



ecology and environment engineering, p.c.

BUFFALO CORPORATE CENTER

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September 30, 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 OCT 0 1 2004

NYSDEC REG 9

VREL UNREL

Re: Mr. C's Dry Cleaners Site, Contract # D004180, Site # 9-15-157 September 2004 O&M Report

Dear Mr. Chiusano:

Ecology and Environment Engineering, P.C. (EEEPC) is pleased to provide this September 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 September 21, 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 nearly 98% of the period between 8/23/04 and 9/27/04. The system shutdown at approximately 5:45 pm on 9/19/04 due to low stripper pressure. The system was down for approximately 20 hours. Low air stripper pressure condition was due to the presence of mineral deposits in stripper trays, which were occluding air flow. OMEI attempted to pressure wash trays on 9/20/04 with limited success. The air stripper trays require chemical cleaning. Rydlyme has been ordered and should be available for use in the beginning of October. 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 September 2004 indicate that approximately 1,201,913 gallons of groundwater were processed through the treatment system from 8/23/04 to 9/27/04. <u>Table 2</u> provides a summary of groundwater volume treated during the September 2004 monitoring period. Historical volumes are based on effluent totalizer readings provided by the contractor's weekly inspection forms.

- Piezometer measurements were collected on September 1, 2004 at the time of compliance sampling. These readings are provided in the weekly inspection reports provided in <u>Attachment A</u>.
- Filters in the bag filter unit were replaced on 9/1/04, 9/7/04, 9/14/04, 9/20/04 and 9/27/04. 125 and 75-micron polyester multifilament mesh filters were installed on 9/27/04 rather than the polyester felt filters typically used. Flow rate dramatically increased as a result of the weekly filter changeout.
- OMEI replaced the Allen Bradley controller for the influent feed pump on September 14, 2004.
- John W. Danforth Service, Inc. was onsite September 20, 2004 to certify the backflow preventer on the potable water line was operating properly.
- Checklists for weekly system inspections from OMEI are provided as Attachment A for 9/1/04, 9/7/04, 9/14/04, 9/20/04 and 9/27/04. Weekly system checks indicate that all operating equipment appear to be operating within normal ranges with any exceptions noted above.
- A copy of the site utility costs from EEEPC operations starting October 2003 to date is provided as <u>Attachment C</u>.

Analytical Summary - Groundwater

- EEEPC and OMEI personnel sampled influent and effluent groundwater on Wednesday, September 1, 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 <u>influent groundwater</u> during the September 2004 sampling event were: Chloroform 1.28 ug/L (estimated value), cis-1,2-Dichloroethene 4.70 ug/L (estimated value), Methyl tert-butyl ether (MTBE) 15.1 ug/L, Tetrachloroethene (PCE) 1390 ug/L, and Trichloroethene 42.2 ug/L
- The results of the VOCs contaminants detected in the <u>effluent groundwater</u> at the September 2004 sampling event indicated the contaminants found were: 1, 1-Dichloroethene 0.516 ug/L (estimated value), Benzene 0.180 ug/L (estimated value), Methyl tert-butyl ether (MTBE) 3.05 ug/L, Tetrachloroethene (PCE) 2.60 μg/L and Toluene 0.363 (estimated value). The concentration of PCE in the effluent groundwater did not exceed the Daily Maximum Effluent Discharge Compliance Concentration of 10.0 μg/L listed on Table 3.
- A comparison between the September 2004 analytical results and the Effluent Limitation Requirements for the site are provided in <u>Table 3</u>.
- Approximately 14.5 pounds of VOCs were removed from the influent groundwater based on comparison with the effluent discharge of September 1, 2004. The calculated removal volumes are located in <u>Table 4</u>. 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

Mr. David Chiusano, Project Manager September 30, 2004 Page 3 of 4

- samples are indicative of the influent characteristics and system performance for the entire month of September 2004.
- The September analytical results indicate that the treated groundwater effluent was in compliance with the Effluent Limitation Requirements for metals with the exception of iron. September 2004 analytical results indicate 965 ug/L iron, which is above the Effluent Limitation Requirements of 600 ug/L. Total Suspended Solids (TSS) was in compliance while Total Dissolved Solids (TDS) remained above the compliance concentration of 850 mg/L with an actual concentration of 980 mg/L during the month of September 2004. EEEPC continues to believe that the elevated levels of TDS stem from the high metals concentrations generally found in the groundwater, which were not anticipated to be removed by the constructed treatment system. NYSDEC Region 9 conducted a stream sampling program on July 22, 2004 in response to the TDS limit for the treatment system effluent. As noted from an e-mail correspondence of August 31, 2004, "...while the discharge has some parameters that are generally higher than the receiving stream, they do not appear to have a significant effect on the water body. These parameters also do not exceed water quality standards." EEEPC will await the Department's official determination on this matter.

Analytical Summary - Air

- EEEPC and OMEI personnel sampled the air stripper exhaust before and after the granular activated carbon (GAC) vessels on September 1, 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 only VOCs detected in the <u>influent air</u> samples were: Benzene 8.43 ppbv (estimated value), cis-1,2-Dichloroethene 8.12 ppbv (estimated value), Tetrachloroethene (PCE) -1100 ppbv, Toluene 16.4 (estimated value) and Trichloroethene 52.7 ppbv.
- VOCs detected in the <u>effluent air</u> samples after GAC treatment were: 1,2,4-Trimethylbenzene – 0.659 ppbv (estimated value), Chloromethane – (estimated value – 0.727 ppbv), cis-1,2-Dichloroethene – 8.50 ppbv, Dichlorofluoromethane - 0.650 (estimated value), Methylene chloride – 0.844 ppbv (estimated value), Tetrachloroethene (PCE) – 8.34 ppbv.
- Assuming that the system is treating groundwater 50% of the total operational time during this reporting period, this efficiency calculates to approximately 10.1 lbs of VOCs removed during the September 2004 reporting period. This caluculation assumes that non-detect values in the analytical data package equal 0 ppbv.
- The mass adsorbed by the GAC as calculated above and in <u>Table 5</u> indicate approximately <u>69.7% VOC</u> adsorption in the GAC vessels.
- EEEPC has revised the calculation for air flow during the August 2004 reporting period, which increased the calculated air flow from 318.9 SCFM to 485.1 SCFM and in turn increased the calculated VOC adsorption by the GAC from 3.08 pounds to 4.61 pounds.

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If you have any questions regarding the September 2004 O&M report summary submitted, please call me a 716-684-8060

Very Truly Yours,

Michael G. Steffan

Project Manager

Ecology and Environment Engineering, P. C.

cc: D. Miller, E&E-Buffalo w/o attachments

- G. Jones, Site Representative, E&E Buffalo w/ attachments
- G. Sutton, Region 9, NYSDEC Buffalo w/ attachments
- R. Becken, O&M Enterprises w/attachments

CTF-000699.NY06.05

Michael G. Steffan

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

Month	Reporting	Operational
TY AVIET	Hours	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%

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, 3}	10/29/03 - 11/25/03	224,278
December 2003 ^{2, 3}	11/25/03 - 12/29/03	1,496,271
January 2004 ^{2,3}	12/29/03 - 01/26/04	688,034
February 2004 ^{2,3}	01/26/04 - 02/24/04	736,288
March 2004 ^{2,3}	02/24/04 - 03/29/04	2,164,569
April 2004 ^{2,3}	03/29/04 - 04/26/04	1,741,730
May 2004 ^{2,3}	4/26/2004 - 5/24/2004	1,408,095
June 2004 ^{2,3}	5/24/2004 - 6/21/2004	972,132
July 2004 ^{2,3}	6/22/2004 - 7/26/2004	1,858,790
August 2004 ^{2,3}	7/27/04 - 8/23/04	1,289,960
September 2004 ²	8/23/04 - 9/27/04	1,201,913
	TOTAL GALLONS	47,760,661

NOTES

- 1. System operated by Tyree Organization Ltd. From 9/02 9/03
- 2. System operated by O&M Enterprises from 10/03 present
- 3. See report text for discussion of pumping wells in operation during August 2004.

Table 3 Mr. C's Dry Cleaners Site Remediation Site #9-15-157

Effluent Discharge Criteria & Analytical Compliance Results

	T	Ī	September 1, 2004
	Daily	ľ	Effluent Analytical
Parameter	Maximum ¹	Units	Values ²
Flow	216,000	gpd	
pН	6.0 - 9.0	standard units	7.97
1,1 Dichloroethene	10	ug/L	0.516 J
1,2 Dichloroethane	10	ug/L	<1.00
Trichloroethene	10	ug/L	<1.00
Tetrachloroethene	10	ug/L	2.60
Vinyl Chloride	10	ug/L	<1.00
Benzene	5	ug/L	0.180 J
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	0.383
o-Xylene	5	ug/L	**
m, p-Xylene	10	ug/L	**
Iron, total	600	ug/L	965
Aluminum	4,000	ug/L	<200
Copper	48	ug/L	<20.0
Lead	11	ug/L	<5.00
Manganese	2,000	ug/L	212
Silver	100	ug/L	<10.0
Vanadium	28	ug/L	<20.0
Zinc	230	ug/L	<20.0
Total Dissolved Solids	850	mg/L	980;
Total Suspended Solids	20	mg/L	<4.0
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 compliance sample collected 07/22/04 of the effluent discharge.
- 3. Analytical report did not differentiate between o-Xylene and m&p-Xylene. Total Xylene value is given in each line.
- 4. pH reading taken on 05/03/04.
- 5. Analytical report listed trans-1,2-Dichloroethene as well as cis-1,2-Dichloroethene. Both analytes were listed as non-detect, <1.00 ug/L.
- 6. ND- Not detected at the reporting limit.
- * Average Daily Flow based on the days of operation for August 2004 divided into the starting and ending totalizer reading.
- ** Total Xylenes were non-detect for September 2004.

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 20036	1/7/03 - 2/3/03	1803	10	29.5
February 20036	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
	Total pound	s of VOCs removed	from inception =	756.8

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:

influent: Effluent: 1453 $ug/L^*(1g/10^6 ug)^*(1 lb/453.5924 g)^*1,201,913 gallons^*(3.785 L/gallon) \sim 14.6 lbs$ 6.7 $ug/L^*(1g/10^6 ug)^*(1 lb/453.5924 g)^*1,201,913 gallons^*(3.785 L/gallon) \sim 0.1 lbs$

Net Cleanup 9/04:

14.5

where, 1453 ug/L is the summation of VOC's detected om the influent groundwater and 1,201,913 gallons is the monthly process water volume.

