1.0)
cis-1,2-dichloroethene	10	µg/L	ND(<1.0)
Trichloroethene	10	µg/L	ND(<1.0)
Tetrachloroethene	10	µg/L	2.6
Vinyl Chloride	10	µg/L	ND(<1.0)
Benzene	5	µg/L	ND(<1.0)
Ethylbenzene	5	µg/L	ND(<1.0)
Methylene Chloride	10	µg/L	ND(<1.0)
1,1,1 Trichloroethane	10	µg/L	ND(<1.0)
Toluene	5	µg/L	ND(<1.0)
Methyl-t-Butyl Ether (MTBE)	NA	µg/L	1.3
o-Xylene <sup>3</sup>	5	µg/L	NA
m, p-Xylene <sup>3</sup>	10	µg/L	NA
Total Xylenes	NA	µg/L	ND(<1.0)
Iron, total	600	µg/L	NA <sup>9</sup>
Aluminum	4,000	µg/L	NA <sup>9</sup>
Copper	48	µg/L	NA <sup>9</sup>
Lead	11	µg/L	NA <sup>9</sup>
Manganese	2,000	µg/L	NA <sup>9</sup>
Silver	100	µg/L	NA <sup>9</sup>
Vanadium	28	µg/L	NA <sup>9</sup>
Zinc	230	µg/L	NA <sup>9</sup>
Total Dissolved Solids	850	mg/L	NA <sup>9</sup>
Total Suspended Solids	20	mg/L	NA <sup>9</sup>
Hardness	N/A	mg/l	530
Cyanide, Free	10	µg/L	NA <sup>9</sup>

NOTES:

- "Daily Maximum" excerpted from Attachment E of Addendum 1 to the Construction Contract Documents dated October 2000.
- Analytical report did not differentiate between o-Xylene and m, p-Xylene. Total Xylene value reported is given in each line.
- Shaded cells indicate that analytical value exceeds the "Daily Maximum"
- "ND" indicates that the compound was not detected and lists the practical quantitation limit in parentheses.
- "NA" indicates that analyses were not performed and data is unavailable.
- Average flows based on effluent readings taken February 1, 2010 through March 2, 2010. Total gallons: 672,687 divided by 29 operating days (696 actual operating hours).
- "J" indicates an estimated value below the detection limit.
- "B" indicates analyte found in the associated blank.
- Removed from the required analysis list by NYSDEC Region 9 in February 2005.

Table 4  
**Mr. C's Dry Cleaners Site Remediation**  
**NYSDEC Site #9-15-157**  
**February 2010 VOC Analytical Summary**

Compound	Based on the 2/1/10 Effluent Sampling Results			
	Influent Concentration* (ug/L)	Effluent Concentration* (ug/L)	Cleanup Concentration*	Cleanup Efficiency (%)
Acetone	ND (<50.0)	U	ND (<5.0)	NA
Benzene	ND (<10.0)	U	ND (<1.0)	NA
2-Butanone	ND (<50.0)	U	ND (<5.0)	NA
cis-1, 2-Dichloroethene	21.0		ND (<1.0)	100%
Methylene chloride	ND (<10.0)	U	ND (<1.0)	NA
Methyl tert-butyl ether (MTBE)	7.2	J	1.3	81.94%
Tetrachloroethene	920.0		2.6	99.72%
Toluene	ND (<10.0)	U	ND (<1.0)	NA
Trichloroethene	44.0		ND (<1.0)	100%
Carbon Disulfide	ND (<10.0)	U	ND (<1.0)	NA
1,1,2 Trichloro-1,2,2-trifluoroethane	ND (<10.0)	U	ND (<1.0)	NA
Cyclohexane	ND (<10.0)	U	ND (<1.0)	NA
trans-1,2-dichloroethene	ND (<10.0)	U	ND (<1.0)	NA
Methylcyclohexane	ND (<10.0)	U	ND (<1.0)	NA
Methyl acetate	ND (<10.0)	U	ND (<1.0)	NA
Total Xylenes	ND (<10.0)	U	ND (<1.0)	NA
<b>February 1, 2010 TOTALs (in ug/L) =</b>	<b>992.2</b>		<b>3.90</b>	<b>99.61%</b>

Notes:

1. "NA" = Not applicable
2. "ND" or "U" = Compound analyzed, but was not detected. Detection limit in parentheses
3. "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" = Compounds identified in analysis required secondary dilution factoring.
6. "B" indicates analyte found in the associated blank.

\* (<50) - Detection Limit

**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.)
<b>Total pounds of VOCs removed from inception to December 2009 =</b>				<b>1435.30</b>
January 2010	1/5/2010 - 2/1/2010	1420	0.00	7.69
February 2010	2/1/2010 - 3/2/2010	992	3.90	5.55
March 2010				
April 2010				
May 2010				
June 2010				
July 2010				
August 2010				
September 2010				
October 2010				
November 2010				
December 2010				
<b>Total pounds of VOCs removed from inception to February 2010 =</b>				<b>1,448.54</b>
<b>Total pounds of VOCs removed in 2010 =</b>				<b>13.24</b>

