



ecology and environment engineering, p.c.

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February 9, 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
January 2010 Operations, Maintenance, and Monitoring Report

Dear Mr. Welling:

Ecology and Environment Engineering, P.C. (EEEPC) is pleased to provide the January 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 January 14, 2009 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 January 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 1/5, 1/12, 1/18, 1/25, and 2/1/10.
- Based on the weekly inspection results performed by IEG, the remedial treatment system had a 100% operational up-time (Table 1) for January 2010 and the treatment of contaminated groundwater totaling of 648,852 gallons (Table 2).
- The analytical samples for the monthly compliance were taken on January 5, 2010. The sampling results were received by EEEPC on January 14, 2010. Excerpts from the Analytical Data package for the January 5, 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 January 2010 is presented in Table 3.

Mr. William Welling PE, Project Manager

February 9, 2010

Page 2 of 2

- A review of the analytical data revealed the influent concentration to be 1420 $\mu\text{g/L}$ or 1420 ppb, and 0.00 $\mu\text{g/L}$ or 0.00 ppb of treated effluent. The summary of influent and effluent contaminant concentrations for January 2010 is presented in Table 4. Overall cleanup efficiency for the reporting period 1/5/10 to 2/1/10 was 100.00%.
- The Mr. C's treatment system based on the total monthly flows has effectively removed 7.69 lbs of targeted contaminants from the groundwater below the site in the month of January 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 January 5, 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

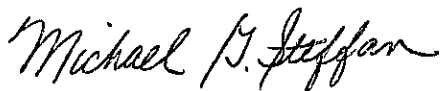
- No current operational issues.

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 January 2010 and year to date are provided as Attachment C.

If you have questions regarding the January 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
(Up-time from inception to 1/5/10)	61,992.50	95.99%
January 5, 2010 - February 1, 2010	648	100.00%
Feb-2010		
Mar-2010		
Apr-2010		
May-2010		
Jun-2010		
Jul-2010		
Aug-2010		
Sep-2010		
Oct-2010		
Nov-2010		
Dec-2010		
Total Hours from System Startup '2/02'	62,640.50	
Average Operational Up-time from startup =		96.03%
Average Operational Up-time for 2010 =		100.00%

NOTES:

1. Up-time based as percentage of total reporting hours
2. Treatment system operated by the Tyree Organization Ltd. from 9/02-9/03.
3. Treatment system operated by O&M Enterprises Inc. from 10/03 - 7/07.
4. Treatment system operated by Iyer Environmental Group from 7/07 to present

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

Month	Actual Period	Gallons
Total - Inception to December 2009	9/5/02 - 1/5/10	109,009,157
January 2010 ³	1/5/10 - 2/1/10	648,852
February 2010 ³		
March 2010 ³		
April 2010 ³		
May 2010 ³		
June 2010 ³		
July 2010 ³		
August 2010 ³		
September 2010 ³		
October 2010 ³		
November 2010 ³		
December 2010 ³		
Total Gallons Treated in 2010		648,852
Total Gallons Treated To Date:		109,658,009

NOTES:

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

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

Parameter/Analyte	Daily Maximum ¹	Units	January 5, 2010 Effluent Analytical Values Compliance
Flow	6.0 - 9.0	gpd	24,031.56
pH		standard units	7.90
1,1 Dichloroethene	10	µg/L	ND(<5.0)
1,2 Dichloroethane	10	µg/L	ND(<5.0)
cis-1,2-dichloroethene	10	µg/L	ND (<5.0)
Trichloroethene	10	µg/L	ND (<5.0)
Tetrachloroethene	10	µg/L	ND (<5.0)
Vinyl Chloride	10	µg/L	ND (<5.0)
Benzene	5	µg/L	ND (<5.0)
Ethylbenzene	5	µg/L	ND (<5.0)
Methylene Chloride	10	µg/L	ND (<5.0)
1,1,1 Trichloroethane	10	µg/L	ND (<5.0)
Toluene	5	µg/L	ND (<5.0)
Methyl-t-Butyl Ether (MTBE)	NA	µg/L	ND (<5.0)
o-Xylene ³	5	µg/L	NA
m, p-Xylene ³	10	µg/L	NA
Total Xylenes	NA	µg/L	ND (<5.0)
Iron, total	600	µg/L	NA ⁹
Aluminum	4,000	µg/L	NA ⁹
Copper	48	µg/L	NA ⁹
Lead	11	µg/L	NA ⁹
Manganese	2,000	µg/L	NA ⁹
Silver	100	µg/L	NA ⁹
Vanadium	28	µg/L	NA ⁹
Zinc	230	µg/L	NA ⁹
Total Dissolved Solids	850	mg/L	NA ⁹
Total Suspended Solids	20	mg/L	NA ⁹
Hardness	N/A	mg/l	540
Cyanide, Free	10	µg/L	NA ⁹

