



# ecology and environment engineering, p.c.

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BUFFALO CORPORATE CENTER  
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Tel: 716/684-8060, Fax: 716/684-0844

October 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  
September 2010 Operations, Maintenance, and Monitoring Report

Dear Mr. Welling:

Ecology and Environment Engineering, P.C. (EEEPC) is pleased to provide the September 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. (MLI) on September 17, 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 September 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 9/7, 9/13, 9/21, and 9/28.
- Based on the weekly inspection results performed by IEG, the remedial treatment system had a 100.00% operational up-time (Table 1) for September 2010 and the treatment of contaminated groundwater totaling of 297,308 gallons (Table 2).
- The analytical samples for the monthly compliance were taken on September 13, 2010. The sampling results were received by EEEPC on September 17, 2010.
- Excerpts from the Analytical Data package for the August 10, 2010 sampling event are presented in Attachment B.
- A review of the analytical data revealed the influent concentration to be 913.9 ug/L or 913.9 ppb, and 1.3 ug/L or 1.3 ppb of treated effluent. The summary of influent and effluent contaminant concentrations for the September 13, 2010 sampling event is presented in Table 4.

**Mr. William Welling PE, Project Manager**  
**October 8, 2010**  
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- Overall cleanup efficiency for the contaminants of concern at the site during the reporting period 9/7/10 to 9/28/10 was 99.86%. The air stripper unit on the Mr. C's property is in compliance and MLI 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 September 2010 is presented in Table 3.
- The Mr. C's treatment system based on the total monthly flows has effectively removed 2.26 lbs of targeted contaminants from the groundwater below the site in the month of September 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 is in compliance and analytical data is provided to sub-ppb accuracy, supporting the accurate determination of effluent contaminant levels. IEG took corrective action to teardown and clean the individual trays of the air stripper unit on October 6<sup>th</sup> and 7<sup>th</sup>, 2010. IEG plans to examine the effluent pipe for buildup that will also be cleaned if present. After cleaning and repair another sampling event is planned for October.

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

- No current operational issues.

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

If you have questions regarding the September 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  
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%
March 2, 2010 - March 30, 2010	672	100.00%
March 30, 2010 - April 27, 2010	672	100.00%
April 27, 2010 - June 2, 2010	816	94.44%
June 2, 2010 - July 6, 2010	816	100.00%
July 6, 2010 - August 4, 2010	696	100.00%
August 4, 2010 - September 7, 2010	816	100.00%
September 7, 2010 - September 28, 2010	504	100.00%
October 2010		
November 2010		
December 2010		
<b>Total Hours from System Startup '2/02'</b>	<b>68,328.50</b>	
<b>Average Operational Up-time from startup =</b>		<b>96.28%</b>
<b>Average Operational Up-time for 2010 =</b>		<b>99.25%</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
<b>Total - Inception to December 2009</b>	<b>9/5/02 - 1/5/10</b>	<b>109,009,157</b>
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>	3/2/10 - 3/30/10	491,152
April 2010 <sup>3</sup>	3/30/10 - 4/27/10	228,188
May 2010 <sup>3</sup>	4/27/10 - 6/2/2010	322,174
June 2010 <sup>3</sup>	6/2/10 - 7/6/10	268,627
July 2010 <sup>3</sup>	7/6/10 - 8/4/10	450,503
August 2010 <sup>3</sup>	8/4/10 - 9/7/10	503,999
September 2010 <sup>3</sup>	9/7/10 - 9/28/10	297,308
October 2010 <sup>3</sup>		
November 2010 <sup>3</sup>		
December 2010 <sup>3</sup>		
<b>Total Gallons Treated in 2010</b>		<b>3,883,490</b>
<b>Total Gallons Treated To Date:</b>		<b>112,892,647</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	Units	September 2010 Effluent Analytical Values
Flow	6.0 - 9.0	gpd	14,157.52
pH		standard units	8.10
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	1.3
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	ND(<1.0)
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>2</sup>
Aluminum	4,000	µg/L	NA <sup>2</sup>
Copper	7.8	µg/L	NA <sup>2</sup>
Lead	14	µg/L	NA <sup>2</sup>
Manganese	2,000	µg/L	NA <sup>2</sup>
Silver	100	µg/L	NA <sup>2</sup>
Vanadium	28	µg/L	NA <sup>2</sup>
Zinc	250	µg/L	NA <sup>2</sup>
Total Dissolved Solids	850	mg/L	NA <sup>2</sup>
Total Suspended Solids	20	mg/L	NA <sup>2</sup>
Hardness	N/A	meq/l	490
Cyanide Free	10	µg/L	NA <sup>2</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 September 7, 2010 through September 28, 2010. Total gallons: 297,308 divided by 21 operating days (504 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.

