ecology and environment engineering, p.c.

BUFFALO CORPORATE CENTER
368 Pleasant View Drive, Lancaster, New York 14086
Tel: 716/684-8060, Fax: 716/684-0844

December 8, 2009

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
November 2009 Operations, Maintenance, and Monitoring Report

Dear Mr. Welling:

Ecology and Environment Engineering, P.C. (EEEPC) is pleased to provide the November, 2009 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 November 24, 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 November 2009, EEEPC offers the following comments and highlights:

Operational Summary

Mr. C's Site – Remedial Operations Information

- Based on analytical results for the November 3, 2009 sampling event, the 100% operational up-time, and a monthly process water volume of 625,832 gallons, the Mr. C's treatment system has effectively removed 6.96 lbs of targeted contaminants from the groundwater below the site in the month of November 2009.
- The analytical samples for the monthly compliance were taken on November 3, 2009. Excerpts from the Analytical Data package for the November 3, 2009 sampling event are presented in Table 1.
- The sampling results were received by EEEPC on November 24, 2009 (Attachment B). A review of the analytical data revealed the influent concentration detection limits to be 1333.4 ug/L or 1333.4 ppb, and 1.4 ug/L or 1.4 ppb of treated effluent.

- Overall cleanup efficiency for the reporting period 11/3/09 to 11/30/09 was 99.90%.
- 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 is presented in Table 2.
- Checklists for weekly system inspections from IEG are provided as Attachment A for, 11/3, 11/10, 11/16, 11/24 and 11/30/09.

Inspection Item	Range			Units
	Low	High	Recommended	
Air Stripper Differential Pressure	0.042	0.05	-	in. H_2O
Air Stripper Pressure	15.0	26.0	-	in. H_2O
Bag Filter gage pressure	0.0	11.6	15	psi
Feed rate for Redux sequestering agent	5.0	7.0	na	ml/min

Agway Site Remedial Information

- Road reconstruction continues in the frontage along Main Street in front of the Agway property. Equipment and construction materials have remained on the site along with increased traffic across the site.

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

- No current operational issues.

If you have questions regarding the November 2009 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 1/6/09)	**53,376.50**	**95.61%**
January 6, 2009 - February 2, 2009	672	100.00%
February 2, 2009 - March 5, 2009	600	80.65%
March 5, 2009 - April 2, 2009	672	100.00%
April 2, 2009 - May 4, 2009	768	100.00%
May 4, 2009 - June 2, 2009	696	100.00%
June 2, 2009 - July 7, 2009	840	100.00%
July 7, 2009- August 5, 2009	696	100.00%
August 5, 2009 - September 2, 2009	672	100.00%
September 2, 2009 - October 5, 2009	792	100.00%
October 5, 2009 - November 3, 2009	696	100.00%
November 3, 2009- November 30, 2009	648	100.00%
Total Hours	**61,128.50**	
Average Operational Up-time =		**95.93%**

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 2008	**9/5/02 - 1/6/09**	**98,903,150**
January 2009[3]	1/6/09 - 2/2/09	1,179,389
February 2009[3]	2/2/09 - 3/5/09	1,076,674
March 2009[3]	3/5/09 - 4/2/09	1,240,757
April 2009[3]	4/2/09 - 5/4/09	1,182,657
May 2009[3]	5/4/09 - 6/2/09	891,641
June 2009[3]	6/2/09 -7/7/09	599,957
July 2009[3]	7/7/09 - 8/5/09	503,759
August 2009[3]	8/5/09 - 9/2/09	594,592
September 2009[3]	9/2/09 - 10/5/09	664,557
October 2009[3]	10/5/09 - 11/3/09	684,816
November 2009[3]	11/3/09-11/30/09	625,832
December 2009[3]		
Total Gallons Treated in 2009		**9,244,631**
Total Gallons Treated To Date:		**108,147,781**

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
NYSDEC Site #9-15-157
November 2009 VOC Analytical Summary

Compound	Based on the 11/03/09 Effluent Sampling Results				
	Influent Concentration* (ug/L)		Effluent Concentration* (ug/L)		Cleanup Efficiency (%)
Acetone	ND (<5.0)	U	ND (<5.0)	U	NA
Benzene	ND (<5.0)	U	ND (<5.0)	U	NA
2-Butanone	ND (<5.0)	U	ND(<5.0)	U	NA
cis-1, 2-Dichloroethene	33.0		ND (<5.0)	U	100%
Methylene chloride	ND (<5.0)	U	ND (<5.0)	U	100%
Methyl tert-butyl ether (MTBE)	13.0		ND (<5.0)	U	100%
Tetrachloroethene	1200.0		ND (<5.0)	U	100%
Toluene	ND (<5.0)	U	ND (<5.0)	U	NA
Trichloroethene	72.0		ND (<5.0)	U	100%
Carbon Disulfide	ND (<5.0)	U	ND (<5.0)	U	NA
1,1,2 Trichloro-1,2,2-trifluororethane	ND (<5.0)	U	ND (<5.0)	U	NA
Cyclohexane	ND (<5.0)	U	ND (<5.0)	U	NA
trans-1,2-dichloroethene	1.2	J	ND (<5.0)	U	NA
Methylcyclohexane	ND (<5.0)	U	ND (<5.0)	U	NA
Methyl acetate	13		ND (<5.0)	U	NA
Total Xylenes	1.2	J	1.4	J	0
November 3, 2009 TOTALs (in ug/L) =	**1333.4**		**1.40**		**99.90%**