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

Comparison of VOC Destruction by GAC

Compound	Molecular Weight	Intake Concentration (Pre-GAC) ¹	Detection Limits - ppb	Exhaust Concentration (Post-GAC) ²	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	50.0	ND	5.00	0%	0.0	0	0.00	0	0.00	0.00
1,2-Dichloroethane	98.96	ND	50.0	ND	5.00	0%	0.0	Ö	0.00	0	0.00	0.00
1,2-Dichloropropane	112.99	ND	50.0	ND	5.00	0%	0.0	0	0.00	Ö	0.00	0.00
1,3-Dichlorobenzene	147.00	ND	50.0	ND	5.00	0%	0.0	0	0.00	0	0.00	0.00
1,4-Dichlorobenzene	147.01	ND	50.0	ND	5.00	0%	0.0	0	0.00	0	0.00	0.00
Benzene	78.11	8.43	50.0	ND	5.00	100%	8.43	0.00843	27.37	15878347.9	15878.35	0.04
Benzyl chloride	126.59	ND	50.0	ND	5.00	0%	0.0	0.00043	0.00	0	0.00	0.00
Bromomethane	94.95	ND	50.0	ND	5.00	0%	0.0	0	0.00	0	0.00	0.00
Carbon tetrachloride	153.82	ND	50.0	ND	5.00	0%	0.0	0	0.00	0	0.00	
Chlorobenzene	112.56	ND	50.0	ND	5.00	0%	0.0	0	0.00	0	0.00	0.00
cis-1,2-Dichloroethene	96.94	8.12	50.0	8.50	5.00	0%	-0.38	-0.00038				
cis-1,3-Dichloropropene	110.97	ND	50.0	8.30 ND					-1.53	-888296.012	-888.30	0.00
Dichlorodifluoromethane	120.91	ND ND	_		5.00	0%	0.0	0	0.00	0	0.00	0.00
			50.0	0.650	5.00	0%	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	260.7	ND	50.0	ND	5.00	0%	0.0	0	0.00	0	0.00	0.00
Tetrachloroethene	165.83	1100	125	8.34	5.00	99%	1091.7	1.09166	7523.94	4365375416	4365375.42	9.63
Toluene	92.13	16.4	50.0	ND	5.00	100%	16.4	0.0164	62.80	36434768.9	36434.77	0.08
Trichloroethylene	131.4	52.7	50.0	ND	5.00	100%	52.7	0.0527	287.81	166984854	166984.85	0.37
Vinyl Chloride	62.5	ND	50.0	ND	5.00	0%	0.0	0	0.00	0	0.00	0.00
Methylene Chloride	84.93	ND	50.0	0.844	5.00	0%	NA	NA	NA	NA	NA	NA
Chloromethane	50.49	ND	50.0	0.727	5.00	0%	NA	NA	NA	NA	NA	NA
Chloroethane	65.51	ND	50.0	ND	5.00	NA	0.0	0	0.00	0	0.00	0.00
1,2-Dibromoethane	187.88	ND	50.0	ND	5.00	NA	0.0	0	0.00	0	0.00	0.00
1,2-Dichlorobenzene	147.01	ND	50.0	ND	5.00	NA	0.0	0	0.00	0	0.00	0.00
1,2-Dichloro-1,1,2,2-												
tetrafluoroethane	170.92	ND	50.0	ND	5.00	NA	0.0	0	0.00	0	0.00	0.00
Styrene	104.15	ND	50.0	ND	5.00	NA	0.0	0	0.00	0	0.00	0.00
1,1,2-Trichloro-1,2,2-			-						0.00		- 0.00	0.00
rifluoroethane	187.38	ND	50.0	ND I	5.00	NA	0.0	0	0.00	0	0.00	0.00
1.1.2.2-Tetrachloroethane	167.85	ND	50.0	ND	5.00	NA	0.0	0	0.00	0	0.00	0.00
Trichlorofluoromethane	137.38	ND	50.0	ND	5.00	NA	0.0	0	0.00	0	0.00	0.00
1.1-Dichloroethylene	96.94	ND	50.0	ND	5.00	NA	0.0	0	0.00	-0	0.00	0.00
Chloroform	119.38	ND	50.0	ND	5.00	NA NA	0.0	0	0.00	0	0.00	0.00
1.1.1-Trichloroethane	133.41	ND ND	50.0	ND ND	5.00	NA NA	0.0	0	0.00	0		
1,1,2-Trichloroethane	133.41	ND ND	50.0	ND ND	5.00			0			0.00	0.00
n,p-Xylene	106.16	ND ND	100	ND ND	10.0	NA NA	0.0	0	0.00	0	0.00	0.00
	106.16	ND ND	50.0	ND ND		NA		0		0	0.00	0.00
>-Xylene		ND ND			5.00	NA	0.0		0.00	0	0.00	0.00
Kylene (total)	318.50		150	ND 0.650	15.0	NA 007	0.0	0	0.00	0	0.00	0.00
1,2,4-Trimethylbenzene	120.19	ND	50.0	0.659	5.00	0%	NA NA	NA	NA NA	NA	NA NA	NA
,2,4-Trichlorobenzene	181.46	ND	50.0	ND	5.00	NA	0.0	0	0.00	0	0.00	0.00
Ethylbenzene	106.17	ND	50.0		5.00	NA	0.0	0	0.00	0	0.00	0.00
,3,5-Trimethylbenzene	120.19	ND	50.0		5.00	NA	0.0	0	0.00	0	0.00	0.00
rans-1,2-Dichloroethene	96.94	ND	50.0		5.00	NA	0.0	0	0.00	0	0.00	0.00
rans-1,3-Dichloropropene	110.97	ND	50.0	ND	5.00	NA	0.0	0	0.00	0	0.00	0.00

832.814028 scfm =

23.59 m³/min =

410 hours (7)

1415 m³/hour

293 K

Monthly hours of operation = Pressure =

l atm = 68 F =

101300 Pa = 20 C =

1013 millibars

Assumed stack temp =

Gas Constant, R =

0.08314 mb*m3/K*mol

Notes
1. "J" values are included in above calculations.

2. "I" 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. The detection limit for each compound is listed.

3. ND = Non-detect

4. Above calculations assume that non-detect values (<) = 0 ug/m3

5. NA = Not Applicable

6. PPM to ug/m³ conversion based on the equation below.
7. Assumes 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. Efficency 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 September 2004

Date/Time		9/1/04	9:00)				
Inspection	personne	l	RC Beck	ken				
Other pen	sonnel on s	site	Mike Ste	effan	Mike S	Scarrano		
Weather (Conditions		sunny	70 degi	ees			
	Il pumps op	_	in auto?	(YES)	NO			
								
			***************************************				VI	
Provide wa RW-1 PW-2 PW-3 PW-4 PW-5 PW-6 PW-7 PW-8	(ON) (ON) (ON) (ON) (ON) (ON) (ON) (ON)	OFF OFF OFF OFF OFF OFF on tank	7 7 6 7 7 7 7 7		ft ft ft ft ft ft ft ft			
Influent To	inos Dan					76 gallons		
innuent 10	talizer Rea	ang			/ 302	276 gallons		
Sequester	ing agent c	irum leve			2"	ft-in		
Amount of	sequester	ing agen	t remainir	ng		~85	_gallons	
Sequesteri	ing agent f	eed rate				0 gpm		
Sequesteri	ing agent n	netering	Pump Pre	essure			····	0 psi
Bag filter to	op pressure	9	And the specimens of the specimens of		4\0	psi		
Bag filter b	ottom pres	sure			0 \ 0	psi		

Influent feed pump in u	ise	(#1)	#2				
Influent Pump Pressure	e _	·····			8 psi		
Air stripper blower in us	(#1)	#2					
Air stripper differential p	pressure			0	.06 inches	H ₂ O	
Air stripper vacuum		nd digeral biology who	25	inches	H₂O		
Effluent feed pump in u	se	(#1)	#2				
Effluent feed pump pres	ssure		 		9 psi		
Effluent flow rate			~120	gpm			
Effluent Totalizer readin	g			53662	50 galions		
Are building heaters in t	use?	YES	(NO)				
Ambient air temperature) <u> </u>				70 degree	s F	
Are any leaks present?		YES	(NO)				
Is sump pump in use?		YES	(NO)				
Water level in sump			0				
ls treatment building cle	an and c	rganiz	ed?	(YES) NO		
Samples collected? ()	YES)	NO					
Air stripper influent Air stripper effluent GAC influent GAC effluent _	Sample	ID	Time of	Sampli	ng pH 7.41 7.97 NA NA	Turbidity 6.12 7.93 NA NA	Temp. 58.5 62.1
Is there evidence of tampering/vandalism of wells? Were manholes inspected? Were electrical boxes inspected? Is water present in any manholes or electrical boxes? (If wes, provide manhole/electric box ID and description of any correction.)						(NO) NO (NO) NO	llowing bage

Other observations:
Describe any other system maintenance performed Changed filters, afterwhich influent flow increased to 109
Soaked up condensate from filter unit drip tray.
Signature School Self -

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

Date	9/1/04		Measurements taken by RC Becken	
RW-1	15.28	ft	Comments	
PZ-1A	11.18	ft	Comments	
PZ-1B	10.9	ft	Comments	
PZ-1C	12.04	ft	Comments	
PZ-1D		ft	Comments car parked on well	
PW-2	22.5	ft	Comments	
PZ-2A	10.82	ft	Comments	
PZ-2B	11.2	<u>t</u> t	Comments	
PZ-2C	10.61	ft	Comments	
PZ-2D		ft	Comments well filled with concrete	
PW-3	20.35	ft	Comments	
PZ-3A	11.26	ft	Comments	
PZ-3B	11.31	ft	Comments	
PZ-3C	11.77	ft	Comments	
PZ-3D	11.35	ft	Comments	
PW-4	23.52	ft	Comments	
PZ-4A	11.53	ft	Comments	
PZ-4B	11,1	ft	Comments	
PZ-4C	11.27	ft	Comments	
PZ-4D	10.4	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

Plezometer Water Level Log

Date	9/1/04		Measurements taken by RC Becken	
PW-5	20.22	ft	Comments	
PZ-5A	10.59	ft	Comments	
PZ-5B	10.83	ft	Comments	
PZ-5C	10.4	ft	Comments	
PZ-5D	11.21	ft	Comments	
PW-6	19.44	ft	Comments	
PZ-6A	11.7	ft	Comments	
PZ-6B	11.52	ft	Comments	
PZ-6C	11.79	ft	Comments	
PZ-6D	11.41	ft	Comments	
PW-7		fi	Comments car parked on well	
PZ-7A		ft	Comments	
PZ-7B	12.05	ft	Comments	
MPS6S	11	ft ft	Comments	
PZ-7D	11.42	ft	Comments	
PW-8	23.25	ft	Comments	
PZ-8A	8.38	ft	Comments	
PZ-8B	8.27	ft	Comments	
PZ-8C	7.85	ft	Comments	
PZ-8D	8.11	ft	Comments	
	PW-6 PW-7	pump on during pump on during	measurements? (YES) NO measurements? (YES) NO measurements? (YES) NO measurements? (YES) NO	

Date/ Hm	e	9///04	9:30			
Inspection	n personne		RC Becken			
Other per	sonnel on s	site				
Weather (Conditions		overcast 76 de	grees		
	II pumps o	_	in auto? (YES	5)	NO	
	·					
Provide wa	ater level n	eadings o	on control panel			
RW-1	(ON)	OFF	15	ft		
PW-2	(ON)	OFF	7	ft		
PW-3	(ON)	OFF	6	— ft		
PW-4	(ON)	OFF	6	ft		
PW-5	(ON)	OFF	5	ft		
PW-6	(ON)	OFF	4	ft		
PW-7	(ON)	OFF	9	ft		
PW-8	(ON)	OFF	5	ft		
•	Equalizati	on tank	4	ft		
influent Flo	ow Rate		29.4	<u>8</u> gpm	1	
Influent To	talizer Rea	ding		11	40556 gallons	
Sequester	ing agent d	lrum leve	d .	2"	ft-in	
Amount of	sequesteri	ng agent	remaining		~85	_gallons
Sequesteri	ing agent fe	ed rate			0 gpm	
Sequesteri	ing agent n	netering I	Pump Pressure			0 psi
Bag filter to	op pressure	∍ .		24 \	8 psi	
Bag filter b	ottom pres	sure		0 \	0psi	

Influent feed pump in	use	(#1)	#2								
Influent Pump Press	ure			g) psi						
Air stripper blower in	use	#1	(#2)								
Air stripper differentia	al pressu	ге	e 0.05 inches H ₂ O								
Air stripper vacuum		25 inches H ₂ O									
Effluent feed pump in	use	(#1)	#2								
Effluent feed pump p	ressure			8	psi						
Effluent flow rate				gpm							
Effluent Totalizer read	ding			761558	gallons						
Are building heaters i	n use?	YES	(NO)								
Ambient air temperat	ure			78	degrees	s F					
Are any leaks presen	t?	YES	(NO)								
Is sump pump in use	?	YES	(NO)								
Water level in sump			0								
Is treatment building	clean and	d organiz	zed?	(YES)	NO						
Samples collected?	YES	(NO)									
Air stripper influent Air stripper effluent	Samp	ole ID	Time of	Sampling	рН	Turbidity	Temp.				
GAC influent			_		NA	NA					
GAC effluent					NA	NA					
Is there evidence of to Were manholes inspe Were electrical boxes is water present in an	cted? inspecte	d?			YES (YES) (YES) (YES)	(00) 00 00					
(If yes, provide manhole/e	lectric box	ID and de	scription of	any correctiv	ve measur	es on the fol	llowing page.)				