**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**  
**September 2010 VOC Analytical Summary**

Compound	Based on the 9/13/10 Effluent Sampling Results			Cleanup Efficiency**	
	Influent Concentration* (ug/L)		Effluent Concentration* (ug/L)		
Acetone	ND (<50.0)	U	ND (<5.0)	U	NA
Benzene	ND (<10.0)	U	ND (<1.0)	U	NA
2-Butanone	ND (<50.0)	U	ND (<5.0)	U	NA
cis-1, 2-Dichloroethene	20.0		ND (<1.0)	U	100.00%
Methylene chloride	ND (<10.0)	U	ND (<1.0)	U	NA
Methyl tert-butyl ether (MTBE)	8.9	J	ND (<1.0)	U	100.00%
Tetrachloroethene	840.0		1.3		99.85%
Toluene	ND (<10.0)	U	ND (<1.0)	U	NA
Trichloroethene	45.0		ND (<1.0)	U	100.00%
Carbon Disulfide	ND (<10.0)	U	ND (<1.0)	U	NA
1,1,2 Trichloro-1,2,2-trifluoroethane	ND (<10.0)	U	ND (<1.0)	U	NA
Cyclohexane	ND (<10.0)	U	ND (<1.0)	U	NA
trans-1,2-dichloroethene	ND (<10.0)	U	ND (<1.0)	U	NA
Methylcyclohexane	ND (<10.0)	U	ND (<1.0)	U	NA
Methyl acetate	ND (<10.0)	U	ND (<1.0)	U	NA
Total Xylenes	ND (<10.0)	U	ND (<1.0)	U	NA
<b>September 2010 TOTALS (in ug/L) =</b>	<b>913.9</b>		<b>1.30</b>		<b>99.86%</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  
 \*\* 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.)
<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	3/2/2010 - 3/30/2010	1098	26.80	4.39
April 2010	3/30/2010 - 4/27/2010	1547	7.20	2.93
May 2010	4/27/2010 - 6/2/2010	434	0.00	1.17
June 2010	6/2/2010 - 7/6/2010	1530	0.73	3.43
July 2010	7/6/2010 - 8/4/2010	865	3.10	3.24
August 2010	8/4/2010 - 9/7/2010	858	129.90	3.06
September 2010	9/7/2010 - 9/28/2010	914	1.30	2.26
October 2010				
November 2010				
December 2010				
<b>Total pounds of VOCs removed from inception to September 2010 =</b>				<b>1,469.02</b>
<b>Total pounds of VOCs removed in 2010 =</b>				<b>33.72</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**  
**September 2010**

**Including:**

9/7/10

9/13/10

9/21/10

9/28/10



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

DATE: <u>7-Sep-10</u>		ACTIVITIES: <u>Site Inspection</u>	
INSPECTION PERSONNEL: <u>R. Allen, D. Iyer</u>		OTHER PERSONNEL: _____	
WEATHER CONDITIONS: <u>Sunny, hot</u>		OUTSIDE TEMPERATURE (° F): <u>85</u>	
ARE WELL PUMPS OPERATING IN AUTO: YES: <input checked="" type="checkbox"/> NO: _____ If "NO", provide explanation below			
<u>PW-7 remains ON at a steady level 11.</u>			
PROVIDE WATER LEVEL READINGS ON CONTROL PANEL			
RW-1	ON: <input checked="" type="checkbox"/>	OFF: <u>7</u> ft	PW-5 ON: _____ OFF: <input checked="" type="checkbox"/> <u>6</u> ft
PW-2	ON: _____	OFF: <input checked="" type="checkbox"/> <u>5</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: <input checked="" type="checkbox"/> OFF: _____ <u>11</u> ft
PW-4	ON: _____	OFF: <input checked="" type="checkbox"/> <u>6</u> ft	PW-8 ON: <input checked="" type="checkbox"/> OFF: _____ <u>4</u> ft
EQUALIZATION TANK: <u>4</u> ft		Last Alarm D/T/Condition: <u>8/30/10 Air Stripper Low Air Pressure</u>	
NOTES: _____			
INFLUENT FLOW RATE: <u>35</u> gpm		INFLUENT TOTALIZER READING: <u>181,930.0</u> gallons	
SEQUESTERING AGENT DRUM LEVEL: <u>28</u> inches		(x 1.7=) AMOUNT OF AGENT REMAINING: <u>47.5</u> gallons	
SEQUESTERING AGENT FEED RATE: <u>5.0</u> ml/min		METERING PUMP PRESSURE: <u>3.0</u> psi	
BAG FILTER PRESSURES:			
	LEFT:	Top Bottom <u>0</u>   <u>0</u> psi	RIGHT: Top Bottom <u>20</u>   <u>0</u> psi
INFLUENT FEED PUMP IN USE: #1 <input checked="" type="checkbox"/> #2 _____		INFLUENT PUMP PRESSURE: <u>14</u> psi	
AIR STRIPPER BLOWER IN USE: #1 _____ #2 <input checked="" type="checkbox"/>		AIR STRIPPER PRESSURE: <u>38.0</u> in. H <sub>2</sub> O	
AIR STRIPPER DIFFERENTIAL PRESSURE: <u>0.02</u> in. H <sub>2</sub> O		DISCHARGE PRESSURE: <u>0.4</u> in. H <sub>2</sub> O	
EFFLUENT PUMP IN USE: #1 _____ #2 <input checked="" type="checkbox"/>		EFFLUENT FEED PUMP PRESSURE: <u>7.0</u> psi	
EFFLUENT FLOW RATE: <u>110</u> gpm		EFFLUENT TOTALIZER READING: <u>60,363,703</u> 838300 gallons	
ARE BUILDING HEATERS IN USE? YES: _____ NO: <input checked="" type="checkbox"/>		INSIDE TEMPERATURE (° F): _____	
IS SUMP PUMP IN USE: YES: <input checked="" type="checkbox"/> NO: _____		ARE ANY LEAKS PRESENT? YES: _____ NO: <input checked="" type="checkbox"/>	
WATER LEVEL IN SUMP: <u>6.0</u> in.		TREATMENT BUILDING CLEAN & ORGANIZED? YES: <input checked="" type="checkbox"/> NO: _____	

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

7-Sep-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:

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

Remarks: Increased Jesco pump slightly to: Left 2.1; Right 1.2.