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 4
Mr. C's Dry Cleaners Site Remediation
Site #9-15-157
Effluent Discharge Criteria & Analytical Compliance Results

Parameter/Analyte	Daily Maximum[1]	Units	November 3, 2009 Effluent Analytical Values - Compliance
Flow		gpd	23,178.96
pH	6.0 - 9.0	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	ug/L	ND (<5.0)
o-Xylene[3]	5	µg/L	NA
m, p-Xylene[3]	10	µg/L	NA
Total Xylenes	NA	ug/L	1.4
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	510
Cyanide, Free	10	µg/L	NA[9]

NOTES:

1. "Daily Maximum" excerpted from Attachment E of Addendum 1 to the Construction Contract Documents dated October 2000.
2. Analytical report did not differentiate between o-Xylene and m, p-Xylene. Total Xylene value reported is given in each line.
3. Shaded cells indicate that analytical value exceeds the "Daily Maximum"
4. "ND" indicates that the compound was not detected and lists the practical quantitation limit in parentheses.
5. "NA" indicates that analyses were not performed and data is unavailable.
6. Average flows based on effluent readings taken November 3, 2009 through November 30, 2009. Total gallons: 625,832 divided by 27 operating days (648 actual operating hours).
7. "J" indicates an estimated value below the detection limit.
8. "B" indicates analyte found in the associated blank.
9. Removed from the required analysis list by NYSDEC Region 9 in February 2005.

40 Indicates non-compliance with the NYSDEC effluent discharge requirements
NR Indicates Not Reported by Lab

Table 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 2008 =				**1340.43**
January 2009	1/6/09-2/2/09	950	11.40	9.24
February 2009	2/2/09-3/5/09	1594	0.80	14.32
March 2009	3/5/09-4/2/09	1046	0.00	10.82
April 2009	4/2/10-5/4/09	1	1.40	8.59
May 2009	5/4/09 - 6/2/09	957	0.00	7.12
June 2009	6/2/09 - 7/7/09	732	53.00	3.40
July 2009	7/7/09 - 8/5/09	752	0.00	3.16
August 2009	8/5/09 - 9/2/08	1294	0.92	6.41
September 2009	9/2/09 - 10/5/09	1713	0.00	9.50
October 2009	10/5/09 - 11/3/09	1184	0.00	6.77
November 2009	11/3/09 - 11/30/09	1333	1.40	6.96
December 2009				
Total pounds of VOCs removed from inception to November 2009 =				**1,426.72**
Total pounds of VOCs removed in 2009 =				**86.29**

NOTES:
1. Calculations are based on monthly water samples and assumes samples are representative of the entire reporting period.
2. Calculations assume that non-detect values = 0 ug/L.
3. Total VOCs summations include estimated "J" values.
4. Calculations are based on effluent totalizer readings.
5. "Influent VOCs" and "Effluent VOCs" values given above is the summation of values for individual compounds given in monthly analytical reports.
6. No samples were collected in September 2003. August 2003 values are used.
7. Treatment system operated by Tyree Organization, Ltd. from 9/02 to 9/03.
8. Treatment system operated by O&M Enterprises from 10/03 to 7/07.
9. Treatment system operated by IEG from 7/07 to present.

CONVERSIONS:
1 pound = 453.5924 grams
1 gallon = 3.785 liters

Based on the Analytical Results from Each Month:
Pounds of VOCs removed calculated by the following formula:

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

Attachment A
IEG Weekly Inspection Reports
November 2009

Including:

11/3/09

11/10/09

11/16/09

11/24/09

11/30/09

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

DATE: 3-Nov-09 ACTIVITIES: Site Inspection

INSPECTION PERSONNEL: R. Allen, D. Iyer OTHER PERSONNEL: ------

WEATHER CONDITIONS: Sunny, cool OUTSIDE TEMPERATURE (°F): 55

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

PROVIDE WATER LEVEL READINGS ON CONTROL PANEL

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

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

NOTES:

INFLUENT FLOW RATE: 11 gpm INFLUENT TOTALIZER READING: 1,911,450.0 gallons

SEQUESTERING AGENT DRUM LEVEL: 17 inches (x 1.7=) AMOUNT OF AGENT REMAINING: 29 gallons

