ecology and environment engineering, p.c.

BUFFALO CORPORATE CENTER
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June 10, 2005

Mr. David Chiusano, Project Manager
New York State Department of Environmental Conservation
Division of Environmental Remediation
Bureau of Construction Services
625 Broadway, 12th Floor
Albany, New York 12233 - 7010

Re: Mr. C's Dry Cleaners Site, Contract # D003493-27.5, Site # 9-15-157
May 2005 Operations, Maintenance, and Monitoring Report

Dear Mr. Chiusano:

Ecology and Environment Engineering, P.C. (EEEPC) is pleased to provide this May 2005 Operation, 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 from EEEPC's subcontractor O&M Enterprises, Inc. (OMEI) are provided as Attachment A. Selected pages from the individual analytical data packages prepared by Severn - Trent Laboratories (STL) are provided as Attachments B. All analytical results for the report were analyzed at the lowest detection limits in accordance with the method standard. Remedial treatment system utility costs are provided as Attachment C.

In review of the on-site treatment system operations, monitoring and maintenance for May 2005, EEEPC offers the following comments and highlights:

Operational Summary

- The treatment system was operational for approximately 91% of the period between 5/2/05 and 6/6/05. The system was shutdown on May 16, 2005 for approximately 3 days in order to clean the stripper trays. The trays were again heavily fouled with mineral deposits. The system was not re-started until Thursday, May 19 when the new, approved sequestering agent (Redux 380 by Redux Technologies) was delivered and brought online. Table 1 is provided to indicate the monthly operational time of the treatment equipment from the time of system startup.
- The effluent totalizer readings for the month of May 2005 indicate that approximately 1,423,099 gallons of groundwater were processed through the treatment system from 5/2/05 through 6/6/05. Table 2 provides a summary of groundwater volume treated since system start-up. Historical volumes are based on totalizer readings provided by the O&M subcontractor's weekly inspection forms.
- Filters in the bag filter unit were replaced during weekly inspections on 4/4/05, 4/11/05, 4/18/05, 4/25/05 and 5/2/05.
- Checklists for weekly system inspections from OMEI are provided as Attachment A for 5/9/05 and 6/6/05. Prior to the installation of the new sequestering agent,

weekly system checks indicated that the air stripper differential pressure and vacuum had increased over the month. After installation, the differential pressure has increased very little.

- OMEI is in the process of optimizing the feed rate of the new sequestering agent.
- A copy of the site utility costs from EEEPC operations from October 2004 to date is provided as Attachment C.

Analytical Summary - Groundwater

- EEEPC and OMEI personnel collected weekly samples of influent and effluent groundwater on 5/23/05 for the reporting period (5/2/05 to 6/6/05) as part of the normal O&M services. At the request of the Department the lowest possible method detection limits were used for the analysis. The results are discussed below.
- The VOCs detected in the influent and effluent groundwater during the May 2005 sampling events are presented in Table 3.
- The May 2005 analytical results indicate that the treated groundwater effluent was below the the Effluent Limitation Requirements for all compounds including PCE. A comparison between the May 2005 analytical results and the Effluent Limitation Requirements for the site are provided in Table 4.
- Approximately 13.2 pounds of VOCs were removed from the influent groundwater based on calculations using the effluent discharge analytical results during the reporting period. A summary of the calculated removal volumes is located in Table 5. These values are calculated based on effluent totalizer readings and assumes that non-detect values given in the analytical data package = 0 µg/L and that the monthly samples are indicative of the influent characteristics and system performance for the entire reporting period.
- The Agway/Matrix system became operational in April 2005. OMEI continues to review the system operations on a weekly basis. All air sparge points seem to be functional except for one point in the north area of the field.
- EEEPC proposes to purge and sample the onsite wells in September 2005 to evaluate the cleanup.

If you have any questions regarding the May 2005 O&M report summary submitted, please call me a 716-684-8060.

Very Truly Yours,

Michael G. Steffan

Michael G. Steffan
Project Manager
Ecology and Environment Engineering, P. C.

cc: D. Szymanski/G. Sutton, Region 9, NYSDEC - Buffalo w/o attachments
R. Becken, O&M Enterprises w/o attachments
D. Miller, E&E-Buffalo w/o attachments
CTF- 000699.NY06.05

Table 1
Mr. C's Dry Cleaners Site Remediation
Site #9-15-157
System Operational Time

