ecology and environment engineering, p.c.

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December 7, 2004

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 # D004180, Site # 9-15-157
November 2004 O&M Report

Dear Mr. Chiusano:

Ecology and Environment Engineering, P.C. (EEEPC) is pleased to provide this November 2004 Operation and Maintenance (O&M) Report for the Mr. C's Dry Cleaners Site, 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 analytical data package from EEEPC's Analytical Services Center (ASC) dated December 2, 2004 are provided as Attachment 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 operation, EEEPC offers the following comments and highlights:

Operational Summary

- The system was operational for approximately 92% of the period between 10/25/04 and 11/23/04. The system was down for approximately 54.5 hours from Sunday, 10/30/04, to Tuesday, 11/1/04, due to a low air pressure alarm in the air stripper. The system was fully operational otherwise. 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 November 2004 indicate that approximately 1,098,158 gallons of groundwater were processed through the treatment system from 10/25/04 through 11/23/04. Table 2 provides a summary of groundwater volume treated during the November 2004 monitoring period. Historical volumes are based on totalizer readings provided by the contractor's weekly inspection forms.
- Piezometer measurements were collected on 11/9/04 at the time of compliance sampling. These readings are provided in the weekly inspection reports provided in Attachment A.

- Checklists for weekly system inspections from OMEI are provided as Attachment A for 11/1/04, 11/9/04, 11/15/04 and 11/23/04. Weekly system checks indicate that all operating equipment appear to be operating within normal ranges with any exceptions noted above.
- Clean Harbors was onsite 11/15/04 to remove 1 drum of spent filters.
- A copy of the site utility costs from EEEPC operations starting October 2003 to date is provided as Attachment C.
- Based on the analytical results of the samples collected 11/9/04, the concentration of PCE in the treated effluent exceeded the discharge limitations. A corrective action plan will be developed and submitted to NYSDEC Division of Water, Mr. Richard Rink by December 7, 2004.

Analytical Summary - Groundwater

- EEEPC and OMEI personnel sampled influent and effluent groundwater on Tuesday, November 9, 2004. The groundwater samples were analyzed for volatile organic compounds (VOCs), metals, total suspended solids (TSS), total dissolved solids (TDS), and hardness. 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 groundwater during the November 2004 sampling event were:
    - cis-1,2-Dichloroethene – 5.40 ug/L (estimated "J" value)
    - Methyl tert-butyl ether (MTBE) – 11.1 ug/L (estimated "J" value)
    - Tetrachloroethene (PCE) – 1430 ug/L
    - Trichloroethene – 33.5 ug/L (estimated "J" value)
- VOCs in the effluent groundwater at the November 2004 sampling event were:
    - cis-1,2-Dichloroethene – not detected (100% removal)
    - 4-Methyl-2-pentanone - 0.525 ug/L (estimated "J" value)
    - Acetone - 5.87 ug/L
    - Methyl tert-butyl ether (MTBE) – 1.75 ug/L (84% removal)
    - Tetrachloroethene (PCE) - 24.8 µg/L (98% removal)
    - Toluene - 0.158 (estimated "J" value)
    - Trichloroethene - 3.32 ug/L (90% removal).

  The concentrations of all of these compounds are below the detection limits of the influent sample, which ranged from 50.0 to 250 ug/L.
- The concentration of PCE in the effluent groundwater is above the Daily Maximum Effluent Discharge Compliance Concentration of 10.0 µg/L listed on Table 3. As a result, a corrective action plan is being prepared for submission to NYSDEC DOW on December 7, 2004.
- The November analytical results indicate that the treated groundwater effluent was in compliance with the Effluent Limitation Requirements for metals with the exception of iron. The November 2004 analytical results indicate 709 ug/L iron, which is above the Effluent Limitation Requirements of 600 ug/L. Total Dissolved Solids (TDS) were detected at the compliance concentration of 850

mg/L for the month of November 2004. A comparison between the November 2004 analytical results and the Effluent Limitation Requirements for the site are provided in Table 3.

- Approximately 13.2 pounds of VOCs were removed from the influent groundwater based on calculations using the November 9, 2004 effluent discharge results. The calculated removal volumes are located in Table 4. 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. These calculations indicate that approximately 771 pounds of VOCs have been removed from the groundwater since system start-up in September 2002.

Analytical Summary - Air

- EEEPC and OMEI personnel sampled the air stripper exhaust before and after the granular activated carbon (GAC) vessels on November 9, 2004. Air samples were collected using pre-evacuated and cleaned SUMMA canisters calibrated to continuously collect a one-hour sample. Samples were analyzed for VOCs by method TO-14A.
- The sample analyzed as "GAC INFLUENT" had total VOC concentrations significantly lower than the "GAC EFFLUENT" sample or sample collected after the carbon treatment. It apparently became mislabeled somewhere in the sample custody. Therefore, for discussion purposes the "GAC EFFLUENT" sample is assumed to be the sample collected before carbon treatment and vice-versa.
- The only VOCs detected in the influent air samples were:
    - 1,1,1-=Trichloroethane - 0.580 ppbv (estimated "J" value)
    - 1,2,4-Trimethylbenzene - 0.731 ppbv (estimated "J" value)
    - Benzene - 0.606 ppbv (estimated "J" value)
    - cis-1,2-Dichloroethene – 6.62 ppbv
    - m,p-Xylene - 4.47 ppbv
    - Methyl tert-butyl ether - 15.0 ppbv
    - O-Xylene - 0.970 ppbv (estimated "J" value)
    - Styrene - 1.27 ppbv (estimated "J" value)
    - Tetrachloroethene (PCE) – 967 ppbv
    - Toluene - 7.13 ppbv
    - Trans-1,2-Dichloroethene - 0.846 (estimated "J" value)
    - Trichloroethene - 37.1 ppbv

- VOCs detected in the effluent air samples after GAC treatment were:
    - 1,2,4-Trimethylbenzene - 0.589 ppbv (estimated "J" value, 19% removal)
    - Chloromethane - 0.703 ppbv (estimated "J" value)
    - cis-1,2-Dichloroethene – 4.59 ppbv (31% removal)
    - Methylene chloride - 0.595 ppbv (estimated "J" value)
    - Tetrachloroethene (PCE) – 5.76 ppbv (99% removal)

  - Trans-1,2-Dichloroethene - 0.441 (estimated "J" value, 48% removal)

- Assuming that the system is treating groundwater 50% of the total operational time during this reporting period, this efficiency calculates to approximately 3.30 lbs of VOCs were removed by the GAC during the November 2004 reporting period. These values are calculated based on the November 2004 analytical data and average of calculated air flow rates and assumes that non-detect values given in the analytical data package = 0 ppbv and that the monthly samples are indicative of the influent characteristics and system performance for the entire reporting period. A calculation table is provided as Table 5.

If you have any questions regarding the November 2004 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: G. Sutton, Region 9, NYSDEC - Buffalo w/ attachments
R. Becken, O&M Enterprises w/attachments
D. Miller, E&E-Buffalo w/o attachments
G. Jones, Site Representative, E&E - Buffalo - w/ 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%

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 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
	TOTAL GALLONS	**48,698,221**

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
Site #9-15-157
Effluent Discharge Criteria & Analytical Compliance Results

Parameter	Daily Maximum[1]	Units	November 2004 Effluent Analytical Values[2]
Flow	216,000	gpd	41,085
pH	6.0 - 9.0	standard units	8.41
1,1 Dichloroethene	10	ug/L	<1.00
1,2 Dichloroethane	10	ug/L	<1.00
Trichloroethene	10	ug/L	3.32
Tetrachloroethene	10	ug/L	24.8
Vinyl Chloride	10	ug/L	<1.00
Benzene	5	ug/L	<1.00
Ethyl Benzene	5	ug/L	<1.00
Methylene Chloride	10	ug/L	<1.00
1,1,1 Trichloroethane	10	ug/L	<1.00
Toluene	5	ug/L	0.158 J
o-Xylene[3]	5	ug/L	<1.00
m, p-Xylene[3]	10	ug/L	<1.00
Iron, total	600	ug/L	709
Aluminum	4,000	ug/L	<200
Copper	48	ug/L	<20.0
Lead	11	ug/L	<5.00
Manganese	2,000	ug/L	193
Silver	100	ug/L	<10.0
Vanadium	28	ug/L	<20.0
Zinc	230	ug/L	<20.0
Total Dissolved Solids	850	mg/L	850
Total Suspended Solids	20	mg/L	11
Cyanide, Free	10	ug/L	<10

NOTES:

1. "Daily Maximum" excerpted from Attachment E of Addendum 1 to the Construction Contract Documents.
2. Values based on effluent discharge sample collected 11/9/04.
3. Analytical report did not differentiate between o-Xylene and m, p-Xylene. Total Xylene value reported is given in each line.
4. Shaded cells indicate that November 2004 analytical value exceeds "Daily Maximum"

Table 4
Mr. C's Dry Cleaners Site Remediation
Site #9-15-157
Monthly VOCs Removed From Groundwater

Month	Actual Period	Influent VOCs (ug/L)	Effluent VOCs (ug/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
December 2004[7]	10/25/04- 11/23/04	1480	36.423	13.2
Total pounds of VOCs removed from inception =				**796.1**

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

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

Pounds of VOCs removed calculated by the following formula:

(1480 ug/L-14.3ug/L)(1g/10^6 ug)*(1 lb/453.5924 g)*1,098,158 gallons*(3.785 L/gallon) ~ 13.2 lbs*

where 1,098,158 gallons is the monthly process water volume.