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

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

INFLUENT FEED PUMP IN USE: #1 #2 √ INFLUENT PUMP PRESSURE: 15 psi

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

AIR STRIPPER DIFFERENTIAL PRESSURE: 0.05 in. H_2O DISCHARGE PRESSURE: 1.4 in. H_2O

EFFLUENT PUMP IN USE: #1 √ #2 EFFLUENT FEED PUMP PRESSURE: 6.5 psi

EFFLUENT FLOW RATE: 87 gpm EFFLUENT TOTALIZER READING: 55,290,317 | 519000 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: 5.0 in. TREATMENT BUILDING CLEAN & ORGANIZED? YES: √ NO:

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

3-Nov-09

SAMPLES COLLECTED? YES: √ NO: _____

	Sample ID	Time of Sampling	pH	Turbidity	Temp.	Sp. Cond.
AIR STRIPPER INFLUENT:	INF	12:30 PM	7.24	10.98	12.8	2674
AIR STRIPPER EFFLUENT:	EFF	12:30 PM	8.55	8.00	13.0	2526

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.

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

Remarks: Took delivery of (3) Redux drums (11/2/09).

Other Actions:

AGWAY

SYSTEM VACUUM: -23 in. H_2O *AIR PRESSURE:* 90 psi

SP-1:	5.7 scfm	4.0 psi		SP-5	0.0 scfm	29.0 psi	
SP-2:	0.0 scfm	28.0 psi		SP-6	0.0 scfm	> 30 psi	
SP-3:	1.4 scfm	27.0 psi		SP-7	0.0 scfm	> 30 psi	
SP-4:	0.0 scfm	27.5 psi		SP-8	0.0 scfm	> 30 psi	

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

Remarks: Construction vehicles and equipment parked throughout the site.

Other Actions: SVE vacuum drum is dry.

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

DATE: 10-Nov-09 ACTIVITIES: Site Inspection

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

WEATHER CONDITIONS: Cloudy, cool OUTSIDE TEMPERATURE (°F): 52

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

PW-5 will not turn OFF. Raised transducer - tested OK.

PROVIDE WATER LEVEL READINGS ON CONTROL PANEL

RW-1	ON: √	OFF:	10 ft	PW-5	ON: √	OFF:	10 ft		
PW-2	ON:	OFF: √	6 ft	PW-6	ON:	OFF: √	7 ft		
PW-3	ON: √	OFF:	4 ft	PW-7	ON: √	OFF:	7 ft		
PW-4	ON:	OFF: √	6 ft	PW-8	ON:	OFF: √	6 ft		

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

NOTES:

INFLUENT FLOW RATE: 9 gpm INFLUENT TOTALIZER READING: 2,188,670.0 gallons

SEQUESTERING AGENT DRUM LEVEL: 17 inches (x 1.7=) AMOUNT OF AGENT REMAINING: 29 gallons

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

	Top	Bottom		Top	Bottom
BAG FILTER PRESSURES: LEFT:	0	0 psi	RIGHT:	5.5	0 psi

INFLUENT FEED PUMP IN USE: #1 #2 √ INFLUENT PUMP PRESSURE: 15 psi

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

AIR STRIPPER DIFFERENTIAL PRESSURE: 0.05 in. H_2O DISCHARGE PRESSURE: 1.4 in. H_2O

EFFLUENT PUMP IN USE: #1 √ #2 EFFLUENT FEED PUMP PRESSURE: 6.5 psi

EFFLUENT FLOW RATE: 87 gpm EFFLUENT TOTALIZER READING: 55,460,170 | 692860 gallons

ARE BUILDING HEATERS IN USE? YES: √ NO: INSIDE TEMPERATURE (°F): 65

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

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

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

10-Nov-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.

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

Remarks: Poured remainder of old Redux drum into present drum and rinsed out old drum. Have (3) full drums.

DRUMS: (4) Clean; (2) Dirty open top; (3) Dirty closed top. Recommend disposing of full open top drum.

Other Actions: Picked up trash around Treatment Room, Agway Shed and well groups.

Patched around PW-4 and PZ-4C with truck wash concrete.

AGWAY

SYSTEM VACUUM: -23 in. H_2O *AIR PRESSURE:* 90 psi

SP-1:	6.2 scfm	4.0 psi		SP-5	0.0 scfm	29.0 psi	
SP-2:	0.0 scfm	17.5 psi		SP-6	0.0 scfm	> 30 psi	
SP-3:	1.5 scfm	17.0 psi		SP-7	0.0 scfm	> 30 psi	
SP-4:	0.0 scfm	17.0 psi		SP-8	0.0 scfm	> 30 psi	

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

Remarks: Witnessed concrete truck driver wash trough over PZ-2C. Told (2) drivers to wash their trucks in the dead end.

Construction vehicles and equipment parked throughout the site. (3) ASTs containing epoxy (approx 400 gals ea)

Other Actions: Small amount of trash including rubber lab type gloves were left around group PW-3.

Drained 4 gals from SVE vacuum drum.