Month	Reporting Hours	Operational Up-time
September 2002	576	100%
October 2002	744	99.33%
November 2002	720	93.41%
December 2002	744	80.65%
January 2003	744	59.15%
February 2003	672	63.39%
March 2003	744	82.39%
April 2003	720	100%
May 2003	744	100%
June 2003	720	90.00%
July 2003	744	100%
August 2003	744	100%
September 1-4, 2003	96	100%
October 22 -29, 2003	168	100%
October 29 - November 25, 2003	648	99%
November 25 - December 29, 2003	816	100%
December 29, 2003 – January 26, 2004	672	100%
January 26 – February 24, 2004	696	100%
February 24 – March 29, 2004	816	99.97%
March 29 – April 26, 2004	672	99.70%
April 26 – May 24, 2004	696	73.70%
May 24 – June 21, 2004	696	99.43%
June 22 – July 26, 2004	840	100%
July 27 – August 23, 2004	672	100%
August 23 - September 27, 2004	840	97.62%
September 27 - October 25, 2004	672	90.33%
October 25 - November 23, 2004	696	92.17%
November 23 - December 27, 2004	816	97.06%
December 27, 2004 - January 31, 2005	840	100%
January 31, 2005 - February 28, 2005	660	98.20%
February 28, 2005 - April 4, 2005	828	98.60%
April 4, 2005 - May 2, 2005	696	87.50%
May 2, 2005 - June 6, 2005	840	91.43%
Average Operational Up-time =		**93.73%**

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 - present.

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

Month	Actual Period	Gallons
September 2002[1]	9/5/02 - 10/2/02	4,362,477
October 2002[1]	10/2/02 - 11/4/02	4,290,429
November 2002[1]	11/4/02 - 12/2/02	3,326,126
December 2002[1]	12/2/02 - 1/7/03	3,349,029
January 2003[1]	1/7/03 - 2/3/03	1,973,144
February 2003[1]	2/3/03 - 3/10/03	2,158,771
March 2003[1]	3/10/03 - 4/7/03	3,263,897
April 2003[1]	4/7/03 - 5/2/03	2,574,928
May 2003[1]	5/2/03 - 6/2/03	1,652,538
June 2003[1]	6/2/03 - 6/30/03	2,002,990
July 2003[1]	6/30/03 - 7/29/03	2,543,978
August 2003[1]	7/29/03 - 8/25/03	2,042,424
September 2003[1]	8/25/03 - 10/22/03	370,446
October 2003[2]	10/22/03 - 10/29/03	67,424
November 2003[2]	10/29/03 - 11/25/03	224,278
December 2003[2]	11/25/03 - 12/29/03	1,496,271
January 2004[2]	12/29/03 - 01/26/04	688,034
February 2004[2]	01/26/04 - 02/24/04	736,288
March 2004[2]	02/24/04 - 03/29/04	2,164,569
April 2004[2]	03/29/04 - 04/26/04	1,741,730
May 2004[2]	4/26/2004 - 5/24/2004	1,408,095
June 2004[2]	5/24/2004 - 6/21/2004	972,132
July 2004[2]	6/22/2004 - 7/26/2004	1,858,790
August 2004[2]	7/27/04 - 8/23/04	1,289,960
September 2004[2]	8/23/04 - 9/27/04	1,201,913
October 2004[2]	9/27/04 - 10/25/04	937,560
November 2004[2]	10/25/04 - 11/23/04	1,098,158
December 2004[2]	11/23/04 - 12/27/04	1,556,063
January 2005[2]	12/27/04 - 1/31/05	1,798,238
February 2005[2]	1/31/05 -2/28/05	1,271,562
March 2005[2]	2/28/05 - 4/4/05	1,295,692
April 2005[2]	4/4/05 - 5/2/05	1,652,510
May 2005[2]	5/2/05 - 6/6/05	1,423,099
	TOTAL GALLONS	**58,793,543**

NOTES:
1. System operated by Tyree Organization Ltd. From 9/02 - 9/03
2. System operated by O&M Enterprises from 10/03 - present

Table 3
Mr. C's Dry Cleaners Site Remediation
NYSDEC Site #9-15-157
May 2005 VOC Analytical Summary

Compound	May 23, 2005		
	Influent Concentration (µg/L)	Effluent Concentration (µg/L)	Cleanup Efficiency (%)
Acetone	ND (<250)	280	NA
2-Butanone	ND (<250)	23	NA
Methylene chloride	ND (<50)	6.2	NA
Methyl tert-butyl ether	ND (<50)	1.2	NA
Tetrachloroethene	1400	3.7	99.74%
Toluene	ND (<50)	3.3	NA
Trichloroethene	31 J	0.41 J	98.68%
Total Xylenes	ND (<150)	0.73 J	NA
May TOTAL (in ug/L) =	**1431**	**319**	

Notes:
1. "NA" = Not applicable
2. "ND" = Non-detect and lists the 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