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 January 5, 2010 through February 1, 2010. Total gallons: 648,852 divided by 27 operating days (648 actual operating hours).
- "Y" indicates an estimated value below the detection limit.
- "P" 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
January 2010 VOC Analytical Summary

Compound	Based on the 1/05/10 Effluent Sampling Results		
	Influent Concentration* (ug/L)	Effluent Concentration* (ug/L)	Cleanup Efficiency (%)
Acetone	ND (<50.0)	ND (<5.0)	NA
Benzene	ND (<50.0)	ND (<5.0)	NA
2-Butanone	ND (<50.0)	ND (<5.0)	NA
cis-1, 2-Dichloroethene	29.0	ND (<5.0)	100%
Methylene chloride	11.0	ND (<5.0)	100%
Methyl tert-butyl ether (MTBE)	11.0	ND (<5.0)	100%
Tetrachloroethene	1300.0	ND (<5.0)	100%
Toluene	ND (<50.0)	ND (<5.0)	NA
Trichloroethene	69.0	ND (<5.0)	100%
Carbon Disulfide	ND (<50.0)	ND (<5.0)	NA
1,1,2 Trichloro-1,2,2-trifluoroethane	ND (<50.0)	ND (<5.0)	NA
Cyclohexane	ND (<50.0)	ND (<5.0)	NA
trans-1,2-dichloroethene	ND (<50.0)	ND (<5.0)	NA
Methylcyclohexane	ND (<50.0)	ND (<5.0)	NA
Methyl acetate	ND (<50.0)	ND (<5.0)	NA
Total Xylenes	ND (<50.0)	ND (<5.0)	NA
January, 5, 2010 TOTALs (in ug/L) =	1420.0	0.00	100.00%

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.)
Total pounds of VOCs removed from inception to December 2009 =				1435.30
January 2010	1/5/2010 - 2/1/2010	1420	0.00	7.69
February 2010				
March 2010				
April 2010				
May 2010				
June 2010				
July 2010				
August 2010				
September 2010				
October 2010				
November 2010				
December 2010				
Total pounds of VOCs removed from inception to January 2010 =				1,442.99
Total pounds of VOCs removed in 2010 =				7.69

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:

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

Attachment A
IEG Weekly Inspection Reports
January 2010

Including:

1/5/10

1/12/10

1/18/10

1/25/10

2/1/10

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

DATE: 5-Jan-10 ACTIVITIES: Site Inspection

INSPECTION PERSONNEL: R. Allen OTHER PERSONNEL: _____

WEATHER CONDITIONS: Cloudy, cold OUTSIDE TEMPERATURE (°F): 20

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

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>4</u> ft
PW-2	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>7</u> ft	PW-6	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>7</u> ft
PW-3	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>6</u> ft	PW-7	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>6</u> ft
PW-4	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>6</u> ft	PW-8	ON: _____	OFF: <input checked="" type="checkbox"/>	<u>6</u> ft

EQUALIZATION TANK: 4 ft Last Alarm D/T/Condition: 10/29/09 Air Stripper High Level

NOTES: _____

INFLUENT FLOW RATE: 18 gpm INFLUENT TOTALIZER READING: 4,340,704.0 gallons

SEQUESTERING AGENT DRUM LEVEL: 28 inches (x 1.7=) AMOUNT OF AGENT REMAINING: 47.6 gallons

SEQUESTERING AGENT FEED RATE: 6.0 ml/min METERING PUMP PRESSURE: 3.0 psi

BAG FILTER PRESSURES:	LEFT:	Top	Bottom	RIGHT:	Top	Bottom
		<u>0</u>	<u>0</u> psi		<u>6.5</u>	<u>0</u> psi