Table 5
Mr. C's Dry Cleaners Site Remediation
NYSDEC Site #9-15-157
VOC Removal by GAC

Compound	Molecular Weight	Intake Concentration (Pre-GAC)	Detection Limits - ppb	Exhaust Concentration (Post-GAC)	Detection Limits - ppb	Treatment Efficiency	Total Removed	Total Removed	Total Removed	Total Removed	Total Removed	Total Removed
	(g/mol)	(ppbv)		(ppbv)		(%)	(ppbv)	(ppmv)	(ug/m^3)	(ug)	(mg)	(lbs)
1,1-Dichloroethane	98.97	ND	2.00	ND	2.00	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	98.96	ND	2.00	ND	2.00	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	112.99	ND	2.00	ND	2.00	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	147.00	ND	2.00	ND	2.00	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	147.01	ND	2.00	ND	2.00	NA	NA	NA	NA	NA	NA	NA
Benzene	78.11	0.606	2.00	ND	2.00	100%	0.61	0.00	1.97	305057.34	305.06	0.00
Benzyl chloride	126.59	ND	2.00	ND	2.00	NA	NA	NA	NA	NA	NA	NA
Bromomethane	94.95	ND	2.00	ND	2.00	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	153.82	ND	2.00	ND	2.00	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	112.56	ND	2.00	ND	2.00	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	96.94	6.62	2.00	4.59	2.00	31%	2.03	0.00	8.18	1268239.49	1268.24	0.00
cis-1,3-Dichloropropene	110.97	ND	2.00	ND	2.00	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	120.91	ND	2.00	ND	2.00	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	260.7	ND	2.00	ND	2.00	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	165.83	967	2.00	3.76	2.00	99%	961.24	0.14	6625.00	1027899687.16	1027899.69	2.27
Toluene	92.13	713	2.00	ND	30.0	100%	713.00	0.19	2730.14	423348.48	423.35	0.93
Trichloroethylene	131.4	37.1	2.00	ND	2.00	100%	37.10	0.01	202.61	31417490.70	31417.49	0.07
Vinyl Chloride	62.5	ND	2.00	ND	2.00	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	84.93	ND	2.00	0.595	2.00	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	88.1492	15	2.00	ND	2.00	100%	15.00	0.02	56.95	8521417.71	8521.42	0.02
Chloromethane	50.49	ND	2.00	0.703	2.00	NA	NA	NA	NA	NA	NA	NA
Chloroethane	65.51	ND	2.00	ND	2.00	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	187.88	ND	2.00	ND	2.00	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	147.01	ND	2.00	ND	2.00	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloro-1,1,2,2-tetrafluoroethane	170.92	ND	2.00	ND	2.00	NA	NA	NA	NA	NA	NA	NA
Styrene	104.15	1.27	2.00	ND	2.00	100%	1.27	0.00	5.50	852442.74	852.44	0.00
1,1,2-Trichloro-1,2,2-trifluoroethane	187.38	ND	2.00	ND	2.00	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	167.85	ND	2.00	ND	2.00	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	137.38	ND	2.00	ND	2.00		NA	NA	NA	NA	NA	NA
1,1-Dichloroethylene	96.94	ND	2.00	ND	2.00	NA	NA	NA	NA	NA	NA	NA
Chloroform	119.38	ND	2.00	ND	2.00	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	133.41	0.580	2.00	ND	2.00	100%	0.58	0.00	3.22	498676.15	498.68	0.00
1,1,2-Trichloroethane	133.41	ND	2.00	ND	2.00	NA	NA	NA	NA	NA	NA	NA
m,p-Xylene	106.16	4.47	4.00	0.830	4.00	100%	4.47	0.00	19.39	3058933.58	3058.93	0.01
o-Xylene	106.16	0.970	2.00	ND	2.00	100%	0.97	0.00	4.28	663643.53	663.64	0.00
1,2,4-Trimethylbenzene	120.19	0.731	2.00	0.589	2.00	19%	0.14	0.00	0.71	109991.44	109.99	0.00
1,2,4-Trichlorobenzene	181.46	ND	2.00	ND	2.00	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	106.17	1.43	2.00	ND	2.00	100%	1.43	0.00	6.21	978458.24	978.46	0.00
1,3,5-Trimethylbenzene	120.19	ND	2.00	ND	2.00	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	96.94	0.846	2.00	0.441	2.00	48%	0.41	0.00	1.63	259039.07	259.04	0.00
trans-1,3-Dichloropropene	110.97	ND	2.00	ND	2.00	NA	NA	NA	NA	NA	NA	NA
										TOTAL =		3.30

Average Monthly Flowrate = 284.5092192 scfm = 8.06 m^3/min = 483.44 m^3/hour

Monthly hours of operation = 320.75 hours (7)

Pressure = 1 atm = 101300 Pa = 1013 millibars

Assumed stack temp = 68 F = 20 C = 293 K

Gas Constant, R = 0.08314 mb*m^3/K*mol

Notes

1. "J" values are included in above calculations.
2. "J" values are an estimated value indicating that the compound was detected by the laboratory below the practical quantitation limit, but above the method detection limit.
3. ND = Non-detect
4. Above calculations assume that non-detect values (<) = 0 ug/m3
5. NA = Not Applicable
6. PPM to ug/m^3 conversion based on the equation below.
7. System is a batch operation process. Calculations assume that system is actually treating groundwater 50% of operational time during reporting period.
8. System efficiency calculations conservatively assumes higher pre-GAC detection limits did not detect lower contaminant concentrations on post-GAC results. Assume post contaminant results the same for all contaminant below post-GAC detection limits. Effiecency is then calculated on the summation of the assumed pre-GAC results subtracting the post-GAC results then dividing by the pre-GAC total.

concentration in $\frac{\mu g}{m^3} = \frac{pM}{RT} *$ *concentration in ppm*

Where,
T is temperature in degrees Kelvin
p is pressure in millibars
R is the gas constant
M is the molecular weight

Conversions

1 cubic foot = 0.02832 cubic meters
1 g = 1,000,000 ug
1 lb = 453.5924 grams
degrees C = (degrees F - 32)/1.8
degrees K = degrees C + 273.16
1 atm = 101,300 Pascals
ppbv = ppmv = *10^{-3}

Attachment A
OMEI Weekly Inspection Reports
November 2004

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

Date/Time 11/1/04 9::04

Inspection personnel RC Becken

Other personnel on site

Weather Conditions overcast 48 degrees

Are all well pumps operating in auto? YES (NO)
If "NO", provide explanation
Air stripper low air pressure alarm received on Saturday 10/30/04 at 2:20 AM

Provide water level readings on control panel

RW-1	(ON)	OFF	10	ft
PW-2	(ON)	OFF	6	ft
PW-3	(ON)	OFF	7	ft
PW-4	(ON)	OFF	3	ft
PW-5	(ON)	OFF	4	ft
PW-6	(ON)	OFF	6	ft
PW-7	(ON)	OFF	8	ft
PW-8	(ON)	OFF	3	ft
	Equalization tank		4	ft

Influent Flow Rate 66.5 gpm

Influent Totalizer Reading 4460861 gallons

Sequestering agent drum level ~25" ft-in

Amount of sequestering agent remaining ~50 gallons

Sequestering agent feed rate 0.01 gpm

Sequestering agent metering Pump Pressure 1 psi

Bag filter top pressure 0\0 psi

Bag filter bottom pressure 0\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 10 psi

Air stripper blower in use (#1) #2

Air stripper differential pressure 0.16 inches H_2O

Air stripper vacuum 18.5 inches H_2O

Effluent feed pump in use #1 (#2)

Effluent feed pump pressure 7 psi

Effluent flow rate 90 gpm

Effluent Totalizer reading 2668430 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 0

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: _____

Describe any other system maintenance performed
Visually checked the filter, it looked pretty good so considering that the filter pressure was 0 I felt thar it could be used another week. Maybe we have the proper size (micron) filter now with 150 micron. I could not find a reason for the alarm I received on Saturday morning, after resetting the alarm everything operated properly. I opened several of the cleaning ports on the stripper and it looked as good as it did after cleaning several weeks ago.

Signature Richard C Becker

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

Date/Time 11/9/04 9:10

Inspection personnel RC Becken

Other personnel on site Jim Mays

Weather Conditions overcast snow 33 degrees

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

RW-1 overloaded due to filter pressure

Provide water level readings on control panel

RW-1	(ON)	OFF	7	ft
PW-2	(ON)	OFF	6	ft
PW-3	(ON)	OFF	3	ft
PW-4	(ON)	OFF	5	ft
PW-5	(ON)	OFF	3	ft
PW-6	(ON)	OFF	10	ft
PW-7	(ON)	OFF	7	ft
PW-8	(ON)	OFF	4	ft
	Equalization tank		4	ft

Influent Flow Rate 89.81 gpm

Influent Totalizer Reading 4794074 gallons

Sequestering agent drum level 24" ft-in

Amount of sequestering agent remaining ~45 gallons

Sequestering agent feed rate 0.1 gpm

Sequestering agent metering Pump Pressure 1 psi

Bag filter top pressure 35 \ 0 psi

Bag filter bottom pressure 0 \ 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 10 psi

Air stripper blower in use (#1) #2

Air stripper differential pressure 0.13 inches H_2O

Air stripper vacuum 20 inches H_2O

Effluent feed pump in use #1 (#2)

Effluent feed pump pressure 7 psi

Effluent flow rate ~95 gpm

Effluent Totalizer reading 2857500 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 2"

Is treatment building clean and organized? (YES) NO

Samples collected? (YES) NO

	Sample ID	Time of Sampling	pH	Turbidity	Temp.
Air stripper influent		12:00	7.43	10.64	56.6
Air stripper effluent		12:05	8.41	20.85	54.7
GAC influent		10:00-11:00	NA	NA	
GAC effluent		10:00-11:00	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:
RW-1 tripped off due to filter back pressure after changing the filter pump restarted and operated as designed. The light bulb for the "on" indicator on the motor control panel for RW-1 is blown,will get a replacement and install.