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

DATE: 16-Nov-09 ACTIVITIES: Site Inspection

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

WEATHER CONDITIONS: Cloudy, cool OUTSIDE TEMPERATURE (°F): 42

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

PROVIDE WATER LEVEL READINGS ON CONTROL PANEL

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

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

NOTES:

INFLUENT FLOW RATE: 32 gpm INFLUENT TOTALIZER READING: 2,415,197.0 gallons

SEQUESTERING AGENT DRUM LEVEL: 15 inches (x 1.7=) AMOUNT OF AGENT REMAINING: 25.5 gallons

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

		Top	Bottom		Top	Bottom
BAG FILTER PRESSURES:	LEFT:	0	0 psi	RIGHT:	11-6	0 psi

INFLUENT FEED PUMP IN USE: #1 #2 √ INFLUENT PUMP PRESSURE: 15 psi

AIR STRIPPER BLOWER IN USE: #1 #2 √ AIR STRIPPER PRESSURE: 19.0 in. H_2O

AIR STRIPPER DIFFERENTIAL PRESSURE: 86 in. H_2O DISCHARGE PRESSURE: 1.4 in. H_2O

EFFLUENT PUMP IN USE: #1 √ #2 EFFLUENT FEED PUMP PRESSURE: 9.0 psi

EFFLUENT FLOW RATE: 86 gpm EFFLUENT TOTALIZER READING: 55,598,522 | 834510 gallons

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

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

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

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

16-Nov-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.

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

Remarks:

Other Actions:

AGWAY

SYSTEM VACUUM: -23 in. H_2O , *AIR PRESSURE:* 100 psi

SP-1:	6.6 scfm	3.5 psi		SP-5	0.0 scfm	29.0 psi	
SP-2:	0.0 scfm	24.0 psi		SP-6	0.0 scfm	> 30 psi	
SP-3:	2.7 scfm	22.0 psi		SP-7	0.0 scfm	> 30 psi	
SP-4:	0.0 scfm	23.5 psi		SP-8	0.0 scfm	> 30 psi	

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

Remarks: Construction vehicles and equipment parked throughout the site.

Other Actions: Drained 2 gals from SVE vacuum drum.

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

DATE: 24-Nov-09 ACTIVITIES: Site Inspection

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

WEATHER CONDITIONS: Cloudy, cool OUTSIDE TEMPERATURE (°F): 50

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

PW-5 runs continuously at level 3 on the PanelView. Turned PW-5 OFF.

PROVIDE WATER LEVEL READINGS ON CONTROL PANEL

RW-1	ON: ____	OFF: √	11 ft	PW-5	ON: √	OFF: ____	3 ft
PW-2	ON: ____	OFF: √	7 ft	PW-6	ON: ____	OFF: √	4 ft
PW-3	ON: ____	OFF: √	3 ft	PW-7	ON: ____	OFF: √	7 ft
PW-4	ON: ____	OFF: √	5 ft	PW-8	ON: ____	OFF: √	5 ft

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

NOTES: ____

INFLUENT FLOW RATE: 39 gpm INFLUENT TOTALIZER READING: 2,723,447.0 gallons

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

SEQUESTERING AGENT FEED RATE: 7.0 ml/min METERING PUMP PRESSURE: 3.0 psi

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

INFLUENT FEED PUMP IN USE: #1 ____ #2 √ INFLUENT PUMP PRESSURE: 15 psi

AIR STRIPPER BLOWER IN USE: #1 ____ #2 √ AIR STRIPPER PRESSURE: 25.0 in. H_2O

AIR STRIPPER DIFFERENTIAL PRESSURE: 0.045 in. H_2O DISCHARGE PRESSURE: 1.3 in. H_2O

EFFLUENT PUMP IN USE: #1 √ #2 ____ EFFLUENT FEED PUMP PRESSURE: 8.5 psi

EFFLUENT FLOW RATE: 84 gpm EFFLUENT TOTALIZER READING: 55,786,432 | 26700 gallons

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

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

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

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

24-Nov-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. Some puddles are present from recent rain.

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

Remarks: Redux line "T" corroded apart, Replaced "T" in redux line. Set Redux pump at: Left 2.5; Right 1.5.

Other Actions:

AGWAY

SYSTEM VACUUM: -24 in. H_2O *AIR PRESSURE:* 40 psi

SP-1:	5.7 scfm	3.0 psi		SP-5	0.0 scfm	29.0 psi	
SP-2:	0.0 scfm	19.0 psi		SP-6	0.0 scfm	> 30 psi	
SP-3:	2.8 scfm	18.0 psi		SP-7	0.0 scfm	> 30 psi	
SP-4:	0.0 scfm	18.0 psi		SP-8	0.0 scfm	> 30 psi	

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

Remarks: Construction vehicles and equipment parked throughout the site.

Puddle with sheen is present around PW-2 and PZ-2A.