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

Parameter	Daily Maximum[1]	Units	May 23, 2005 Effluent Analytical Values
Flow	216,000	gpd	44,471.8 gpd [6]
pH	6.0 - 9.0	standard units	8.22
1,1 Dichloroethene	10	µg/L	ND (<1.0)
1,2 Dichloroethane	10	µg/L	ND (<1.0)
Trichloroethene	10	µg/L	0.41
Tetrachloroethene	10	µg/L	3.7
Vinyl Chloride	10	µg/L	ND (<1.0)
Benzene	5	µg/L	ND (<1.0)
Ethylbenzene	5	µg/L	ND (<1.0)
Methylene Chloride	10	µg/L	6.2
1,1,1 Trichloroethane	10	µg/L	ND (<1.0)
Toluene	5	µg/L	3.3
Methyl-t-Butyl Ether (MTBE)	NA	ug/L	1.2
o-Xylene[3]	5	µg/L	NA
m, p-Xylene[3]	10	µg/L	NA
Total Xylenes	NA	ug/L	NA
Iron, total	600	µg/L	NA
Aluminum	4,000	µg/L	NA
Copper	48	µg/L	NA
Lead	11	µg/L	NA
Manganese	2,000	µg/L	NA
Silver	100	µg/L	NA
Vanadium	28	µg/L	NA
Zinc	230	µg/L	NA
Total Dissolved Solids	850	mg/L	NA
Total Suspended Solids	20	mg/L	NA
Hardness	N/A	mg/l	496
Cyanide, Free	10	µg/L	NA

NOTES:

1. "Daily Maximum" excerpted from Attachment E of Addendum 1 to the Construction Contract Documents.
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 May 2, 2005 through June 6, 2005. Total gallons 1,423,099 divided by 32 operating days.

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.)
September 2002[6]	9/5/02 - 10/2/02	1297	1	47.2
October 2002[6]	10/2/02 - 11/4/02	2000	1	71.6
November 2002[6]	11/4/02 - 12/2/02	1685	0	46.8
December 2002[6]	12/2/02 - 1/7/03	1586	9	44.1
January 2003[6]	1/7/03 - 2/3/03	1803	10	29.5
February 2003[6]	2/3/03 - 3/10/03	1985	3	35.7
March 2003[6]	3/10/03 - 4/7/03	1990	5	54.1
April 2003[6]	4/7/03 - 5/2/03	1656	3	35.5
May 2003[6]	5/2/03 - 6/2/03	1623	7	22.3
June 2003[6]	6/2/03 - 6/30/03	5787	6	96.6
July 2003[6]	6/30/03 - 7/29/03	1356	1	28.8
August 2003[6]	7/29/03 - 8/25/03	1263	3	21.5
September 2003[6]	8/25/03 - 10/22/03	1263	3	3.9
October 2003[7]	10/22/03 - 10/29/03	1693.69	1.47	1.0
November 2003[7]	10/29/03 - 11/25/03	2510.83	4.4	4.7
December 2003[7]	11/25/03 - 12/29/03	503.3	10.5	6.2
January 2004[7]	12/29/03 - 01/26/04	3667	15.8	21.0
February 2004[7]	01/26/04 - 02/24/04	3348.6	26.7	20.4
March 2004[7]	02/24/04 - 03/29/04	1939.3	4.96	34.9
April 2004[7]	03/29/04 - 04/26/04	2255	0.0	32.8
May 2004[7]	4/26/2004 - 5/24/2004	2641	13.3	30.9
June 2004[7]	5/24/2004 - 6/21/2004	1454	1.7	22.5
July 2004[7]	6/22/2004 - 7/26/2004	1313	3.6	20.3
August 2004[7]	7/27/04 - 8/23/04	2305	7.4	24.7
September 2004[7]	8/23/04 - 9/27/04	1453	6.7	14.5
October 2004[7]	9/27/04 - 10/25/04	1504	14.3	11.7
November 2004[7]	10/25/04- 11/23/04	1480	36.42	13.2
December 2004[7, 8]	11/23/04 - 12/27/04	1562	132.21	18.6
January 2005[7]	12/27/04 - 1/31/05	1264	47.5	18.3
February 2005[9]	1/31/05 - 2/28/05	1538	53.2	15.8
March 2005[9]	2/28/05 - 4/4/05	931	56.0	9.5
April 2005[9]	4/4/05 - 5/2/05	1269	111.7	15.96
May 2005[9]	5/2/05 - 6/6/05	1431	319	13.2
Total pounds of VOCs removed from inception =				**874.2**

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 present.
9. Average influent and effluent concentrations used for December 2004.

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

Pounds of VOCs removed calculated by the following formula:
(1431 ug/L-319ug/L)(1g/10^6 ug)*(1 lb/453.5924 g)*1,423,099 gallons*(3.785 L/gallon) ~ 13.2 lbs*

where 1,423,099 gallons is the monthly process water volume.