Describe any other system maintenance performed
Changed the filter (150 micron) it was extremely caked with white pastey material, this filter had been in two weeks and apparently two weeks is to long. In my opinion the filter will need changing every week..

Signature Richard C Baker

Mr. C's Dry Cleaners Site
NYSDEC Site #9-15-157
Piezometer Water Level Log

Date 11/9/04 Measurements taken by RC Becken Jim Mays

RW-1	23.9 ft	Comments	
PZ-1A	11.31 ft	Comments	
PZ-1B	10.94 ft	Comments	
PZ-1C	12.09 ft	Comments	
PZ-1D	12.18 ft	Comments	
PW-2	24.5 ft	Comments	
PZ-2A	10.81 ft	Comments	
PZ-2B	11.13 ft	Comments	
PZ-2C	10.39 ft	Comments	
PZ-2D	ft	Comments	grouted closed
PW-3	20.65 ft	Comments	
PZ-3A	11.27 ft	Comments	
PZ-3B	11.35 ft	Comments	
PZ-3C	11.8 ft	Comments	
PZ-3D	11.34 ft	Comments	
PW-4	23.4 ft	Comments	
PZ-4A	11.58 ft	Comments	
PZ-4B	11.03 ft	Comments	
PZ-4C	11.22 ft	Comments	
PZ-4D	10.51 ft	Comments	

RW-1 pump on during measurements? (YES) NO
PW-2 pump on during measurements? (YES) NO
PW-3 pump on during measurements? (YES) NO
PW-4 pump on during measurements? (YES) NO

Mr. C's Dry Cleaners Site
NYSDEC Site #9-15-157
Piezometer Water Level Log

Date 11/9/04 Measurements taken by RC Becken Jim Mays

PW-5	18.7 ft	Comments
PZ-5A	10.32 ft	Comments
PZ-5B	10.75 ft	Comments
PZ-5C	10.3 ft	Comments
PZ-5D	11.11 ft	Comments
PW-6	17.8 ft	Comments
PZ-6A	11.6 ft	Comments
PZ-6B	ft	Comments car on well
PZ-6C	11.68 ft	Comments
PZ-6D	11.31 ft	Comments
PW-7	18.7 ft	Comments
OW-B	11.45 ft	Comments
PZ-7B	11.98 ft	Comments
MPI-6S	10.93 ft	Comments
PZ-7D	11.4 ft	Comments
PW-8	21.1 ft	Comments
PZ-8A	8.28 ft	Comments
PZ-8B	8.19 ft	Comments
PZ-8C	7.61 ft	Comments
PZ-8D	7.91 ft	Comments

PW-5 pump on during measurements? (YES) NO
PW-6 pump on during measurements? (YES) NO
PW-7 pump on during measurements? (YES) NO
PW-8 pump on during measurements? (YES) NO

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

Date/Time 11\15\04 8:45

Inspection personnel RC Becken

Other personnel on site Jim Mays Clean Harbors truckdriver

Weather Conditions cool clear 29 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	10	ft
PW-2	(ON)	OFF	6	ft
PW-3	(ON)	OFF	6	ft
PW-4	(ON)	OFF	5	ft
PW-5	(ON)	OFF	4	ft
PW-6	(ON)	OFF	10	ft
PW-7	(ON)	OFF	7	ft
PW-8	(ON)	OFF	6	ft
	Equalization tank		4	ft

Influent Flow Rate 26 gpm

Influent Totalizer Reading 5137359 gallons

Sequestering agent drum level 25" ft-in

Amount of sequestering agent remaining ~35 gallons

Sequestering agent feed rate 0.01 gpm

Sequestering agent metering Pump Pressure 1 psi

Bag filter top pressure 22 psi

Bag filter bottom pressure Jan-00 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 10 psi

Air stripper blower in use (#1) #2

Air stripper differential pressure 0.12 inches H_2O

Air stripper vacuum 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 3051600 gallons

Are building heaters in use? (YES) NO

Ambient air temperature 52 degrees F

Are any leaks present? YES (NO)

Is sump pump in use? YES (NO)

Water level in sump 2"

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:

Clean Harbors truck picked up one drum of waste filters.

Describe any other system maintenance performed
Changed filter, influent flow increased to 87.62 gpm. Turned off the chemical feed pump to see if the filter looks the same next week (white pastey mineral).

Signature Richard C Beiter

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

Date/Time 11\23\04 8:50

Inspection personnel Richard C. Becken

Other personnel on site Jim Mays

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	4 ft
PW-2	(ON)	OFF	5 ft
PW-3	(ON)	OFF	6 ft
PW-4	(ON)	OFF	5 ft
PW-5	(ON)	OFF	3 ft
PW-6	(ON)	OFF	10 ft
PW-7	(ON)	OFF	7 ft
PW-8	(ON)	OFF	6 ft
	Equalization tank		4 ft

Influent Flow Rate 78..54 gpm

Influent Totalizer Reading 5903057 gallons

Sequestering agent drum level 24" ft-in

Amount of sequestering agent remaining 25 gallons

Sequestering agent feed rate 0 gpm

Sequestering agent metering Pump Pressure 0 psi

Bag filter top pressure 0 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 10 psi

Air stripper blower in use #1 (#2)

Air stripper differential pressure 0.12 inches H_2O

Air stripper vacuum 18 inches H_2O

Effluent feed pump in use (#1) #2

Effluent feed pump pressure 7 psi

Effluent flow rate ~90 gpm

Effluent Totalizer reading 3491566 gallons

Are building heaters in use? (YES) NO

Ambient air temperature 56 degrees F

Are any leaks present? YES (NO)

Is sump pump in use? YES (NO)

Water level in sump 2

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: _____

Describe any other system maintenance performed
Changed filter, flow increased to 84 gpm. Pulled and cleaned PW-6.

Signature _____

Attachment B
Selected pages from
ASC Analytical Data Package #0411153
November 2004

analytical services center
International Specialists in Environmental Analysis
4493 Walden Avenue, Lancaster, New York 14086
Tel: 716/685-8080, 800/327-6534 • Fax: 716/685-0852 • Email: asc@ene.com

December 02, 2004

Mr. Mike Steffan
E and E Buffalo Office
368 Pleasant View Dr.
Lancaster, NY 14086

RE: Mr. Cs Dry Cleaners
CostPoint ID: **000699.NY06.05..**

Work Order No.: **0411153**

Dear Mr. Mike Steffan,

Analytical Services Center received 4 samples on Tuesday, November 09, 2004 for the analyses presented in the following report.

The ASC certifies that the test results in this report meet all requirements of NELAC for which it holds certification except as noted in this narrative and/or as flagged in the report.

The ASC is accredited in the Fields of Testing Potable water (SDWA), Solid and Chemical Materials (Solid Hazardous Wastes, RCRA), Water (CWA and other non-potable water) and Air and Emissions. Its primary accrediting authorities are New York State Department of Health and Florida Department of Health. The particular analytes/methods certified may be ascertained by requesting the laboratory's current certificates from your laboratory Project Manager .

E & E will retain the samples addressed in this report for 30 days, unless otherwise instructed by the client. If additional storage is requested, the storage fee is $1.00 per sample container per month, to accrue until the client authorizes sample destruction.

Sincerely,

Barbara Krajewski
Project Manager

CC:
Enclosures as noted

Analytical Services Center
International Specialists in Environmental Analysis
4493 Walden Avenue
a division of ecology and environment, inc. Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: E AND E BUFFALO
Project: Mr. Cs Dry Cleaners
Lab Order: 0411153

CASE NARRATIVE

GCMS VOLATILES - WATER ANALYSIS
A DB624 column from J&W that is 30-m long, 0.53 mm wide, and has a 3-um film thickness was used for the volatile analyses. A 30-cm TEKMAR #5 Trap was used for the volatile analyses consisting of approximately 1 cm of OV-1 packing, 8 cm of Tenax, 8 cm of silica gel, and 8 cm of activated charcoal.

Sample Analysis
Volatile samples were determined to be at a pH of 7.
Samples were analyzed within hold time.
Sample AS INFLUENT required analysis at a fifty-fold dilution due to the high concentration of tetrachloroethene present.

Calibration and Tunes
Initial and continuing calibrations were acceptable.
No manual peak integration was required.

QC
Surrogate recoveries were within acceptable limits.
Method blank analysis was acceptable.
Laboratory control sample (LCS) recoveries were acceptable.
Internal standard area responses were acceptable.

