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# ecology and environment engineering, p.c.

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April 09, 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  
March 2004 O&M Report

Dear Mr. Chiusano:

Ecology and Environment Engineering, P.C. (E&E) is pleased to provide this March 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 E&E's subcontractor O&M Enterprises (OME) are provided as Attachment A. The analytical data package from E&E's Analytical Services Center is provided as Attachment B.

In review of the on-site treatment system operation, E&E offers the following comments and highlights:

## Operational Summary

- One system shutdown occurred on 3/29/04 due to an alarm indicating that there was low air pressure in the air stripper. The system was shutdown for approximately 15 minutes then restarted. As a result, the alarm signal disappeared. The system was operational for 99.97% of the period between 02/24/04 and 03/29/04. Table 1 is provided to indicate the monthly operational time of the treatment equipment from the time of system startup.
- Pumps PW-2 and PW-3 were turned off by E & E personnel on 03/24/04, in order to determine if this action will affect the Total Dissolved Solids (TDS) concentration in the effluent groundwater, which has been consistently in excess of the daily maximum concentration, possibly as a result of high concentrations of metals present in the groundwater, which are not removed by the groundwater treatment system. These pumps were restarted after monthly compliance sampling was performed.
- The monthly March 2004 influent totalizer indicates that approximately 2,164,569 gallons of groundwater were processed through the treatment system from 02/24/04 to 03/29/04. The effluent totalizer batteries were replaced on 3/15/04 and the effluent totalizer automatically reset to zero during the temporary DC power outage. Because of questionable accuracy, the effluent totalizer readings are not used. OME is preparing a proposal in

April 2004 for repair and replacement of the effluent totalizer for consistency in reporting. Table 2 provides a summary of groundwater volume treated to date. Historical volumes are based on influent totalizer readings provided by the previous contractor's weekly inspection forms.

**Table 1**  
**Mr. C's Dry Cleaners Site, Site # 9-15-157**  
**Monthly Operational Uptime of the Treatment Equipment**

<b>Month (reporting hours)</b>	<b>Operational Up-time (%)<sup>1</sup></b>
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)	90.0%
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, 2004 – February 24, 2004 (696)	100%
February 24, 2004 – March 29, 2004 (816)	99.97%

<sup>1</sup> Based on total hours for the month in the reporting period.  
 Treatment system operated by the Tyree Organization Ltd. From 9/02 - 9/03.  
 Treatment system operated by O&M Enterprises from 10/03 - present.

- Piezometer measurements were collected on 03/02/04 at the time of compliance sampling. These readings are provided in the weekly inspection reports provided in Attachment A. Due to the presence of a car parked above the well cap, measurements were not collected at PW-5 and the piezometers surrounding this well, except for piezometer PZ-5C, which displayed a depth to water measurement of 9.96 feet. Measurements were not collected at piezometers PZ-6A and PZ-6C, due to the presence of deep snow in the areas noted. These measurements indicate that a cone of depression still exists around all of the wells that were able to be measured. The water level in PW-5 was not determinable due to the reason stated above, so it is not certain if the measurement taken from PZ-5C would indicate that a cone of depression exists around PW-5.
- On March 2, 2004, R.C. Becken replaced the 25-micron filters and 10-micron filters with 10-micron filters exclusively, because of a lack of stock in larger

micron filters on site. R.C. Becken immediately purchased 10 qty. 100-micron filters and 10 qty. 50-micron filters from Fluid Conditioning Equipment in East Aurora and replaced the 10-micron filters with a 100-micron filter in series with a 50-micron filter. Flow rate dramatically increased as a result. Filters in the filtering unit were also replaced on 3/8/04, 3/15/04, 3/21/04 and 3/29/04 with 100-micron and 50-micron filters in series. The sequestering agent metering pump was turned off on 1/19/04 to help determine if it is contributing to the binding of the filters and has been off since that time. System evaluation is still being performed. Report expected in May 2004.