Other Actions:

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

DATE: 30-Nov-09 ACTIVITIES: Site Inspection

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

WEATHER CONDITIONS: Cloudy, cool OUTSIDE TEMPERATURE (°F): 40

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

PW-5 is OFF due to maintenance problem.

PROVIDE WATER LEVEL READINGS ON CONTROL PANEL

RW-1	ON: ____	OFF: √	6 ft	PW-5	ON: √	OFF: ____	10 ft
PW-2	ON: √	OFF: ____	6 ft	PW-6	ON: ____	OFF: √	4 ft
PW-3	ON: ____	OFF: √	6 ft	PW-7	ON: ____	OFF: √	7 ft
PW-4	ON: ____	OFF: √	7 ft	PW-8	ON: ____	OFF: √	5 ft

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

NOTES: PW-5 reads ON at the PanelView despite being switched OFF.

INFLUENT FLOW RATE: 24 gpm INFLUENT TOTALIZER READING: 2,937,614.0 gallons

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

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

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

INFLUENT FEED PUMP IN USE: #1 ____ #2 √ INFLUENT PUMP PRESSURE: 15 psi

AIR STRIPPER BLOWER IN USE: #1 ____ #2 √ AIR STRIPPER PRESSURE: 26.0 in. H_2O

AIR STRIPPER DIFFERENTIAL PRESSURE: 0.042 in. H_2O DISCHARGE PRESSURE: 1.5 in. H_2O

EFFLUENT PUMP IN USE: #1 √ #2 ____ EFFLUENT FEED PUMP PRESSURE: 7.0 psi

EFFLUENT FLOW RATE: 88 gpm EFFLUENT TOTALIZER READING: 55,916,149 | 159190 gallons

ARE BUILDING HEATERS IN USE? YES: √ NO: ____ INSIDE TEMPERATURE (°F): 64

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

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

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

30-Nov-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. Some MWs and UEs are covered with puddles from recent rain.

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

Remarks:

Other Actions: Changed bag filters.

AGWAY

SYSTEM VACUUM: -23 in. H_2O *AIR PRESSURE:* 10 psi

SP-1:	6.3	scfm 12.0	psi	SP-5	0.0	scfm 29.0	psi
SP-2:	0.0	scfm 12.0	psi	SP-6	0.0	scfm > 30	psi
SP-3:	1.2	scfm 11.5	psi	SP-7	0.0	scfm > 30	psi
SP-4:	0.0	scfm 11.5	psi	SP-8	0.0	scfm > 30	psi

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

Remarks: Construction equipment and vehicles parked throughout the site.

Other Actions: Drained 2 gals from SVE vacuum drum.

Covered (4) of the (6) vents in the Agway Shed.

MR. C's DRY CLEANERS SITE
NYSDEC Site #9-15-157

OM&M: PIEZOMETER WATER LEVEL LOG

Date: 2-Dec-09 **Measurements taken by:** R. Allen

RW-1	18.80 ft	Comments:	
PZ-1A	11.35 ft	Comments:	
PZ-1B	10.61 ft	Comments:	
PZ-1C	12.23 ft	Comments:	
PZ-1D	12.35 ft	Comments:	
PW-2	17.80 ft	Comments:	pushed down
PZ-2A	10.91 ft	Comments:	pushed down
PZ-2B	11.30 ft	Comments:	pushed down
PZ-2C	10.72 ft	Comments:	
MW-7	11.22 ft	Comments:	Substitute for 2D
PW-3	19.80 ft	Comments:	
PZ-3A	11.39 ft	Comments:	
PZ-3B	11.46 ft	Comments:	
PZ-3C	11.91 ft	Comments:	
PZ-3D	11.52 ft	Comments:	pushed down
PW-4	20.70 ft	Comments:	
PZ-4A	11.51 ft	Comments:	
PZ-4B	10.85 ft	Comments:	
PZ-4C	----- ft	Comments:	
PZ-4D	10.40 ft	Comments:	damaged

PW-5	10.40 ft	Comments:	
PZ-5A	10.33 ft	Comments:	
PZ-5B	10.70 ft	Comments:	
PZ-5C	10.38 ft	Comments:	
PZ-5D	11.03 ft	Comments:	
PW-6	19.00 ft	Comments:	
PZ-6A	11.65 ft	Comments:	
PZ-6B	11.47 ft	Comments:	
PZ-6C	11.75 ft	Comments:	
PZ-6D	11.36 ft	Comments:	Shown as RW-2 on map
PW-7	20.00 ft	Comments:	
MPI-6S	11.16 ft	Comments:	
PZ-7B	11.61 ft	Comments:	
OW-B	11.36 ft	Comments:	
PZ-7D	11.16 ft	Comments:	
PW-8	18.80 ft	Comments:	
PZ-8A	8.20 ft	Comments:	
PZ-8B	8.14 ft	Comments:	
PZ-8C	7.78 ft	Comments:	
PZ-8D	8.06 ft	Comments:	