Attachment A
OMEI Weekly Inspection Reports
May 2005

Mr. C's Dry Cleaners Site
NYSDEC Site #9-15-157
System Inspection Form

Date/Time 5\09\05 9:30

Inspection personnel RC Becken

Other personnel on site

Weather Conditions 65 degrees sunny

Are all well pumps operating in auto? YES (NO)
If "NO", provide explanation
PW-6 not operating

Provide water level readings on control panel

RW-1	ON	(OFF)	7	ft
PW-2	ON	(OFF)	5	ft
PW-3	(ON)	OFF	4	ft
PW-4	(ON)	OFF	3	ft
PW-5	(ON)	OFF	7	ft
PW-6	(ON)	OFF	13	ft
PW-7	(ON)	OFF	7	ft
PW-8	ON	(OFF)	6	ft
	Equalization tank		4	ft

Influent Flow Rate 29.17 gpm

Influent Totalizer Reading 8016383 gallons

Sequestering agent drum level 0 ft-in

Amount of sequestering agent remaining 0 gallons

Sequestering agent feed rate 0 gpm

Sequestering agent metering Pump Pressure 0 psi

Bag filter top pressure 21 psi

Bag filter bottom pressure 0 psi

Mr. C's Dry Cleaners Site
NYSDEC Site #9-15-157
System Inspection Form

Influent feed pump in use (#1) #2

Influent Pump Pressure 8 psi

Air stripper blower in use #1 (#2)

Air stripper differential pressure 0.03 inches H_2O

Air stripper Pressure 46 inches H_2O

Effluent feed pump in use (#1) #2

Effluent feed pump pressure 12 psi

Effluent flow rate ~90 gpm

Effluent Totalizer reading 1064956 gallons

Are building heaters in use? YES (NO)

Ambient air temperature 70 degrees F

Are any leaks present? YES (NO)

Is sump pump in use? YES (NO)

Water level in sump 4"

Is treatment building clean and organized? (YES) NO

Samples collected? YES (NO)

	Sample ID	Time of Sampling	pH	Turbidity	Temp.
Air stripper influent					
Air stripper effluent					
GAC influent			NA	NA	
GAC effluent			NA	NA	

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 on the following page.)

Mr. C's Dry Cleaners Site
NYSDEC Site #9-15-157
System Inspection Form

Other observations:

Replaced the pump in PW-6, I haven't as of yet checked the pump but I believe there was a poor contact at the wiring connection. The replacement pump is operating as designed.

Describe any other system maintenance performed

Changed filter afterwhich the influent flow increased to 65.1 gpm.

Signature

Mr. C's Dry Cleaners Site
NYSDEC Site #9-15-157
System Inspection Form

Date/Time 5\16\05 8:30

Inspection personnel RC Becken CD Becken

Other personnel on site Jim Mayes M. Steffan D. Snymanski

Weather Conditions clear cool 40 degrees

Are all well pumps operating in auto? (YES) NO
If "NO", provide explanation

Provide water level readings on control panel

RW-1	(ON)	OFF	5	ft
PW-2	ON	(OFF)	4	ft
PW-3	(ON)	OFF	4	ft
PW-4	(ON)	OFF	4	ft
PW-5	(ON)	OFF	7	ft
PW-6	ON	(OFF)	5	ft
PW-7	(ON)	OFF	8	ft
PW-8	ON	(OFF)	4	ft
	Equalization tank		4	ft

Influent Flow Rate 24.7 gpm

Influent Totalizer Reading 8599734 gallons

Sequestering agent drum level 0 ft-in

Amount of sequestering agent remaining 0 gallons

Sequestering agent feed rate 0 gpm

Sequestering agent metering Pump Pressure 0 psi

Bag filter top pressure 22 psi

Bag filter bottom pressure 0 psi

Mr. C's Dry Cleaners Site
NYSDEC Site #9-15-157
System Inspection Form

Influent feed pump in use (#1)0 #2

Influent Pump Pressure 7 psi

Air stripper blower in use #1 (#2)

Air stripper differential pressure 0.03 inches H_2O

Air stripper Pressure 46 inches H_2O

Effluent feed pump in use (#1) #2

Effluent feed pump pressure 12 psi

Effluent flow rate ~90 gpm

Effluent Totalizer reading 10972806 gallons

Are building heaters in use? YES (NO)

Ambient air temperature 57 degrees F

Are any leaks present? YES (NO)

Is sump pump in use? YES (NO)

Water level in sump 4

Is treatment building clean and organized? (YES) NO

Samples collected? YES (NO)

	Sample ID	Time of Sampling	pH	Turbidity	Temp.
Air stripper influent					
Air stripper effluent					
GAC influent			NA	NA	
GAC effluent			NA	NA	

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 on the following page.)