GC/MS VOLATILES - AIR ANALYSIS
A DB 624 column and a trap packed with carbosieve S and carbopack B was used for the volatile analysis.

Sample Analysis
Samples were analyzed within hold time.
The level of tetrachloroethene detected in the initial analysis of samples GAC EFFLUENT exceeded the instrument's calibration range. This sample was reanalyzed at twenty-five fold dilution. Results of both analyses are included in this report.
Tentatively identified compounds (TICs) reported were generated directly by the GC/MS computer without additional interpretation

Calibration and Tunes
Initial and continuing calibrations were acceptable.
No manual peak integration was required.

QC
Surrogate recoveries were within acceptable limits.
Method blank analyses were acceptable.

Sample duplicate (DUP) RPD values were acceptable.
Internal standard area responses were acceptable.

METALS
Sample Analysis
The samples were digested and analyzed within hold time.

Calibrations
Calibration of the ICP utilizes a zero and one non-zero standard to determine the linear equation for quantitation. A low concentration standard (PQL) is analyzed at the reporting level.
The initial and continuing calibrations were acceptable.

QC
The calibration and preparation blank analyses were acceptable.
Batch matrix spike/spike duplicate (MS/MSD) recoveries were within the control limits except for Copper, Aluminum, Calcium, Magnesium, Potassium and Sodium. All except for Copper were significantly greater than the spike. The RPD values were within the control limits.
The laboratory control sample (LCS) recoveries were within the control limits.
The serial dilution %D values were within the control limits.

GENERAL CHEMISTRY
Sample Analysis
Samples were analyzed within method hold time. Cyanide samples were analyzed outside of NYSDEC ASP contractual hold time.

Calibrations
Initial and continuing calibration standards were acceptable.

QC
Calibration and method blank analyses were acceptable.
Batch cyanide MS/MSD recoveries were low at 56.53% and 0% due to the matrix of the native sample. The acceptable range is between 82- 122 %.
Laboratory control sample (LCS) recoveries were acceptable except for low cyanide recovery at 89%. The acceptable range is 90- 110%.

CHAIN OF CUSTODY RECORD

ASC analytical services center

Ecology and Environment, Inc., Analytical Services Center
4493 Walden Avenue, Lancaster, New York, 14086, Tel: 716/685-8080, Fax 716/685-0852
Where Scientific Excellence and Efficiency Meet

Cooler No: _____
Lab: _____
Page: 1 of 1

PROJECT No: 000699NY0605
CLIENT: NYS DEC
SITE NAME: MR C'S DRY CLEANERS
LOCATION: (Include State) EAST AURORA, NY
PROJECT MANAGER: MIKE STEFFAN
OFFICE No.: HQ EXT 2528
FIELD TEAM LEADER: JAMES MAYS
PHONE No.: HQ EXT 2626
SAMPLERS: (PRINT) RICK BECKEN & JAMES MAYS

CONTAINER TYPE AND PRESERVATIVE: Summa Canister; 16 oz Poly HNO3; 1L Poly NaOH; 1L Poly; 40 mL VOA Vial

TURNAROUND TIME: 24-HOUR ☐ RUSH; 48-HOUR ☐; 1-WEEK ☐; STANDARD ☒; OTHER _____

REQUESTED ANALYSIS

DATE	TIME	SAMPLE ID	MATRIX CODE	CHECK FOR MS/MSD	No. OF CONTAINERS	VOCs (TO14A)	METALS	CYANIDE	TSS/TDS, HARDNESS	VOCs				OVA/HNU READINGS (PPM)	BEGINNING DEPTH (FEET BGS)	ENDING DEPTH (FEET BGS)	REMARKS
11/09/04	1200	AS INFLUENT	GW		6		X	X	X	X							
11/09/04	1205	AS EFFLUENT	GW		6		X	X	X	X							
11/09/04	1000	GAC INFLUENT	A		1	X			CANISTER # 2282								START TIME: 1000 STOP TIME: 1100
11/09/04	1000	GAC EFFLUENT	A		1	X			CANISTER # 1015								START TIME: 1000 STOP TIME: 1100

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Date/Time:	Temperature Blank Info.	LAB PROJECT No.:	LAB PROJECT MANAGER:
[signature]	1509 11/09/04	[signature]	11-9-04 3:10	Enclosed: (Yes) No		
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Date/Time:	Ship Via: Date:		
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Date/Time:	BL/Airbill Number:	(FOR LAB USE ONLY) Date: Time: Temperature: °C Work Order No:	

Distribution: White - Lab original Yellow - Field team leader/Project Manager

F1260699.P65

Analytical Services Center
International Specialists in Environmental Analysis
4493 Walden Avenue
a division of ecology and environment, inc. Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: E and E Buffalo Office
Client Sample ID: AS INFLUENT
Lab Order: 0411153
Alt. Client ID:
Project: Mr. Cs Dry Cleaners
Collection Date: 11/9/2004 12:00:00 P **% Moist:**
Lab ID: 0411153-01A **Sample Type:** SAMP **Matrix:** Groundwater **Test Code:** 1_8260B_5030B_TCL_LL_W

LOW LEVEL VOCS BY METHOD 8260B **Method:** SW8260B **Prep Method:** SW5030B_LL

Analyte	Result	Q	RL	Units	DF	Date Analyzed	Run Batch ID	Analyst
1,1,1-Trichloroethane	ND		50.0	µg/L	50	11/16/2004 7:53:00 AM	LINUS_041115B	GP
1,1,2,2-Tetrachloroethane	ND		50.0	µg/L	50			
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50.0	µg/L	50			
1,1,2-Trichloroethane	ND		50.0	µg/L	50			
1,1-Dichloroethane	ND		50.0	µg/L	50			
1,1-Dichloroethene	ND		50.0	µg/L	50			
1,2,4-Trichlorobenzene	ND		50.0	µg/L	50			
1,2-Dibromo-3-chloropropane	ND		250	µg/L	50			
1,2-Dibromoethane	ND		50.0	µg/L	50			
1,2-Dichlorobenzene	ND		50.0	µg/L	50			
1,2-Dichloroethane	ND		50.0	µg/L	50			
1,2-Dichloropropane	ND		50.0	µg/L	50			
1,3-Dichlorobenzene	ND		50.0	µg/L	50			
1,4-Dichlorobenzene	ND		50.0	µg/L	50			
2-Butanone	ND		250	µg/L	50			
2-Hexanone	ND		250	µg/L	50			
4-Methyl-2-pentanone	ND		250	µg/L	50			
Acetone	ND		250	µg/L	50			
Benzene	ND		50.0	µg/L	50			
Bromodichloromethane	ND		50.0	µg/L	50			
Bromoform	ND		50.0	µg/L	50			
Bromomethane	ND		100	µg/L	50			
Carbon disulfide	ND		250	µg/L	50			
Carbon tetrachloride	ND		50.0	µg/L	50			
Chlorobenzene	ND		50.0	µg/L	50			
Chloroethane	ND		100	µg/L	50			
Chloroform	ND		50.0	µg/L	50			
Chloromethane	ND		100	µg/L	50			
cis-1,2-Dichloroethene	5.40	J	50.0	µg/L	50			
cis-1,3-Dichloropropene	ND		50.0	µg/L	50			
Cyclohexane	ND		50.0	µg/L	50			
Dibromochloromethane	ND		50.0	µg/L	50			
Dichlorodifluoromethane	ND		250	µg/L	50			
Ethylbenzene	ND		50.0	µg/L	50			
Isopropylbenzene	ND		50.0	µg/L	50			
Methyl acetate	ND		50.0	µg/L	50			
Methyl tert-butyl ether	11.1	J	50.0	µg/L	50			

Definitions:

* - Recovery outside QC limits
B - Analyte found in Method blank
D - Diluted due to maxtrix or extended target compounds
DF - Dilution Factor
DNI - Did not Ignite
E - Result above quantitation limit (high standard or ICP linear range).
H - Value Exceeds Maximum Contaminant Level
J - Estimated value
M - Matrix Spike Recovery outside limits
N - Single Column Analysis
NC - Not Calculated
ND - Not Detected at the Reporting Limit
NP - Petroleum Pattern is not present
P - Post Spike Recovery outside limits
R - RPD outside recovery limits

Analytical Services Center
International Specialists in Environmental Analysis
4493 Walden Avenue
a division of ecology and environment, inc. Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: E and E Buffalo Office
Client Sample ID: AS INFLUENT
Lab Order: 0411153
Alt. Client ID:
Project: Mr. Cs Dry Cleaners
Collection Date: 11/9/2004 12:00:00 P **% Moist:**

Lab ID: 0411153-01A **Sample Type:** SAMP **Matrix:** Groundwater **Test Code:** 1_8260B_5030B_TCL_LL_W

LOW LEVEL VOCS BY METHOD 8260B **Method:** SW8260B **Prep Method:** SW5030B_LL

Analyte	Result	Q	RL	Units	DF	Date Analyzed	Run Batch ID	Analyst
Methylcyclohexane	ND		50.0	µg/L	50			
Methylene chloride	ND		50.0	µg/L	50			
Styrene	ND		50.0	µg/L	50			
Tetrachloroethene	1430		50.0	µg/L	50			
Toluene	ND		50.0	µg/L	50			
trans-1,2-Dichloroethene	ND		50.0	µg/L	50			
trans-1,3-Dichloropropene	ND		50.0	µg/L	50			
Trichloroethene	33.5	J	50.0	µg/L	50			
Trichlorofluoromethane	ND		50.0	µg/L	50			
Vinyl chloride	ND		50.0	µg/L	50			
Xylenes, Total	ND		50.0	µg/L	50			
Surr:1,2-Dichloroethane-d4	102		70 - 128	%REC	50	11/16/2004 7:53:00 AM	LINUS_041115B	GP
Surr:4-Bromofluorobenzene	96		80 - 119	%REC	50			
Surr:Dibromofluoromethane	98		85 - 110	%REC	50			
Surr:Toluene-d8	93		83 - 110	%REC	50			