**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:

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

**Attachment A**  
**IEG Weekly Inspection Reports**  
**February 2010**

**Including:**

2/1/10

2/8/10

2/18/10

2/22/10

3/2/10



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

DATE: <u>1-Feb-10</u>		ACTIVITIES: <u>Site Inspection</u>	
INSPECTION PERSONNEL: <u>R. Allen</u>		OTHER PERSONNEL: <u>-----</u>	
WEATHER CONDITIONS: <u>Cloudy, cold</u>		OUTSIDE TEMPERATURE (° F): <u>25</u>	
ARE WELL PUMPS OPERATING IN AUTO: YES: <input checked="" type="checkbox"/> NO: <input type="checkbox"/> If "NO", provide explanation below			
PROVIDE WATER LEVEL READINGS ON CONTROL PANEL			
RW-1	ON: <input type="checkbox"/>	OFF: <input checked="" type="checkbox"/> <u>7</u> ft	PW-5 ON: <input type="checkbox"/> OFF: <input checked="" type="checkbox"/> <u>7</u> ft
PW-2	ON: <input type="checkbox"/>	OFF: <input checked="" type="checkbox"/> <u>6</u> ft	PW-6 ON: <input checked="" type="checkbox"/> OFF: <input type="checkbox"/> <u>5</u> ft
PW-3	ON: <input type="checkbox"/>	OFF: <input checked="" type="checkbox"/> <u>4</u> ft	PW-7 ON: <input checked="" type="checkbox"/> OFF: <input type="checkbox"/> <u>4</u> ft
PW-4	ON: <input type="checkbox"/>	OFF: <input checked="" type="checkbox"/> <u>5</u> ft	PW-8 ON: <input type="checkbox"/> OFF: <input checked="" type="checkbox"/> <u>5</u> ft
EQUALIZATION TANK: <u>4</u> ft		Last Alarm D/T/Condition: <u>10/29/09 Air Stripper High Level</u>	
NOTES: _____			
INFLUENT FLOW RATE: <u>38</u> gpm		INFLUENT TOTALIZER READING: <u>5,385,766.0</u> gallons	
SEQUESTERING AGENT DRUM LEVEL: <u>23</u> inches		(x 1.7=) AMOUNT OF AGENT REMAINING: <u>39</u> gallons	
SEQUESTERING AGENT FEED RATE: <u>6.0</u> ml/min		METERING PUMP PRESSURE: <u>3.0</u> psi	
BAG FILTER PRESSURES:			
	Top	Bottom	Top
LEFT:	<u>0</u>	<u>0</u> psi	RIGHT: <u>6</u>
			Bottom <u>0</u> psi
INFLUENT FEED PUMP IN USE: #1 <input type="checkbox"/> #2 <input checked="" type="checkbox"/>		INFLUENT PUMP PRESSURE: <u>18</u> psi	
AIR STRIPPER BLOWER IN USE: #1 <input type="checkbox"/> #2 <input checked="" type="checkbox"/>		AIR STRIPPER PRESSURE: <u>40.0</u> in. H <sub>2</sub> O	
AIR STRIPPER DIFFERENTIAL PRESSURE: <u>0.015</u> in. H <sub>2</sub> O		DISCHARGE PRESSURE: <u>0.8</u> in. H <sub>2</sub> O	
EFFLUENT PUMP IN USE: #1 <input checked="" type="checkbox"/> #2 <input type="checkbox"/>		EFFLUENT FEED PUMP PRESSURE: <u>9.0</u> psi	
EFFLUENT FLOW RATE: <u>88</u> gpm		EFFLUENT TOTALIZER READING: <u>57,426,377</u> 684810 gallons	
ARE BUILDING HEATERS IN USE? YES: <input checked="" type="checkbox"/> NO: <input type="checkbox"/>		INSIDE TEMPERATURE (° F): <u>60</u>	
IS SUMP PUMP IN USE: YES: <input checked="" type="checkbox"/> NO: <input type="checkbox"/>		ARE ANY LEAKS PRESENT? YES: <input checked="" type="checkbox"/> NO: <input type="checkbox"/>	
WATER LEVEL IN SUMP: <u>6.0</u> in.		TREATMENT BUILDING CLEAN & ORGANIZED? YES: <input checked="" type="checkbox"/> NO: <input type="checkbox"/>	

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

1-Feb-10

SAMPLES COLLECTED? YES:  NO:

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

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

WERE MANHOLES INSPECTED? YES:  NO:

WERE ELECTRICAL BOXES INSPECTED? YES:  NO:

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

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

PZ-4C is damaged by snowplow. Most MWs and UEs are covered with ice or snow.

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

Remarks: Emptied (4) gals from Air Stripper exhaust pipe drip bucket.

Other Actions:

**AGWAY**

SYSTEM VACUUM: <u>-23</u> in. H <sub>2</sub> O				AIR PRESSURE: <u>105</u> psi					
SP-1:	<u>&gt; 10</u>	scfm	<u>4.0</u>	psi	SP-5:	<u>0.0</u>	scfm	<u>29.0</u>	psi
SP-2:	<u>0.0</u>	scfm	<u>18.0</u>	psi	SP-6:	<u>0.0</u>	scfm	<u>&gt; 30</u>	psi
SP-3:	<u>0.0</u>	scfm	<u>17.0</u>	psi	SP-7:	<u>0.0</u>	scfm	<u>&gt; 30</u>	psi
SP-4:	<u>0.0</u>	scfm	<u>17.5</u>	psi	SP-8:	<u>0.0</u>	scfm	<u>&gt; 30</u>	psi

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

Remarks:

Other Actions: Emptied (5) gals from SVE vacuum drum.