Mr. C's Dry Cleaners Site
NYSDEC Site #9-15-157
System Inspection Form

Other observations:

System was shutdown at appr. 8:45 to clean the stripper trays, mineral deposits were pretty bad considering its has only been a little over a month since the last teardown and cleaning. M.Steffan, J.Mays and myself agreed it would be best to leave the system off until Thursday when we receive the drum of sequestering agent.

Describe any other system maintenance performed

I forgot to get flow readings, Imeant to write them down after cleaning the trays but forgot, I will get them on Thursday when I'm on site.

9/20/05 - System restarted at 1045 air pressure in stripper sump at 16-19 in H_2O, chemical metering pump set at ~3 ml/min

Signature

Mr. C's Dry Cleaners Site
NYSDEC Site #9-15-157
System Inspection Form

Date/Time 5\23\05 9:00

Inspection personnel RC Becken

Other personnel on site Bill Gerowski Redox salesman

Weather Conditions sunny 55 degrees

Are all well pumps operating in auto? (YES) NO
If "NO", provide explanation

Provide water level readings on control panel

RW-1	(ON)	OFF	5	ft
PW-2	ON	(OFF)	7	ft
PW-3	ON	(OFF)	5	ft
PW-4	(ON)	OFF	3	ft
PW-5	(ON)	OFF	7	ft
PW-6	ON	(OFF)	5	ft
PW-7	(ON)	OFF	6	ft
PW-8	(ON)	OFF	4	ft
	Equalization tank		4	ft

Influent Flow Rate 59.65 gpm

Influent Totalizer Reading 8851303 gallons

Sequestering agent drum level 31" ft-in

Amount of sequestering agent remaining ~53 gallons

Sequestering agent feed rate 3.5ml/min. gpm

Sequestering agent metering Pump Pressure 0 psi

Bag filter top pressure 4 psi

Bag filter bottom pressure 0 psi

Mr. C's Dry Cleaners Site
NYSDEC Site #9-15-157
System Inspection Form

Influent feed pump in use (#1) #2

Influent Pump Pressure 7 psi

Air stripper blower in use #1 (#2)

Air stripper differential pressure 0.025 inches H_2O

Air stripper Pressure 16 inches H_2O

Effluent feed pump in use #1 (#2)

Effluent feed pump pressure 7 psi

Effluent flow rate ~90 gpm

Effluent Totalizer reading 11123683 gallons

Are building heaters in use? YES (NO)

Ambient air temperature 62 degrees F

Are any leaks present? YES (NO)

Is sump pump in use? YES (NO)

Water level in sump 4"

Is treatment building clean and organized? (YES) NO

Samples collected? YES (NO)

	Sample ID	Time of Sampling	pH	Turbidity	Temp.
Air stripper influent			7.53	4.56	56.2
Air stripper effluent			7.96	5.86	57.1
GAC influent			NA	NA	
GAC effluent			NA	NA	

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 on the following page.)

Mr. C's Dry Cleaners Site
NYSDEC Site #9-15-157
System Inspection Form

Other observations: _____

Describe any other system maintenance performed

Increased flow of sequestering agent to 4.5 ml/ min.if the air pressure in the stripper trays stays at 16-18 inches of water column it can be reduced to3.5-4.0 ml/min.in several weeks.

Signature Richard C Becker

Mr. C's Dry Cleaners Site
NYSDEC Site #9-15-157
System Inspection Form

Date/Time 5\30\05 9:05

Inspection personnel RC Becken

Other personnel on site Jim Mays

Weather Conditions sunny 60 degrees

Are all well pumps operating in auto? (YES) NO
If "NO", provide explanation

Provide water level readings on control panel

RW-1	(ON)	OFF	6	ft
PW-2	ON	(OFF)	7	ft
PW-3	ON	(OFF)	5	ft
PW-4	ON	(\OFF)	5	ft
PW-5	(ON)	OFF	8	ft
PW-6	ON	(OFF)	5	ft
PW-7	(ON)	OFF	6	ft
PW-8	ON	(OFF)	5	ft
	Equalization tank		4	ft

Influent Flow Rate 51.42 gpm

Influent Totalizer Reading 9520699 gallons

Sequestering agent drum level 24" in

Amount of sequestering agent remaining ~37 gallons

Sequestering agent feed rate 4.5 ml/min.