Other observations:
Describe any other system maintenance performed Changed filters, afterwhich influent flow increased to 95
Soaked up condensation in filter unit drip tray.
Signature Link Charles -

Date/Tim	e	9/14/04	1						
Inspectio	n personne	el	RC Bec	ken					V
Other per	rsonnel on	site		· ·					
		······································							
Weather	Conditions		sunny	74 degr	ees				
	ell pumps o rovide expl		in auto?	(YES)		NO			
Provide w RW-1 PW-2 PW-3 PW-4 PW-5 PW-6 PW-7 PW-8	vater level r (ON) (ON) (ON) (ON) (ON) (ON) (ON) (ON)	OFF OFF OFF OFF OFF OFF	on control 15 6 6 5 8 2 9 7		ft ft ft ft ft ft ft ft ft				
Influent To	otalizer Rea	dina				30638	gallons		
	ring agent o)		2"	39030	ft-in		
Amount of	f sequester	ing agent	t remainin	g			~85	gallons	,
Sequester	ring agent fo	eed rate .				0	gpm		
Sequester	ing agent n	netering l	Pump Pre	ssure					0 psi
Bag filter t	op pressure	• .			28 \	12	psi		
Bag filter b	oottom pres	sure			4 \ 0)	psi		

Influent feed pump in	n use	(#1)	#2					
Influent Pump Press	ure				8	psi		
Air stripper blower in	(#1)	#2						
Air stripper differentia	al pressu	re			0.04	inches	H₂O	
Air stripper vacuum			2	inches	s H₂O			
Effluent feed pump in	use	(#1)	#2					
Effluent feed pump p	ressure				9	psi		
Effluent flow rate			~120	_gpm				
Effluent Totalizer rea	ding .	······································		1050	8889	gallons		
Are building heaters	n use?	YES	(NO)					
Ambient air temperat	ure .				75	degrees	s F	
Are any leaks presen	t?	YES	(NO)					
Is sump pump in use	?	YES	(NO)					
Water level in sump			0	_				
Is treatment building	clean and	l organiz	zed?	(YE	S)	NO		
Samples collected?	YES	(NO)						
Air stripper influent	Samp	le ID	Time o	of Samp	ling	pН	Turbidity	Temp.
Air stripper effluent GAC influent	-					NA	NA	
GAC effluent						NA	NA	•
Is there evidence of ta	ampering	/vandalis	sm of we	lls?		YES	(NO)	
Were manholes inspe						YES	NO	
Were electrical boxes	•					YES	(NO)	
Is water present in an	-				motivo	(YES)	NO	wina nasa 1
(If yes, provide manhole/e	ICCITIC DOX	שט טוום עו	acripuori 0	i ariy con	CUVE	measures	on the folio	willy page.)

Other observations:
Describe and other content resistances and served
Describe any other system maintenance performed
Changed filters, afterwhich influent flow increas ed to 111.5 gpm
Soaked up condensation under the filter units.
Changed the Allen Bradley controller for the influent pump A, installed one of the
spare A-B controllers in its place.
Signature Sich -

Date/Time	<u> </u>	9/20/04	8:45							
Inspection	personne		RC Becken							
Other pers	Other personnel on site									
	····			·						
Weather C	Conditions		sunny cool 52	2 degrees	S					
Are all well pumps operating in auto? YES (NO) If "NO", provide explanation Alarm received at 5:45 pm Sunday evening low air flow in the stripper tray.										
		-	on control pane			_				
RW-1	(ON)	OFF	<u>14</u> 6	—ft	all readings taken					
PW-2	(ON)	OFF	4	ft	after start up.					
PW-3 PW-4	(ON)	OFF OFF		—ft ft						
PW-5	(ON) (ON)	OFF	<u>4</u> 5	It ft						
PW-6	(ON)	OFF	4	'' ft						
PW-7	(ON)	OFF	8	—"t						
PW-8	(ON)	OFF	4	— '' ft						
F VV-0	Equalizati		4	—" ft						
	Lquanzau	On tank		"						
Influent Flo	w Rate		56.	<u>57</u> gpm						
Influent To	talizer Rea	ding		1946	6784 gallons					
Sequesteri	ng agent d	Irum leve	l	2"	ft-in					
Amount of	sequesteri	ing agent	remaining		~85 gallons					
Sequesteri	ng agent fe	eed rate			<u>0</u> gpm					
Sequesteri	ng agent n	netering l	Pump Pressure		<u>0</u> psi					
Bag filter to	p pressure	e .		12 \ (0psi					
Bag filter be	ottom pres	sure		0 \ 0	psi					

Influent feed pump in	use	(#1)	#2							
influent Pump Pressu	ire				<u>9</u> p	si				
Air stripper blower in	use	#1	(#2)							
Air stripper differentia	l pressu	re	e 0.11 inches H ₂ O							
Air stripper vacuum _			39 inches H ₂ O							
Effluent feed pump in	use	(#1)	#2							
Effluent feed pump pro	essure				<u>10</u> ps	si				
Effluent flow rate _			~120	gpm						
Effluent Totalizer read	ing .			1229	300 ga	allons				
Are building heaters in	use?	YES	(NO)							
Ambient air temperatu	ire				72 de	grees	s F			
Are any leaks present	?	YES	(NO)							
Is sump pump in use?		YES	(NO)							
Water level in sump _			0							
Is treatment building c	lean and	l organiz	ed?	(YES	S)	NO				
Samples collected?	YES	(NO)								
Air stripper influent Air stripper effluent	Samp	le ID	Time of	Sampl	ling	рH	Turbidity	Temp.		
GAC influent GAC effluent						NA NA	NA NA			
Is there evidence of tampering/vandalism of wells? Were manholes inspected? Were electrical boxes inspected? Is water present in any manholes or electrical boxes? We approve manhole electric box ID and description of any corrective measures on the following of the corrective measures on the correctiv										

Other observations:
Danforth onsite to check and certify the backflow preventer, it is good for another
year.
Received an alarm yesterday (Sunday) at 5:45 pm stripper tower low air pressure.
Upon arrival at the site this morning I reset the alarm and everything restarted but
shortly after the influent pump started the alarm became active again. I tried using
both blowers but had the same results. I then opened the top of the stripper unit and
found that the top tray had a fairly thick mineral deposit. I left the site to return to the
shop and get the pressure washer then went back to East Aurora. After returning to
the site I pressure washed the top tray. The trays are divided into three sections
and I was able to do the outer two sections real good but not the center section
because I could not remove the top completely as there is no place to put it. I
pessure washed the rest of the trays the best I could which wan't very good because
there is not enough space at the ends of the stripper unit to get the pressure washer
wand into the stripper unit. I am sure I mentioned this to everyone this past spring
when I tried to pressure wash the unit then. Something needs to be done about this!
The system is back up and running after being down appr. 20 hours but this is
definitely a tempory fix that I don't think will last long.
Describe any other system maintenance performed
Changed filters, afterwhich influent flow increased to 56 gpm.
Signature the better -



Date/Time	e	9/27/04	9:00							
Inspection	Inspection personnel RC Becken									
Other per	sonnel on s	site								
	···									
Weather (Conditions		sunny	60 degr	ees				· · · · · · · · · · · · · · · · · · ·	
Are all well pumps operating in auto? (YES) NO If "NO", provide explanation										
Provide wa	ater level re	eadings o	n control	panel			****			
RW-1	(ON)	•	16		ft					
PW-2	(ON)	OFF	5		ft					
PW-3	(ON)	OFF	6		ft					
PW-4	(ON)	OFF	6		ft					
PW-5	(ON)	OFF ~	7		ft					
PW-6	(ON)	OFF	4		ft					
PW-7	(ON)	OFF	9		ft					
PW-8	(ON)	OFF	3		ft					
	Equalizati	-	4		ft					
influent Flo	ow Rate			23.26	gpm					
Influent To	talizer Rea	iding _			233	6308	gallons			
Sequester	ing agent d	irum leve <u>l</u>			2"		_ft-in			
Amount of	sequesteri	ing agent	remaining]		· · · · · · · · ·	~85	gallons	6	
Sequesteri	Sequestering agent feed rate0 gpm									
Sequesteri	ng agent n	netering P	ump Pres	ssure					<u>0</u> psi	
Bag filter to	op pressure	e _			24\1	0	psi			
Bag filter b	ottom pres	sure			0/0		nsi			

Influent feed pump in	use	(#1)	#2							
Influent Pump Pressu	ıre				8 psi					
Air stripper blower in	use	(#1)	#2							
Air stripper differentia	ıl pressu	re		0.	.06 inches	H ₂ O				
Air stripper vacuum			39 inches H₂O							
Effluent feed pump in	use	#1	(#2)							
Effluent feed pump pr	essure				7 psi					
Effluent flow rate			~120	_gpm						
Effluent Totalizer read	ling			14558	48 gallons	3				
Are building heaters in	n use?	YES	(NO)							
Ambient air temperatu	ıre				70 degree	s F				
Are any leaks present	?	YES	(NO)							
Is sump pump in use?	•	YES	(NO)							
Water level in sump _			0	_						
Is treatment building of	lean and	d organiz	zed?	(YES)	NO					
Samples collected?	YES	(NO)								
Air stripper influent Air stripper effluent	Samp	ole ID	Time of	f Samplir	ng pH	Turbidity	Temp.			
GAC influent					NA	NA				
GAC effluent					NA	NA				
Is there evidence of ta Were manholes inspe Were electrical boxes Is water present in any	cted? inspecte	ed?			YES YES YES (YES)	(NO) NO (NO) NO				
(If yes, provide manhole/el	ectric box	ID and de	scription o	f any corre	ctive measu	res on the fo	llowing page.)			

Other observations:
Describe any other system maintenance performed
Changed filters, afterwhich influent flow increased to 117 gpm.
Soaked up condensation in drip tray of filter units.
Went to Fluid Conditioning in East Aurora to purchase more filters, I intended to get
75 micron filters and 125 micron filters but the 75 micron are not in stock and the
125 micron are not polester felt but polester multifilament mesh so I had to discuss
this with Mr. Steffan of E&E. After idscussing it with Mr. Steffan I ordered two of
each from Fluid Conditioning to try ther m. I called Mr. Steffan and told him the
pressure differential was extremely low and something needed to be done soon,
we decided to chemical clean the stripper, I ordered the Rydlyme it should be in by
Friday. I had to go back to the site this evening , I received a alarm for low air flow
in the stripper, went to site and pressure washed the trays again as good as I can
given the lack of space. System back up and operational at 8:45 pm
Signature

JOHN W. DANFORTH SERVICE CO INC.