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Other Actions: Cleaned Air Stripper through access ports.

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**AGWAY**

SYSTEM VACUUM: <u>-21</u> in. H <sub>2</sub> O				AIR PRESSURE: <u>105</u> psi					
SP-1:	<u>8.2</u>	scfm	<u>16.0</u>	psi	SP-5:	<u>0.0</u>	scfm	<u>29.0</u>	psi
SP-2:	<u>0.0</u>	scfm	<u>13.0</u>	psi	SP-6:	<u>0.0</u>	scfm	<u>&gt; 30</u>	psi
SP-3:	<u>0.0</u>	scfm	<u>12.5</u>	psi	SP-7:	<u>0.0</u>	scfm	<u>&gt; 30</u>	psi
SP-4:	_____	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:

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Other Actions:

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

DATE: <u>13-Sep-10</u>		ACTIVITIES: <u>Site Inspection</u>													
INSPECTION PERSONNEL: <u>R. Allen</u>		OTHER PERSONNEL: <u>-----</u>													
WEATHER CONDITIONS: <u>Partly cloudy, warm</u>		OUTSIDE TEMPERATURE (° F): <u>72</u>													
ARE WELL PUMPS OPERATING IN AUTO: YES: <input checked="" type="checkbox"/> NO: <input type="checkbox"/> If "NO", provide explanation below <u>PW-7 is constantly ON while reading a steady 11.</u>															
PROVIDE WATER LEVEL READINGS ON CONTROL PANEL															
RW-1	ON: _____	OFF: <input checked="" type="checkbox"/> <u>8</u> ft	PW-5 ON: _____ OFF: <input checked="" type="checkbox"/> <u>5</u> ft												
PW-2	ON: _____	OFF: <input checked="" type="checkbox"/> <u>6</u> ft	PW-6 ON: _____ OFF: <input checked="" type="checkbox"/> <u>3</u> ft												
PW-3	ON: _____	OFF: <input checked="" type="checkbox"/> <u>5</u> ft	PW-7 ON: <input checked="" type="checkbox"/> OFF: _____ <u>11</u> ft												
PW-4	ON: _____	OFF: <input checked="" type="checkbox"/> <u>5</u> ft	PW-8 ON: _____ OFF: <input checked="" type="checkbox"/> <u>4</u> ft												
EQUALIZATION TANK: <u>4</u> ft		Last Alarm D/T/Condition: <u>9/10/10 Air Stripper Low Level</u>													
NOTES: _____															
INFLUENT FLOW RATE: <u>3</u> gpm		INFLUENT TOTALIZER READING: <u>318,144.0</u> gallons													
SEQUESTERING AGENT DRUM LEVEL: <u>20</u> inches		(x 1.7=) AMOUNT OF AGENT REMAINING: <u>34</u> gallons													
SEQUESTERING AGENT FEED RATE: <u>9.0</u> ml/min		METERING PUMP PRESSURE: <u>3.0</u> psi													
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">Top</td> <td style="text-align: center;">Bottom</td> <td></td> <td style="text-align: center;">Top</td> <td style="text-align: center;">Bottom</td> </tr> <tr> <td>BAG FILTER PRESSURES:</td> <td>LEFT: <u>0</u></td> <td><u>0</u> psi</td> <td>RIGHT:</td> <td><u>6</u></td> <td><u>0</u> psi</td> </tr> </table>					Top	Bottom		Top	Bottom	BAG FILTER PRESSURES:	LEFT: <u>0</u>	<u>0</u> psi	RIGHT:	<u>6</u>	<u>0</u> psi
	Top	Bottom		Top	Bottom										
BAG FILTER PRESSURES:	LEFT: <u>0</u>	<u>0</u> psi	RIGHT:	<u>6</u>	<u>0</u> psi										
INFLUENT FEED PUMP IN USE: #1 <input checked="" type="checkbox"/> #2 _____		INFLUENT PUMP PRESSURE: <u>13</u> psi													
AIR STRIPPER BLOWER IN USE: #1 _____ #2 <input checked="" type="checkbox"/>		AIR STRIPPER PRESSURE: <u>12.0</u> in. H <sub>2</sub> O													
AIR STRIPPER DIFFERENTIAL PRESSURE: <u>0.035</u> in. H <sub>2</sub> O		DISCHARGE PRESSURE: <u>1.0</u> in. H <sub>2</sub> O													
EFFLUENT PUMP IN USE: #1 _____ #2 <input checked="" type="checkbox"/>		EFFLUENT FEED PUMP PRESSURE: <u>9.5</u> psi													
EFFLUENT FLOW RATE: <u>0.035</u> gpm		EFFLUENT TOTALIZER READING: <u>60,444,342</u> 719620 gallons													
ARE BUILDING HEATERS IN USE? YES: _____ NO: <input checked="" type="checkbox"/>		INSIDE TEMPERATURE (° F): <u>77</u>													
IS SUMP PUMP IN USE: YES: <input checked="" type="checkbox"/> NO: _____		ARE ANY LEAKS PRESENT? YES: _____ NO: <input checked="" type="checkbox"/>													
WATER LEVEL IN SUMP: <u>6.5</u> in.		TREATMENT BUILDING CLEAN & ORGANIZED? YES: <input checked="" type="checkbox"/> NO: _____													

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

13-Sep-10

SAMPLES COLLECTED? YES:  NO:

	Sample ID	Time of Sampling	pH	Turbidity	Temp.	Sp. Cond.
AIR STRIPPER INFLUENT:	INF	11:30 AM	7.49	7.03	17.4	2720
AIR STRIPPER EFFLUENT:	EFF	11:40 AM	8.67	8.94	17.9	2660

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:

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

Remarks: Turned Jesco pump down slightly to: Left 2.1; Right 1.1.