Definitions:

* - Recovery outside QC limits
B - Analyte found in Method blank
D - Diluted due to matrix or extended target compounds
DF - Dilution Factor
DNI - Did not Ignite
E - Result above quantitation limit (high standard or ICP linear range).
H - Value Exceeds Maximum Contaminant Level
J - Estimated value
M - Matrix Spike Recovery outside limits
N - Single Column Analysis
NC - Not Calculated
ND - Not Detected at the Reporting Limit
NP - Petroleum Pattern is not present
P - Post Spike Recovery outside limits
R - RPD outside recovery limits

Analytical Services Center
International Specialists in Environmental Analysis
4493 Walden Avenue
a division of ecology and environment, inc. Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: E and E Buffalo Office
Client Sample ID: AS EFFLUENT
Lab Order: 0411153
Alt. Client ID:
Project: Mr. Cs Dry Cleaners
Collection Date: 11/9/2004 12:05:00 P **% Moist:**
Lab ID: 0411153-02A **Sample Type:** SAMP **Matrix:** Groundwater **Test Code:** 1_8260B_5030B_TCL_LL_W

LOW LEVEL VOCS BY METHOD 8260B **Method:** SW8260B **Prep Method:** SW5030B_LL

Analyte	Result	Q	RL	Units	DF	Date Analyzed	Run Batch ID	Analyst
1,1,1-Trichloroethane	ND		1.00	µg/L	1	11/16/2004 6:50:00 AM	LINUS_041115B	GP
1,1,2,2-Tetrachloroethane	ND		1.00	µg/L	1			
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	µg/L	1			
1,1,2-Trichloroethane	ND		1.00	µg/L	1			
1,1-Dichloroethane	ND		1.00	µg/L	1			
1,1-Dichloroethene	ND		1.00	µg/L	1			
1,2,4-Trichlorobenzene	ND		1.00	µg/L	1			
1,2-Dibromo-3-chloropropane	ND		5.00	µg/L	1			
1,2-Dibromoethane	ND		1.00	µg/L	1			
1,2-Dichlorobenzene	ND		1.00	µg/L	1			
1,2-Dichloroethane	ND		1.00	µg/L	1			
1,2-Dichloropropane	ND		1.00	µg/L	1			
1,3-Dichlorobenzene	ND		1.00	µg/L	1			
1,4-Dichlorobenzene	ND		1.00	µg/L	1			
2-Butanone	ND		5.00	µg/L	1			
2-Hexanone	ND		5.00	µg/L	1			
4-Methyl-2-pentanone	0.525	J	5.00	µg/L	1			
Acetone	5.87		5.00	µg/L	1			
Benzene	ND		1.00	µg/L	1			
Bromodichloromethane	ND		1.00	µg/L	1			
Bromoform	ND		1.00	µg/L	1			
Bromomethane	ND		2.00	µg/L	1			
Carbon disulfide	ND		5.00	µg/L	1			
Carbon tetrachloride	ND		1.00	µg/L	1			
Chlorobenzene	ND		1.00	µg/L	1			
Chloroethane	ND		2.00	µg/L	1			
Chloroform	ND		1.00	µg/L	1			
Chloromethane	ND		2.00	µg/L	1			
cis-1,2-Dichloroethene	ND		1.00	µg/L	1			
cis-1,3-Dichloropropene	ND		1.00	µg/L	1			
Cyclohexane	ND		1.00	µg/L	1			
Dibromochloromethane	ND		1.00	µg/L	1			
Dichlorodifluoromethane	ND		5.00	µg/L	1			
Ethylbenzene	ND		1.00	µg/L	1			
Isopropylbenzene	ND		1.00	µg/L	1			
Methyl acetate	ND		1.00	µg/L	1			
Methyl tert-butyl ether	1.75		1.00	µg/L	1			

Definitions:

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B - Analyte found in Method blank
D - Diluted due to matrix or extended target compounds
DF - Dilution Factor
DNI - Did not Ignite
E - Result above quantitation limit (high standard or ICP linear range).
H - Value Exceeds Maximum Contaminant Level
J - Estimated value
M - Matrix Spike Recovery outside limits
N - Single Column Analysis
NC - Not Calculated
ND - Not Detected at the Reporting Limit
NP - Petroleum Pattern is not present
P - Post Spike Recovery outside limits
R - RPD outside recovery limits

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4493 Walden Avenue
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Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: E and E Buffalo Office
Client Sample ID: AS EFFLUENT
Lab Order: 0411153
Alt. Client ID:
Project: Mr. Cs Dry Cleaners
Collection Date: 11/9/2004 12:05:00 P **% Moist:**
Lab ID: 0411153-02A **Sample Type:** SAMP **Matrix:** Groundwater **Test Code:** 1_8260B_5030B_TCL_LL_W

LOW LEVEL VOCS BY METHOD 8260B **Method:** SW8260B **Prep Method:** SW5030B_LL

Analyte	Result	Q	RL	Units	DF	Date Analyzed	Run Batch ID	Analyst
Methylcyclohexane	ND		1.00	µg/L	1			
Methylene chloride	ND		1.00	µg/L	1			
Styrene	ND		1.00	µg/L	1			
Tetrachloroethene	24.8		1.00	µg/L	1			
Toluene	0.158	J	1.00	µg/L	1			
trans-1,2-Dichloroethene	ND		1.00	µg/L	1			
trans-1,3-Dichloropropene	ND		1.00	µg/L	1			
Trichloroethene	3.32		1.00	µg/L	1			
Trichlorofluoromethane	ND		1.00	µg/L	1			
Vinyl chloride	ND		1.00	µg/L	1			
Xylenes, Total	ND		1.00	µg/L	1			
Surr:1,2-Dichloroethane-d4	105		70 - 128	%REC	1	11/16/2004 6:50:00 AM	LINUS_041115B	GP
Surr:4-Bromofluorobenzene	97		80 - 119	%REC	1			
Surr:Dibromofluoromethane	100		85 - 110	%REC	1			
Surr:Toluene-d8	96		83 - 110	%REC	1			

Definitions:

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H - Value Exceeds Maximum Contaminant Level
J - Estimated value
M - Matrix Spike Recovery outside limits
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NC - Not Calculated
ND - Not Detected at the Reporting Limit
NP - Petroleum Pattern is not present
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Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: E and E Buffalo Office
Client Sample ID: GAC INFLUENT
Lab Order: 0411153
Alt. Client ID:
Project: Mr. Cs Dry Cleaners
Collection Date: 11/9/2004 10:00:00 A **% Moist:**
Lab ID: 0411153-03A **Sample Type:** SAMP **Matrix:** Air **Test Code:** 1_TO14_A

VOLATILE ORGANICS IN AIR BY METHOD TO-14A **Method:** EPATO14 **Prep Method:** NA

Analyte	Result	Q	RL	Units	DF	Date Analyzed	Run Batch ID	Analyst
1,1,1-Trichloroethane	ND		2.00	ppbv	1	11/12/2004 12:38:00 PM	JAKE_041112A	RMJ
1,1,2,2-Tetrachloroethane	ND		2.00	ppbv	1			
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.00	ppbv	1			
1,1,2-Trichloroethane	ND		2.00	ppbv	1			
1,1-Dichloroethane	ND		2.00	ppbv	1			
1,1-Dichloroethene	ND		2.00	ppbv	1			
1,2,4-Trichlorobenzene	ND		2.00	ppbv	1			
1,2,4-Trimethylbenzene	0.589	J	2.00	ppbv	1			
1,2-Dibromoethane	ND		2.00	ppbv	1			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.00	ppbv	1			
1,2-Dichlorobenzene	ND		2.00	ppbv	1			
1,2-Dichloroethane	ND		2.00	ppbv	1			
1,2-Dichloropropane	ND		2.00	ppbv	1			
1,3,5-Trimethylbenzene	ND		2.00	ppbv	1			
1,3-Dichlorobenzene	ND		2.00	ppbv	1			
1,4-Dichlorobenzene	ND		2.00	ppbv	1			
Benzene	ND		2.00	ppbv	1			
Benzyl chloride	ND		2.00	ppbv	1			
Bromomethane	ND		2.00	ppbv	1			
Carbon tetrachloride	ND		2.00	ppbv	1			
Chlorobenzene	ND		2.00	ppbv	1			
Chloroethane	ND		2.00	ppbv	1			
Chloroform	ND		2.00	ppbv	1			
Chloromethane	0.703	J	2.00	ppbv	1			
cis-1,2-Dichloroethene	4.59		2.00	ppbv	1			
cis-1,3-Dichloropropene	ND		2.00	ppbv	1			
Dichlorodifluoromethane	ND		2.00	ppbv	1			
Ethylbenzene	ND		2.00	ppbv	1			
Hexachlorobutadiene	ND		2.00	ppbv	1			
m,p-Xylene	ND		4.00	ppbv	1			
Methyl tert-butyl ether	ND		2.00	ppbv	1			
Methylene chloride	0.595	J	2.00	ppbv	1			
o-Xylene	ND		2.00	ppbv	1			
Styrene	ND		2.00	ppbv	1			
Tetrachloroethene	5.76		2.00	ppbv	1			
Toluene	ND		2.00	ppbv	1			