2100 Colvin Blvd. Tonawanda, NY 14150

PLUMBING SERVICE REPORT

•	746\ 999 9996						RDER NUMBE	ER	JOB NUMBER EMPLOYE			LOYEE #	
(716) 832-23 Fax (716) 83												44582	
(, , , , , , ,					CUSTOMER CONTACT			т	BERVICE BEP. SIGNATU			- 0	
					Rich		becker	_	//	tract			
		r.,	46	10 (10 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)			ERVICE PER				PERIOD EN		
(i) (ii) (ii)			在主管!	7.2.4		MON			AR	MONTH	DAY	YEAR	
		and the state of t	# 15 I	Number 1960 - The Chill S4	_	JOB NA			7	7	2/	109	
SERVICE COMPLETE Y N	PM	CONTRAC	EXTRA	SPOT PROJECT			Mr		· / /				
REG. TIME	(()	LIVILIA		/		JOB LOC	_			ئــ سر	1	1 4 3	
OVERTIME		•					MER AUTHORIZ	ATION TO PE	RFORM V	East VORK / CUSTOM	ER SIGNATURE	λ.γ.	
DRIVE TIME								El S	4 4401	CHI	V		
MILES				28.8						of C			
I AUTHOR FOR	RIZE DANFO BROKEN, R	RTH TO PER USTED, DET	FORM THE I	DESCRIBED SERVICES AND I AGE OR LEAD PIPES, FIXTURES, OR	CLEAN OUT	THE AM	OUNTS INDICA NY DAMAGE R	TED. I UNDE ESULTING FI	RSTAND T	THAT DANFORTH ANING OR REPA	HIS NOT RESPO RING SUCH LIN	INSIBLE IES.	
REASON F	TION C	F WORK		Annuell	TOILET bac	: lc	FLOOR Flow	L	or es-f	HER	РМ [wty	
1"	buck	E Flo	W.	is O.K	•								
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	DRA	IN CLEA	NING V	VARRANTY				PLUI	MBING	WARRAN	TY		
	ALL	LINES		30 DAYS				REPAIRS		30 DAY	S		
	TOIL	ET/SINK		24 HOURS				REPLACE		1 YEAR			
	JETT	ring		6MONTHS				OTHER		Z Us	-		
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1 : A = EXUR WOIK;	Source. / =	inventory, P -	FO, G = CESI	MATERIALS / LAE	OR NE	EDE	TO COM	PLETE:					
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HVA	AC PL	ANNEL	PM	DESIGN/BU	ILD				7	5 3 M 529. 8 3	~	-37-	
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WA	IEK II	REATM	ENI	AIR/WATER	DAL.	IN C		1 Year	CEDOEN	ENT OF SERVIC	E / CUSTOMER	SIGNATURE	

Attachment B EEEPC ASC Analytical Data Package #0409011 September 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

September 21, 2004	
Mr. Mike Steffan	
E and E Buffalo Office	
368 Pleasant View Dr.	
Lancaster, NY 14086	
RE: Mr. Cs Dry Cleaners	
CostPoint ID: 000699.NY06.06	-
Cost one 12. 0000/5.1(100.00.	
Work Order No.: 0409011	
Dear Mr. Mike Steffan,	
Analytical Services Center received 4 samples on Wednesday, September 01, 2004 for the	
analyses presented in the following report.	
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.	
This report is not to be reproduced, except in full, without the written approval of the laboratory.	
Sincerely,	_
A A Share le	
Dabare Profession	
Barbara Krajewski	
Project Manager	
CC:	
Enclosures as noted	
78	
This renort ande on name	
THE SECOND SECON	



Analytical Services Center

International Specialists in Environmental Analysis

4493 Walden Avenue

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:

0409011

CASE NARRATIVE

GCMS VOLATILES

A DB 624 column and a trap packed with OV-1, Tenax, silica gel and activated charcoal was used for the volatile analysis.

Sample analysis

Aqueous volatile samples were determined to be at a pH of 7.

Samples were analyzed within hold time.

Samples AS INFLUENT and GAC INFLUENT were reanalyzed at dilutions due to the levels of target compounds present. For sample AS INFLUENT the values reported are from the analysis within calibrated range. Since sample GAC INFLUENT was also analyzed as the laboratory duplicate, all results from both analyses are reported to allow for RPD calculations.

Calibration and Tunes

Initial and continuing calibrations were acceptable.

No manual peak integration was required.

QC

Surrogate recoveries are within acceptable limits.

Method blank analyses are acceptable.

Sample duplicate (DUP) RPD values are acceptable.

Laboratory control sample (LCS) recoveries are acceptable.

Internal standard area responses are 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.

OC

The calibration and preparation blank analyses are acceptable.

The matrix spike/spike duplicate (MS/MSD) recoveries and RPD values are within the control limits except for sodium.

The laboratory control sample (LCS) recoveries are within the control limits.

MERCURY .

Client:

E AND E BUFFALO

Project:

Mr. Cs Dry Cleaners

Lab Order:

0409011

CASE NARRATIVE

Sample Analysis

The samples were digested and analyzed within hold time.

Calibrations

The initial and continuing calibrations were acceptable.

QC.

The calibration and preparation blank analyses were acceptable.

The matrix spike/spike duplicate (MS/MSD) recoveries and RPD value are within the control limits.

The laboratory control sample (LCS) recovery is within the control limits.

GENERAL ANALYTICAL CHEMISTRY

Sample Analysis

Samples were analyzed within hold time.

Calibrations

Initial and continuing calibration standards were acceptable.

υC

Calibration and method blank analyses are acceptable.

Matrix duplicates/matrix spikes/matrix spike duplicates (MD/MS/MSD) are acceptable.

Laboratory control sample (LCS) recoveries are acceptable

STATE DEC. ALCUEANDERS ALCUEA										
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Client:

Analytical Ser ← Center

International Specialists in Environmental Analysis

4493 Walden Avenue

E and E Buffalo Office

Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#:

10486

Prep Method: SW5030B_LL

Phone: (716) 685-8080

Client Sample ID: AS INFLUENT

Alt. Client ID:

Method: SW8260B

Collection Date: 9/1/2004 10:35:00 AM % Moist:

Lab ID: 0409011-01A

Project: Mr. Cs Dry Cleaners

LOW LEVEL VOCS BY METHOD 8260B

Lab Order: 0409011

Sample Type: SAMP

Matrix: Water

Test Code: 1_8260B_5030B_TCL_LL_W

Analyte	Result Q	Limit	Units	ÐF	Date Analyzed	Run Batch ID	Analyst
					2 - 2 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -		

Analyte	Result Q	Limit	Units	— DF	Date Analyzed Run Batcl	1 ID Analyst
1,1,1-Trichloroethane	ND	10.0	μg/L	10	9/3/2004 1:10:00 PM PERRY_04090	3C DWW
1,1,2,2-Tetrachloroethane	• • • • • • • • • • • • • • • • • • •	10.0	hg/F	- 10		
1,1,2-Trichloro-1,2,2- trifluoroethane	ND	10.0	μ g /L	. 10		
1,1,2-Trichloroethane	ND	10.0	µg⁄L	10		•
1,1-Dichloroethane	ND	10:0	μg/L	10		
1,1-Dichloroethene	ND	10.0	μg/L	10	•	
1,2,4-Trichlorobenzene	ND	10.0	μg/L	10		
1,2-Dibromo-3-chloropropane	ND	50.0	μg/L	10		
1,2-Dibromoethane	ND	10.0	μg/L	10		
1,2-Dichlorobenzene	ND	10.0	μg/L	10		
1,2-Dichloroethane	ND	10.0	μg/L	10	•	
1,2-Dichloropropane	ND	10.0	μg/L	10		
ichlorobenzene	ND	10.0	μg/L	10		
Dichlorobenzene	ND	10.0	μg/L	10		
2-Bulanone	ND	50:0	—µg/L	10	autoriani, ita kiki kiki 1989 - Madahari, maka kaka kira amaka maka maka kira kira kira kira kira kira kira k	
2-Hexanone	NDND	50.0	μg/L	10		
4-Methyl-2-pentanone	ND	50.0	μg/L	10		
Acetone	ND ·	50.0	μg/L	10		•
Benzene	ND	10.0	μg/L	10		
Bromodichloromethane	ND	10.0	μg/L	10		
Bromoform	ND	10.0	µg/L	10		
Bromomethane	ND	20.0	μg/L	10		
Carbon-disulfide-	ND	50.0	—µg/L	10-		·
Carbon tetrachloride	ND	10.0	μg/L ·	10		
Chlorobenzene	ND ·	10.0	μg/L	10		
Chloroethane	ND	20. 0	μg/L	10		
Chloroform	1.28 J	10.0	μg/L	10		
Chloromethane	ND	20.0	μg/L	10	•	
cis-1,2-Dichloroethene	4.70 J	10.0	μg/L	10		
cis-1,3-Dichloropropene	ND	10.0	μg/L	10		
Cyclohexane	ND .	10.0	μg/L	10		
Dibromochloromethane	ND	10.0	μg/L	10		
Dichlorodifluoromethane	ND	50.0	μg/L	10		
Ethylbenzene	- ND	10:0	р д/L::	10-	and the same of th	
Isopropylbenzene	ND	10.0	μg/L	10	:	
Methyl acetate	ND	10.0	μg/L	10		
Methyl tert-butyl ether	15.1	10:0	µ g/L	10		



Recovery outside QC limits

DF - Dilution Factor

H - Value Exceeds Maximum Contaminant Level

N - Single Column Analysis

NP - Petroleum Pattern is not present

B - Analyte found in Method blank

DNI - Did not Ignite

J - Estimated value

NC - Not Calculated P - Post Spike Recovery outside limits D - Diluted due to maxtrix or extended target compounds

E - Result above quantitation limit (high standard or ICP linear range).

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit

R - RPD outside recovery limits

12



Client:

Analytical Services Center

International Specialists in Environmental Analysis

4493 Walden Avenue

E and E Buffalo Office

Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486

Phone:

(716) 685-8080

Client Sample ID: AS INFLUENT

Alt. Client ID:

Collection Date: 9/1/2004 10:35:00 AM % Moist:

Lab ID: 0409011-01A

Project: Mr. Cs Dry Cleaners

Lab Order: 0409011

Sample Type: SAMP

Matrix: Water

Test Code: 1_8260B_5030B_TCL_LL_W

LOW LEVEL VOCS BY METHOD	0 8260B		N	Method: S	SW8260B	Prep Method:	SW5030B_LL
Analyte	Result Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
	5 - 1 - 20 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -						
Methylcyclohexane	ND	10.0	µg∕L	10			
Methylene chloride	ND	10.0	μg/L	10-			
Styrene	ND	10.0	μg/L	10			
Tetrachloroethene	1390	50.0	μg/L	50	9/3/2004 2:14:00 PM		
Toluene	ND	10.0	μg/L	10	9/3/2004 1:10:00 PM		
trans-1,2-Dichloroethene	ND	10.0	μg/L	10		_	
trans-1,3-Dichloropropene	ND	10.0	μg/L	10			
Trichloroethene	42.2	10.0	μg/L	10			;
Trichlorofluoromethane	ND	10.0	μg/L	10			
Viriyl chloride	ND	. 10.0	μg/L	10			
Xylenes, Total	ND	10.0	μg/L	10			
Surr:1,2-Dichloroethane-d4	95	70 - 128	%REC	. 10	9/3/2004 1:10:00 PM	PERRY_040903C	DWW
Surr:4-Bromofluorobenzene	106	80 - 119	%REC	10	•		
rr:Dibromofluoromethane	95	85 - 110	%REC	10			
Surr:Toluene-d8	96	83 - 110	%REC	10			



- Recovery outside QC limits

DF - Dilution Factor

H - Value Exceeds Maximum Contam

N - Single Column Analysis

NP - Petroleum Pattern is not present

B - Analyte found in Method blank

P - Post Spike Recovery outside limits

DNI - Did not Ignite

J - Estimated value

NC - Not Calculated

D - Diluted due to maxtrix or extended target compounds

E - Result above quantitation limit (high standard or ICP linear range).