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

DATE: <u>8-Feb-10</u>		ACTIVITIES: <u>Site Inspection</u>									
INSPECTION PERSONNEL: <u>R. Allen</u>		OTHER PERSONNEL: _____									
WEATHER CONDITIONS: <u>Partly cloudy, cold</u>		OUTSIDE TEMPERATURE (°F): <u>20</u>									
ARE WELL PUMPS OPERATING IN AUTO: YES: <input checked="" type="checkbox"/> NO: _____ If "NO", provide explanation below <u>PW-5 was not shutting OFF. Turned switched OFF and let well fill up several times. Turned switch back ON and observed well shutting OFF when water level dropped to 2. Put switch back to AUTO.</u>											
PROVIDE WATER LEVEL READINGS ON CONTROL PANEL											
RW-1	ON: _____	OFF: <input checked="" type="checkbox"/> <u>5</u> ft	PW-5 ON: <input checked="" type="checkbox"/> OFF: _____ <u>3</u> ft								
PW-2	ON: _____	OFF: <input checked="" type="checkbox"/> <u>7</u> ft	PW-6 ON: _____ OFF: <input checked="" type="checkbox"/> <u>4</u> ft								
PW-3	ON: _____	OFF: <input checked="" type="checkbox"/> <u>5</u> ft	PW-7 ON: _____ OFF: <input checked="" type="checkbox"/> <u>6</u> ft								
PW-4	ON: _____	OFF: <input checked="" type="checkbox"/> <u>4</u> ft	PW-8 ON: _____ OFF: <input checked="" type="checkbox"/> <u>5</u> ft								
EQUALIZATION TANK: <u>4</u> ft		Last Alarm D/T/Condition: <u>10/29/09 Air Stripper High Level</u>									
NOTES: _____											
INFLUENT FLOW RATE: <u>24</u> gpm		INFLUENT TOTALIZER READING: <u>5,658,333.0</u> gallons									
SEQUESTERING AGENT DRUM LEVEL: <u>17</u> inches		(x 1.7=) AMOUNT OF AGENT REMAINING: <u>29</u> gallons									
SEQUESTERING AGENT FEED RATE: <u>5.0</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"><u>0</u></td><td style="text-align:center"><u>0</u></td></tr></table> psi		Top	Bottom	<u>0</u>	<u>0</u>	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"><u>6</u></td><td style="text-align:center"><u>0</u></td></tr></table> psi		Top	Bottom	<u>6</u>	<u>0</u>
Top	Bottom										
<u>0</u>	<u>0</u>										
Top	Bottom										
<u>6</u>	<u>0</u>										
INFLUENT FEED PUMP IN USE: #1 _____ #2 <input checked="" type="checkbox"/>		INFLUENT PUMP PRESSURE: <u>18</u> psi									
AIR STRIPPER BLOWER IN USE: #1 _____ #2 <input checked="" type="checkbox"/>		AIR STRIPPER PRESSURE: <u>41.0</u> in. H <sub>2</sub> O									
AIR STRIPPER DIFFERENTIAL PRESSURE: <u>0.025</u> in. H <sub>2</sub> O		DISCHARGE PRESSURE: <u>0.7</u> in. H <sub>2</sub> O									
EFFLUENT PUMP IN USE: #1 <input checked="" type="checkbox"/> #2 _____		EFFLUENT FEED PUMP PRESSURE: <u>7.5</u> psi									
EFFLUENT FLOW RATE: <u>89</u> gpm		EFFLUENT TOTALIZER READING: <u>57,596,734</u> 855830 gallons									
ARE BUILDING HEATERS IN USE? YES: <input checked="" type="checkbox"/> NO: _____		INSIDE TEMPERATURE (°F): <u>59</u>									
IS SUMP PUMP IN USE: YES: <input checked="" type="checkbox"/> NO: _____		ARE ANY LEAKS PRESENT? YES: <input checked="" type="checkbox"/> NO: _____									
WATER LEVEL IN SUMP: <u>7.0</u> in.		TREATMENT BUILDING CLEAN & ORGANIZED? YES: <input checked="" type="checkbox"/> NO: _____									

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

8-Feb-10

SAMPLES COLLECTED? YES: \_\_\_\_\_ NO:

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

IS THERE EVIDENCE OF TAMPERING/VANDALISM OF WELLS: ? YES: \_\_\_\_\_ NO:

WERE MANHOLES INSPECTED? YES:  NO: \_\_\_\_\_

WERE ELECTRICAL BOXES INSPECTED? YES:  NO: \_\_\_\_\_

IS WATER PRESENT IN ANY MANHOLES OR ELECTRICAL BOXES? YES: \_\_\_\_\_ NO:

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

PZ-4C is damaged from snowplow. Most MWs and UEs are covered with ice or snow. PW-4 inner ring is collapsing due to corrosion and the weight of traffic caving it in. Both PW-4 and PZ-4C were patched with asphalt. The cover of PW-4 can not be removed without removing some asphalt.

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

Remarks: Emptied (4) gals from Air Stripper Exhaust pipe drip bucket.

Other Actions:

**AGWAY**

SYSTEM VACUUM: <u>-23</u> in. H <sub>2</sub> O				AIR PRESSURE: <u>80</u> psi					
SP-1:	<u>10.0</u>	scfm	<u>4.0</u>	psi	SP-5:	<u>0.0</u>	scfm	<u>29.0</u>	psi
SP-2:	<u>0.0</u>	scfm	<u>9.0</u>	psi	SP-6:	<u>0.0</u>	scfm	<u>&gt; 30</u>	psi
SP-3:	<u>0.0</u>	scfm	<u>8.5</u>	psi	SP-7:	<u>0.0</u>	scfm	<u>&gt; 30</u>	psi
SP-4:	<u>0.0</u>	scfm	<u>9.0</u>	psi	SP-8:	<u>0.0</u>	scfm	<u>&gt; 30</u>	psi

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

Remarks:

Other Actions: Drained (4) galls from SVE vacuum drum.

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

DATE: <u>18-Feb-10</u>		ACTIVITIES: <u>Site Inspection</u>									
INSPECTION PERSONNEL: <u>R. Allen</u>		OTHER PERSONNEL: _____									
WEATHER CONDITIONS: <u>Cloudy, cold</u>		OUTSIDE TEMPERATURE (°F): <u>25</u>									
ARE WELL PUMPS OPERATING IN AUTO: YES: <input checked="" type="checkbox"/> NO: _____ If "NO", provide explanation below											
PROVIDE WATER LEVEL READINGS ON CONTROL PANEL											
RW-1	ON: _____	OFF: <input checked="" type="checkbox"/> <u>4</u> ft	PW-5 ON: _____ OFF: <input checked="" type="checkbox"/> <u>6</u> ft								
PW-2	ON: <input checked="" type="checkbox"/>	OFF: _____ <u>7</u> ft	PW-6 ON: _____ OFF: <input checked="" type="checkbox"/> <u>6</u> ft								
PW-3	ON: _____	OFF: <input checked="" type="checkbox"/> <u>5</u> ft	PW-7 ON: _____ OFF: <input checked="" type="checkbox"/> <u>7</u> ft								
PW-4	ON: _____	OFF: <input checked="" type="checkbox"/> <u>4</u> ft	PW-8 ON: _____ OFF: <input checked="" type="checkbox"/> <u>7</u> ft								
EQUALIZATION TANK: <u>4</u> ft		Last Alarm DTT/Condition: <u>10/29/09 Air Stripper High Level</u>									
NOTES: _____											
INFLUENT FLOW RATE: <u>31</u> gpm		INFLUENT TOTALIZER READING: <u>6,032,373.0</u> gallons									
SEQUESTERING AGENT DRUM LEVEL: <u>8</u> inches		(x 1.7=) AMOUNT OF AGENT REMAINING: <u>13.5</u> gallons									
SEQUESTERING AGENT FEED RATE: <u>5.0</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;">8</td><td style="text-align: center;">0</td></tr></table> psi		Top	Bottom	8	0
Top	Bottom										
0	0										
Top	Bottom										
8	0										
INFLUENT FEED PUMP IN USE: #1 _____ #2 <input checked="" type="checkbox"/>		INFLUENT PUMP PRESSURE: <u>18</u> psi									
AIR STRIPPER BLOWER IN USE: #1 _____ #2 <input checked="" type="checkbox"/>		AIR STRIPPER PRESSURE: <u>41.0</u> in. H <sub>2</sub> O									
AIR STRIPPER DIFFERENTIAL PRESSURE: <u>0.015</u> in. H <sub>2</sub> O		DISCHARGE PRESSURE: <u>0.1</u> in. H <sub>2</sub> O									
EFFLUENT PUMP IN USE: #1 <input checked="" type="checkbox"/> #2 _____		EFFLUENT FEED PUMP PRESSURE: <u>8.5</u> psi									
EFFLUENT FLOW RATE: <u>88</u> gpm		EFFLUENT TOTALIZER READING: <u>57,829,605</u> 89470 gallons									
ARE BUILDING HEATERS IN USE? YES: <input checked="" type="checkbox"/> NO: _____		INSIDE TEMPERATURE (°F): <u>61</u>									
IS SUMP PUMP IN USE: YES: <input checked="" type="checkbox"/> NO: _____		ARE ANY LEAKS PRESENT? YES: <input checked="" type="checkbox"/> NO: _____									
WATER LEVEL IN SUMP: <u>7.0</u> in.		TREATMENT BUILDING CLEAN & ORGANIZED? YES: <input checked="" type="checkbox"/> NO: _____									