Other Actions:

**AGWAY**

SYSTEM VACUUM: <u>-21</u> in. H <sub>2</sub> O				AIR PRESSURE: <u>110</u> psi					
SP-1:	<u>10.0</u>	scfm	<u>5.0</u>	psi	SP-5:	<u>0.0</u>	scfm	<u>28.5</u>	psi
SP-2:	<u>0.0</u>	scfm	<u>25.0</u>	psi	SP-6:	<u>0.0</u>	scfm	<u>&gt; 30</u>	psi
SP-3:	<u>0.0</u>	scfm	<u>24.0</u>	psi	SP-7:	<u>0.0</u>	scfm	<u>&gt; 30</u>	psi
SP-4:	<u>0.0</u>	scfm	<u>25.0</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:

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

DATE: <u>21-Sep-10</u>		ACTIVITIES: <u>Site Inspection</u>	
INSPECTION PERSONNEL: <u>R. Allen</u>		OTHER PERSONNEL: _____	
WEATHER CONDITIONS: <u>Partly cloudy, warm</u>		OUTSIDE TEMPERATURE (° F): <u>59</u>	
ARE WELL PUMPS OPERATING IN AUTO: YES: <input checked="" type="checkbox"/> NO: _____ If "NO", provide explanation below			
<u>PW-7 remains ON at a steady level 11.</u>			
PROVIDE WATER LEVEL READINGS ON CONTROL PANEL			
RW-1	ON: <input checked="" type="checkbox"/>	OFF: _____	<u>5</u> ft
PW-2	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>6</u> ft
PW-3	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>6</u> ft
PW-4	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>7</u> ft
PW-5	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>5</u> ft
PW-6	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>4</u> ft
PW-7	ON: <input checked="" type="checkbox"/>	OFF: _____	<u>11</u> ft
PW-8	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>4</u> ft
EQUALIZATION TANK: <u>4</u> ft		Last Alarm D/T/Condition: <u>9/10/10 Air Stripper Low Level</u>	
NOTES: _____			
INFLUENT FLOW RATE: <u>3</u> gpm		INFLUENT TOTALIZER READING: <u>509,603.0</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>9.0</u> ml/min		METERING PUMP PRESSURE: <u>3.5</u> psi	
BAG FILTER PRESSURES:			
	LEFT:	Top <u>0</u>	Bottom <u>0</u> psi
	RIGHT:	Top <u>6</u>	Bottom <u>0</u> psi
INFLUENT FEED PUMP IN USE: #1 <input checked="" type="checkbox"/> #2 _____		INFLUENT PUMP PRESSURE: <u>13</u> psi	
AIR STRIPPER BLOWER IN USE: #1 _____ #2 <input checked="" type="checkbox"/>		AIR STRIPPER PRESSURE: <u>13.0</u> in. H <sub>2</sub> O	
AIR STRIPPER DIFFERENTIAL PRESSURE: <u>0.035</u> in. H <sub>2</sub> O		DISCHARGE PRESSURE: <u>1.0</u> in. H <sub>2</sub> O	
EFFLUENT PUMP IN USE: #1 _____ #2 <input checked="" type="checkbox"/>		EFFLUENT FEED PUMP PRESSURE: <u>10.5</u> psi	
EFFLUENT FLOW RATE: <u>105</u> gpm		EFFLUENT TOTALIZER READING: <u>60,558,302</u> 835510 gallons	
ARE BUILDING HEATERS IN USE? YES: _____ NO: <input checked="" type="checkbox"/>		INSIDE TEMPERATURE (° F): <u>72</u>	
IS SUMP PUMP IN USE: YES: <input checked="" type="checkbox"/> NO: _____		ARE ANY LEAKS PRESENT? YES: _____ NO: <input checked="" type="checkbox"/>	
WATER LEVEL IN SUMP: <u>5.5</u> in.		TREATMENT BUILDING CLEAN & ORGANIZED? YES: <input checked="" type="checkbox"/> NO: _____	

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

21-Sep-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:

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

Remarks: Reduced Jesco pump slightly to: Left 2.0; Right 1.0.

Other Actions: Drew As-Built sketch of Effluent Pipe

**AGWAY**

SYSTEM VACUUM:   -21   in. H<sub>2</sub>O

AIR PRESSURE:   85   psi

SP-1: <u>  &gt; 10  </u> scfm <u>  3.5  </u> psi	SP-5: <u>  0.0  </u> scfm <u>  29.0  </u> psi
SP-2: <u>  0.0  </u> scfm <u>  21.0  </u> psi	SP-6: <u>  0.0  </u> scfm <u>  &gt; 30  </u> psi
SP-3: <u>  0.0  </u> scfm <u>  20.0  </u> psi	SP-7: <u>  0.0  </u> scfm <u>  &gt; 30  </u> psi
SP-4: <u>  0.0  </u> scfm <u>  20.5  </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: SVE drum is dry.