- The light mounted on the exterior of the building above the garage was noticed to be not working on 3/24/04. If it's determined that the bulb is not burnt out, O & M Enterprises will diagnose the problem and fix it.
- Checklists for weekly system inspections are provided as Attachment A for 3/2/04, 3/8/04, 3/15/04, 3/21/04 and 3/29/04. Weekly system checks indicate that all operating equipment appear to be operating within normal ranges.
- On 3/29/04 E & E personnel noticed that the panel board lights indicated that PW-2 and PW-3 were on, despite the fact that the respective switches were moved to the off position on 3/24/04. Upon closer inspection, it was determined that the water levels in the respective wells were not dropping. It was then assumed that pumps PW-2 and PW-3 were indeed not running. Possible electrical problem may exist somewhere in the panel board. E & E will have O & M Enterprises diagnose and correct the problem during the next reporting period.
- On April 7, 2004, E & E responded by letter to Mr. Richard Rint – NYSDEC regarding the non-compliance of Tetrachloroethene (TCE) in January and February 2004. The letter also requested higher limits for Total Dissolved Solids (TDS), since the system does not treat for TDS and has been consistently above the permit maximum limit since operation by Tyree in September 2003. The letter of April 7, 2004 included further corrective action plans for inspecting and cleaning the air stripping unit and additional compliance sampling. Response to the letter and corrective action plan is expected by the NYSDEC Region 9 office in April 2004.

### **Analytical Summary - Groundwater**

- E&E and OME personnel sampled influent and effluent groundwater on March 2, 2004. The groundwater samples were analyzed for volatile organic compounds (VOCs), metals, total suspended solids (TSS), total dissolved solids (TDS), and hardness. The air samples were analyzed for VOCs only. The results are discussed below.
- Methyl tert-butyl ether (MTBE) (27.5 µg/L), cis-1,2-Dichloroethene (estimated value of 6.14 µg/L) Trichloroethene (55.7 µg/L) and Tetrachloroethene (1850 µg/L) were the only VOCs detected in the influent groundwater. Tetrachloroethene was the only VOC detected in the effluent groundwater at a concentration of 4.96 µg/L, which is in compliance with the Effluent Limitations of 10 µg/L given in Addendum #1 of the Construction Contract Documents. E&E continues to believe that this drop in concentration may result from pump RW-1 being in operation at the time of sampling,

which diluted the groundwater and thus reduced the concentration of tetrachloroethene in the influent and effluent groundwater samples.

- A comparison between the analytical values and the limitations set forth is presented as Table 3.
- Approximately 34.9 pounds of VOCs were collected in the influent groundwater, as calculated in Table 4. These values are calculated based on influent 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 month of March 2004.
- The treated groundwater effluent results for metals were all in compliance with the Effluent Limitations. TSS was in compliance while TDS returned above the compliance concentration of 850 mg/L with an actual concentration of 1100 mg/L during the month of March 2004. E&E believes the elevated levels of TDS stem from the high metals concentrations in the groundwater, which are not currently being removed by the treatment system.

#### **Analytical Summary - Air**

- E&E and OME personnel sampled the air stripper exhaust before and after the granular activated carbon (GAC) vessels on March 2, 2004. Air samples were collected using pre-evacuated SUMMA canisters calibrated to continuously collect a one-hour sample.
- The following VOCs were detected in the influent air samples: Tetrachloroethene (727 ppbv), trichloroethene (25.8 ppbv), cis-1,2-Dichloroethylene (2.66 ppbv) and Trichlorofluoromethane (5.62 ppbv), whereas Tetrachloroethene (6.35 ppbv), cis-1,2-Dichloroethylene (1.63 ppbv) and Trichlorofluoromethane (0.558 ppbv) were the only VOCs detected in the effluent air samples. The concentration of trichloroethene in the effluent air sample was analyzed to be <5.00 ppbv. Dichlorodifluoromethane, Methylene Chloride, Chloromethane, 1,2,4-Trimethylbenzene and trans-1,2-Dichloroethene all display effluent concentrations in excess of their respective influent concentrations. E&E believes this dynamic is a result of the GAC process' effective breakdown of certain VOC air constituents into other VOC air constituents. The resulting negative values for these constituents in the Total Destroyed columns shown in Table 5 were treated as values equal to zero, in order to arrive at reportable quantities in these respective categories. The results stated above and in Table 5 indicate approximately 98.9% VOC adsorption in the GAC vessels. Assuming that the blowers are only operational 50% of the total reporting period time, this efficiency calculates to approximately 24.28 lbs of VOCs removed during the March 2004 reporting period. All other VOCs were below the detection limit.

Mr. David Chiusano, Project Manager

April 9, 2004

Page 5

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

Very Truly Yours,

A handwritten signature in black ink that reads "Michael G. Steffan". The signature is written in a cursive style with a large, prominent initial "M".