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

18-Feb-10

SAMPLES COLLECTED? YES: \_\_\_\_\_ NO:   ✓  

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

IS THERE EVIDENCE OF TAMPERING/VANDALISM OF WELLS? YES: \_\_\_\_\_ NO:   ✓    
 WERE MANHOLES INSPECTED? YES:   ✓   NO: \_\_\_\_\_  
 WERE ELECTRICAL BOXES INSPECTED? YES:   ✓   NO: \_\_\_\_\_  
 IS WATER PRESENT IN ANY MANHOLES OR ELECTRICAL BOXES? YES: \_\_\_\_\_ NO:   ✓  

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

PZ-4C is damaged from snowplow. MWs and UEs are covered with snow or ice.

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

Remarks: Emptied (4) galls from Air Stripper exhaust drip bucket.

Other Actions: Emptied old Redux drum into present drum and rinsed empty drum. Have <1 drum.

**AGWAY**

SYSTEM VACUUM: <u>  -23  </u> in. H <sub>2</sub> O				AIR PRESSURE: <u>  95  </u> psi			
SP-1:	<u>  9.5  </u>	scfm	<u>  4.0  </u> psi	SP-5:	<u>  0.0  </u>	scfm	<u>  29.0  </u> psi
SP-2:	<u>  0.0  </u>	scfm	<u>  14.0  </u> psi	SP-6:	<u>  0.0  </u>	scfm	<u>  &gt; 30  </u> psi
SP-3:	<u>  0.0  </u>	scfm	<u>  13.5  </u> psi	SP-7:	<u>  0.0  </u>	scfm	<u>  &gt; 30  </u> psi
SP-4:	<u>  0.0  </u>	scfm	<u>  13.0  </u> psi	SP-8:	<u>  0.0  </u>	scfm	<u>  &gt; 30  </u> psi

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

Remarks: Emptied (4) galls from SVE vacuum drum.

Other Actions:

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

DATE: <u>22-Feb-10</u>		ACTIVITIES: <u>Site Inspection</u>	
INSPECTION PERSONNEL: <u>R. Allen</u>		OTHER PERSONNEL: _____	
WEATHER CONDITIONS: <u>Cloudy, cold</u>		OUTSIDE TEMPERATURE (°F): <u>32</u>	
ARE WELL PUMPS OPERATING IN AUTO: YES: <input checked="" type="checkbox"/> NO: _____ If "NO", provide explanation below			
PROVIDE WATER LEVEL READINGS ON CONTROL PANEL			
RW-1	ON: _____	OFF: <input checked="" type="checkbox"/> <u>11</u> ft	PW-5 ON: _____ OFF: <input checked="" type="checkbox"/> <u>5</u> ft
PW-2	ON: _____	OFF: <input checked="" type="checkbox"/> <u>7</u> ft	PW-6 ON: _____ OFF: <input checked="" type="checkbox"/> <u>4</u> ft
PW-3	ON: _____	OFF: <input checked="" type="checkbox"/> <u>7</u> ft	PW-7 ON: <input checked="" type="checkbox"/> OFF: _____ <u>5</u> ft
PW-4	ON: _____	OFF: <input checked="" type="checkbox"/> <u>4</u> ft	PW-8 ON: _____ OFF: <input checked="" type="checkbox"/> <u>6</u> ft
EQUALIZATION TANK: <u>4</u> ft		Last Alarm D/T/Condition: <u>10/29/09 Air Stripper High Level</u>	
NOTES: _____			
INFLUENT FLOW RATE: <u>2</u> gpm		INFLUENT TOTALIZER READING: <u>6,173,621.0</u> gallons	
SEQUESTERING AGENT DRUM LEVEL: <u>8</u> inches		(x 1.7=) AMOUNT OF AGENT REMAINING: <u>14</u> gallons	
SEQUESTERING AGENT FEED RATE: <u>6.0</u> ml/min		METERING PUMP PRESSURE: <u>3.0</u> psi	
BAG FILTER PRESSURES:			
	LEFT:	Top Bottom <u>0</u>   <u>0</u> psi	RIGHT: Top Bottom <u>8</u>   <u>0</u> psi
INFLUENT FEED PUMP IN USE: #1 _____ #2 <input checked="" type="checkbox"/>		INFLUENT PUMP PRESSURE: <u>18</u> psi	
AIR STRIPPER BLOWER IN USE: #1 _____ #2 <input checked="" type="checkbox"/>		AIR STRIPPER PRESSURE: <u>41.0</u> in. H <sub>2</sub> O	
AIR STRIPPER DIFFERENTIAL PRESSURE: <u>0.015</u> in. H <sub>2</sub> O		DISCHARGE PRESSURE: <u>0.6</u> in. H <sub>2</sub> O	
EFFLUENT PUMP IN USE: #1 <input checked="" type="checkbox"/> #2 _____		EFFLUENT FEED PUMP PRESSURE: <u>7.0</u> psi	
EFFLUENT FLOW RATE: <u>88</u> gpm		EFFLUENT TOTALIZER READING: <u>57,917,184</u>   <u>177150</u> gallons	
ARE BUILDING HEATERS IN USE? YES: <input checked="" type="checkbox"/> NO: _____		INSIDE TEMPERATURE (°F): <u>62</u>	
IS SUMP PUMP IN USE: YES: <input checked="" type="checkbox"/> NO: _____		ARE ANY LEAKS PRESENT? YES: <input checked="" type="checkbox"/> NO: _____	
WATER LEVEL IN SUMP: <u>7.0</u> in.		TREATMENT BUILDING CLEAN & ORGANIZED? YES: <input checked="" type="checkbox"/> NO: _____	