INFLUENT FEED PUMP IN USE: #1 _____ #2 INFLUENT PUMP PRESSURE: 14 psi

AIR STRIPPER BLOWER IN USE: #1 _____ #2 AIR STRIPPER PRESSURE: 36.0 in. H₂O

AIR STRIPPER DIFFERENTIAL PRESSURE: 0.026 in. H₂O DISCHARGE PRESSURE: 0.1 in. H₂O

EFFLUENT PUMP IN USE: #1 #2 _____ EFFLUENT FEED PUMP PRESSURE: 7.5 psi

EFFLUENT FLOW RATE: 89 gpm EFFLUENT TOTALIZER READING: 56,777,525 32380 gallons

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

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

WATER LEVEL IN SUMP: 6.0 in. TREATMENT BUILDING CLEAN & ORGANIZED? YES: NO: _____

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

5-Jan-10

SAMPLES COLLECTED? YES: NO:

	Sample ID	Time of Sampling	pH	Turbidity	Temp.	Sp. Cond.
AIR STRIPPER INFLUENT:	INF	2:00 PM	7.28	6.84	11.3	2627
AIR STRIPPER EFFLUENT:	EFF	2:00 PM	8.56	6.44	11.7	2508

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. Recommend filling with gravel and cement. MWs and UEs are covered with ice and snow.

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

Remarks: Emptied (5) gals from Air Stripper exhaust pipe drip bucket.

Other Actions:

AGWAY

SYSTEM VACUUM: <u>-23</u> in. H ₂ O				AIR PRESSURE: <u>120</u> psi					
SP-1:	<u>8.1</u>	scfm	<u>4.0</u>	psi	SP-5:	<u>0.0</u>	scfm	<u>28.0</u>	psi
SP-2:	<u>0.0</u>	scfm	<u>9.5</u>	psi	SP-6:	<u>0.0</u>	scfm	<u>> 30</u>	psi
SP-3:	<u>0.0</u>	scfm	<u>9.0</u>	psi	SP-7:	<u>0.0</u>	scfm	<u>> 30</u>	psi
SP-4:	<u>0.0</u>	scfm	<u>9.5</u>	psi	SP-8:	<u>0.0</u>	scfm	<u>> 30</u>	psi

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

Remarks: Drained (14) gals from SVE vacuum drum.

Other Actions:

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

DATE: <u>12-Jan-10</u>		ACTIVITIES: <u>Site Inspection</u>	
INSPECTION PERSONNEL: <u>R. Allen</u>		OTHER PERSONNEL: _____	
WEATHER CONDITIONS: <u>Cold, cloudy</u>		OUTSIDE TEMPERATURE (°F): <u>20</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>8</u> ft	PW-5 ON: _____ OFF: <input checked="" type="checkbox"/> <u>6</u> ft
PW-2	ON: _____	OFF: <input checked="" type="checkbox"/> <u>6</u> ft	PW-6 ON: _____ OFF: <input checked="" type="checkbox"/> <u>6</u> ft
PW-3	ON: _____	OFF: <input checked="" type="checkbox"/> <u>4</u> ft	PW-7 ON: <input checked="" type="checkbox"/> OFF: _____ <u>8</u> ft
PW-4	ON: <input checked="" type="checkbox"/> OFF: _____ <u>5</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>27</u> gpm		INFLUENT TOTALIZER READING: <u>4,606,148.0</u> gallons	
SEQUESTERING AGENT DRUM LEVEL: <u>18</u> inches		(x 1.7=) AMOUNT OF AGENT REMAINING: <u>30.6</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>12</u> <u>0</u> psi
INFLUENT FEED PUMP IN USE: #1 _____ #2 <input checked="" type="checkbox"/>		INFLUENT PUMP PRESSURE: <u>19</u> psi	
AIR STRIPPER BLOWER IN USE: #1 _____ #2 <input checked="" type="checkbox"/>		AIR STRIPPER PRESSURE: <u>37.0</u> in. H ₂ O	
AIR STRIPPER DIFFERENTIAL PRESSURE: <u>0.025</u> in. H ₂ O		DISCHARGE PRESSURE: <u>0.8</u> in. H ₂ O	
EFFLUENT PUMP IN USE: #1 <input checked="" type="checkbox"/> #2 _____		EFFLUENT FEED PUMP PRESSURE: <u>7.0</u> psi	
EFFLUENT FLOW RATE: <u>89</u> gpm		EFFLUENT TOTALIZER READING: <u>56,941,680</u> 197580 gallons	
ARE BUILDING HEATERS IN USE? YES: <input checked="" type="checkbox"/> NO: _____		INSIDE TEMPERATURE (°F): <u>69</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

12-Jan-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 damagd from snowplow. Almost all MWs and UEs are covered with ice or snow.