Sequestering agent metering Pump Pressure 0 psi

Bag filter top pressure 5 psi

Bag filter bottom pressure 0 psi

Mr. C's Dry Cleaners Site
NYSDEC Site #9-15-157
System Inspection Form

Influent feed pump in use (#1) #2

Influent Pump Pressure 7 psi

Air stripper blower in use #1 (#2)

Air stripper differential pressure 0.15 inches H_2O

Air stripper Pressure 19.5 inches H_2O

Effluent feed pump in use #1 (#2)

Effluent feed pump pressure 7 psi

Effluent flow rate ~90 gpm

Effluent Totalizer reading 11521787 gallons

Are building heaters in use? YES (NO)

Ambient air temperature 64 degrees F

Are any leaks present? YES (NO)

Is sump pump in use? YES (NO)

Water level in sump 4"

Is treatment building clean and organized? (YES) NO

Samples collected? YES (NO)

	Sample ID	Time of Sampling	pH	Turbidity	Temp.
Air stripper influent			7.53	4.56	56.2
Air stripper effluent			7.96	5.86	57.1
GAC influent			NA	NA	
GAC effluent			NA	NA	

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 on the following page.)

Mr. C's Dry Cleaners Site
NYSDEC Site #9-15-157
System Inspection Form

Other observations: _____

Describe any other system maintenance performed

Filter was not changed. Will order a new drum of sequestering agent this week.

Signature_____

Mr. C's Dry Cleaners Site
NYSDEC Site #9-15-157
System Inspection Form

Date/Time 6\6\05 9:00

Inspection personnel RC Becken

Other personnel on site Jim Mayes

Weather Conditions sunny 73 degrees

Are all well pumps operating in auto? (YES) NO
If "NO", provide explanation

Provide water level readings on control panel

RW-1	(ON)	OFF	8	ft
PW-2	ON	(OFF)	7	ft
PW-3	(ON)	OFF	6	ft
PW-4	ON	(OFF)	7	ft
PW-5	(ON)	OFF	8	ft
PW-6	ON	(OFF)	3	ft
PW-7	(ON)	OFF	5	ft
PW-8	ON	(OFF)	7	ft
	Equalization tank		4	ft

Influent Flow Rate 39 gpm

Influent Totalizer Reading 9992951 gallons

Sequestering agent drum level 19 ft-in

Amount of sequestering agent remaining ~27 gal.

Sequestering agent feed rate 4.5 ml/min.

Sequestering agent metering Pump Pressure 0 psi

Bag filter top pressure 10 psi

Bag filter bottom pressure 0 psi

Mr. C's Dry Cleaners Site
NYSDEC Site #9-15-157
System Inspection Form

Influent feed pump in use (#1) #2

Influent Pump Pressure 8 psi

Air stripper blower in use #1 (#2)

Air stripper differential pressure 0.14 inches H_2O

Air stripper Pressure 20 inches H_2O

Effluent feed pump in use #1 (#2)

Effluent feed pump pressure 7 psi

Effluent flow rate ~90 gpm

Effluent Totalizer reading 11809409 gallons

Are building heaters in use? YES (NO)

Ambient air temperature 75 degrees F

Are any leaks present? YES (NO)

Is sump pump in use? YES (NO)

Water level in sump 4"

Is treatment building clean and organized? (YES) NO

Samples collected? (YES) NO

	Sample ID	Time of Sampling	pH	Turbidity	Temp.
Air stripper influent			7.72	3.26	57.8
Air stripper effluent			8.22	1.33	59.6
GAC influent			NA	NA	
GAC effluent			NA	NA	

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 on the following page.)

Mr. C's Dry Cleaners Site
NYSDEC Site #9-15-157
System Inspection Form

Other observations: _____

Describe any other system maintenance performed
Increased flow of sequestering agent to ~5.0 ml/min. Changed filter.

Signature _____

Attachment B
Selected pages from
Severn-Trent Laboratory
Analytical Data Package

Client Sample ID:	Effluent	Effluent	Influent		
Job Number & Lab Sample ID:	A05-5270 A5527001	A05-5270 A5527001DL	A05-5270 A5527002		
Sample Date:	05/24/2005	05/24/2005	05/24/2005		