Other Actions:

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

DATE: <u>28-Sep-10</u>		ACTIVITIES: <u>Site Inspection</u>													
INSPECTION PERSONNEL: <u>R. Allen</u>		OTHER PERSONNEL: _____													
WEATHER CONDITIONS: _____		OUTSIDE TEMPERATURE (° F): <u>70</u>													
ARE WELL PUMPS OPERATING IN AUTO: YES: <input checked="" type="checkbox"/> NO: _____ If "NO", provide explanation below <u>PW-7 remains ON at a steady level 12.</u>															
PROVIDE WATER LEVEL READINGS ON CONTROL PANEL															
RW-1	ON: <input checked="" type="checkbox"/>	OFF: <u>6</u> ft	PW-5 ON: _____ OFF: <input checked="" type="checkbox"/> <u>5</u> ft												
PW-2	ON: _____	OFF: <input checked="" type="checkbox"/> <u>6</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>12</u> ft												
PW-4	ON: _____	OFF: <input checked="" type="checkbox"/> <u>6</u> ft	PW-8 ON: <input checked="" type="checkbox"/> OFF: _____ <u>7</u> ft												
EQUALIZATION TANK: <u>4</u> ft		Last Alarm D/T/Condition: <u>9/10/10 Air Stripper Low Level</u>													
NOTES: _____															
INFLUENT FLOW RATE: <u>23</u> gpm		INFLUENT TOTALIZER READING: <u>683,188.0</u> gallons													
SEQUESTERING AGENT DRUM LEVEL: <u>26</u> inches		(x 1.7=) AMOUNT OF AGENT REMAINING: <u>44</u> gallons													
SEQUESTERING AGENT FEED RATE: <u>7.0</u> ml/min		METERING PUMP PRESSURE: <u>3.0</u> psi													
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">Top</td> <td style="text-align: center;">Bottom</td> <td></td> <td style="text-align: center;">Top</td> <td style="text-align: center;">Bottom</td> </tr> <tr> <td>BAG FILTER PRESSURES:</td> <td>LEFT: <u>0</u></td> <td><u>0</u> psi</td> <td>RIGHT:</td> <td><u>6</u></td> <td><u>0</u> psi</td> </tr> </table>					Top	Bottom		Top	Bottom	BAG FILTER PRESSURES:	LEFT: <u>0</u>	<u>0</u> psi	RIGHT:	<u>6</u>	<u>0</u> psi
	Top	Bottom		Top	Bottom										
BAG FILTER PRESSURES:	LEFT: <u>0</u>	<u>0</u> psi	RIGHT:	<u>6</u>	<u>0</u> psi										
INFLUENT FEED PUMP IN USE: #1 <input checked="" type="checkbox"/> #2 _____		INFLUENT PUMP PRESSURE: <u>13</u> psi													
AIR STRIPPER BLOWER IN USE: #1 _____ #2 <input checked="" type="checkbox"/>		AIR STRIPPER PRESSURE: <u>14.0</u> in. H <sub>2</sub> O													
AIR STRIPPER DIFFERENTIAL PRESSURE: <u>0.033</u> in. H <sub>2</sub> O		DISCHARGE PRESSURE: <u>1.0</u> in. H <sub>2</sub> O													
EFFLUENT PUMP IN USE: #1 _____ #2 <input checked="" type="checkbox"/>		EFFLUENT FEED PUMP PRESSURE: <u>7.5</u> psi													
EFFLUENT FLOW RATE: <u>112</u> gpm		EFFLUENT TOTALIZER READING: <u>60,661,011</u> 940030 gallons													
ARE BUILDING HEATERS IN USE? YES: _____ NO: <input checked="" type="checkbox"/>		INSIDE TEMPERATURE (° F): <u>78</u>													
IS SUMP PUMP IN USE: YES: <input checked="" type="checkbox"/> NO: _____		ARE ANY LEAKS PRESENT? YES: _____ NO: <input checked="" type="checkbox"/>													
WATER LEVEL IN SUMP: <u>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**

28-Sep-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:

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

Remarks: Air Stripper Dimensions: Length 11' 8" x Width 34" x Height 7' 10"

Bisco Environmental, Inc. gaskets: Length 11' 6" x Width 34" x Height 1"

Other Actions:

**AGWAY**

SYSTEM VACUUM: <u>  -21  </u> in. H <sub>2</sub> O				AIR PRESSURE: <u>  105  </u> psi			
SP-1:	<u>  &gt; 10  </u>	scfm	<u>  3.5  </u> psi	SP-5:	<u>  0.0  </u>	scfm	<u>  29.5  </u> psi
SP-2:	<u>  0.0  </u>	scfm	<u>  18.5  </u> psi	SP-6:	<u>  1.3  </u>	scfm	<u>  &gt; 30  </u> psi
SP-3:	<u>  0.0  </u>	scfm	<u>  17.5  </u> psi	SP-7:	<u>  0.0  </u>	scfm	<u>  &gt; 30  </u> psi
SP-4:	<u>  0.0  </u>	scfm	<u>  18.0  </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: SVE drum is dry.