Michael G. Steffan

Project Manager

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

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

<b>Month</b>	<b>Actual Period</b>	<b>Gallons</b>
September 2002 <sup>1</sup>	9/5/02 - 10/2/02	4,362,477
October 2002 <sup>1</sup>	10/2/02 - 11/4/02	4,290,429
November 2002 <sup>1</sup>	11/4/02 - 12/2/02	3,326,126
December 2002 <sup>1</sup>	12/2/02 - 1/7/03	3,349,029
January 2003 <sup>1</sup>	1/7/03 - 2/3/03	1,973,144
February 2003 <sup>1</sup>	2/3/03 - 3/10/03	2,158,771
March 2003 <sup>1</sup>	3/10/03 - 4/7/03	3,263,897
April 2003 <sup>1</sup>	4/7/03 - 5/2/03	2,574,928
May 2003 <sup>1</sup>	5/2/03 - 6/2/03	1,652,538
June 2003 <sup>1</sup>	6/2/03 - 6/30/03	2,002,990
July 2003 <sup>1</sup>	6/30/03 - 7/29/03	2,543,978
August 2003 <sup>1</sup>	7/29/03 - 8/25/03	2,042,424
September 2003 <sup>1</sup>	8/25/03 - 10/22/03	370,446
October 2003 <sup>2</sup>	10/22/03 - 10/29/03	67,424
November 2003 <sup>2,3</sup>	10/29/03 - 11/25/03	224,278
December 2003 <sup>2,3</sup>	11/25/03 - 12/29/03	1,496,271
January 2004 <sup>2,3</sup>	12/29/03 - 01/26/04	688,034
February 2004 <sup>2,3</sup>	01/26/04 - 02/24/04	736,288
March 2004 <sup>2,3</sup>	02/24/04 - 03/29/04	2,164,569
<b>TOTAL GALLONS</b>		<b>39,288,041</b>

**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 March 2004.

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

<b>Parameter</b>	<b>Daily Maximum<sup>1</sup></b>	<b>Units</b>	<b>March 2004 Value<sup>2</sup></b>
Flow	216,000	gpd	63,664
pH	6.0 - 9.0	standard units	8.29 <sup>4</sup>
1,1 Dichloroethene	10	ug/L	<10.0
1,2 Dichloroethene	10	ug/L	<10.0
Trichloroethene	10	ug/L	<10.0
Tetrachloroethene	10	ug/L	4.96
Vinyl Chloride	10	ug/L	<10.0
Benzene	5	ug/L	<10.0
Ethyl Benzene	5	ug/L	<10.0
Methylene Chloride	10	ug/L	<10.0
1,1,1 Trichloroethane	10	ug/L	<10.0
Toluene	5	ug/L	<10.0
o-Xylene	5	ug/L	<10.0 <sup>3</sup>
m & p-Xylene	10	ug/L	<10.0 <sup>3</sup>
Iron, total	600	ug/L	452
Aluminum	4,000	ug/L	<200
Copper	48	ug/L	<25.0
Lead	11	ug/L	<3.00
Manganese	2,000	ug/L	258
Silver	100	ug/L	<10.0
Vanadium	28	ug/L	<50.0
Zinc	230	ug/L	<20.0
Total Dissolved Solids	850	mg/L	1100
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. March values based on monthly samples collected 03/02/04.
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 03/02/04.

Above Daily Maximum Requirement -  
Attachment E, Contract Addendum #1

**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 <sup>6</sup>	9/5/02 - 10/2/02	1297	1	47.2
October 2002 <sup>6</sup>	10/2/02 - 11/4/02	2000	1	71.6
November 2002 <sup>6</sup>	11/4/02 - 12/2/02	1685	0	46.8
December 2002 <sup>6</sup>	12/2/02 - 1/7/03	1586	9	44.1
January 2003 <sup>6</sup>	1/7/03 - 2/3/03	1803	10	29.5
February 2003 <sup>6</sup>	2/3/03 - 3/10/03	1985	3	35.7
March 2003 <sup>6</sup>	3/10/03 - 4/7/03	1990	5	54.1
April 2003 <sup>6</sup>	4/7/03 - 5/2/03	1656	3	35.5
May 2003 <sup>6</sup>	5/2/03 - 6/2/03	1623	7	22.3
June 2003 <sup>6</sup>	6/2/03 - 6/30/03	5787	6	96.6
July 2003 <sup>6</sup>	6/30/03 - 7/29/03	1356	1	28.8
August 2003 <sup>6</sup>	7/29/03 - 8/25/03	1263	3	21.5
September 2003 <sup>6</sup>	8/25/03 - 10/22/03	1263	3	3.9
October 2003 <sup>7</sup>	10/22/03 - 10/29/03	1693.69	1.47	1.0
November 2003 <sup>7</sup>	10/29/03 - 11/25/03	2510.83	4.4	4.7
December 2003 <sup>7</sup>	11/25/03 - 12/29/03	503.3	10.5	6.2
January 2004 <sup>7</sup>	12/29/03 - 01/26/04	3667	15.8	21.0
February 2004 <sup>7</sup>	01/26/04 - 02/24/04	3348.6	26.7	20.4
March 2004 <sup>7</sup>	02/24/04 - 03/29/04	1939.3	4.96	34.9
Total pounds of VOCs removed from inception =				625.5