Analyte (UG/L)	RL	Result		Result		Result			
METHOD 8260 - TCL VOLATILE ORGANICS									
Acetone	5.0	240	E	280	D	250	U		
Benzene	1.0	1.0	U	2.0	U	50	U		
Bromodichloromethane	1.0	1.0	U	2.0	U	50	U		
Bromoform	1.0	1.0	U	2.0	U	50	U		
Bromomethane	1.0	1.0	U	2.0	U	50	U		
2-Butanone	5.0	23		25	D	250	U		
Carbon Disulfide	1.0	1.0	U	2.0	U	50	U		
Carbon Tetrachloride	1.0	1.0	U	2.0	U	50	U		
Chlorobenzene	1.0	1.0	U	2.0	U	50	U		
Chloroethane	1.0	1.0	U	2.0	U	50	U		
Chloroform	1.0	1.0	U	2.0	U	50	U		
Chloromethane	1.0	1.0	U	2.0	U	50	U		
Cyclohexane	1.0	1.0	U	2.0	U	50	U		
1,2-Dibromoethane	1.0	1.0	U	2.0	U	50	U		
Dibromochloromethane	1.0	1.0	U	2.0	U	50	U		
1,2-Dibromo-3-chloropropane	1.0	1.0	U	2.0	U	50	U		
1,2-Dichlorobenzene	1.0	1.0	U	2.0	U	50	U		
1,3-Dichlorobenzene	1.0	1.0	U	2.0	U	50	U		
1,4-Dichlorobenzene	1.0	1.0	U	2.0	U	50	U		
Dichlorodifluoromethane	1.0	1.0	U	2.0	U	50	U		
1,1-Dichloroethane	1.0	1.0	U	2.0	U	50	U		
1,2-Dichloroethane	1.0	1.0	U	2.0	U	50	U		
1,1-Dichloroethene	1.0	1.0	U	2.0	U	50	U		
cis-1,2-Dichloroethene	1.0	1.0	U	2.0	U	50	U		
trans-1,2-Dichloroethene	1.0	1.0	U	2.0	U	50	U		
1,2-Dichloropropane	1.0	1.0	U	2.0	U	50	U		
cis-1,3-Dichloropropene	1.0	1.0	U	2.0	U	50	U		
trans-1,3-Dichloropropene	1.0	1.0	U	2.0	U	50	U		
Ethylbenzene	1.0	1.0	U	2.0	U	50	U		
2-Hexanone	5.0	5.0	U	10	U	250	U		
Isopropylbenzene	1.0	1.0	U	2.0	U	50	U		
Methyl acetate	1.0	1.0	U	2.0	U	50	U		
Methylcyclohexane	1.0	1.0	U	2.0	U	50	U		
Methylene chloride	1.0	6.2		7.5	D	50	U		
4-Methyl-2-pentanone	5.0	5.0	U	10	U	250	U		
Methyl-t-Butyl Ether (MTBE)	1.0	1.2		1.5	DJ	50	U		
Styrene	1.0	1.0	U	2.0	U	50	U		
1,1,2,2-Tetrachloroethane	1.0	1.0	U	2.0	U	50	U		
Tetrachloroethene	1.0	3.7		3.2	D	1400			
Toluene	1.0	3.3		3.1	D	50	U		
1,2,4-Trichlorobenzene	1.0	1.0	U	2.0	U	50	U		
1,1,1-Trichloroethane	1.0	1.0	U	2.0	U	50	U		

* Indicates Result is Outside QC Limits
NA = Not Applicable

Client Sample ID:	Effluent	Effluent	Influent		
Job Number & Lab Sample ID:	A05-5270 A5527001	A05-5270 A5527001DL	A05-5270 A5527002		
Sample Date:	05/24/2005	05/24/2005	05/24/2005		
Analyte (UG/L)	RL	Result	Result	Result	
METHOD 8260 - TCL VOLATILE ORGANICS					
1,1,2-Trichloroethane	1.0	1.0 U	2.0 U	50 U	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	1.0 U	2.0 U	50 U	
Trichlorofluoromethane	1.0	1.0 U	2.0 U	50 U	
Trichloroethene	1.0	0.41 J	2.0 U	31 J	
Vinyl chloride	1.0	1.0 U	2.0 U	50 U	
Total Xylenes	3.0	0.73 J	6.0 U	150 U	
INTERNAL STANDARDS					
Chlorobenzene-D5	50-200	78	90	84	
1,4-Difluorobenzene	50-200	80	88	89	
1,4-Dichlorobenzene-D4	50-200	74	80	75	
SURROGATES					
Toluene-D8	76-116	107	103	113	
p-Bromofluorobenzene	73-117	101	98	97	
1,2-Dichloroethane-D4	72-143	122	111	104	

		Client Sample ID:	Effluent	Influent			
		Job Number & Lab Sample ID:	A05-5270 A5527001	A05-5270 A5527002			
		Sample Date:	05/24/2005	05/24/2005			
Analyte	UNITS OF MEASURE	RL	Result	Result			
WET CHEMISTRY ANALYSIS							
Total Hardness	MG/L	2.0	496	432			
pH	S.U.	0	8.22	7.53			

* Indicates Result is Outside QC Limits
NA = Not Applicable

Attachment C
Summary of Site Utility Costs and Projections
October 2003 to May 2005