Other Actions:



# Mr. C's CLEANERS OM&M

## SUMMARY OF FIELD ACTIVITIES BY IEG - 9/2010

DATE	ACTIVITY
3-Sep	Take delivery of Redux
7-Sep	OM&M Weekly Inspection and end of month summary
8-Sep	OM&M Piezometer Readings
9-Sep	Prepare for Air Stripper cleaning
10-Sep	Clean Air Stripper
13-Sep	OM&M Weekly Inspection and sampling
21-Sep	OM&M Weekly Inspection. Draw As-Built sketch of effluent pipe.
24-Sep	Switch Jesco pump. Clean out drum.
28-Sep	OM&M Weekly Inspection and office work

# Mr. C's CLEANERS OM&M

## STATUS SUMMARY - FIELD ACTIVITIES BY IEG - 9/2010

ACTIVITY	DESCRIPTION	COMPLETION DATE/STATUS
Restart System after May storm	Blower #2 causes breaker in Air Stripper Control Panel to trip. Switch system to Blower #1. Troubleshoot and repair Blower #2. Removed and repaired #2 motor.	Jul-10
Troubleshoot electrical overload	Alarm calls repeatedly indicate an electrical power overload. System usually continues to run normally. Troubleshoot source of alarm and repair. Reset temperature alarm.	Jul-10
Champion Compressor replace belts	Belts are loose and the adjustment is at end of tightening limit. Replace both belts.	Jul-10
Champion Compressor repair belt guard	The belt guard is loose and wiggles during operation. Add braces to guard.	Jul-10
Blower #1 - replace starter motor (contactor)	The contactor is defective for this motor. Replace the unit.	Jul-10
Blower #2 - replace starter motor (contactor)	The contactor is defective for this motor. Replace the unit.	Jul-10
Influent Pump #2 - replace starter	The contactor is defective for this motor. Replace the unit.	Jul-10
Fix Leak in Influent Pipe	A leak started in the Redux fitting in the Influent Pipe. Replace corroded fitting.	Jul-10
Sump pump pipe disconnects	The sump pump pipe was not cemented onto the fitting at the Equalization Tank. Cement the loose pipe back onto the fitting.	Jul-10
Champion Compressor Maintenance	Change oil and air filter.	Jul-10
Replace SVE Vacuum Drum	Present Vacuum Drum inside Agway Shed is corroded. Replace drum.	To be ordered
AS / SVE System Evaluation	Agway Shed - test & 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 compressor is a 1992 model. Compressor pump needs service, including a valve kit.	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
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
Agway Shed Concrete Dump	Approximately 1/4 yard of concrete was washed out on the north side of the Agway Shed. Concrete should be removed.	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
Repair Filter Basket	The handle loop on a filter basket broke. Weld handle back in place.	in progress
Champion Compressor not running	Diagnose problem to the electric motor. Remove and take to S&S Electric for repair. Motor is burned up and not worth repairing. Replaced motor.	Aug-10
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
Air Stripper readings are high	Clean air stripper trays: Brushed trays through access ports, pressure washed trays through ports.	Sep-10
Schedule Air Stripper Disassembly	Trays need to be periodically disassembled so that built up scale can be brushed off with power tools.	Sep-10

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

as of Sep 10

ID	CLEAN & INSPECT PUMP	REPLACED 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	May-10	Feb-08	May-10		May-10					
PW - 2	Aug 09, May 10	Jul-08			Aug 09, May 10	Sep-09		Aug-09		Sep-09
PW - 3	Aug 09, May 10	Jul-08		Repair adapter	Aug-09			Aug-09		
PW - 4	Sep 09, May 10	Dec-07	NEED		May-10			Jul 09, Sep 09	Sep-09	Sep-09
PW - 5		Jul-08			Sep-09		Repair Sep-09			
PW - 6	Jul-09	Jun 08, Jul 09		Replace pipe 8/09	Apr 09, Aug 09	Sep-09		Aug-09	Aug 09, Sep 09	Jul 09, Sep 09
PW - 7	Jul 09, May 10	Nov 07, Jul 09		Replace pipe 8/09	Aug 09, May 10			Au 09, May 10		
PW - 8	Aug 09, May 10	Jul 08, Sep 09		Replace pipe 8/09	Aug 09, May 10			Aug 09, May 10		

**Mr. C's CLEANERS OM&M**  
**SUMMARY OF WATER PUMP STATUS - 2010**

as of Sep 10

ID	NEEDS CLEANING & INSPECTION	NEEDS NEW PUMP	NEEDS P.A. OR PIPE	NEEDS WELL CLEAN-OUT	NEEDS TRANSDUCER INSPECTION	NEEDS NEW TRANSDUCER	CLEANED & INSPECTED U.E.	NEEDS ANEROID BELLOWS	NEEDS U.E. CLEANED	NEEDS REPAIR
RW - 1	NO	NO		YES	NO	NO		YES	NO	YES - bolts
PW - 2	NO	NO		YES	NO			DONE 9/09	NO	YES - bolts
PW - 3	NO	NO	REPAIRED 8/09	DONE 8/09	NO	NO		YES	NO	NO
PW - 4	NO	NO		DONE 9/09	NO		YES 9/09	DONE 9/09	DONE	YES - Asphalt patch
PW - 5	NO	NO		YES	YES 7/09, Problem 11/09	problems 1/09 and 11/09		DONE	NO	NO
PW - 6	NO	DONE 8/09	Replaced pipe 8/09	DONE 8/09	YES 7/09	NO	YES 9/09	DONE 9/09	NO	DONE
PW - 7	NO	YES	Replaced pipe 8/09	NO	NO	NO		DONE	NO	NO
PW - 8	NO	DONE 9/09	Replaced pipe 8/09	NO	NO	NO		YES	NO	NO

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

**Analytical Data Package Work Order ID: J1769**  
**Sampled: September 13, 2010**  
**Analyzed: September 14, 2010**

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

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

Mitkem Work Order ID: J1769

September 17, 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

## Sample Transmittal Documentation



A DIVISION OF SPECTRUM ANALYTICAL, INC. FEATURING HANIBAL TECHNOLOGY

# CHAIN OF CUSTODY RECORD

## Special Handling:

TAT- Indicate Date Needed: RUSH 22 hrs  
 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 17086  
(716) 684-8060  
 Project Mgr.: Mike Steffan