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

Remarks: Emptied (2) gals from Air Stripper exhaust drip bucket.

Other Actions: Installed vent cover over Treatment Room man door.

Emptied remains of (2) old Redux drums into present drum. Have (1) full drum.

Changed bag filters.

AGWAY

SYSTEM VACUUM: <u> -23 </u> in. H ₂ O				AIR PRESSURE: <u> 118 </u> psi			
SP-1:	<u> 7.0 </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> 28.5 </u> psi	SP-6:	<u> 0.0 </u>	scfm	<u> > 30 </u> psi
SP-3:	<u> 0.0 </u>	scfm	<u> 27.5 </u> psi	SP-7:	<u> 0.0 </u>	scfm	<u> > 30 </u> psi
SP-4:	<u> 0.0 </u>	scfm	<u> 29.0 </u> psi	SP-8:	<u> 0.0 </u>	scfm	<u> > 30 </u> psi

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

Remarks: No construction equipment or vehicles on site.

Other Actions: Drained (6) gals from SVE vacuum drum.

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

DATE: <u>Jan 18, 2010</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>30</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: _____	OFF: <input checked="" type="checkbox"/> <u>10</u> ft	PW-5 ON: <input checked="" type="checkbox"/> OFF: _____ ft
PW-2	ON: _____	OFF: <input checked="" type="checkbox"/> <u>6</u> ft	PW-6 ON: _____ OFF: <input checked="" type="checkbox"/> _____ ft
PW-3	ON: _____	OFF: <input checked="" type="checkbox"/> <u>5</u> ft	PW-7 ON: _____ OFF: <input checked="" type="checkbox"/> _____ ft
PW-4	ON: _____	OFF: <input checked="" type="checkbox"/> <u>5</u> ft	PW-8 ON: _____ OFF: <input checked="" type="checkbox"/> _____ 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>69</u> gpm		INFLUENT TOTALIZER READING: <u>4,830,240.0</u> gallons	
SEQUESTERING AGENT DRUM LEVEL: <u>13</u> inches		(x 1.7=) AMOUNT OF AGENT REMAINING: <u>22</u> gallons	
SEQUESTERING AGENT FEED RATE: <u>8.0</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>6</u> <u>0</u> psi
INFLUENT FEED PUMP IN USE: #1 _____ #2 <input checked="" type="checkbox"/>		INFLUENT PUMP PRESSURE: <u>19</u> psi	
AIR STRIPPER BLOWER IN USE: #1 _____ #2 <input checked="" type="checkbox"/>		AIR STRIPPER PRESSURE: <u>39.0</u> in. H ₂ O	
AIR STRIPPER DIFFERENTIAL PRESSURE: <u>0.02</u> in. H ₂ O		DISCHARGE PRESSURE: <u>0.9</u> in. H ₂ O	
EFFLUENT PUMP IN USE: #1 <input checked="" type="checkbox"/> #2 _____		EFFLUENT FEED PUMP PRESSURE: <u>9.0</u> psi	
EFFLUENT FLOW RATE: <u>85</u> gpm		EFFLUENT TOTALIZER READING: <u>57,080,583</u> 337470 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

Jan 18, 2010

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: Turned Jesco pump down slightly: Left 2.4; Right 1.4.

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

Other Actions: Emptied some bag filler change water through filter into sump.

Exposed all MWs that were covered with snow and ice.