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

22-Feb-10

SAMPLES COLLECTED? YES: \_\_\_\_\_ NO: √

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

IS THERE EVIDENCE OF TAMPERING/VANDALISM OF WELLS: ? YES: \_\_\_\_\_ NO: √

WERE MANHOLES INSPECTED? YES: √ NO: \_\_\_\_\_

WERE ELECTRICAL BOXES INSPECTED? YES: √ NO: \_\_\_\_\_

IS WATER PRESENT IN ANY MANHOLES OR ELECTRICAL BOXES? YES: √ NO: \_\_\_\_\_

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

PZ-4C is damaged by snowplow. Most MWs and UEs are covered by ice or snow.

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

Remarks: \_\_\_\_\_

Other Actions: Change bag filters.

**AGWAY**

SYSTEM VACUUM: <u>-23</u> in. H <sub>2</sub> O				AIR PRESSURE: <u>100</u> psi			
SP-1:	<u>10.0</u>	scfm	<u>4.0</u> psi	SP-5:	<u>0.0</u>	scfm	<u>28.5</u> psi
SP-2:	<u>0.0</u>	scfm	<u>7.5</u> psi	SP-6:	<u>0.0</u>	scfm	<u>&gt; 30</u> psi
SP-3:	<u>0.0</u>	scfm	<u>7.0</u> psi	SP-7:	<u>0.0</u>	scfm	<u>&gt; 30</u> psi
SP-4:	<u>0.0</u>	scfm	<u>7.5</u> psi	SP-8:	<u>0.0</u>	scfm	<u>&gt; 30</u> psi

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

Remarks: Drained (2) gallons from SVE vacuum drum.

Other Actions: \_\_\_\_\_



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

DATE: <u>2-Mar-10</u>		ACTIVITIES: <u>Site Inspection</u>	
INSPECTION PERSONNEL: <u>R. Allen</u>		OTHER PERSONNEL: _____	
WEATHER CONDITIONS: <u>Cloudy, cold</u>		OUTSIDE TEMPERATURE (°F): <u>35</u>	
ARE WELL PUMPS OPERATING IN AUTO: YES: <input checked="" type="checkbox"/> NO: _____ If "NO", provide explanation below			
PROVIDE WATER LEVEL READINGS ON CONTROL PANEL			
RW-1	ON: <input checked="" type="checkbox"/>	OFF: <u>11</u> ft	PW-5 ON: _____ OFF: <input checked="" type="checkbox"/> <u>4</u> ft
PW-2	ON: _____	OFF: <input checked="" type="checkbox"/> <u>5</u> ft	PW-6 ON: _____ OFF: <input checked="" type="checkbox"/> <u>7</u> ft
PW-3	ON: _____	OFF: <input checked="" type="checkbox"/> <u>7</u> ft	PW-7 ON: <input checked="" type="checkbox"/> OFF: _____ <u>7</u> ft
PW-4	ON: <input checked="" type="checkbox"/>	OFF: _____ <u>7</u> ft	PW-8 ON: <input checked="" type="checkbox"/> OFF: _____ <u>5</u> ft
EQUALIZATION TANK: <u>4</u> ft		Last Alarm D/T/Condition: <u>2/22/10 Air Stripper Low Air Pressure</u>	
NOTES: _____			
INFLUENT FLOW RATE: <u>13</u> gpm		INFLUENT TOTALIZER READING: <u>6,467,616.0</u> gallons	
SEQUESTERING AGENT DRUM LEVEL: <u>1</u> inches		(x 1.7=) AMOUNT OF AGENT REMAINING: <u>2</u> gallons	
SEQUESTERING AGENT FEED RATE: <u>5.0</u> ml/min		METERING PUMP PRESSURE: <u>3.0</u> psi	
BAG FILTER PRESSURES:			
	Top	Bottom	Top
LEFT:	<u>26</u>	<u>0</u> psi	RIGHT: <u>25</u>   <u>0</u> psi
INFLUENT FEED PUMP IN USE: #1 _____ #2 <input checked="" type="checkbox"/>		INFLUENT PUMP PRESSURE: <u>18</u> psi	
AIR STRIPPER BLOWER IN USE: #1 _____ #2 <input checked="" type="checkbox"/>		AIR STRIPPER PRESSURE: <u>41.0</u> in. H <sub>2</sub> O	
AIR STRIPPER DIFFERENTIAL PRESSURE: <u>0.013</u> in. H <sub>2</sub> O		DISCHARGE PRESSURE: <u>0.1</u> in. H <sub>2</sub> O	
EFFLUENT PUMP IN USE: #1 <input checked="" type="checkbox"/> #2 _____		EFFLUENT FEED PUMP PRESSURE: <u>7.0</u> psi	
EFFLUENT FLOW RATE: <u>90</u> gpm		EFFLUENT TOTALIZER READING: <u>58,099,064</u>   <u>360730</u> gallons	
ARE BUILDING HEATERS IN USE? YES: <input checked="" type="checkbox"/> NO: _____		INSIDE TEMPERATURE (°F): <u>65</u>	
IS SUMP PUMP IN USE: YES: <input checked="" type="checkbox"/> NO: _____		ARE ANY LEAKS PRESENT? YES: <input checked="" type="checkbox"/> NO: _____	
WATER LEVEL IN SUMP: <u>7.0</u> in.		TREATMENT BUILDING CLEAN & ORGANIZED? YES: <input checked="" type="checkbox"/> NO: _____	