PUMPS IN OPERATION DURING MEASUREMENTS

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

Mr. C's CLEANERS OM&M

SUMMARY OF FIELD ACTIVITIES BY IEG - 11/2009

DATE	ACTIVITY
2-Nov	Take delivery of Redux Drums.
3-Nov	OM&M Weekly Inspection and office work. Get supplies.
4-Nov	OM&M office work.
9-Nov	Piezometer Readings. MW Damage Report. PW-5 - inspect and clean transducer.
10-Nov	OM&M Weekly Inspection and office work. Picked up trash around well groups.
16-Nov	OM&M Weekly Inspection and office work.
24-Nov	OM&M Weekly Inspection and office work. Get supplies. Repair Redux line.
30-Nov	OM&M Weekly Inspection. Mobilize utility trailer. Seal Agway Shed vents. Change bag filters.

Mr. C's CLEANERS OM&M
STATUS OF OM&M ACTIVITIES BY IEG

as of 11/30/09

ACTIVITY	DESCRIPTION	COMPLETION DATE/STATUS
Repair PW-6	PW-6 does not turn off and water level remains high in well even when switch is turned to HAND. Pull pump and transducer and inspect. Replace aneroid bellows and transducer.	Sep-09
Repair PW-2	Pump did not shut off even when water level was pumped down. Cleaned transducer. Tested bad. Replace bad transducer. Replace dessicant tube with aneroid bellows.	Sep-09
Instal NO PARKING signs on Agway Shed	Construction vehicles and others repeatedly park over Monitoring Well groups PW-2 and PW-3. Vehicles are also parked too close to the shed. Hang NO PARKING signs on three sides of the Agway Shed.	Sep-09
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
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.	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
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 PW-5	PW-5 well pump will not shut off when low water level is reached. Inspect, purge well, clean pump, plastic pipe and transducer. Trouble shoot problem.	in progress
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

Mr. C's CLEANERS OM&M

SUMMARY OF WATER PUMP STATUS - 2009

as of Nov 09

ID	CLEANED & INSPECTED PUMP	NEEDS NEW PUMP	PIPE & PITLESS ADAPTER	NEEDS WELL CLEAN-OUT	CLEANED & INSPECTED TRANSDUCER	NEEDS NEW TRANSDUCER	CLEANED & INSPECTED U.E.	NEEDS ANEROID BELLOWS	U.E. CLOGGED	NEEDS REPAIR
RW - 1	NO	NO		YES	NO	NO		YES	NO	YES - bolts
PW - 2	YES	NO		DONE 8/09	YES 7/09	DONE 9/09		DONE 9/09	NO	YES - bolts
PW - 3	YES	NO	REPAIRED 8/09	DONE 8/09	NO	NO		YES	NO	NO
PW - 4	YES 9/09	NO		DONE 9/09	YES 9/09	DONE	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	YES	DONE 8/09	Replaced pipe 8/09	DONE 8/09	YES 7/09	YES	YES 9/09	DONE 9/09	NO	DONE
PW - 7	YES	DONE 8/09	Replaced pipe 8/09	DONE 8/09	YES 7/09	NO		DONE	NO	NO
PW - 8	YES	DONE 9/09	Replaced pipe 8/09	DONE 8/09	YES 7/09	NO		YES	NO	NO

Mr. C's CLEANERS OM&M

SUMMARY OF WATER PUMP MAINTENANCE BY IEG

as of Nov 09

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	Jan-08	Feb-08	Nov-08		Jan 08, Nov 08				Jun-08	Jul-08
PW - 2	Jun08, Aug 09	Jul-08			Jun 08, Aug 09	Sep-09		Jul 08, Aug 09	Jun-08	Sep-09
PW - 3	Jun 08, Aug 09	Jul-08		Repair adapter	Jun 08, Aug 09			Jul 08, Aug 09	Jun-08	
PW - 4	Dec 07, May 08, Sep 09	Dec-07			Dec-07	Mar 08, Sep 08	Sep-08	Jul 09, Sep 09	May 08, Sep 08, Sep 09	Mar 08, Sep 09
PW - 5	May-08	Jul-08			Jun 08, Aug 08, Sep 09	Sep-08	Sep-09	Jul-08	May 08, Aug 08	Aug-08
PW - 6	Jun 08, Jul 09	Jun 08, Jul 09		Replace pipe 8/09	Jun 08, Apr 09, Aug 09	Sep-09	Jun-08	Jul 08, Aug 09	Jun 08, Aug 09, Sep 09	Jul 08, Jul 09, Sep 09
PW - 7	Jun 08, Jul 09	Nov 07, Jul 09		Replace pipe 8/09	Jun 08, Aug 09		Jun-08	Jul 08, Aug 09	Jun-08	Jun-08
PW - 8	Jun 08, Aug 09	Jul 08, Sep 09		Replace pipe 8/09	Jun 08, Aug 09			Jul 08, Aug 09	May-08	May-08

Attachment B
Analytical Report from Mitkem Laboratories

Analytical Data Package Work Order ID: H2186
Sampled: November 3, 2009

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

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

Mitkem Work Order ID: H2186

November 24, 2009

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 November 4, 2009. 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:

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

- M1 peak tailing or fronting.
- M2 peak co-elution.
- M3 rising or falling baseline.
- M4 retention time shift.
- M5 miscellaneous – under this category, the justification is explained.
- M6 software did not integrate peak
- M7 partial peak integration

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 V1: OI Analytical #10 trap containing 8 cm each of Tenax, silica gel and carbon molecular sieve.