Definitions:

* - Recovery outside QC limits
B - Analyte found in Method blank
D - Diluted due to matrix or extended target compounds
DF - Dilution Factor
DNI - Did not Ignite
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H - Value Exceeds Maximum Contaminant Level
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NC - Not Calculated
ND - Not Detected at the Reporting Limit
NP - Petroleum Pattern is not present
P - Post Spike Recovery outside limits
R - RPD outside recovery limits

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Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: E and E Buffalo Office
Client Sample ID: GAC INFLUENT
Lab Order: 0411153
Alt. Client ID:
Project: Mr. Cs Dry Cleaners
Collection Date: 11/9/2004 10:00:00 A **% Moist:**
Lab ID: 0411153-03A **Sample Type:** SAMP **Matrix:** Air **Test Code:** 1_TO14_A

VOLATILE ORGANICS IN AIR BY METHOD TO-14A **Method:** EPATO14 **Prep Method:** NA

Analyte	Result	Q	RL	Units	DF	Date Analyzed	Run Batch ID	Analyst
trans-1,2-Dichloroethene	0.441	J	2.00	ppbv	1			
trans-1,3-Dichloropropene	ND		2.00	ppbv	1			
Trichloroethene	ND		2.00	ppbv	1			
Trichlorofluoromethane	ND		2.00	ppbv	1			
Vinyl chloride	ND		2.00	ppbv	1			
Xylenes, Total	ND		6.00	ppbv	1			
Surr:1,2-Dichloroethane-d4	103		80 - 120	%REC	1	11/12/2004 12:38:00 PM	JAKE_041112A	RMJ
Surr:4-Bromofluorobenzene	101		80 - 120	%REC	1			
Surr:Toluene-d8	99		80 - 120	%REC	1			

Definitions:

* - Recovery outside QC limits
B - Analyte found in Method blank
D - Diluted due to matrix or extended target compounds
DF - Dilution Factor
DNI - Did not Ignite
E - Result above quantitation limit (high standard or ICP linear range).
H - Value Exceeds Maximum Contaminant Level
J - Estimated value
M - Matrix Spike Recovery outside limits
N - Single Column Analysis
NC - Not Calculated
ND - Not Detected at the Reporting Limit
NP - Petroleum Pattern is not present
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R - RPD outside recovery limits

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Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: E and E Buffalo Office
Client Sample ID: GAC EFFFLUENT
Lab Order: 0411153
Alt. Client ID:
Project: Mr. Cs Dry Cleaners
Collection Date: 11/9/2004 10:00:00 A **% Moist:**
Lab ID: 0411153-04A **Sample Type:** SAMP **Matrix:** Air **Test Code:** 1_TO14_A

VOLATILE ORGANICS IN AIR BY METHOD TO-14A **Method:** EPATO14 **Prep Method:** NA

Analyte	Result	Q	RL	Units	DF	Date Analyzed	Run Batch ID	Analyst
1,1,1-Trichloroethane	0.580	J	2.00	ppbv	1	11/12/2004 1:05:00 AM	JAKE_041111B	RMJ
1,1,2,2-Tetrachloroethane	ND		2.00	ppbv	1			
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.00	ppbv	1			
1,1,2-Trichloroethane	ND		2.00	ppbv	1			
1,1-Dichloroethane	ND		2.00	ppbv	1			
1,1-Dichloroethene	ND		2.00	ppbv	1			
1,2,4-Trichlorobenzene	ND		2.00	ppbv	1			
1,2,4-Trimethylbenzene	0.731	J	2.00	ppbv	1			
1,2-Dibromoethane	ND		2.00	ppbv	1			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.00	ppbv	1			
1,2-Dichlorobenzene	ND		2.00	ppbv	1			
1,2-Dichloroethane	ND		2.00	ppbv	1			
1,2-Dichloropropane	ND		2.00	ppbv	1			
1,3,5-Trimethylbenzene	ND		2.00	ppbv	1			
1,3-Dichlorobenzene	ND		2.00	ppbv	1			
1,4-Dichlorobenzene	ND		2.00	ppbv	1			
Benzene	0.606	J	2.00	ppbv	1			
Benzyl chloride	ND		2.00	ppbv	1			
Bromomethane	ND		2.00	ppbv	1			
Carbon tetrachloride	ND		2.00	ppbv	1			
Chlorobenzene	ND		2.00	ppbv	1			
Chloroethane	ND		2.00	ppbv	1			
Chloroform	ND		2.00	ppbv	1			
Chloromethane	ND		2.00	ppbv	1			
cis-1,2-Dichloroethene	6.62		2.00	ppbv	1			
cis-1,3-Dichloropropene	ND		2.00	ppbv	1			
Dichlorodifluoromethane	ND		2.00	ppbv	1			
Ethylbenzene	1.43	J	2.00	ppbv	1			
Hexachlorobutadiene	ND		2.00	ppbv	1			
m,p-Xylene	4.47		4.00	ppbv	1			
Methyl tert-butyl ether	15.0		2.00	ppbv	1			
Methylene chloride	ND		2.00	ppbv	1			
o-Xylene	0.970	J	2.00	ppbv	1			
Styrene	1.27	J	2.00	ppbv	1			
Tetrachloroethene	613	E	2.00	ppbv	1			
Toluene	7.13		2.00	ppbv	1			

Definitions:

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R - RPD outside recovery limits

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Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: E and E Buffalo Office
Client Sample ID: GAC EFFFLUENT
Lab Order: 0411153
Alt. Client ID:
Project: Mr. Cs Dry Cleaners
Collection Date: 11/9/2004 10:00:00 A **% Moist:**

Lab ID: 0411153-04A **Sample Type:** SAMP **Matrix:** Air **Test Code:** 1_TO14_A

VOLATILE ORGANICS IN AIR BY METHOD TO-14A **Method:** EPATO14 **Prep Method:** NA

Analyte	Result	Q	RL	Units	DF	Date Analyzed	Run Batch ID	Analyst
trans-1,2-Dichloroethene	0.846	J	2.00	ppbv	1			
trans-1,3-Dichloropropene	ND		2.00	ppbv	1			
Trichloroethene	37.1		2.00	ppbv	1			
Trichlorofluoromethane	ND		2.00	ppbv	1			
Vinyl chloride	ND		2.00	ppbv	1			
Xylenes, Total	5.44	J	6.00	ppbv	1			
Surr:1,2-Dichloroethane-d4	104		80 - 120	%REC	1	11/12/2004 1:05:00 AM	JAKE_041111B	RMJ
Surr:4-Bromofluorobenzene	102		80 - 120	%REC	1			
Surr:Toluene-d8	114		80 - 120	%REC	1			

Definitions:

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E - Result above quantitation limit (high standard or ICP linear range).
H - Value Exceeds Maximum Contaminant Level
J - Estimated value
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N - Single Column Analysis
NC - Not Calculated
ND - Not Detected at the Reporting Limit
NP - Petroleum Pattern is not present
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R - RPD outside recovery limits

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Lancaster, New York 14086
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Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: E and E Buffalo Office
Lab Order: 0411153
Project: Mr. Cs Dry Cleaners
Client Sample ID: AS INFLUENT
Alt. Client ID:
Collection Date: 11/9/2004 12:00:00 P **% Moist:**
Lab ID: 0411153-01B **Sample Type:** SAMP **Matrix:** Groundwater **Test Code:** 1_6010B_TAL_W

ICP METALS ANALYSIS BY METHOD 6010B **Method:** SW6010B **Prep Method:** SW3010A

Analyte	Result	Q	RL	Units	DF	Date Analyzed	Run Batch ID	Analyst
Aluminum	ND		200	µg/L	1	11/15/2004 12:48:52 PM	OPTIMA3300_041115A	TJG
Antimony	ND		20.0	µg/L	1	11/15/2004 2:52:08 PM	OPTIMA_041115B	
Arsenic	ND		25.0	µg/L	1			
Barium	150		20.0	µg/L	1			
Beryllium	ND		5.00	µg/L	1			
Cadmium	ND		5.00	µg/L	1			
Calcium	109000		1500	µg/L	1	11/15/2004 12:48:52 PM	OPTIMA3300_041115A	
Chromium	ND		10.0	µg/L	1	11/15/2004 2:52:08 PM	OPTIMA_041115B	
Cobalt	ND		20.0	µg/L	1			
Copper	164		20.0	µg/L	1			
Iron	840		200	µg/L	1	11/15/2004 12:48:52 PM	OPTIMA3300_041115A	
Lead	15.8		5.00	µg/L	1	11/15/2004 2:52:08 PM	OPTIMA_041115B	
Magnesium	16900		1500	µg/L	1	11/15/2004 12:48:52 PM	OPTIMA3300_041115A	
Manganese	183		10.0	µg/L	1	11/15/2004 2:52:08 PM	OPTIMA_041115B	
Nickel	ND		20.0	µg/L	1			
Potassium	4640		1500	µg/L	1	11/15/2004 12:48:52 PM	OPTIMA3300_041115A	
Selenium	ND		20.0	µg/L	1	11/15/2004 2:52:08 PM	OPTIMA_041115B	
Silver	ND		10.0	µg/L	1			
Sodium	177000		1500	µg/L	1	11/15/2004 12:48:52 PM	OPTIMA3300_041115A	
Thallium	ND		20.0	µg/L	1	11/15/2004 2:52:08 PM	OPTIMA_041115B	
Vanadium	ND		20.0	µg/L	1			
Zinc	ND		20.0	µg/L	1			