AGWAY

SYSTEM VACUUM: <u>-23</u> in. H ₂ O				AIR PRESSURE: <u>10</u> psi					
SP-1:	<u>8.5</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>6.5</u>	psi	SP-6:	<u>0.0</u>	scfm	<u>> 30</u>	psi
SP-3:	<u>0.0</u>	scfm	<u>6.5</u>	psi	SP-7:	<u>0.0</u>	scfm	<u>> 30</u>	psi
SP-4:	<u>0.0</u>	scfm	<u>7.0</u>	psi	SP-8:	<u>0.0</u>	scfm	<u>> 30</u>	psi

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

Remarks:

Other Actions: Emptied (3) gals from SVE vacuum drum.

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

DATE: <u>25-Jan-09</u>		ACTIVITIES: <u>Site Inspection</u>									
INSPECTION PERSONNEL: <u>R. Allen</u>		OTHER PERSONNEL: _____									
WEATHER CONDITIONS: <u>Cloudy, drizzle, cold</u>		OUTSIDE TEMPERATURE (° F): <u>36</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>9</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>4</u> ft	PW-7 ON: <input checked="" type="checkbox"/> OFF: _____ <u>8</u> ft								
PW-4	ON: _____	OFF: <input checked="" type="checkbox"/> <u>6</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>50</u> gpm		INFLUENT TOTALIZER READING: <u>5,099,031.0</u> gallons									
SEQUESTERING AGENT DRUM LEVEL: <u>3</u> inches		(x 1.7=) AMOUNT OF AGENT REMAINING: <u>5</u> gallons									
SEQUESTERING AGENT FEED RATE: <u>6.0</u> ml/min		METERING PUMP PRESSURE: <u>2.0</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;">7</td><td style="text-align: center;">0</td></tr></table> psi		Top	Bottom	7	0
Top	Bottom										
0	0										
Top	Bottom										
7	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>39.0</u> in. H ₂ O									
AIR STRIPPER DIFFERENTIAL PRESSURE: <u>0.02</u> in. H ₂ O		DISCHARGE PRESSURE: <u>0.8</u> in. H ₂ O									
EFFLUENT PUMP IN USE: #1 <input checked="" type="checkbox"/> #2 _____		EFFLUENT FEED PUMP PRESSURE: <u>7.5</u> psi									
EFFLUENT FLOW RATE: _____ gpm		EFFLUENT TOTALIZER READING: <u>57,247,827</u> 505590 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>8.0</u> in.		TREATMENT BUILDING CLEAN & ORGANIZED? YES: <input checked="" type="checkbox"/> NO: _____									

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

25-Jan-09

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. Many MWs and UEs are under puddles from ongoing rain.

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

Remarks: Switched Redux pickup to new drum. Have (1) full drum of Redux.

Adjusted Jesco pump to: Left 2.25; Right 1.25.

Other Actions: Recorded information from Air Stripper blower motors.

Recorded information from Equalization Tank.

AGWAY

SYSTEM VACUUM: -23 in. H₂O

AIR PRESSURE: 110 psi

SP-1: <u> 6.8 </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> 27.5 </u> psi	SP-6: <u> 0.0 </u> scfm	<u> > 30 </u> psi
SP-3: <u> 1.2 </u> scfm	<u> 26.0 </u> psi	SP-7: <u> 0.0 </u> scfm	<u> > 30 </u> psi
SP-4: <u> 0.0 </u> scfm	<u> 27.0 </u> psi	SP-8: <u> 0.0 </u> scfm	<u> > 30 </u> psi

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

Remarks: Recorded information from SVE blower motor.

Other Actions: Drained (3) gals from SVE vacuum drum.

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: _____	
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>7</u> ft	PW-5 ON: _____ OFF: <input checked="" type="checkbox"/> <u>7</u> ft
PW-2	ON: _____	OFF: <input checked="" type="checkbox"/> <u>6</u> ft	PW-6 ON: <input checked="" type="checkbox"/> OFF: _____ <u>5</u> ft
PW-3	ON: _____	OFF: <input checked="" type="checkbox"/> <u>4</u> ft	PW-7 ON: <input checked="" type="checkbox"/> OFF: _____ <u>4</u> ft
PW-4	ON: _____	OFF: <input checked="" type="checkbox"/> <u>5</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>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:			
	LEFT:	Top Bottom <u>0</u> <u>0</u> psi	RIGHT: Top Bottom <u>6</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>40.0</u> in. H ₂ O	
AIR STRIPPER DIFFERENTIAL PRESSURE: <u>0.015</u> in. H ₂ O		DISCHARGE PRESSURE: <u>0.8</u> in. H ₂ O	
EFFLUENT PUMP IN USE: #1 <input checked="" type="checkbox"/> #2 _____		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: _____		INSIDE TEMPERATURE (° F): <u>60</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>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