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

Aqueous samples were hydrochloric acid preserved, pH <2.

Surrogate recovery: recoveries were within the QC limits.

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

Sample analysis: due to high concentration of tetrachloroethene, sample INFLUENT was re-analyzed at 8x dilution. No other unusual observation was made for this analysis.

2. Wet Chemistry Analyses:

Duplicate analysis: duplicate analysis was performed on sample INFLUENT for pH analysis. Replicate RPDs were within the QC limits.

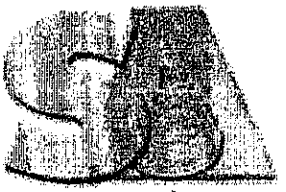
Sample analysis: no unusual observation was made for the analysis.

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.

Shirley Ng
Project Manager
11/24/09

MITKEM
LABORATORIES



* Volatiles *

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

INFLUENT

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: H2186 Mod. Ref No.: SDG No.: SH2186

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: H2186-01A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1K8791.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/04/2009

% Moisture: not dec. Date Analyzed: 11/09/2009

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	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	1.2	J
1634-04-4	Methyl tert-butyl ether	13	
75-34-3	1,1-Dichloroethane	5.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	33	
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	72	
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	850	E
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)	1.2	J

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

INFLUENT

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: H2186 Mod. Ref No.: SDG No.: SH2186

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: H2186-01A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1K8791.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/04/2009

% Moisture: not dec. Date Analyzed: 11/09/2009

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-42-5	Styrene	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	13	
108-87-2	Methylcyclohexane	5.0	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

INFLUENTDL

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: H2186 Mod. Ref No.: SDG No.: SH2186

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: H2186-01ADL

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1K8822.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/04/2009

% Moisture: not dec. Date Analyzed: 11/10/2009

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 8.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	40	U
74-87-3	Chloromethane	40	U
75-01-4	Vinyl chloride	40	U
74-83-9	Bromomethane	40	U
75-00-3	Chloroethane	40	U
75-69-4	Trichlorofluoromethane	40	U
75-35-4	1,1-Dichloroethene	40	U
67-64-1	Acetone	40	U
75-15-0	Carbon disulfide	40	U
75-09-2	Methylene chloride	40	U
156-60-5	trans-1,2-Dichloroethene	40	U
1634-04-4	Methyl tert-butyl ether	13	DJ
75-34-3	1,1-Dichloroethane	40	U
78-93-3	2-Butanone	40	U
156-59-2	cis-1,2-Dichloroethene	28	DJ
67-66-3	Chloroform	40	U
71-55-6	1,1,1-Trichloroethane	40	U
56-23-5	Carbon tetrachloride	40	U
107-06-2	1,2-Dichloroethane	40	U
71-43-2	Benzene	40	U
79-01-6	Trichloroethene	63	D
78-87-5	1,2-Dichloropropane	40	U
75-27-4	Bromodichloromethane	40	U
10061-01-5	cis-1,3-Dichloropropene	40	U
108-10-1	4-Methyl-2-pentanone	40	U
108-88-3	Toluene	40	U
10061-02-6	trans-1,3-Dichloropropene	40	U
79-00-5	1,1,2-Trichloroethane	40	U
127-18-4	Tetrachloroethene	1200	D
591-78-6	2-Hexanone	40	U
124-48-1	Dibromochloromethane	40	U
106-93-4	1,2-Dibromoethane	40	U
108-90-7	Chlorobenzene	40	U
100-41-4	Ethylbenzene	40	U
1330-20-7	Xylene (Total)	40	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

INFLUENTDL

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: H2186 Mod. Ref No.: SDG No.: SH2186

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: H2186-01ADL

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1K8822.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/04/2009

% Moisture: not dec. Date Analyzed: 11/10/2009

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 8.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-42-5	Styrene	40	U
75-25-2	Bromoform	40	U
98-82-8	Isopropylbenzene	40	U
79-34-5	1,1,2,2-Tetrachloroethane	40	U
541-73-1	1,3-Dichlorobenzene	40	U
106-46-7	1,4-Dichlorobenzene	40	U
95-50-1	1,2-Dichlorobenzene	40	U
96-12-8	1,2-Dibromo-3-chloropropane	40	U
120-82-1	1,2,4-Trichlorobenzene	40	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	40	U
110-82-7	Cyclohexane	40	U
79-20-9	Methyl acetate	12	DJ
108-87-2	Methylcyclohexane	40	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EFFLUENT