Definitions:

* - Recovery outside QC limits
B - Analyte found in Method blank
D - Diluted due to maxtrix or extended target compounds
DF - Dilution Factor
DNI - Did not Ignite
E - Result above quantitation limit (high standard or ICP linear range).
H - Value Exceeds Maximum Contaminant Level
J - Estimated value
M - Matrix Spike Recovery outside limits
N - Single Column Analysis
NC - Not Calculated
ND - Not Detected at the Reporting Limit
NP - Petroleum Pattern is not present
P - Post Spike Recovery outside limits
R - RPD outside recovery limits

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Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: E and E Buffalo Office
Client Sample ID: AS EFFLUENT
Lab Order: 0411153
Alt. Client ID:
Project: Mr. Cs Dry Cleaners
Collection Date: 11/9/2004 12:05:00 P **% Moist:**
Lab ID: 0411153-02B **Sample Type:** SAMP **Matrix:** Groundwater **Test Code:** 1_6010B_TAL_W

ICP METALS ANALYSIS BY METHOD 6010B **Method:** SW6010B **Prep Method:** SW3010A

Analyte	Result	Q	RL	Units	DF	Date Analyzed	Run Batch ID	Analyst
Aluminum	ND		200	µg/L	1	11/15/2004 12:54:42 PM	OPTIMA3300_041115A	TJG
Antimony	ND		20.0	µg/L	1	11/15/2004 2:56:58 PM	OPTIMA_041115B	
Arsenic	ND		25.0	µg/L	1			
Barium	149		20.0	µg/L	1			
Beryllium	ND		5.00	µg/L	1			
Cadmium	ND		5.00	µg/L	1			
Calcium	111000		1500	µg/L	1	11/15/2004 12:54:42 PM	OPTIMA3300_041115A	
Chromium	ND		10.0	µg/L	1	11/15/2004 2:56:58 PM	OPTIMA_041115B	
Cobalt	ND		20.0	µg/L	1			
Copper	ND		20.0	µg/L	1			
Iron	709		200	µg/L	1	11/15/2004 12:54:42 PM	OPTIMA3300_041115A	
Lead	ND		5.00	µg/L	1	11/15/2004 2:56:58 PM	OPTIMA_041115B	
Magnesium	17400		1500	µg/L	1	11/15/2004 12:54:42 PM	OPTIMA3300_041115A	
Manganese	193		10.0	µg/L	1	11/15/2004 2:56:58 PM	OPTIMA_041115B	
Nickel	ND		20.0	µg/L	1			
Potassium	4680		1500	µg/L	1	11/15/2004 12:54:42 PM	OPTIMA3300_041115A	
Selenium	ND		20.0	µg/L	1	11/15/2004 2:56:58 PM	OPTIMA_041115B	
Silver	ND		10.0	µg/L	1			
Sodium	184000		1500	µg/L	1	11/15/2004 12:54:42 PM	OPTIMA3300_041115A	
Thallium	ND		20.0	µg/L	1	11/15/2004 2:56:58 PM	OPTIMA_041115B	
Vanadium	ND		20.0	µg/L	1			
Zinc	ND		20.0	µg/L	1			

Definitions:

* - Recovery outside QC limits
B - Analyte found in Method blank
D - Diluted due to maxtrix or extended target compounds
DF - Dilution Factor
DNI - Did not Ignite
E - Result above quantitation limit (high standard or ICP linear range).
H - Value Exceeds Maximum Contaminant Level
J - Estimated value
M - Matrix Spike Recovery outside limits
N - Single Column Analysis
NC - Not Calculated
ND - Not Detected at the Reporting Limit
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Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: E and E Buffalo Office
Lab Order: 0411153
Project: Mr. Cs Dry Cleaners

Client Sample ID: AS INFLUENT
Alt. Client ID:
Collection Date: 11/9/2004 12:00:00 P **% Moist:**

Lab ID: 0411153-01B **Sample Type:** SAMP **Matrix:** Groundwater **Test Code:** 1_7470A_HG_W

MERCURY ANALYSIS IN WATER BY METHOD 7470A **Method:** SW7470A **Prep Method:** SW7470A

Analyte	Result	Q	RL	Units	DF	Date Analyzed	Run Batch ID	Analyst
Mercury	ND		0.200	µg/L	1	11/23/2004 2:50:02 PM	LEEMAN_041123E	JLS

Definitions:

* - Recovery outside QC limits
B - Analyte found in Method blank
D - Diluted due to matrix or extended target compounds
DF - Dilution Factor
DNI - Did not Ignite
E - Result above quantitation limit (high standard or ICP linear range).
H - Value Exceeds Maximum Contaminant Level
J - Estimated value
M - Matrix Spike Recovery outside limits
N - Single Column Analysis
NC - Not Calculated
ND - Not Detected at the Reporting Limit
NP - Petroleum Pattern is not present
P - Post Spike Recovery outside limits
R - RPD outside recovery limits

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Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: E and E Buffalo Office
Client Sample ID: AS EFFLUENT
Lab Order: 0411153
Alt. Client ID:
Project: Mr. Cs Dry Cleaners
Collection Date: 11/9/2004 12:05:00 P **% Moist:**

Lab ID: 0411153-02B **Sample Type:** SAMP **Matrix:** Groundwater **Test Code:** 1_7470A_HG_W

MERCURY ANALYSIS IN WATER BY METHOD 7470A **Method:** SW7470A **Prep Method:** SW7470A

Analyte	Result	Q	RL	Units	DF	Date Analyzed	Run Batch ID	Analyst
Mercury	ND		0.200	µg/L	1	11/23/2004 2:51:19 PM	LEEMAN_041123E	JLS

Definitions:

* - Recovery outside QC limits
B - Analyte found in Method blank
D - Diluted due to maxtrix or extended target compounds
DF - Dilution Factor
DNI - Did not Ignite
E - Result above quantitation limit (high standard or ICP linear range).
H - Value Exceeds Maximum Contaminant Level
J - Estimated value
M - Matrix Spike Recovery outside limits
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ND - Not Detected at the Reporting Limit
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P - Post Spike Recovery outside limits
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Analytical Services Center
International Specialists in Environmental Analysis
4493 Walden Avenue
a division of ecology and environment, inc. Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486
Phone: (716) 685-8080

Client: E and E Buffalo Office
Client Sample ID: AS EFFLUENT
Lab Order: 0411153
Alt. Client ID:
Project: Mr. Cs Dry Cleaners
Collection Date: 11/9/2004 12:05:00 P **% Moist:**
Lab ID: 0411153-02D **Sample Type:** SAMP **Matrix:** Groundwater **Test Code:** 1_160.2_TSS_W

TOTAL SUSPENDED SOLIDS, NON-FILTERABLE RESIDUE **Method:** EPA160.2 **Prep Method:** NA

Analyte	Result	Q	RL	Units	DF	Date Analyzed	Run Batch ID	Analyst
Total Suspended Solids (Residue, Non-Filterable)	11		4.0	mg/L	1	11/12/2004	SARTORIUS_TSS_041112A	PAN

Definitions:

* - Recovery outside QC limits
B - Analyte found in Method blank
D - Diluted due to maxtrix or extended target compounds
DF - Dilution Factor
DNI - Did not Ignite
E - Result above quantitation limit (high standard or ICP linear range).
H - Value Exceeds Maximum Contaminant Level
J - Estimated value
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Client: E and E Buffalo Office
Client Sample ID: AS INFLUENT
Lab Order: 0411153
Alt. Client ID:
Project: Mr. Cs Dry Cleaners
Collection Date: 11/9/2004 12:00:00 P **% Moist:**
Lab ID: 0411153-01D **Sample Type:** SAMP **Matrix:** Groundwater **Test Code:** 1_160.2_TSS_W

TOTAL SUSPENDED SOLIDS, NON-FILTERABLE RESIDUE **Method:** EPA160.2 **Prep Method:** NA

Analyte	Result	Q	RL	Units	DF	Date Analyzed	Run Batch ID	Analyst
Total Suspended Solids (Residue, Non-Filterable)	12		4.0	mg/L	1	11/12/2004	SARTORIUS_TSS_041112A	PAN

Definitions:

* - Recovery outside QC limits
B - Analyte found in Method blank
D - Diluted due to maxtrix or extended target compounds
DF - Dilution Factor
DNI - Did not Ignite
E - Result above quantitation limit (high standard or ICP linear range).
H - Value Exceeds Maximum Contaminant Level
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Client: E and E Buffalo Office
Client Sample ID: AS EFFLUENT
Lab Order: 0411153
Alt. Client ID:
Project: Mr. Cs Dry Cleaners
Collection Date: 11/9/2004 12:05:00 P **% Moist:**
Lab ID: 0411153-02D **Sample Type:** SAMP **Matrix:** Groundwater **Test Code:** 1_160.1_TDS_W