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 ₂ O				AIR PRESSURE: <u>105</u> psi					
SP-1:	<u>> 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>> 30</u>	psi
SP-3:	<u>0.0</u>	scfm	<u>17.0</u>	psi	SP-7:	<u>0.0</u>	scfm	<u>> 30</u>	psi
SP-4:	<u>0.0</u>	scfm	<u>17.5</u>	psi	SP-8:	<u>0.0</u>	scfm	<u>> 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 CLEANERS OM&M

SUMMARY OF FIELD ACTIVITIES BY IEG - 1/2010

DATE	ACTIVITY
1-Jan	OM&M Weekly Inspection and office work.
5-Jan	OM&M Weekly Inspection and sampling.
6-Jan	End of month summary.
12-Jan	OM&M Weekly Inspection. Emptied remains of (2) old Redux drums into present drum. Installed vent cover in Treatment Room. Changed bag filters.
13-Jan	Office work
18-Jan	OM&M Weekly Inspection. Exposed MWs that were covered with ice or snow.
19-Jan	Office work
20-Jan	Shovel ice or snow off of MWs.
23-Jan	Piezometer Readings
24-Jan	Piezometer Readings
25-Jan	OM&M weekly inspection. Piezometer readings. Office work.
26-Jan	Office research
27-Jan	Treatment Room - clean and photo blower motor/fan #1 and #2. Agway Shed - clean and photo SVE blower motor/fan. Office work.
28-Jan	Shovel snow in front of Treatment Room. Record information on blower motor/fan #1 and #2. Agway Shed - record information on SVE blower motor/fan. Office work.

Mr. C's CLEANERS OM&M

STATUS OF OM&M ACTIVITIES BY IEG

as of 01/31/10

ACTIVITY	DESCRIPTION	COMPLETION DATE/STATUS
Repair PW-5	Pump will not turn OFF. Inspected/cleaned transducer. Raised level of transducer one foot.	Sep-09
Repair PW-4	Reads a constant water level 8 on PanelView. Clean and inspect pump. Purge well and flush flexible pipe. Shorten transducer wire and replace aneroid bellows.	Sep-09
Repair PW-8	Pump does not work. Replace flexible pipe and well pump.	Sep-09
Repair Redux Pump	Jesco America Corp (JAC) pump is leaking. Inspect and clean pump. Replace broken and old plastic hose clamps with metal ones. Tighten plastic fittings.	Sep-09
Clean Air Stripper	Cleaned Air Stripper trays. Assembled Industrial brushes and power sprayer to clean trays through access ports. This cleaning method has proven cost effective by reducing the frequency of tear downs.	Sep-09
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
Level PW-4 Well and Box	Asphalt around PW-4 and its Underground Enclosure has sunk, leaving these structures 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 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 WATER PUMP MAINTENANCE BY IEG

as of Jan 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: J0010
Sampled: January 5, 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: J0010

January 14, 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 January 6, 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 with the exception of marginally high recovery of acetone in LCS-48482.

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

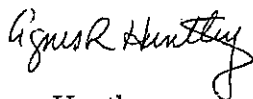
2. Wet Chemistry Analyses:

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
01/14/10



A DIVISION OF SPECTRUM ANALYTICAL, INC. FEATURING HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling: STD
 TAT- Indicate Date Needed: STD
 All TATs subject to laboratory approval.
 Min. 24-hour notification needed for rushes.
 Samples disposed of after 60 days unless otherwise instructed.