M - Matrix Spike Recovery outside limits

R - RPD outside recovery limits

ND - Not Detected at the Reporting Limit

13



Lab Order: 0409011

Lab ID: 0409011-02A

Client:

Project:

Analytical Services Center

Sample Type: SAMP

International Specialists in Environmental Analysis

4493 Walden Avenue

Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#:

P-ID#: 10486 (716) 685-8080

Prep Method: SW5030B_LL

Client Sample ID: AS EFFLUENT

Alt. Client ID:

Collection Date: 9/1/2004 10:40:00 AM % Moist:

Phone:

LOW LEVEL VOCS BY METHOD 8260B

Mr. Cs Dry Cleaners

E and E Buffalo Office

Method: SW8260B

Matrix: Water

Test Code: 1_8260B_5030B_TCL_LL_W

Analyte	Result	Q	Limit	Units	DF	Date Analyzed Run Batch ID	Analyst
professional control of the second control o							
1,1,1-Trichloroethane	ND		1.00	μg/L	. 1	9/3/2004 12:39:00 PM PERRY_040903C	DWW
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	μ <u>g</u> /L	1		
1,1-Dichloroethene	0.516	J	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		
lichlorobenzene	ND		1.00	μg/L	1		
1,4-Dichlorobenzene	ND		1.00	μg/L	1		
2-Butanone	ND-	AND THE SECTION OF	5.00	pg/L	···	AND THE SECOND STATE OF THE CONTROL OF THE SECOND STATE OF THE SEC	Parameter Services - 150 February
2-Hexanone	NĐ		5.00	—µg/L	1		
4-Methyl-2-pentanone	-ND		5.00	μg⁄L	1		
Acetone	ND		5.00	μg/L	1		
Benzene	0.180	J	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			
Carbon tetrachloride	ND		1.00	μg/Ł	1	•	
Chlorobenzene	ND		1.00	μg/L	1		
Chloroethane	ND		2.00	μg/L			
Chloroform	ND		1.00	μg/L	1	•	
Chloromethane	ND		2.00	μg/L	1		
sis-1,2-Dichloroethene	ND		1.00	μg/L	1		
sis-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			
sopropylbenzene	ND		1.00	μg/L	1,-		
Methyl acetate	ND		1.00	μg/L	1		

ion

NP - Petroleum Pattern is not present

^{· -} Recovery outside QC limits

DF - Dilution Factor

H - Value Exceeds Maximum Contaminant Level

N - Single Column Analysis

B - Analyte found in Method blank

DNI - Did not Ignite

T. T. Commission

NC - Not Calculated

P - Post Spike Recovery outside limits

D - Diluted due to maxtrix or extended target compounds

E - Result above quantitation limit (high standard or ICP linear range).

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit

R - RPD outside recovery limits



International Specialists in Environmental Analysis

Sample Type: SAMP

4493 Walden Avenue

Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#:

Phone: (716) 685-8080

Client: E-and E Buffalo-Office

Lab Order: 0409011

Lab ID: 0409011-02A

Project: Mr. Cs Dry Cleaners

Client Sample ID: AS EFFLUENT

Alt. Client ID:

Collection Date: 9/1/2004 10:40:00 AM % Moist:

Test Code: 1_8260B_5030B_TCL_LL_W

LOW LEVEL VOCS BY METHOD 8260B

Matrix: Water

Method: SW8260B

Prep Method: SW5030B_LL

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
The market of the second	-							
Methylcyclohexane	ND		1.00	µg/L	1			
Methylene chloride	ND		1.00	μg/L	1			
Styrene	ND		1.00	µg/L	1			
Tetrachloroethene	2.60		1.00	μg/L	1	. •		
Toluene	0.383	J	1.00	μg/L	1			
trans-1,2-Dichloroethene	ND		1.00	μg/L				
trans-1,3-Dichloropropene	ND		1.00	μg/L	1			
Trichloroethene	ND		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	94		70 - 128	%REC	1	9/3/2004 12:39:00 PM	PERRY_040903C	DWW
Surr:4-Bromofluorobenzene	110		80 - 119	%REC	1-			
urr:Dibromofluoromethane	95		85 - 110	%REC	1			
Surr:Toluene-d8	98		83 - 110	%REC	1			

ions

* - Recovery outside QC limits

DF - Dilution Factor

H - Value Exceeds Maximum Contaminant Level

N - Single Column Analysis

VP - Perroleum Pattern is not present

B - Analyte found in Method blank

DNI - Did not Ignite

J - Estimated value

NC - Not Calculated

P - Post Spike Recovery outside limits

D - Diluted due to maxtrix or extended target compounds

E - Result above quantitation limit (high standard or ICP linear range).

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit

R - RPD outside recovery limits



Client:

Project:

Analytical Services Center

International Specialists in Environmental Analysis

4493 Walden Avenue

E and E Buffalo Office

Mr. Cs Dry Cleaners

Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#:

10486

Phone:

(716) 685-8080

Client Sample ID: GAC INFLUENT

Alt. Client ID:

Collection-Date: 9/1/2004-9:44:00 AM % Moist:

Lab ID: 0409011-03A

Lab Order: 0409011

Sample Type: SAMP

Matrix: Air

Test Code: 1_TO14_A

		ED 4 = 0.4.4	Donner Markle and	
VOLATILE ORGANICS IN AIR BY METHOD TO-14A	Method:	EPATO14	Prep Method:	NA

1,1,2,2-Tetrachloroethane			50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0	ppbv ppbv ppbv ppbv ppbv ppbv ppbv	10 10 10 10 10 10 10 10	9/2/2004 6:33:00 PM	RMJ
1,1,2,2-Tetrachloroethane 1,1,2-Trichloro-1,2,2- trifluoroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,2-Dichloro-1,1,2,2- tetrafluoroethane 1,2-Dichlorobenzene ichloroethane 1,2-Dichloropropane 1,3-5-Trimethylbenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene		•	50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0	ppbv ppbv ppbv ppbv ppbv ppbv ppbv	10 10 10 10 10 10 10	3/2/2/04 0.55.00 FM 3/4/2_04/30/2D	
1,1,2-Trichloro-1,2,2- trifluoroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,2-Dichloro-1,1,2,2- tetrafluoroethane 1,2-Dichlorobenzene ichloroethane 1,2-Dichloropropane 1,3-5-Trimethylbenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorofde 1,5-Dichloroethane 1,5-Dichloroethane 1,5-Dichloropropene			50.0 50.0 50.0 50.0 50.0 50.0 50.0	ppbv ppbv ppbv ppbv ppbv ppbv	10 10 10 10 10		
trifluoroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,2-Dibromoethane 1,2-Dichloroethane 1,2-Dichlorobenzene ichloroethane 1,2-Dichloropropane 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,5-Dichlorobenzene 1,5-Dichlorobenzene 1,6-Dichlorobenzene 1,6-Dichlorobenzene 1,7-Dichlorobenzene 1,8-Dichlorobenzene 1,8-Dichlorobenz			50.0 50.0 50.0 50.0 50.0 50.0	ppbv ppbv ppbv ppbv ppbv	10 10 10 10 10		
1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,2-Dibromoethane 1,2-Dichloro-1,1,2,2- tetrafluoroethane 1,2-Dichlorobenzene ichloroethane 1,2-Dichloropropane 1,3-5-Trimethylbenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 8.4 Benzene 8.5 Benzene 8.6 Benzyl chloride 8.7 Bromomethane Carbon tetrachloride Chlorobenzene Chloroform Chloromethane 0.8 Cis-1,3-Dichloropropene Nothloromethane			50.0 50.0 50.0 50.0 50.0	ppbv ppbv ppbv ppbv ppbv	10 10 10 10		
1,1-Dichloroethene 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,2-Dibromoethane 1,2-Dichloro-1,1,2,2- tetrafluoroethane 1,2-Dichlorobenzene ichloroethane 1,2-Dichloropropane 1,3-5-Trimethylbenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichloroethane 1,5-Dichloroethene 1,5-Dichloropropene 1,5-Dich			50.0 50.0 50.0 50.0	ppbv ppbv ppbv ppbv	10 10 10		
1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,2-Dibromoethane 1,2-Dichloro-1,1,2,2- tetrafluoroethane 1,2-Dichlorobenzene ichloroethane 1,2-Dichlorobenzene ichloropropane 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 8.4 Benzyl chloride Bromomethane Carbon tetrachloride Chloroethane Chloroform Chloromethane Cis-1,2-Dichloropropene Nothloromethane			50.0 50.0 50.0	ppbv ppbv ppbv	10 10		
1,2,4-Trimethylbenzene 1,2-Dibromoethane 1,2-Dichloro-1,1,2,2- tetrafluoroethane 1,2-Dichlorobenzene ichloroethane 1,2-Dichloropropane 1,2-Dichloropropane 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 8.4 Benzyl chloride Bromomethane Carbon tetrachloride Chlorobenzene Nothoroethane Chloroform Chloromethane Cls-1,2-Dichloropropene Nothoromethane			50.0 50.0	ppbv ppbv	10		
1,2-Dichloro-1,1,2,2- tetrafluoroethane 1,2-Dichlorobenzene ichloroethane 1,2-Dichloropropane ichloropropane 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 8.4 Benzyl chloride Bromomethane Carbon tetrachloride Chlorobenzene Nothorobenzene			50.0	ppbv		•	
1,2-Dichloro-1,1,2,2- tetrafluoroethane 1,2-Dichlorobenzene ichloroethane 1,2-Dichloropropane 1,3-Dichloropropane 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 8.4 Benzene Benzyl chloride Bromomethane Carbon tetrachloride Chlorobenzene Nondomethane Chloroform Chloromethane Chloromethane Chloroform Nondomethane					10		
tetrafluoroethane 1,2-Dichlorobenzene ichloroethane 1,2-Dichloropropane 1,3-5-Trimethylbenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 8.4 Benzene 8.4Benzyl chloride Bromomethane Carbon tetrachloride Chlorobenzene N Chloroethane Chloroform Chloromethane N Cls-1,2-Dichloroethene Cis-1,3-Dichloropropene N Dichlorodifluoromethane			50.0	_	10		
ichloroethane 1,2-Dichloropropane 1,3-5-Trimethylbenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 8.4 Benzene 8.4 Benzyl chloride Bromomethane Carbon tetrachloride Chlorobenzene N Chloroethane Chloroform N Chloromethane N Chloromethane N Chloromethane N Chloroform N Chloromethane N Cls-1,2-Dichloroethene Cis-1,3-Dichloropropene N Dichlorodifluoromethane N	0			ppbv	10		
1,2-Dichloropropane 1,3,5-Trimethylbenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 8.4 Benzene 8.4 Benzyl chloride Normomethane Carbon tetrachloride Chlorobenzene Normomethane Chloroform Normomethane)		50.0	ppbv	10		
1,3,5=Trimethylbenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 8.4 Benzene 8.4 Benzyl chloride Bromomethane Carbon tetrachloride Chlorobenzene N Chlorobenzene Chloroform Chloroform Chloromethane N Chloroform N Chloromethane N Chloromethane N Chloroform N Chloromethane N Chlorodifluoromethane			50.0	ppbv	10	•	
1,3-Dichlorobenzene N. 1,4-Dichlorobenzene N. 1,4-Dichlorobenzene N. Benzene 8.4 Benzyl chloride N. Bromomethane N. Carbon tetrachloride N. Chlorobenzene N. Chloroethane N. Chloroform N. Chloromethane N. Cis-1,2-Dichloroethene N. Dichlorodifluoromethane N.			50.0	ppbv	10		
1,4-Dichlorobenzene	,			ppbv-		entendentenden in der von des den verstellen ihrenden er sehe et sehe et entende in verstellt in den verstellt Terretenden in der verstellt in der verste	
Benzene 8.4 Benzyl chloride N Bromomethane N Carbon tetrachloride N Chlorobenzene N Chloroethane N Chloroform N Chloromethane N Chloromethane N Chloromethane N Chloromethane N Chloroethoroethene 8.1 Cis-1,3-Dichloropropene N Dichlorodifluoromethane N			50.0	_ppbv		A CONTRACT OF THE CONTRACT OF	
Benzyl chloride N Bromomethane N Carbon tetrachloride N Chlorobenzene N Chloroethane N Chloroform N Chloromethane N Chs-1,2-Dichloroethene N Dichlorodifluoromethane N			50.0	bbpv	10		
Bromomethane N Carbon tetrachloride N Chlorobenzene N Chloroethane N Chloroform N Chloromethane N Chs-1,2-Dichloroethene N Dichlorodifluoromethane N	3	J	50.0	ppbv	10		
Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane N Chloromethane N Cls-1,2-Dichloroethene Cis-1,3-Dichloropropene N Dichlorodifluoromethane N)		50.0	ppbv	10		
Chlorobenzene N Chloroethane N Chloroform N Chloromethane N Cls-1,2-Dichloroethene 8.1 cis-1,3-Dichloropropene N Dichlorodifluoromethane N)		50.0	ppbv	10		
Chloroethane N Chloroform N Chloromethane N Cls-1,2-Dichloroethene 8.1 cis-1,3-Dichloropropene N Dichlorodifluoromethane N			50.0	ppbv	10		
Chloroform N Chloromethane N cls-1,2-Dichloroethene 8:1 cis-1,3-Dichloropropene N Dichlorodifluoromethane N)		50.0	ppbv	10		
Chloromethane N cls=1,2-Dichloroethene 8.1 cis-1,3-Dichloropropene N Dichlorodifluoromethane N)——	<u> </u>	50.0	—ppbv——	10	•	
cls-1,2-Dichloroethene 8.1 cis-1,3-Dichloropropene N Dichlorodifluoromethane N)		50.0	ppbv	10	•	
cis-1,3-Dichloropropene N Dichlorodifluoromethane N)		50.0	ppbv	10		
Dichlorodifluoromethane N	2	J	50:0	ppbv	10-		
			50.0	ppbv	10		
=thylbenzene N)		50.0	ppbv	10		
2017.001.1201.0)		50.0	ppbv	10	•	
Hexachlorobutadiene N)		50.0	ppbv	10		
n,p-Xylene N)		. 100	ppbv	10		
Methylene chloride N)		50.0	ppbv	10		
o-Xylene N)		50.0	ppbv	10		
Styrene)``		50.0	ppbv	10	-	
Tetrachloroethene 100		E	50.0	ppbv	10		
Toluene 16.)	J	50.0	ppbv	10		