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

2-Mar-10

SAMPLES COLLECTED? YES: \_\_\_\_\_ NO: ✓

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

IS THERE EVIDENCE OF TAMPERING/VANDALISM OF WELLS? YES: \_\_\_\_\_ NO: ✓  
 WERE MANHOLES INSPECTED? YES: ✓ NO: \_\_\_\_\_  
 WERE ELECTRICAL BOXES INSPECTED? YES: ✓ NO: \_\_\_\_\_  
 IS WATER PRESENT IN ANY MANHOLES OR ELECTRICAL BOXES? YES: \_\_\_\_\_ NO: ✓

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

PZ-4C is damaged from snowplow. Most MWs and UEs are covered with ice or snow.

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

Remarks: Switched Redux pickup to new drum. Have (3) full drums.

Other Actions: Shoveled plowed up snow away from Treatment Room doors.

Emptied (3) galls from Air Stripper exhaust drip bucket.

**AGWAY**

SYSTEM VACUUM: <u>-23</u> in. H <sub>2</sub> O				AIR PRESSURE: <u>80</u> psi					
SP-1:	<u>6.0</u>	scfm	<u>4.5</u>	psi	SP-5:	<u>0.0</u>	scfm	<u>28.5</u>	psi
SP-2:	<u>0.0</u>	scfm	<u>28.0</u>	psi	SP-6:	<u>1.2</u>	scfm	<u>&gt; 30</u>	psi
SP-3:	<u>0.0</u>	scfm	<u>28.5</u>	psi	SP-7:	<u>0.0</u>	scfm	<u>&gt; 30</u>	psi
SP-4:	<u>0.0</u>	scfm	<u>30.0</u>	psi	SP-8:	<u>0.0</u>	scfm	<u>&gt; 30</u>	psi

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

Remarks:

Other Actions: Emptied (2) galls from SVE vacuum drum.

# Mr. C's CLEANERS OM&M

## STATUS OF OM&M ACTIVITIES BY IEG

as of 02/28/10

ACTIVITY	DESCRIPTION	COMPLETION DATE/STATUS
Repair PZ-2B	The MW ring and concrete cap have been pushed down by heavy equipment until the metal top cover is in contact with the riser cap. Adjust piezometer parts.	Oct-09
Repair Effluent Pipe Vacuum Release	Effluent Vent Vacuum Release leaks. Replaced with new vent valve and cut vent pipe shorter to reduce motion when pump turns ON.	Oct-09
Measure Backflow in Treatment Room	Get Aaron Bender Plumbing to measure backflow in Treatment Room.	Oct-09
Do MW Damage Report	E & E, Inc has requested a damage report for all the MWs that are in the Monthly Piezometer Water Level Log. Inspect the MWs.	Nov-09
Repair Redux Line	The "T" fitting that joins the pickup line and measuring guage line to the Jesco pump has corroded apart. Replace "T" fitting and hose clamps.	Nov-09
Replace SVE Vacuum Drum	Present Vacuum Drum inside Agway Shed is corroded. Replace drum.	To be ordered
AS / SVE System Evaluation	Agway Shed - test and evaluate air sparge system and Soil Vapor Extraction system. Installed fittings to measure pressure and flow. Tested air sparging and SVE lines.	in progress
Service Compressor	Champion Machinery reveals the compressor is a 1992 model. Compressor pump should be serviced which includes a valve kit. The belts should also be adjusted.	in progress
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
Install MW Ring	Piezimeter in Agway Site parking lot was damaged by the road repair crew. To instal new Monitoring Well Ring around damaged Piezometer for protection.	in progress
Rebuild Automatic Tank Drain Valve (ATDV)	Factory recommends rebuilding the ATDV on a compressor of this age. Order rebuild kit and repair. Have purchased rebuild kit.	in progress
Rebuild JAC Pump as needed	Jesco America Corp recommends rebuilding the Redux pump when needed. Purchased rebuild kit.	in progress
RW-1 Replace Motor Starter	RW-1 motor starter developed problem and had to be rewired. Should get a spare motor starter in anticipation of further problems.	in progress
Repair PZ-4C	PZ-4C was damaged by a Town of Aurora snowplow. Top of inner ring and top cover were broken. Talked to Town and they placed a temporary cover inside the well to reduce the pedestrian tripping hazard. Ring and top cover should be replaced. If well is not to be used - cover with concrete or asphalt cap.	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
Purge PW-5	Inspect, purge well, clean pump, plastic pipe and transducer. Trouble shoot problems.	in progress
Blower Motor / Fan #1 and #2 - obtain information	Record information on Air Stripper Blower Motors / Fans #1 and #2 in the Treatment Room. Obtain further information from the manufacturer.	Jan-10
SVE System Blower Motor/Fan - obtain info	Record information on Agway Shed SVE blower motor. Obtain further information from the manufacturer.	Jan-10
Add ball valves to Bag Filter Housing drain pipes	When changing bag filters, the housings must be drained. The drain pipe ball valves are near the housings and cannot be reached from the end of the pipes where the water is collected. Add ball valves near the ends of the drain pipes to ease the bag filter changing process.	in progress

# Mr. C's CLEANERS OM&M

## SUMMARY OF FIELD ACTIVITIES BY IEG - 2/2010

DATE	ACTIVITY
1-Feb	OM&M Weekly Inspection and sampling. UM office work.
3-Feb	End of month summary.
8-Feb	OM&M Weekly Inspection.
17-Feb	OM&M Weekly Inspection and office work.
18-Feb	OM&M Weekly Inspection.
22-Feb	OM&M Weekly Inspection. Changed bag filters.
23-Feb	Receive Redux delivery