Report To: E & E, Inc
368 Pleasant Dr
Lancaster, NY 14086

Project Mgr.: Mike Steffan

Invoice To: E & E, Inc

P.O. No.: _____ RQN: _____

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

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid 7=CH₃OH
 8= NaHSO₄ 9= _____ 10= _____ 11= _____

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

List preserve vial/c code below:
4 2

Containers: _____
 # of VOA Vials _____
 # of Amber Glass _____
 # of Clear Glass _____
 # of Plastic _____

Notes: _____
 QA/QC Reporting Level
 Level I Level II
 Level III Level IV
 Other CAT A
 State specific reporting standards: _____

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses:
J0010	INFLUENT	1/5/10	2:30P	G	GW				1	
	INFLUENT		2:30P	G	GW				1	VOC
	INFLUENT		2:30P	G	GW	2				PH
	EFFLUENT		2:30P	G	GW				1	
	EFFLUENT		2:30P	G	GW				1	
	EFFLUENT		2:30P	G	GW	2				

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

Relinquished by: Richard C Allen Jr
 Received by: [Signature]
 Date: 1/6/10 Time: 12:10

Condition upon receipt: Accd Ambient GC

00006



* 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.: J0010 Mod. Ref No.: _____ SDG No.: SJ0010
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J0010-01A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1L0200.D
 Level: (TRACE/LOW/MED) LOW Date Received: 01/06/2010
 % Moisture: not dec. Date Analyzed: 01/08/2010
 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	
75-71-8	Dichlorodifluoromethane		50	U
74-87-3	Chloromethane		50	U
75-01-4	Vinyl chloride		50	U
74-83-9	Bromomethane		50	U
75-00-3	Chloroethane		50	U
75-69-4	Trichlorofluoromethane		50	U
75-35-4	1,1-Dichloroethene		50	U
67-64-1	Acetone		50	U
75-15-0	Carbon disulfide		50	U
75-09-2	Methylene chloride		11	J
156-60-5	trans-1,2-Dichloroethene		50	U
1634-04-4	Methyl tert-butyl ether		11	J
75-34-3	1,1-Dichloroethane		50	U
78-93-3	2-Butanone		50	U
156-59-2	cis-1,2-Dichloroethene		29	J
67-66-3	Chloroform		50	U
71-55-6	1,1,1-Trichloroethane		50	U
56-23-5	Carbon tetrachloride		50	U
107-06-2	1,2-Dichloroethane		50	U
71-43-2	Benzene		50	U
79-01-6	Trichloroethene		69	
78-87-5	1,2-Dichloropropane		50	U
75-27-4	Bromodichloromethane		50	U
10061-01-5	cis-1,3-Dichloropropene		50	U
108-10-1	4-Methyl-2-pentanone		50	U
108-88-3	Toluene		50	U
10061-02-6	trans-1,3-Dichloropropene		50	U
79-00-5	1,1,2-Trichloroethane		50	U
127-18-4	Tetrachloroethene		1300	
591-78-6	2-Hexanone		50	U
124-48-1	Dibromochloromethane		50	U
106-93-4	1,2-Dibromoethane		50	U
108-90-7	Chlorobenzene		50	U
100-41-4	Ethylbenzene		50	U
1330-20-7	Xylene (Total)		50	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.: J0010 Mod. Ref No.: _____ SDG No.: SJ0010
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J0010-01A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1L0200.D
 Level: (TRACE/LOW/MED) LOW Date Received: 01/06/2010
 % Moisture: not dec. Date Analyzed: 01/08/2010
 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		50	U
75-25-2	Bromoform		50	U
98-82-8	Isopropylbenzene		50	U
79-34-5	1,1,2,2-Tetrachloroethane		50	U
541-73-1	1,3-Dichlorobenzene		50	U
106-46-7	1,4-Dichlorobenzene		50	U
95-50-1	1,2-Dichlorobenzene		50	U
96-12-8	1,2-Dibromo-3-chloropropane		50	U
120-82-1	1,2,4-Trichlorobenzene		50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		50	U
110-82-7	Cyclohexane		50	U
79-20-9	Methyl acetate		50	U
108-87-2	Methylcyclohexane		50	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.: J0010 Mod. Ref No.: _____ SDG No.: SJ0010
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J0010-02A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1L0199.D
 Level: (TRACE/LOW/MED) LOW Date Received: 01/06/2010
 % Moisture: not dec. Date Analyzed: 01/08/2010
 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		5.0	U
74-87-3	Chloromethane		5.0	U
75-01-4	Vinyl chloride		5.0	U
74-83-9	Bromomethane		5.0	U
75-00-3	Chloroethane		5.0	U
75-69-4	Trichlorofluoromethane		5.0	U
75-35-4	1,1-Dichloroethene		5.0	U
67-64-1	Acetone		5.0	U
75-15-0	Carbon disulfide		5.0	U
75-09-2	Methylene chloride		5.0	U
156-60-5	trans-1,2-Dichloroethene		5.0	U
1634-04-4	Methyl tert-butyl ether		5.0	U
75-34-3	1,1-Dichloroethane		5.0	U
78-93-3	2-Butanone		5.0	U
156-59-2	cis-1,2-Dichloroethene		5.0	U
67-66-3	Chloroform		5.0	U
71-55-6	1,1,1-Trichloroethane		5.0	U
56-23-5	Carbon tetrachloride		5.0	U
107-06-2	1,2-Dichloroethane		5.0	U
71-43-2	Benzene		5.0	U
79-01-6	Trichloroethene		5.0	U
78-87-5	1,2-Dichloropropane		5.0	U
75-27-4	Bromodichloromethane		5.0	U
10061-01-5	cis-1,3-Dichloropropene		5.0	U
108-10-1	4-Methyl-2-pentanone		5.0	U
108-88-3	Toluene		5.0	U
10061-02-6	trans-1,3-Dichloropropene		5.0	U
79-00-5	1,1,2-Trichloroethane		5.0	U
127-18-4	Tetrachloroethene		5.0	U
591-78-6	2-Hexanone		5.0	U
124-48-1	Dibromochloromethane		5.0	U
106-93-4	1,2-Dibromoethane		5.0	U
108-90-7	Chlorobenzene		5.0	U
100-41-4	Ethylbenzene		5.0	U
1330-20-7	Xylene (Total)		5.0	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.: J0010 Mod. Ref No.: _____ SDG No.: SJ0010
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: J0010-02A
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1L0199.D
 Level: (TRACE/LOW/MED) LOW Date Received: 01/06/2010
 % Moisture: not dec. Date Analyzed: 01/08/2010
 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		5.0	U
75-25-2	Bromoform		5.0	U
98-82-8	Isopropylbenzene		5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		5.0	U
541-73-1	1,3-Dichlorobenzene		5.0	U
106-46-7	1,4-Dichlorobenzene		5.0	U
95-50-1	1,2-Dichlorobenzene		5.0	U
96-12-8	1,2-Dibromo-3-chloropropane		5.0	U
120-82-1	1,2,4-Trichlorobenzene		5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		5.0	U
110-82-7	Cyclohexane		5.0	U
79-20-9	Methyl acetate		5.0	U
108-87-2	Methylcyclohexane		5.0	U