⁻ Recovery outside QC limits

NP - Petroleum Pattern is not present

DF - Dilution Factor

H - Value Exceeds Maximum Contaminant Level

N - Single Column Analysis

B - Analyte found in Method blank

DNI - Did not Ignite

J - Estimated value

NC - Not Calculated

P - Post Spike Recovery outside limits

D - Diluted due to maxtrix or extended target compounds

E - Result above quantitation limit (high standard or ICP linear range).

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit

R - RPD outside recovery limits



International Specialists in Environmental Analysis

4493 Walden Avenue

Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#:

10486

Phone:

(716) 685-8080

Client: E and E Buffalo Office

Lab Order: 0409011

Project:

Mr. Cs Dry Cleaners

VOLATILE ORGANICS IN AIR BY METHOD TO-144

Client Sample ID: GAC INFLUENT

Alt. Client ID:

Method: FPATO14

Collection Date: 9/1/2004 9:44:00 AM

% Moist:

Lab ID: 0409011-03A

Sample Type: SAMP

Matrix: Air

Test Code: 1_TO14_A

Prep Method: NA

VOLATILE ORGANICS IN AIR BT METHOD 10-14A				ethou. E		Frep metriod. NA		
Analyte	Result Q	Limit	Units	-DF	Date Analyzeo	l Run Batch ID	- Analyst	
			and the second s					
trans-1,3-Dichloropropene	ND	50.0	ppbv	10				
Trichloroethene			ppbv	10_				
Trichlorofluoromethane	, ND	50.0	ppbv	10			•	
Vinyl chloride	ND.	50.0	ppbv	10				
Xylenes, Total	NĐ	150	ppbv	10				
Surr:1,2-Dichloroethane-d4	. 93	80 - 120	%REC	10	9/2/2004 6:33:00 PM	JAKE_040902B	RMJ	
Surr:4-Bromofluorobenzene	100	80 - 120	%REC	10				
Surr:Toluene-d8	99	80 - 120	%REC	10				

D ms:

- Recovery outside QC limits

DF - Dilution Factor

F - Value Exceeds Maximum Contaminant Level

N - Single Column Analysis

NP - Petroleum Pattern is not present

B - Analyte found in Method blank

DNI - Did not Ignite

J - Estimated value NC - Not Calculated

P - Post Spike Recovery outside limits

D - Diluted due to maxtrix or extended target compounds

E - Result above quantitation limit (high standard or ICP linear range).

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit

R - RPD outside recovery limits



International Specialists in Environmental Analysis

Sample Type: DL

4493 Walden Avenue

Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486

(716) 685-8080 Phone:

E and E Buffalo Office Client:

Lab Order: 0409011

Lab ID: 0409011-03A

Project: Mr. Cs Dry Cleaners-

Client Sample ID: GAC INFLUENT

Alt. Client ID:

Collection Date: 9/1/2004 9:44:00 AM -- % Moist:

Test Code: 1_TO14_A

Matrix: Air

VOLATILE ORGANICS IN AIR	BY METHOD TO-14A			Method: I	EPATO14	Prep Method: N	<u>A</u>
Analyte	Result Q	Limit	Units	DF	Date Analyzed	I Run Batch ID	Analyst
1,1,1-Trichloroethane	ND	125	ppbv	25	9/2/2004 4:42:00 PM	JAKE_040902B	RMJ
	ND	125	ppbv	25			<u> </u>
1,1,2,2-Tetrachloroethane 1,1,2-Trichloro-1,2,2-	ND	125	ppbv	25			
trifluoroethane							
1,1,2-Trichloroethane	ND	125	ppbv	25			
1,1-Dichloroethane	ND	125	ppbv	25			
1,1-Dichloroethene	ND	125	ppbv	25		•	
1,2,4-Trichlorobenzene	ND	125	ppbv	25			
1,2,4-Trimethylbenzene	ND	125	ppbv	25			
1,2-Dibromoethane	ND	125	ppbv	25			
1,2-Dichloro-1,1,2,2- tetrafluoroethane	ND	125	ppbv	25			
1,2-Dichlorobenzene	ND	125	ppbv	25			*
Dichloroethane	ND	125	ppbv	25			
Dichloropropane	ND	125	ppbv	25			
1,3,5-Trimethylbenzene	-	125	ppbv	25-	automa, un arten en e	man and a second	ere had an in the tree was been
1,3-Dichlorobenzene		125	ppbv.	25			
1,4-Dichlorobenzene	ND	125	βδρΛ	2 5			
Benzene	ND	125	ppbv	25			
Benzyl chloride	ND	125	ppbv	25			
Bromomethane	ND	. 125	ppbv	25			
Carbon tetrachloride	ND	125	ppbv	25		•	
Chlorobenzene	ND	125	ppbv	25			- F 1
Chloroethane	ND	125	ppbv	25-			
Chloroform	ND	125	ppbv	25			
Chloromethane	ND	125	ppbv	25			
cis-1,2-Dichloroethene	ND	125	ppbv	25-			
cis-1,3-Dichloropropene	ND	125	ppbv	25		•	
Dichlorodifluoromethane	ND	125	ppbv	25			
Ethylbenzene	ND	125	ppbv	25			
Hexachlorobutadiene	ND	125	ppbv	25			
m,p-Xylene	ND	250	ppbv	25			
Methylene chloride	ND	125	ppbv	25			
o-Xylene	ND	125	ppbv	25		•	
Styrene	ND	125	ppbv	25			
Tetrachloroethene	1100	125	ppbv	25			
Toluene	15.6 J	125	ppbv	25			
trans-1,2-Dichloroethene	ND	125	ppbv	25			

itions:

^{* -} Recovery outside QC limits

DF - Dilution Factor

H - Value Exceeds Maximum Contaminant Level

N - Single Column Analysis

NP - Petroleum Pattern is not present

B - Analyte found in Method blank

DNI - Did not Ignite

J - Estimated value

NC - Not Calculated

P - Post Spike Recovery outside limits

D - Diluted due to maxtrix or extended target compounds

E - Result above quantitation limit (high standard or ICP linear range).

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit

R - RPD outside recovery limits



Project:

Analytical Sewces Center

International Specialists in Environmental Analysis

4493 Walden Avenue

Lancaster, New York 14086

Lboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

E and E Buffalo Office Client:

Lab Order: 0409011

Mr. Cs Dry Cleaners

Client Sample ID: GAC-INFLUENT

Alt. Client ID:

Collection Date: 9/1/2004 9:44:00 AM

Lab ID: 0409011-03A Test Code: 1_TO14_A Sample Type: DL Matrix: Air

VOLATILE ORGANICS IN AIR BY METHOD TO-14A

Method: EPATO14 Prep Method: NA

Analyte	Result Q	Limit_	_Units	DE	Date Analyzed Run Batch ID	Analyst
a mask of the state of the stat						
trans-1,3-Dichloropropene	ND	125	ppbv	25		
Trichloroethene	51.8 / J	125	ppbv	25		
Trichlorofluoromethane	ND	125	ppbv	25		
Vinyl chloride	ND	125	ppbv	25		
Xylenes, Total	, ND	375	ppbv	25		
Surr:1,2-Dichloroethane-d4	93	80 - 120	%REC	25	9/2/2004 4:42:00 PM JAKE_040902B	RMJ
Surr:4-Bromofluorobenzene	99	80 - 120	%REC	25		
Surr:Toluene-d8	100	80 - 120	%REC	25		

- Recovery outside QC limits

DF - Dilution Factor

H - Value Exceeds Maximum Contaminant Level

N - Single Column Analysis

NP - Petroleum Pattern is not present

B - Analyte found in Method blank

DNI - Did not Ignite

NC - Not Calculated

P - Post Spike Recovery outside limits

D - Diluted due to maxtrix or extended target compounds

E - Result above quantitation limit (high standard or ICP linear range).

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit

R - RPD outside recovery limits



Lab Order: 0409011

Client: E-and E Buffalo Office

Analytical Se_ices Center

International Specialists in Environmental Analysis

4493 Walden Avenue

Lancaster, New York 14086

→aboratory Results

NYS ELAP ID#:

10486

Phone: (71

(716) 685-8080

Client Sample ID: GAC EFFLUENT

Alt. Client ID:

Project: Mr. Cs Dry Cleaners Collection Date: 9/1/2004 9:45:00 AM % Moist:

Lab ID: 0409011-04A 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	Limit	Units	DF	Date Analyzed Run Batch ID	Analyst
*							
1,1,1-Trichloroethane	ND	·	5.00	ppbv	1	9/2/2004 7:57:00 PM JAKE_040902B	RMJ
1,1,2,2-Tetrachloroethane	ND		5.00	ppby	1		
1,1,2-Trichloro-1,2,2- trifluoroethane	ND		5.00	ppbv	1		
1,1,2-Trichloroethane	ND		5.00	ppbv	1		
1,1-Dichloroethane	-ND		5.00	ppbv	1_		•
1,1-Dichloroethene	ND		5.00	ppbv	1		
1,2,4-Trichlorobenzene	ND		5.00	ppbv	1	•	
1,2,4-Trimethylbenzene	0.659	J	5.00	ppbv	1	•	
1,2-Dibromoethane	ND		5.00	ppbv	1		
1,2-Dichloro-1,1,2,2- tetrafluoroethane	ND		5.00	ppbv	1		
1,2-Dichlorobenzene	ND		5.00	ppbv	1	•	
1,2-Dichloroethane	ND		5.00	ppbv	1		
Dichloropropane	ND		5.00	ppbv	1		
1,5,5-Trimethylbenzene	ND		5.00	ppbv	1	,	
1,3-Dichlorobenzene	ND	inda anno como mondo	5.00	ppbv		tion and the control of the control	SERVICE REPORTED OF THE OTHER PRO
1,4-Dichlorobenzene				ppbv-	1	· ·	
Benzene-	ND-		-5.00	ppbv	1		
Benzyl chloride	ND		5.00	ppbv	1		
Bromomethane	ND		5.00	ppbv	1		•
Carbon tetrachloride	ND		5.00	ppbv	1		
Chlorobenzene	ND.		5.00	ppbv	1	·	_
Chloroethane	ND		5.00	ppbv	1		•
Chloroform	ND		5.00	ppbv	1		
Chloromethane	0.727	J	5.00	ppbv	1		
cis-1,2-Dichloroethene	8.50		5.00	ppbv	1		
cis-1,3-Dichloropropene	ND		5.00	ppbv	i -		
Dichlorodifluoromethane	0.650	J	5.00	ppbv	1		
Ethylbenzene	ND .		5.00	ppbv	1		
Hexachlorobutadiene	ND		5.00	ppbv	1		
m,p-Xylene	ND		10.0	ppbv	1		
Methylene chloride	0.844	J	5.00	ppbv	1		
o-Xylene	ND		5.00	ppbv	1		
Styrene	ND		5.00	ppbv	1		
Tetrachloroethene	8.34		5.00	ppbv	1		
Toluene	ND		5.00	ppbv	1		
trans-1,2-Dichloroethene	ND		5.00	ppbv	1		

tions:

covery outside QC limits

DF - Dilution Factor

H - Value Exceeds Maximum Contaminant Level

N - Single Column Analysis

NP - Petroleum Pattern is not present

B - Analyte found in Method blank

DNI - Did not Ignite

J - Estimated value

NC - Not Calculated

P - Post Spike Recovery outside limits

D - Diluted due to maxtrix or extended target compounds

E - Result above quantitation limit (high standard or ICP linear range).

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit



International Specialists in Environmental Analysis

4493 Walden Avenue

Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

Client:

E and E Buffalo Office

Lab Order: 0409011 Project: Mr. Cs Dry Cleaners Client Sample ID: GAC EFFLUENT

Alt. Client ID:

Collection Date: 9/1/2004 9:45:00 AM % Moist:

Lab ID: 0409011-04A

Sample Type: SAMP

Matrix: Air

Test Code: 1_TO14_A

Result	0						
	<u> </u>	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
ND		5.00	ppbv	1			The state of the same of the s
ND		5.00	ppbv	1			
ND		5.00	ppbv	1			
ND		5.00	ppbv	1			
		15.0	—ppbv	1			
102		80 - 120	%REC	1	9/2/2004 7:57:00 PM	JAKE_040902B	RMJ
98		80 - 120	%REC	1			
99		80 - 120	%REC	1			
	ND ND ND ND 102 98	ND ND ND ND 102 98	ND 5.00 ND 5.00 ND 5.00 ND 15.0 102 80 - 120 98 80 - 120	ND 5.00 ppbv ND 5.00 ppbv ND 5.00 ppbv ND 15.0 ppbv 102 80 - 120 %REC 98 80 - 120 %REC	ND 5.00 ppbv 1 ND 5.00 ppbv 1 ND 5.00 ppbv 1 ND 15.0 ppbv 1 102 80 - 120 %REC 1 98 80 - 120 %REC 1	ND 5.00 ppbv 1 ND 5.00 ppbv 1 ND 5.00 ppbv 1 ND 15.00 ppbv 1 ND 15.0 ppbv 1 102 80 - 120 %REC 1 9/2/2004 7:57:00 PM 98 80 - 120 %REC 1	ND 5.00 ppbv 1 ND 5.00 ppbv 1 ND 5.00 ppbv 1 ND 15.0 ppbv 1 102 80 - 120 %REC 1 9/2/2004 7:57:00 PM JAKE_040902B 98 80 - 120 %REC 1



* - Recovery outside QC limits

DF - Dilution Factor

H - Value Exceeds Maximum Contamin

N - Single Column Analysis

NP - Petroleum Pattern is not present

B - Analyte found in Method blank

DNI - Did not Ignize

J - Estimated value

NC - Not Calculated

P - Post Spike Recovery outside limits

D - Diluted due to maxtrix or extended target compounds

E - Result above quantitation limit (high standard or ICP linear range).

M - Marrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit

R - RPD outside recovery limits



International Specialists in Environmental Analysis

4493 Walden Avenue

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

Alt. Client ID:

Project: Mr. Cs Dry Cleaners

Collection Date: 9/1/2004-10:35:00 AM - Moist:

Lab ID: 0409011-01B

Lab Order: 0409011

Sample Type: SAMP

Matrix: Water

Test Code: 1_6010B_TAL_W

ICP METALS ANALYSIS B	CP METALS ANALYSIS BY METHOD 6010B				SW6010B	Prep Method: SW3010A	
Analyte	Result Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Numinum	ND	. 200	μg/L	1	9/8/2004 1:17:01 AM	OPTIMA3300_040907A	SDP
Calcium	117000	1500	μg/L	1			
Cobait	ND	20.0	μg/L	1		,	
Copper	ND	20.0	μg/L	1			
ron	965	200	μg/L	1			
_ead	ND	5.00	μg/L	1			
/lagnesium	18600	1500	μg/L	1			
Manganese	212	10.0	μg/L	1			
lickel	ND	20.0	μg/L	1			
otassium	5590	1500	μg/L	1			
Silver	ND	10.0	μg/L	. 1			
Sodium	202000	1500	μg/L	1			
/ dium	ND	20.0	μg/L	1			
	ND	20.0	μg/L	1		•	



⁻ Recovery outside QC limits

IP - Petroleum Pattern is not present

r - Dinnon Pactor

I - Value Exceeds Maximum Contaminant Level

I - Single Column Analysis

B - Analyte found in Method blank

DNI - Did not Ignite

J - Estimated value

NC - Not Calculated

P - Post Spike Recovery outside limits

D - Diluted due to maxinx or extended target compounds

E - Result above quantitation limit (high standard or ICP linear range).

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit

R - RPD outside recovery firmits



International Specialists in Environmental Analysis 4493 Walden Avenue 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: 0409011

Alt. Client ID:

Project: Mr. Cs-Dry-Cleaners-

Collection Date: 9/1/2004-10:40:00 AM - % Moist:

Lab ID: 0409011-02B

Sample Type: SAMP

Test Code: 1_6010B_TAL_W

CP	METAI	A 2	NAI	212V	RV	METHOD	6010R

-+1		

Method: SW6010B

Prep Method: SW3010A

Analyte	Result Q	Limit	Units	DF	Date Analyzed Run Batch ID	Analys
Aluminum	ND	200	μg/L	1	9/8/2004 1:22:54 AM OPTIMA3300_040907A	SDP
Calcium	113000	1500	μg/L	1		
Cobalt	ND	20.0	μg/L	1	·	
Copper	ND	20.0	μg/L	1		
ron		200	μg/L	1		
ead	ND	5.00	μg/L	1		
Magnesium	18200	1500	μg/L	1		
langanese	206	10.0	μg/L	1		
lickel	ND ND	20.0	μg/L	·1		
otassium	5580	1500	μg/L	1		
ilver	ND	10.0	μg/L	1		
odium	196000	1500	μg/L	. 1		
enadium	ND	20.0	μg/L	1		
	ND	20.0	μg/L	1		

Matrix: Water



- Recovery outside QC limits

)F - Dilution Factor

I - Value Exceeds Maximum Contaminant Level

i - Single Column Analysis

IP - Petroleum Pattern is not present

B - Analyte found in Method blank

DNI - Did not Ignite

J - Estimated value

NC - Not Calculated

P - Post Spike Recovery outside limits

D - Diluted due to maxtrix or extended target compounds

E - Result above quantitation limit (high standard or ICP linear range).

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit



International Specialists in Environmental Analysis 4493 Walden Avenue 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: 0409011

Alt. Client ID:

Mr. Cs Dry Cleaners Project:

Collection Date: 9/1/2004-10:35:00 AM % Moist:

Lab ID: 0409011-01B

Sample Type: SAMP

Matrix: Water

Test Code: 1_7470A_HG_W

MERCURY ANALYSIS IN WATER BY METHOD 7470A

Method: SW7470A Prep Method: SW7470A

Analyte

Result

Limit

DF

Date Analyzed

Run Batch ID

Analyst

Mercury

ND

0.200

μg/L

Units

very outside QC limits

F - Dilution Factor

- Value Exceeds Maximum Contaminant Level

- Single Column Analysis

? - Petroleum Pattern is not present

B - Analyte found in Method blank

DNI - Did not Ignite

J - Estimated value

NC - Not Calculated P - Post Spike Recovery outside limits D - Diluted due to maxtrix or extended target compounds

E - Result above quantitation limit (high standard or ICP linear range).

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit



International Specialists in Environmental Analysis

4493 Walden Avenue

Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

Prep Method: SW7470A

E and E Buffalo Office Client:

Lab Order: 0409011

Project: Mr. Cs Dry Cleaners

MERCURY ANALYSIS IN WATER BY METHOD 7470A

Client Sample ID: AS EFFLUENT

SW7470A

Alt. Client ID:

Collection Date: 9/1/2004 10:40:00 AM % Moist:

Lab ID: 0409011-02B

Sample Type: SAMP

Matrix: Water

Test Code: 1_7470A_HG_W

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch II) Analyst

Mercury

ND

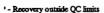
0.200

μġ/L

Method:

9/8/2004 2:11:19 PM LEEMAN_040908B

JLS



Value Exceeds Maximum Cor

7 - Single Column Analysis

Petroleum Pattern is not present

DNI - Did not Ignite

J - Estimated value

NC - Not Calculated

P - Post Spike Recovery outside limits

D - Diluted due to maxtrix or extended target compounds

E - Result above quantitation limit (high standard or ICP linear range).

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit



Lab-Order: 0409011

Project: Mr. Cs Dry Cleaners

Client:

E and E Buffalo Office

Analytical Services Center

International Specialists in Environmental Analysis
4493 Walden Avenue
Lancaster, New York 14086

Laboratory Results

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

Client Sample ID: AS INFLUENT

Alt. Client ID:

Collection Date: 9/1/2004 10:35:00 AM % Moist:

Lab ID: 0409011-01D Sample Type: SAMP Matrix: Water Test Code: 1_130.2_HARD_W

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

Analyte Result Q Limit Units DF Date Analyzed Run Batch ID Analyst

Hardness (As CaCO3) 368 1.00 mg/L 1 9/8/2004 WC_HARDNESS_040908A LMW

)ns:

. Recovery outside QC limits

DF - Dilution Factor

H - Value Exceeds Maximum Contaminant Level

N - Single Cohum Analysis

NP - Petroleum Pattern is not present

B - Analyte found in Method blank

DNI - Did not Ignite

J - Estimated value

NC - Not Calculated
P - Post Spike Recovery outside limits

D - Diluted due to maxtrix or extended target compounds

E - Result above quantitation limit (high standard or ICP linear range).

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit

R - RPD outside recovery limits



International Specialists in Environmental Analysis

4493 Walden Avenue

Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

E and E Buffalo Office

Client Sample ID: AS EFFLUENT

Lab Order: 0409011

Alt. Client ID:

Project: Mr. Cs Dry Cleaners

Collection Date: 9/1/2004 10:40:00 AM % Moist:

Lab ID: 0409011-02D

Sample Type: SAMP

Matrix: Water

Test Code: 1_130.2_HARD_W

HARDNESS, TOTAL BY METHOD EPA 130.2

Method: EPA130.2

Prep Method: NA

Analyte	Result Q	Limit	Units	DF Date A	Analyzed	Run Batch ID	Analyst
	A CONTRACT OF THE PARTY OF THE						
Hardness (As CaCO3)	433	1.00	mg/L	1 9/8/2	2004	WC_HARDNESS_040908A	LMW



DF - Dilution Factor

P - Petroleum Pattern is not present

B - Analyte found in Method blank

DNI - Did not Ignite

I - Estimated value

NC - Not Calculated

P - Post Spike Recovery outside limits

D - Diluted due to maxtrix or extended target compounds

E - Result above quantitation limit (high standard or ICP linear range).