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

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

1=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 2=HCl 3=H<sub>2</sub>SO<sub>4</sub> 4=HNO<sub>3</sub> 5=NaOH 6=Ascorbic Acid 7=CH<sub>3</sub>OH  
 8=NaHSO<sub>4</sub> 9= \_\_\_\_\_ 10= \_\_\_\_\_ 11= \_\_\_\_\_

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

List preservative code below:

4 2

Notes:

### Containers:

# of VOA Vials

# of Amber Glass

# of Clear Glass

# of Plastic

### Analyses:

QA/QC Reporting Level

Level I  Level II  
 Level III  Level IV  
 Other CAT A

State specific reporting standards:

Matrix

Type

Time:

Date:

Sample Id:

Lab Id:

G=Grab C=Composite

Lab Id	Sample Id	Date	Time	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic
31769	01	9/13/10	1:00 PM	G	GW				1
	01		1:00 PM	G	GW				1
	01		1:00 PM	G	GW	2			
	02		1:15 PM	G	GW				1
	02		1:15 PM	G	GW				1
	02		1:15 PM	G	GW	2			

Hardness  
pH  
VOC

Note: Bottle order  
said 500 ml HNO<sub>3</sub>  
bottles  
We were sent  
250 ml HNO<sub>3</sub>  
bottles.

E-mail to msteffan@ene.com

EDD Format PDF

Relinquished by:

Received by:

Time:

Richard C Allen Jr

URS

Stukey NS

9/14/10

12:00

Condition upon receipt:  Iced  Ambient D °C



**MITKEM LABORATORIES**

Sample Condition Form

Received By: <u>CN</u>		Reviewed By: <u>(SB)</u>		Date: <u>9/14/10</u>		Mitkem Work Order #: <u>J1769</u>	
Client Project: <u>Mr. C Compliance</u>		Client: <u>ENE</u>				Soil Headspace or Air Bubble ≥ 1/4"	
		Preservation (pH)					VOA Matrix
		Lab Sample ID	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	HCl	NaOH	H <sub>3</sub> PO <sub>4</sub>
1) Cooler Sealed	<u>Yes</u> / No	<u>J1769 01</u>	<u>C2</u>				<u>H</u>
2) Custody Seal(s)	<u>Present</u> / Absent <u>Coolers</u> / Bottles <u>Intact</u> / Broken	<u>J1769 02</u>	<u>C2</u>				<u>H</u>
3) Custody Seal Number(s)	<u>NA</u>						
4) Chain-of-Custody	<u>Present</u> / Absent						
5) Cooler Temperature	<u>6 °C</u>						
IR Temp Gun ID	<u>MT-1</u>						
Coolant Condition	<u>Ice</u>						
6) Airbill(s)	<u>Present</u> / Absent						
Airbill Number(s)	<u>UPS</u> <u>1ZFR8725139A3</u> <u>4728</u>						
7) Samples Bottles	<u>Intact</u> / Broken / Leaking						
8) Date Received	<u>9/14/10</u>						
9) Time Received	<u>12:00</u>						
Preservative Name/Lot No.:							

VOA Matrix Key:

US = Unpreserved Soil	A = Air
UA = Unpreserved Aqueous	H = HCl
M = MeOH	E = Encore
N = NaHSO <sub>4</sub>	F = Freeze

See Sample Condition Notification/Corrective Action Form yes / no

Rad OK yes / no



\* 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.: J1769 Mod. Ref No.: \_\_\_\_\_ SDG No.: SJ1769  
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1769-01A  
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1L6543.D  
 Level: (TRACE/LOW/MED) LOW Date Received: 09/14/2010  
 % Moisture: not dec. Date Analyzed: 09/14/2010  
 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)	ug/L	
75-71-8	Dichlorodifluoromethane		10	U
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-69-4	Trichlorofluoromethane		10	U
75-35-4	1,1-Dichloroethene		10	U
67-64-1	Acetone		50	U
75-15-0	Carbon disulfide		10	U
75-09-2	Methylene chloride		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
1634-04-4	Methyl tert-butyl ether		8.9	J
75-34-3	1,1-Dichloroethane		10	U
78-93-3	2-Butanone		50	U
156-59-2	cis-1,2-Dichloroethene		20	U
67-66-3	Chloroform		10	U
71-55-6	1,1,1-Trichloroethane		10	U
56-23-5	Carbon tetrachloride		10	U
107-06-2	1,2-Dichloroethane		10	U
71-43-2	Benzene		10	U
79-01-6	Trichloroethene		45	U
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		840	U
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.: J1769 Mod. Ref No.: \_\_\_\_\_ SDG No.: SJ1769  
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1769-01A  
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1L6543.D  
 Level: (TRACE/LOW/MED) LOW Date Received: 09/14/2010  
 % Moisture: not dec. Date Analyzed: 09/14/2010  
 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.: J1769 Mod. Ref No.: \_\_\_\_\_ SDG No.: SJ1769  
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1769-02A  
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1L6538.D  
 Level: (TRACE/LOW/MED) LOW Date Received: 09/14/2010  
 % Moisture: not dec. Date Analyzed: 09/14/2010  
 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	
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		1.3	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: MITKEM LABORATORIES Contract: \_\_\_\_\_  
 Lab Code: MITKEM Case No.: J1769 Mod. Ref No.: \_\_\_\_\_ SDG No.: SJ1769  
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J1769-02A  
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1L6538.D  
 Level: (TRACE/LOW/MED) LOW Date Received: 09/14/2010  
 % Moisture: not dec. Date Analyzed: 09/14/2010  
 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: 15-Sep-10

Client: Ecology and Environment Engineering P.C.