* Wet Chemistry *

Mitkem Laboratories

Date: 12-Jan-10

Client: Ecology and Environment Engineering P.C.
Client Sample ID: INFLUENT
Lab ID: J0010-01

Project: Mr. C's Dry Cleaning
Collection Date: 01/05/10 14:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 2340 -- HARDNESS by Calculation							SM2340_W
Hardness, Ca/Mg (As CaCO3)	530		4.0	mg/L CaCO3	1	01/08/2010 9:34	48447
SM 4500 pH -- pH VALUE							SM4500_H+
pH	7.0		1.0	S.U.	1	01/06/2010 16:00	R45013

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: 12-Jan-10

Client: Ecology and Environment Engineering P.C.

Client Sample ID: EFFLUENT

Lab ID: J0010-02

Project: Mr. C's Dry Cleaning

Collection Date: 01/05/10 14:30

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		101/08/2010 9:37	48447
SM 4500 pH -- pH VALUE							SM4500_H+
pH	7.9		1.0	S.U.		101/06/2010 16:05	R45013

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 Cost		Budget Remaining:		Electric:	\$25,800.00	ATTACHMENT C
NYSDEC Work Assignment #DC13				Telephone:	\$540.00	
12 Months of System Operation and Maintenance				Gas	\$551.98	
January 2010 Report				Total:	\$26,891.98	
January-10	648	648	100.00%	Capacity		
February-10			#DIV/0!	21.4%	Comments:	
March-10			#DIV/0!	Cold January		
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	648	648	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	\$	-				861376
Agway Electric	\$	-				
Mr. C's Gas	\$	168.02				
Mr. C's Telephone	\$	-				
Ave. Utility Cost Total	\$	168.02	times	12 month Estimate	\$2,184.26	