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: H2186 Mod. Ref No.: SDG No.: SH2186

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: H2186-02A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1K8790.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/04/2009

% Moisture: not dec. Date Analyzed: 11/09/2009

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	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)	1.4	J

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EFFLUENT

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: H2186 Mod. Ref No.: SDG No.: SH2186

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: H2186-02A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V1K8790.D

Level: (TRACE/LOW/MED) LOW Date Received: 11/04/2009

% Moisture: not dec. Date Analyzed: 11/09/2009

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-42-5	Styrene	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

Attachment C

Summary of Site Utility Costs and Projections
January to November 2009

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

ATTACHMENT C

NYSDEC Work Assignment #DC13.02.01.01

12 Months of System Operation and Maintenance

November 2009 Report

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

Gas, Telephone, and Electric

Utility Provider	Account #	E&E Cost Center	Description	Jan-2009	Feb-2009	Mar-2009	Apr-2009	May-2009	Jun-2009			
New York State E&G	06-311-11-002616-26	002700.DC13.02.01	Mr. C's Electric Costs	$740.05	$ 634.16	$ 815.68	$ 852.65	$ 801.67	$ 885.89			
New York State E&G	76-311-11-015900-18		Agway Site - Electric		$ 665.80			$379.43	$511.97			
National Fuel Gas	5819628-05	002700.DC13.02.01	Mr. C's Natural Gas Costs	$160.91	$ 134.62							
			Totals	$ 900.96	$ 1,434.58	$ 815.68	$ 852.65	$ 1,181.10	$ 1,397.86			
				Jul-2009	Aug-2009	Sep-2009	Oct-2009	Nov-2009	Dec-2009			Ave. /Month
			Mr. C's Electric Costs	$906.13	$ 854.11	$ 823.52	$ 942.00					$ 825.79
			Agway Electric	$489.42			$473.39					$ 210.00
			Mr. C's Natural Gas Costs									$ 29.55
			Totals	$1,395.55	$ 854.11	$ 823.52	$ 1,415.39	$ -	$ -			$ 1,065.34
			Electric		$10,775.87							
			Natural Gas		$ 295.53			Overbilled natural gas costs - no charges				
		Grand Total - NYSE&G/National Fuel Gas Costs To Date		$ 11,071.40				Estimated Reading		$ 333.44	in red -adjusted billing	

Phone

Utility Provider	Phone #	E&E Cost Center	Location Description	Jan-2009	Feb-2009	Mar-2009	Apr-2009	May-2009	Jun-2009			
Verizon	716-652-0094	002700.DC13.02.01	Mr. C's Telephone Costs	$ 29.86	$ 28.89	$ 28.95	$ 28.95	$ 29.01	$ 29.32			
Account#												
716 652 0094 416 26 2												
				Jul-2009	Aug-2009	Sep-2009	Oct-2009	Nov-2009	Dec-2008			Ave./Month
				$ 29.01	$ 28.84	$ 40.87	$ 30.43					$ 30.41
		Grand Total - Verizon Costs to Date		$ 304.13								
		Grand Total All Utilities To Date		$ 11,375.53								

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

NYSDEC Work Assignment #DC13

12 Months of System Operation and Maintenance

November 2009 Report

Budget Remaining:

Electric:	$15,024.13
Telephone:	$235.87
Gas	$424.47
Total:	$15,684.47

ATTACHMENT C

January-09	672	672	100.00%	37.5%	
February-09	744	600	80.65%	38.3%	Effluent Corrective Action - Air Stripper Cleanup
March-09	672	672	100.00%	37.6%	
April-09	768	768	100.00%	32.9%	
May-09	696	696	100.00%	27.4%	Dry month - Full operations
June-09	840	840	100.00%	15.3%	
July-09	696	696	100.00%	15.5%	Two pumps under repair.
August-09	672	672	100.00%	18.9%	Repairs on two level transducers.
September-09	792	792	100.00%	17.9%	Extremely dry month
October-09	696	696	100.00%	21.0%	Wetter month
November-09	648	648	100.00%	20.6%	
December-09					
Totals to Date	**7896**	**7752**	**98.18%**		

* Percent Capacity is based on initial operating groundwater flows from the eight installed pumps from 9/02. Evaluated on total gallonsdischargedfor monthly operating time.

Maximum pump discharges calculated as an average of 78 gpm as the total for all 8 pumps at the site if all pumps operate 100%. With the exception of groundwater pump RW-1, all others run on a batch basis.

Monthly Average Costs

Mr. C's Electric	**$ 825.79**			
Agway Electric	**$ 210.00**			
Mr. C's Gas	**$ 29.55**			
Mr. C's Telephone	**$ 30.41**			
Ave. Utility Cost Total	**$ 1,095.75**	**times**	**12 month Estimate**	**$14,244.79**