Client Sample ID: INFLUENT

Project: Mr. C's Dry Cleaning

Lab ID: J1769-01

Collection Date: 09/13/10 13:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>SM 2340 -- HARDNESS by Calculation</b>							<b>SM2340_W</b>
Hardness, Ca/Mg (As CaCO3)	480		4.0	mg/L CaCO3		1 09/15/2010 10:02	54094
<b>SM 4500 H+ B -- pH VALUE</b>							<b>SM4500_H+</b>
pH	6.9		1.0	S.U.		1 09/14/2010 15:30	R52077

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: 15-Sep-10

Client: Ecology and Environment Engineering P.C.  
Client Sample ID: EFFLUENT  
Lab ID: J1769-02

Project: Mr. C's Dry Cleaning  
Collection Date: 09/13/10 13:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 2340 -- HARDNESS by Calculation							SM2340_W
Hardness, Ca/Mg (As CaCO3)	490		4.0	mg/L CaCO3	1	09/15/2010 10:05	54094
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	8.1		1.0	S.U.	1	09/14/2010 16:00	R52077

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

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

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

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

ATTACHMENT C

**NYSDC Work Assignment #DC13.02.01.01**

Utility Budget:

Electric: \$25,800.00  
Telephone: \$540.00  
Gas: \$720.00  
Total: \$27,060.00

**12 Months of System Operation and Maintenance  
September 2010 Report**

Gas: \$720.00

**Gas, Telephone, and Electric**

Telephone: \$540.00  
Gas: \$720.00  
Total: \$27,060.00

Utility Provider Account # E&E Cost Center Description

Jan-2010 Feb-2010 Mar-2010 Apr-2010 May-2010 Jun-2010

New York State E&G 06-311-11-002616-26 002700.DC13.02.01 Mr. C's Electric Costs

\$672.56 \$ 613.69 \$ 599.67 \$ 878.92 \$ 996.65 \$ 870.21

\$497.79

New York State E&G 76-311-11-015900-18 Agway Site - Electric

\$ 525.65 \$ 115.66 \$ 107.95 \$ 1,324.48 \$ 1,071.91 \$ 1,368.00

\$75.26

National Fuel Gas 5819628-05 002700.DC13.02.01 Mr. C's Natural Gas Costs

\$ 840.58 \$ 1,255.00 \$ 707.62 \$ 1,324.48 \$ 1,071.91 \$ 1,368.00

\$75.26

Totals

\$ 840.58 \$ 1,255.00 \$ 707.62 \$ 1,324.48 \$ 1,071.91 \$ 1,368.00

Ave./Month

Mr. C's Electric Costs

Jul-2010 \$755.21 Aug-2010 \$ 672.80 Sep-2010 \$ 672.80

\$ 757.46

Agway Electric

\$367.86 \$ 18.59 \$ 25.19

\$ 459.22

Mr. C's Natural Gas Costs

\$8.73 \$ 18.59 \$ 25.19

\$ 74.20

Totals

\$763.94 \$ 1,059.25 \$ 755.19

\$ 1,290.88

Electric

\$7,896.57

Natural Gas

\$ 519.40

Grand Total - NYSE&G/National Fuel Gas Costs To Date

\$ 8,415.97

Overbilled natural gas costs - no charges \$ 333.44 In red -adjusted billing

**Phone**

Estimated Reading \$ 333.44

Utility Provider Phone # E&E Cost Center Location Description

Jan-2010 Feb-2010 Mar-2010 Apr-2010 May-2010 Jun-2010

Verizon 716-652-0094 002700.DC13.02.01 Mr. C's Telephone Costs

\$ 30.04 \$ 30.19 \$ 30.19 \$ 30.22 \$ 30.29 \$ 31.55

Ave./Month

Account# 716 652 0094 416 26 2

Jul-2010 \$ 33.34 Aug-2010 Sep-2010 Oct-2010 Nov-2010 Dec-2010

\$ 30.83

Grand Total - Verizon Costs to Date

\$ 215.82

Grand Total All Utilities To Date

\$ 8,631.79

NYSDEC Work Assignment #DC13		Budget Remaining:		Electric:	\$17,903.43				
12 Months of System Operation and Maintenance				Telephone:	\$324.18				
September 2010 Report				Gas	\$200.60				
				Total:	\$18,428.21				

Month	Capacity	Comments
January-10	648	Cold January
February-10	696	Cold February
March-10	672	No snow and little rain in March
April-10	672	Problems with RW- 1 pump
May-10	864	
June-10	816	
July-10	816	Dry month
August-10	696	Problem with Pump PW-7
September-10	816	Air Stripper issues
October-10	504	Stripper In process for teardown and cleaning
November-10		#DIV/0!
December-10		#DIV/0!
Totals to Date	6384	99.25%

\* 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	\$	757.46			
Agway Electric	\$	459.22			
Mr. C's Gas	\$	74.20			
Mr. C's Telephone	\$	30.83			
Ave. Utility Cost Total	\$	1,321.71	times	12 month Estimate	\$17,482.23
					297308