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit

H - Value Exceeds Maximum Contaminant Level

i - Single Column Analysis



International Specialists in Environmental Analysis 4493 Walden Avenue

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

Alt. Client ID:

Lab Order: 0409011 Project: Mr. Cs Dry-Cleaners

Collection Date: 9/1/2004-10:35:00 AM - %-Moist:

Lab ID: 0409011-01D

Sample Type: SAMP

Matrix: Water

Test Code: 1_160.1_TDS_W

ΙΔΤΩ	DISSOLVED SOLI	DS (TDS)	BY METHOD	EPA 160 1

Method: EPA160.1

Prep Method: NA

Analyte	Result	Q Lin	it Units	DF	Date Analyzed	Run Batch ID	Analyst
Total Dissolved Solids (Residue,	1000		10 mg/L	1	. 9/3/2004	SARTORIUS_TDS_040903	B LMH ·
Filterable)							

- Recovery outside QC limits

DF - Dilution Factor

H - Value Exceeds Maximum Contamina

N - Single Column Analysis

NP - Petroleum Pattern is not present

B - Analyte found in Method blank

DNI - Did not ignite

NC - Not Calculated P - Post Spike Recovery outside limits D - Diluted due to maxirix or extended target compounds

E - Result above quantitation limit (high standard or ICP linear range).

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit



International Specialists in Environmental Analysis 4493 Walden Avenue Lancaster, New York 14086

Sample Type: SAMP

Laboratory Results

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

E and E Buffalo Office

Client Sample ID: AS EFFLUENT

Alt. Client ID:

Lab Order: 0409011

Lab ID: 0409011-02D

Project: Mr. Cs Dry Cleaners

Collection Date: 9/1/2004 10:40:00 AM % Moist:

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	Limit	Units	DF	Date Analyzed	Run Batch ID	Analys
otal Dissolved Solids (Residue,	980		10	mg/L	1	9/3/2004	SARTORIUS_TDS_040903	LMH

Matrix: Water

covery outside QC limits

H - Value Exceeds Maximum Contami

N - Single Column Analysis

NP - Petroleum Pattern is not present

B - Analyte found in Method blank

DNI - Did not Ignite

J - Estimated value

NC - Not Calculated

P - Post Spike Recovery outside limits

D - Diluted due to maxtrix or extended target compounds

E - Result above quantitation limit (high standard or ICP linear range).

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit



International Specialists in Environmental Analysis

4493 Walden Avenue

Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

Client: E and E Buffalo Office

Lab Order: 0409011

Project: Mr. Cs Dry Cleaners

Alt. Client ID:

Client Sample ID: AS INFLUENT

Collection Date: 9/1/2004-10:35:00 AM % Moist:

Lab ID: 0409011-01D

Sample Type: SAMP

Matrix: Water

Test Code: 1_160.2_TSS_W

TOTAL SUSPENDED SOLIDS, NO	N-FILTERAE	BLE RE	SIDUE	1	Method:	EPA160.2	Prep Method: NA	
Analyte	Result	Q	Limit	Units	DF	Date Analy	zed Run Batch ID	Analyst
Total Suspended Solids (Residue, Non-Filterable)	, ND		4.0	mg/L		1 9/3/2004	SARTORIUS_TSS_0409	03 LMH



Recovery outside QC limits

NP - Petroleum Pattern is not present

B - Analyte found in Method blank

DNI - Did not Ignite

J - Estimated value

NC - Not Calculated

P - Post Spike Recovery outside limits

D - Diluted due to maxtrix or extended target compounds

E - Result above quantitation limit (high standard or ICP linear range).

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit

DF - Dilution Factor

H - Value Exceeds Maximum Contaminant Level

N - Single Column Analysis



International Specialists in Environmental Analysis

4493 Walden Avenue

Lancaster, New York 14086

Laboratory Results

NYS ELAP ID#: 10486

(716) 685-8080 Phone:

E and E Buffalo Office Client:

Client Sample ID: AS EFFLUENT

Lab Order: 0409011

Alt. Client ID:

Project: Mr. Cs-Dry-Cleaners-

Collection-Date: -9/1/2004-10:40:00-AM -%-Moist:

Lab ID: 0409011-02D

Sample Type: SAMP

Matrix: Water

Test Code: 1_160.2_TSS_W

TOTAL SUSPENDED SOLIDS, NOI	N-FILTERABLE RESIDUE
-----------------------------	----------------------

Method:

EPA160.2

Prep Method: NA

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Total Suspended Solids (Residue,	ND		4.0	mg/L	1	9/3/2004	SARTORIUS_TSS_040903	LMH



^{· -} Recovery outside QC limits

NP - Petroleum Pattern is not present

DF - Dilution Factor

H - Value Exceeds Maximum Contam

N - Single Column Analysis

B - Analyte found in Method blank

DNI - Did not Ignite

J - Estimated value

NC - Not Calculated

P - Post Spike Recovery outside limits

D - Diluted due to maxtrix or extended target compounds

E - Result above quantitation limit (high standard or ICP linear range).

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit

R - RPD outside recovery limits



International Specialists in Environmental Analysis 4493 Walden Avenue 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: 0409011

Alt. Client ID: Project: Mr. Cs Dry Cleaners

-Collection-Date: 9/1/2004-10:35:00-AM- % Moist:

Lab ID: 0409011-01C

Sample Type: SAMP

Matrix: Water

Test Code: 1_9012A_CN_W

CYANIDE, TOTAL BY METHOD 9012A

Method:

SW9012A

Prep Method: NA

Result

Limit

Units DF Date Analyzed Run Batch ID

Analyst

Cyanide

Analyte

ND

0.01

mg/L

9/3/2004 8:27:55 AM LACHAT_CN_040902C

LMH

very outside QC limits

DF - Dilution Factor

H - Value Exceeds Maximum Contaminant Level

N - Single Column Analysis

NP - Petroleum Pattern is not present

B - Analyte found in Method blank

DNI - Did not ignite

I - Estimated value NC - Not Calculated

P - Post Spike Recovery outside limits

E - Result above quantitation limit (high standard or ICP linear range).

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit



International Specialists in Environmental Analysis 4493 Walden Avenue Lancaster, New York 14086

Laboratory Results

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

Client: E and

E and E Buffalo Office

Lab Order: 0409011

Project: Mr. Cs Dry Cleaners

Client Sample ID: AS EFFLUENT

Alt. Client ID:

-Collection Date: 9/1/2004-10:40:00 AM - Moist:

Sample Type: SAMP

Matrix: Water

Test Code: 1_9012A_CN_W

CYANIDE, TOTAL BY METHOD 9012A

Method:

SW9012A

Prep Method: NA

Analyte

Lab ID: 0409011-02C

Result

Limit

Units DF

Date Analyzed Run Batch ID

ın Batch ID Analyst

Cyanide

ND

0.01

mg/L

9/3/2004 8:30:49 AM LACHAT_CN_040902C

LMH



- Recovery outside QC limits

OF - Dilution Factor

H - Value Exceeds Maximum Contaminant Level

vi - Single Column Analysis

VP - Petroleum Pattern is not present

B - Analyte found in Method blank

DNI - Did not Ignite

J - Estimated value

NC - Not Calculated

P - Post Spike Recovery outside limits

D - Diluted due to maxtrix or extended target compounds

E - Result above quantitation limit (high standard or ICP linear range).

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit

Attachment C

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

October 2003 to September 2004

Mr. C's Dry Cleaners Site - Remedial Treatment	aners Site	- Remedia		Utility Costs					AT	ATTACHMENT	NTC
NYSDEC Work Assignment #27.4	Assignme	ent #27.4						Utility Budget:	get:	Electric:	\$14,400.00
12 Months of System Operation and Maintenan	ystem Op	eration and	Maintenance							Telephone:	\$540.00
September 2004 Report	4 Report									Total:	\$14,940.00
Gas and Electric											
Utility Provider	Account #	E&E Cost Center Description	Description	October	November	December	January '04	February	March		
New York State E&G	06-311-11-	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		
	002616-26										
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	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	&	\$ 2,002.83
			Mr. C's Natural Gas Costs	\$ 90.90	\$ 66.37	\$ 57.66	\$ 54.86				\$ 79.94
				&	· •						
			Totals	\$ 1,882.85	\$ 1,700.34	\$ 1,663.09	\$ 1,756.40	\$ 1,381.96	\$ 1,241.26		\$ 2.082.77
O	irand Total - N	YSE&G/National	Grand Total - NYSE&G/National Fuel Gas Costs To Date	4	22,510.80						
Phone						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
Utility Provider	Phone #	E&E Cost Center	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											<i>,</i>
				April	May	June	July	August	September	October	Ave./Month
				\$ 38.67	\$ 39,75	\$ 38.37	\$ 38.01	\$ 39.40	· •	&	\$ 45.05
		Grand Lotal -	Grand otal - Verizon Costs to Date	S	611.36		This includ	es initial connect	ion fees for the	phone compa	****This includes initial connection fees for the phone company of approximate
		Grand Total	Grand Total All Utilities To Date	\$	23,122.16						

	allers ofte	- Remedia	Mr. C's Dry Cleaners Site - Remedial Treatment Utility Costs	ity Cost	S		AT	ATTACHMENT C	1 C
NYSDEC Work Assignment #27.3	Assignme	nt #27.3							
12 Months of System Operation and Maintenar	stem Ope	ration and	Maintenance		Budget Remaining:	Electric:	-\$8,110.80		
	The state of the s	Me e Micha dals colons communication con con con con con con con con con c				Telephone:	-\$71.36		
						Total:	-\$8,182.16		
					O&M Months Remaining:	ining: 2			
Monthly Treatment System Operational Time by O&N	nt System 0	perational	_	Services					
	Possible OP	Actual OP		Percent					
Month	Hours	Hours	Percent	Capacity*	General Operation Comments				
September-03	96	96	100.00%	28%	Shutdown by Tyree after Separable Part B inspection	t B inspection			
October-03	168	168	100.00%	%9	Official Startup by O&M on 10/22/03				
November-03		720	100.00%	2%					
December-03		744	100.00%	28%					
January-04		672	100.00%	16%					
February-04		969	100.00%	21%					
March-04		815	99.88%	51%					
April-04		670	99.70%	20%					
May-04		513	73.71%	43%	Equipment shutdown- low flow of water to air stripper - 5/17-24/04	to air stripper - 5/17-	-24/04		
June-04		692	99.43%	30%	Individual pumps shutdown for inspection and cleaning	on and cleaning			
July-04		840	100.00%	47%	100% operational				
August-04		672	100.00%	45%	100% operational				
September-04	840	820	97.62%	31%	Temporary Stripper Shutdown				
October-04									
Totals to Date	8328	8118	97.48%						
			* Percent Capacity is based o	n initial operatir	* Percent Canacity is based on initial onerating provinguater flows from the cight installed number from the cight installed number from the cight.	Olo moral from Olo			
			Evaluated on total gallons discharged for monthly operating time	charged for mo	nthly operating time	ole mon some some			
			Maximum pump discharges c	alculated as an	Maximum pump discharges calculated as an average of 78 gpm as the total for all 8 pumps at the site if all	umps at the site if al	l pumps operate 100%.	.00%	
Projected Utility Costs for the O&M year (10/03 to 10/04)	or the O&M yea	ar (10/03 to 10/0	14)						
	Ave./Month								
Electric	2,0		The state of the s						
Gas									
Telephone									
	\$ 2,127.83	times	12 months	\$25,533.92					