# Mr. C's CLEANERS OM&M

## SUMMARY OF WATER PUMP MAINTENANCE BY IEG

as of Feb 10

ID	CLEAN & INSPECT PUMP	REPLACE PUMP	REPAIR PUMP	PIPE & PITLESS ADAPTER	CLEAN & INSPECT TRANSDUCER	REPLACE TRANSDUCER	REPAIR TRANSDUCER	PUMP OUT WELL	CLEAN OUT & INSPECT ELECTRICAL BOX	ELECTRICAL BOX REPAIR
RW - 1		Feb-08								
PW - 2	Aug 09	Jul-08			Aug-10	Sep-09		Aug-10		Sep-09
PW - 3	Aug-10	Jul-08		Repair adapter	Aug-10			Aug-10		
PW - 4	Sep 09	Dec-07						Jul 09, Sep 09	Sep-09	Sep-10
PW - 5		Jul-08			Sep-10		Sep-09			
PW - 6	Jul-10	Jun 08, Jul 09		Replace pipe 8/09	Apr 09, Aug 09	Sep-09		Aug-10	Aug 09, Sep 09	Jul 09, Sep 09
PW - 7	Jul-10	Nov 07, Jul 09		Replace pipe 8/09	Aug-10			Aug-10		
PW - 8	Aug 09	Jul 08, Sep 09		Replace pipe 8/09	Aug-10			Aug-10		

**Attachment B**  
**Analytical Report from**  
**Mitkem Laboratories**

**Analytical Data Package Work Order ID: J0188**  
**Sampled: February 1, 2010**

Analytical Data Package for Ecology & Environment Engineering, P.C. (EEEEPC)

Client Project No.: Mr. C's Dry Cleaners Site (Compliance)

Mitkem Work Order ID: J0188

February 22, 2010

Prepared For: Ecology & Environment Engineering P.C.  
368 Pleasantview Drive  
Lancaster, NY 14086  
Attn: Mr. Michael Steffan

Prepared By: Mitkem Laboratories  
175 Metro Center Boulevard  
Warwick, RI 02886  
(401) 732-3400

## SDG Narrative

Mitkem Laboratories submits the enclosed data package in response to Ecology & Environment, Inc's Mr. C's Dry Cleaners (Compliance) project. Under this deliverable, analyses results are presented for two aqueous samples that were received on February 2, 2010. Analyses were performed per specifications in the project's contract and the chain of custody form. Following the narrative is the Mitkem Work Order for cross-referencing client sample ID and laboratory sample ID.

The analyses were performed according to NYSDEC ASP protocols (2000 update) and reported per NYSDEC ASP requirement for Category A deliverable with the exception of hardness and pH. The analysis results for hardness and pH are presented in the standard Mitkem format.

The following observation and/or deviations are observed for the following analyses:

### 1. Overall observation:

The enclosed report includes the originals of all data with the exception of logbook pages and certain initial calibrations. Photocopies of logbook pages are included, with the originals maintained on file at the laboratory. The originals of initial calibrations that are shared among several cases are maintained on file at the laboratory, with photocopies included in the data package.

### 2. Volatile Analysis:

To meet specific project requirements, a 1ppb standard was analyzed in the initial calibration to achieve a lower reporting limit. All the target analytes, with the exception of the ketones have been reported to 1ppb. The ketones have been reported to 5 ppb.

Trap used for instruments V2: OI Analytical #10 trap containing 8 cm each of Tenax, silica gel and carbon molecular sieve.

GC column used: 30 m x 0.25 mm id (1.4 um film thickness) DB-624 capillary column.

Aqueous samples were hydrochloric acid preserved, pH <2.

Surrogate recovery: recoveries were within the QC limits.

Laboratory control sample: spike recoveries were within the QC limits.



Sample analysis: due to high concentration of tetrachloroethene, sample INFLUENT was analyzed at 10x dilution. No other unusual observation was made for this analysis.

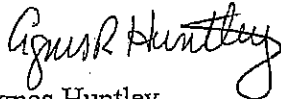
2. Wet Chemistry Analyses:

Duplicate analysis: duplicate analysis was performed on sample EFFLUENT for pH. Replicate RPD was within the QC limits.

Sample analysis: no unusual observation was made for the analysis.

All pages in this report have been numbered consecutively, starting with the title page and ending with a page saying only "Last Page of Data Report".

I certify that this data package is in compliance, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.



Agnes Huntley  
CLP Project Manager  
02/22/10

**WorkOrder: J0188**

**02/22/2010 11:01**

**Mitkem Laboratories**

Client ID: ENE

Project: Mr. C's Dry Cleaning

WO Name: Mr. C's Dry Cleaning

Location: MR\_C\_COMPLIANCE, 002700.DC13.02.01.01

Comments: 1 ppb ICAL for VOA. Run Influent sample by 10 X dilution, low result in effluent expected. report thru LIMS.

Case: HC Due: 02/19/10

Report Level: ASP-A

SDG: Fax Due:

Special Program:

Fax Report:

EDD: ENE

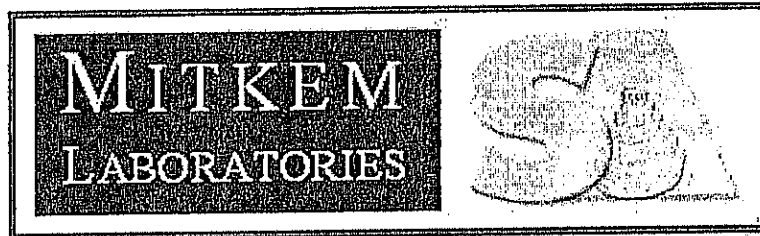
PO: 002700.DC13.02.01.01

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
J0188-01A	INFLUENT	02/01/2010 16:30	02/02/2010	Aqueous	SW8260_W	/ OLM_VOA, 1 ppb ICAL				Y	VOA
J0188-01B	INFLUENT	02/01/2010 16:30	02/02/2010	Aqueous	SM4500_H+	/					D4
J0188-01C	INFLUENT	02/01/2010 16:30	02/02/2010	Aqueous	SM2340_W	/					M1
J0188-02A	EFFLUENT	02/01/2010 16:30	02/02/2010	Aqueous	SW8260_W	/ OLM_VOA, 1 ppb ICAL				Y	VOA
J0188-02B	EFFLUENT	02/01/2010 16:30	02/02/2010	Aqueous	SM4500_H+	/					D4
J0188-02C	EFFLUENT	02/01/2010 16:30	02/02/2010	Aqueous	SM2340_W	/					M1

1004

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold



\* Volatiles \*

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

CLIENT SAMPLE NO.