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

ATTACHMENT C

NYSDEC Work Assignment #27.5

12 Months of System Operation and Maintenance

May 2005 Report

Utility Budget:

Electric:	$24,024.00
Telephone:	$680.00
Gas	$1,100.00
Total:	$25,804.00

Gas and Electric

Utility Provider	Account #	E&E Cost Center	Description	October '04	November	December	January '05	February	March '05	April '05	May '05	
New York State E&G	06-311-11-	000699.NY06.05	Mr. C's Electric Costs	$ 1,016.84	$ 1,531.47	$ 1,681.89	$ 1,863.21	$ 1,835.14	$ 2,002.24	$ 1,619.14	$ 1,538.09	
	002616-26											
National Fuel Gas	5819628-05	000699.NY06.05	Mr. C's Natural Gas Costs	$ -	$ -	$ -	$ 39.23	$ 481.04	$ 184.90	$ 300.38	$ 94.77	
			Totals	**$ 1,016.84**	**$ 1,531.47**	**$ 1,681.89**	**$ 1,902.44**	**$ 2,316.18**	**$ 2,187.14**	**$ 1,919.52**	**$ 1,632.86**	

	June '05	July '05	August '05	September	October	November	December		Ave. /Month
Mr. C's Electric Costs	$ 111.38								$ 1,466.60
Mr. C's Natural Gas Costs	$ -	$ -							$ 220.06
Totals	**$ 111.38**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**		**$ 1,686.66**

Electric	**$ 13,199.40**
Natural Gas	**$ 1,100.32**
Grand Total - NYSE&G/National Fuel Gas Costs To Date	**$ 14,299.72**

Estimated Reading

Phone

Utility Provider	Phone #	E&E Cost Center	Location Description	October '04	November	December	January '05	February '05	March '05	April '05	May '05	
Verizon	716-652-0094	000699.NY06.05	Mr. C's Telephone Costs	$ 39.56	$ 38.76	$ 39.10	$ 39.08	$ 38.66	$ 38.89	$ 38.64		
Account#												
716 652 0094 416 26 2												

	June '05	July '05	August	September	October	November	December		Ave./Month
									$ 38.96

Grand Total - Verizon Costs to Date	**$ 234.05**
Grand Total All Utilities To Date	**$ 14,533.77**

****This includes initial connection fees for the phone company of approximately $180.

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

ATTACHMENT C

NYSDEC Work Assignment #27.4

12 Months of System Operation and Maintenance

Budget Remaining:

Electric:	**$10,824.60**
Telephone:	**$445.95**
Gas	**-$0.32**
Total:	**$11,270.23**

Monthly Treatment System Operational Time by O&M Services

O&M Months Remaining: 6

Month	Possible OP Hours	Actual OP Hours	Up-Time Percent	Percent Capacity*	General Operation Comments
September-03	96	96	100.00%	58%	Shutdown by Tyree after Separable Part B inspection
October-03	168	168	100.00%	6%	Official Startup by O&M Enterprises on 10/22/03
November-03	720	720	100.00%	5%	
December-03	744	744	100.00%	28%	
January-04	672	672	100.00%	16%	
February-04	696	696	100.00%	21%	
March-04	816	815	99.88%	51%	
April-04	672	670	99.70%	50%	
May-04	696	513	73.71%	43%	Equipment shutdown- low flow of water to air stripper - 5/17-24/04
June-04	696	692	99.43%	30%	Individual pumps shutdown for inspection and cleaning
July-04	840	840	100.00%	47%	100% operational
August-04	672	672	100.00%	42%	100% operational
September-04	840	820	97.62%	31%	Temporary Stripper Shutdown
October-04	672	607	90.33%	33%	65 hour weekend shutdown due to low pressure problems with the airstripper
November-04	696	641.5	92.17%	37%	
December-04	816	792	97.06%	42%	GAC units removed from treatment system operations
January-05	840	840	100.00%	46%	GAC units removed from project site 1/14/05
February-05	672	660	98.21%	41%	Unit cleaned February 4, 2005
March-05	840	828	98.57%	33%	Unit shut down for additional cleaning and sequestering agent review.
April-05	696	609	87.50%	58%	Unit cleaned April 8, 2005. Back in service until new sequestering agent approved and installed.
May-05	840	768	91.43%	36%	Unit re-cleaned and new water treatment chemical stsrted operations on 5/19/05
Totals to Date	**14400**	**13863.5**	**96.27%**		

* 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%.

Projected Utility Costs for the O&M year (11/04 to 11/05)

	Ave./Month			
Electric	$ 1,466.60			
Gas	$ 220.06			
Telephone	$ 38.96			
Ave. Utility Cost Total	$ 1,725.62	times	12 months	$22,433.06