TOTAL DISSOLVED SOLIDS (TDS) BY METHOD EPA 160.1 **Method:** EPA160.1 **Prep Method:** NA

Analyte	Result	Q	RL	Units	DF	Date Analyzed	Run Batch ID	Analyst
Total Dissolved Solids (Residue, Filterable)	850		10	mg/L	1	11/12/2004	SARTORIUS_TDS_041112A	PAN

Definitions:

* - Recovery outside QC limits
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DF - Dilution Factor
DNI - Did not Ignite
E - Result above quantitation limit (high standard or ICP linear range).
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Client: E and E Buffalo Office
Client Sample ID: AS INFLUENT
Lab Order: 0411153
Alt. Client ID:
Project: Mr. Cs Dry Cleaners
Collection Date: 11/9/2004 12:00:00 P **% Moist:**
Lab ID: 0411153-01D **Sample Type:** SAMP **Matrix:** Groundwater **Test Code:** 1_160.1_TDS_W

TOTAL DISSOLVED SOLIDS (TDS) BY METHOD EPA 160.1 **Method:** EPA160.1 **Prep Method:** NA

Analyte	Result	Q	RL	Units	DF	Date Analyzed	Run Batch ID	Analyst
Total Dissolved Solids (Residue, Filterable)	860		10	mg/L	1	11/12/2004	SARTORIUS_TDS_041112A	PAN

Definitions:

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Client: E and E Buffalo Office
Client Sample ID: AS INFLUENT
Lab Order: 0411153
Alt. Client ID:
Project: Mr. Cs Dry Cleaners
Collection Date: 11/9/2004 12:00:00 P **% Moist:**

Lab ID: 0411153-01D **Sample Type:** SAMP **Matrix:** Groundwater **Test Code:** 1_130.2_HARD_W

HARDNESS, TOTAL BY METHOD EPA 130.2 **Method:** EPA130.2 **Prep Method:** NA

Analyte	Result	Q	RL	Units	DF	Date Analyzed	Run Batch ID	Analyst
Hardness (As CaCO3)	320		1.00	mg/L	1	12/1/2004	WC_HARDNESS_041201A	LMH

Definitions:

* - Recovery outside QC limits
B - Analyte found in Method blank
D - Diluted due to maxtrix or extended target compounds
DF - Dilution Factor
DNI - Did not Ignite
E - Result above quantitation limit (high standard or ICP linear range).
H - Value Exceeds Maximum Contaminant Level
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Client: E and E Buffalo Office
Client Sample ID: AS EFFLUENT
Lab Order: 0411153
Alt. Client ID:
Project: Mr. Cs Dry Cleaners
Collection Date: 11/9/2004 12:05:00 P **% Moist:**
Lab ID: 0411153-02D **Sample Type:** SAMP **Matrix:** Groundwater **Test Code:** 1_130.2_HARD_W

HARDNESS, TOTAL BY METHOD EPA 130.2 **Method:** EPA130.2 **Prep Method:** NA

Analyte	Result	Q	RL	Units	DF	Date Analyzed	Run Batch ID	Analyst
Hardness (As CaCO3)	314		1.00	mg/L	1	12/1/2004	WC_HARDNESS_041201A	LMH

Definitions:

* - Recovery outside QC limits
B - Analyte found in Method blank
D - Diluted due to maxtrix or extended target compounds
DF - Dilution Factor
DNI - Did not Ignite
E - Result above quantitation limit (high standard or ICP linear range).
H - Value Exceeds Maximum Contaminant Level
J - Estimated value
M - Matrix Spike Recovery outside limits
N - Single Column Analysis
NC - Not Calculated
ND - Not Detected at the Reporting Limit
NP - Petroleum Pattern is not present
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R - RPD outside recovery limits

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NYS ELAP ID#: 10486
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Client: E and E Buffalo Office
Client Sample ID: AS EFFLUENT
Lab Order: 0411153
Alt. Client ID:
Project: Mr. Cs Dry Cleaners
Collection Date: 11/9/2004 12:05:00 P **% Moist:**
Lab ID: 0411153-02C **Sample Type:** SAMP **Matrix:** Groundwater **Test Code:** 1_9012A_CN_W

CYANIDE, TOTAL BY METHOD 9012A **Method:** SW9012A **Prep Method:** NA

Analyte	Result	Q	RL	Units	DF	Date Analyzed	Run Batch ID	Analyst
Cyanide	ND		0.01	mg/L	1	11/23/2004 6:10:23 PM	LACHAT_CN_041123A	RLG

Definitions:

* - Recovery outside QC limits
B - Analyte found in Method blank
D - Diluted due to maxtrix or extended target compounds
DF - Dilution Factor
DNI - Did not Ignite
E - Result above quantitation limit (high standard or ICP linear range).
H - Value Exceeds Maximum Contaminant Level
J - Estimated value
M - Matrix Spike Recovery outside limits
N - Single Column Analysis
NC - Not Calculated
ND - Not Detected at the Reporting Limit
NP - Petroleum Pattern is not present
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R - RPD outside recovery limits

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Client: E and E Buffalo Office
Client Sample ID: AS INFLUENT
Lab Order: 0411153
Alt. Client ID:
Project: Mr. Cs Dry Cleaners
Collection Date: 11/9/2004 12:00:00 P **% Moist:**
Lab ID: 0411153-01C **Sample Type:** SAMP **Matrix:** Groundwater **Test Code:** 1_9012A_CN_W

CYANIDE, TOTAL BY METHOD 9012A **Method:** SW9012A **Prep Method:** NA

Analyte	Result	Q	RL	Units	DF	Date Analyzed	Run Batch ID	Analyst
Cyanide	ND		0.01	mg/L	1	11/23/2004 6:09:23 PM	LACHAT_CN_041123A	RLG

Definitions:

* - Recovery outside QC limits
B - Analyte found in Method blank
D - Diluted due to maxtrix or extended target compounds
DF - Dilution Factor
DNI - Did not Ignite
E - Result above quantitation limit (high standard or ICP linear range).
H - Value Exceeds Maximum Contaminant Level
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M - Matrix Spike Recovery outside limits
N - Single Column Analysis
NC - Not Calculated
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NP - Petroleum Pattern is not present
P - Post Spike Recovery outside limits
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Attachment C

Summary of Site Utility Costs and Projections
Mr. C's Dry Cleaners Site

October 2003 to November 2004

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

ATTACHMENT C

NYSDEC Work Assignment #27.4

12 Months of System Operation and Maintenance

September 2004 Report

Utility Budget:	
Electric:	$14,400.00
Telephone:	$540.00
Total:	$14,940.00

Gas and Electric

Utility Provider	Account #	E&E Cost Center	Description	October	November	December	January '04	February	March			
New York State E&G	06-311-11-002616-26	000699.NY06.05	Mr. C's Electric Costs	$ 923.50	$ 2,478.36	$ 2,741.98	$ 2,482.85	$ 2,024.17	$ 2,024.17			
National Fuel Gas	5819628-05	000699.NY06.05	Mr. C's Natural Gas Costs					$ 56.55	$ 153.32			
			Totals	**$ 923.50**	**$ 2,478.36**	**$ 2,741.98**	**$ 2,482.85**	**$ 2,080.72**	**$ 2,177.49**			

	April	May	June	July	August	September	October	November '04	Ave. /Month
Mr. C's Electric Costs	$ 1,791.95	$ 1,633.97	$ 1,605.43	$ 1,701.54	$ 1,381.96	$ 1,241.26	$ 1,016.84	$1,531.47	$ 1,681.85
Mr. C's Natural Gas Costs	$ 90.90	$ 66.37	$ 57.66	$ 54.86	$ 50.80	$ -	$ -		$ 47.88
	$ -	$ -							
Totals	**$ 1,882.85**	**$ 1,700.34**	**$ 1,663.09**	**$ 1,756.40**	**$ 1,432.76**	**$ 1,241.26**	**$ 1,016.84**	**$1,531.47**	**$ 1,729.72**

Grand Total - NYSE&G/National Fuel Gas Costs To Date **$ 25,109.91**

Phone

Utility Provider	Phone #	E&E Cost Center	Location Description	October	November	December	January '04	February '04	March '04			
Verizon	716-652-0094	000699.NY06.05	Mr. C's Telephone Costs	$ 213.24	$ 37.32	$ 39.12	$ 39.12	$ 44.18	$ 44.18			
Account#												
716 652 0094 416 26 2												

	April	May	June	July	August	September	October	Ave./Month
	$ 38.67	$ 39.75	$ 38.37	$ 38.01	$ 39.40	$ 42.39	$ 39.56	**$ 38.12**

Grand Total - Verizon Costs to Date **$ 693.31**

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

Grand Total All Utilities To Date **$ 25,803.22**

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

ATTACHMENT C

NYSDEC Work Assignment #27.3

12 Months of System Operation and Maintenance

Budget Remaining:	Electric:	-$10,709.91
	Telephone:	-$153.31
	Total:	-$10,863.22

O&M Months Remaining: 0

Monthly Treatment System Operational Time by O&M Services

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 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%	
Totals to Date	**9696**	**9366.5**	**96.60%**		

* 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 (10/03 to 11/04)

	Ave./Month			
Electric	$ 1,681.85			
Gas	$ 47.88			
Telephone	$ 38.12			
	$ 1,767.84	times	13 months	$22,981.97