INFLUENT

Lab Name: MITKEM LABORATORIES Contract: \_\_\_\_\_  
 Lab Code: MITKEM Case No.: J0188 Mod. Ref No.: \_\_\_\_\_ SDG No.: SJ0188  
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J0188-01A  
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V110994.D  
 Level: (TRACE/LOW/MED) LOW Date Received: 02/02/2010  
 % Moisture: not dec. Date Analyzed: 02/10/2010  
 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)	µg/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	7.2	J
75-34-3	1,1-Dichloroethane	10	U
78-93-3	2-Butanone	50	U
156-59-2	cis-1,2-Dichloroethene	21	
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	44	
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	920	
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: MITKEM LABORATORIES Contract: \_\_\_\_\_  
 Lab Code: MITKEM Case No.: J0188 Mod. Ref No.: \_\_\_\_\_ SDG No.: SJ0188  
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J0188-01A  
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1L0994.D  
 Level: (TRACE/LOW/MED) LOW Date Received: 02/02/2010  
 % Moisture: not dec. Date Analyzed: 02/10/2010  
 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)	µg/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

CLIENT SAMPLE NO.

EFFLUENT

Lab Name: MITKEM LABORATORIES Contract: \_\_\_\_\_  
 Lab Code: MITKEM Case No.: J0188 Mod. Ref No.: \_\_\_\_\_ SDG No.: SJ0188  
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J0188-02A  
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1L0993.D  
 Level: (TRACE/LOW/MED) LOW Date Received: 02/02/2010  
 % Moisture: not dec. Date Analyzed: 02/10/2010  
 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)	µg/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		1.3
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		2.6
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

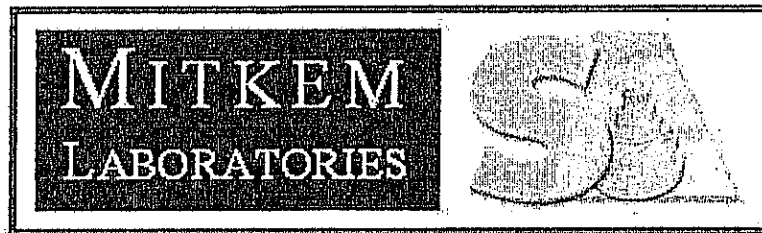
1B - FORM I VOA-2  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EFFLUENT

Lab Name: MITKEM LABORATORIES Contract: \_\_\_\_\_  
 Lab Code: MITKEM Case No.: J0188 Mod. Ref No.: \_\_\_\_\_ SDG No.: SJ0188  
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J0188-02A  
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1L0993.D  
 Level: (TRACE/LOW/MED) LOW Date Received: 02/02/2010  
 % Moisture: not dec. Date Analyzed: 02/10/2010  
 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)	µG/L	
100-42-5	Styrene		1.0	U
75-25-2	Bromoform		1.0	U
98-82-8	Isopropylbenzene		1.0	U
79-34-5	1,1,2,2-Tetrachloroethane		1.0	U
541-73-1	1,3-Dichlorobenzene		1.0	U
106-46-7	1,4-Dichlorobenzene		1.0	U
95-50-1	1,2-Dichlorobenzene		1.0	U
96-12-8	1,2-Dibromo-3-chloropropane		1.0	U
120-82-1	1,2,4-Trichlorobenzene		1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		1.0	U
110-82-7	Cyclohexane		1.0	U
79-20-9	Methyl acetate		1.0	U
108-87-2	Methylcyclohexane		1.0	U



\* Wet Chemistry \*



Mitkem Laboratories

Date: 17-Feb-10

Client: Ecology and Environment Engineering P.C.  
Client Sample ID: INFLUENT  
Lab ID: J0188-01

Project: Mr. C's Dry Cleaning  
Collection Date: 02/01/10 16:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 2340 -- HARDNESS by Calculation							SM2340_W
Hardness, Ca/Mg (As CaCO3)	540		4.0	mg/L CaCO3		102/16/2010 7:25	49217
SM 4500 pH -- pH VALUE							SM4500_H+
pH	6.8		1.0	S.U.		102/02/2010 14:45	R45638

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

**Mitkem Laboratories**

Date: 17-Feb-10

Client: Ecology and Environment Engineering P.C.  
Client Sample ID: EFFLUENT  
Lab ID: J0188-02

Project: Mr. C's Dry Cleaning  
Collection Date: 02/01/10 16:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 2340 -- HARDNESS by Calculation							SM2340_W
Hardness, Ca/Mg (As CaCO <sub>3</sub> )	530		4.0	mg/L CaCO <sub>3</sub>		102/16/2010 7:28	49217
SM 4500 pH -- pH VALUE							SM4500_H+
pH	7.9		1.0	S.U.		102/02/2010 14:50	R45638

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

0023

**Attachment C**

**Summary of Site Utility Costs and Projections  
January to December 2010**



Mr. C's Dry Cleaners Site - Remedial Treatment Utility Cost		Budget Remaining:		Electric:	\$25,127.44	ATTACHMENT C
NYSDEC Work Assignment #DC13				Telephone:	\$540.00	
12 Months of System Operation and Maintenance				Gas	\$436.32	
February 2010 Report				Total:	\$26,103.76	
January-10	648	100.00%	Capacity	Comments:		
February-10	696	100.00%	21.4%	Cold January		
March-10		#DIV/0!	20.7%	Cold February		
April-10		#DIV/0!				
May-10		#DIV/0!				
June-10		#DIV/0!				
July-10		#DIV/0!				
August-10		#DIV/0!				
September-10		#DIV/0!				
October-10		#DIV/0!				
November-10		#DIV/0!				
December-10		#DIV/0!				
Totals to Date	1344	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						Total Gallons
Mr. C's Electric	\$	672.56				861376
Agway Electric	\$	-				
Mr. C's Gas	\$	141.84				
Mr. C's Telephone	\$	-				
Ave. Utility Cost Total	\$	814.40	12 month Estimate			