**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:

$$\text{concentration (ug/L)} * (1\text{g}/10^6 \text{ug}) * (1 \text{ lb}/453.5924 \text{ g}) * \text{monthly volume (gallons)} * (3.785 \text{ L/gallon}) - \text{lbs}$$

where, 1939.3 ug/L is the summation of VOC's detected on the influent groundwater and 2,164,569 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**  
**March 2004**

Compound	Molecular Weight (g/mol)	Intake Concentration (Pre-GAC) (ppbv)	Exhaust Concentration (Post-GAC) (ppbv)	Treatment Efficiency (%)	Total Destroyed (ppbv)	Total Destroyed (ppmv)	Total Destroyed (ug/m <sup>3</sup> )	Total Destroyed (ug)	Total Destroyed (mg)	Total Destroyed (lbs)
1,1-Dichloroethane	98.97	<25.0	<5.00	NA	0.0	0	0.00	0	0.00	0.00
Benzene	78.11	<25.0	<5.00	NA	0.0	0	0.00	0	0.00	0.00
Carbon tetrachloride	153.82	<25.0	<5.00	NA	0.0	0	0.00	0	0.00	0.00
cis-1,2-Dichloroethylene	96.94	2.66	1.63	39%	1.0	0.00103	4.15	8889104.9	8889.10	0.02
Dichlorodifluoromethane	120.91	<25.0	0.638	NA	0.0	0	0.00	0	0.00	0.00
Tetrachloroethene	165.83	727	6.35	99%	720.7	0.72065	4966.86	1.064E+10	10639109.65	23.46
Toluene	92.13	<25.0	<5.00	NA	0.0	0	0.00	0	0.00	0.00
Trichloroethylene	131.4	25.8	<5.00	100%	25.8	0.0258	140.90	301809471	301809.47	0.67
Vinyl Chloride	62.5	<25.0	<5.00	NA	0.0	0	0.00	0	0.00	0.00
Methylene Chloride	84.93	<25.0	0.699	NA	0.0	0	0.00	0	0.00	0.00
Chloromethane	50.49	<25.0	0.716	NA	0.0	0	0.00	0	0.00	0.00
Chloroethane	65.51	<25.0	<5.00	NA	0.0	0	0.00	0	0.00	0.00
Trichlorofluoromethane	137.38	5.62	0.558	90%	5.062	0.005062	26.90	61910377	61910.38	0.14
1,1-Dichloroethylene	96.94	<25.0	<5.00	NA	0.0	0	0.00	0	0.00	0.00
Chloroform	119.38	<25.0	<5.00	NA	0.0	0	0.00	0	0.00	0.00
1,1,1-Trichloroethane	133.41	<25.0	<5.00	NA	0.0	0	0.00	0	0.00	0.00
Xylene (total)	318.50	<75.0	<15.0	NA	0.0	0	0.00	0	0.00	0.00
1,2,4-Trimethylbenzene	120.19	<25.0	0.588	NA	0.0	0	0.00	0	0.00	0.00
Ethylbenzene	106.17	<25.0	<5.00	NA	0.0	0	0.00	0	0.00	0.00
1,3,5-Trimethylbenzene	120.19	<25.0	<5.00	NA	0.0	0	0.00	0	0.00	0.00
trans-1,2-Dichloroethene	96.94	<25.0	0.990	NA	0.0	0	0.00	0	0.00	0.00
<b>TOTAL =</b>										<b>24.28</b>

Flowrate = 3089.715 scfm = 87.50072822 m<sup>3</sup>/min = 5250.0437 m<sup>3</sup>/hour  
 Monthly hours of operation = 408 hours (arbitrary value used for comparison purposes)<sup>(6)</sup>  
 Pressure = 1 atm = 101300 Pa = 1013 millibars  
 Assumed stack temp = 68 F = 20 C = 293 K  
 Gas Constant, R = 0.08314 mb<sup>3</sup>/m<sup>3</sup>\*K\*mol

**Notes**

- "J" values are included in above calculations
- "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.
- Less than values (<) list the practical quantitation limit and indicate that the compound was not detected.
- Above calculations assume that non-detect values (<) = 0 ug/m<sup>3</sup>
- All other compounds were non-detect
- 500 SCFM is the assumed average influent flowrate, based on weekly manometer readings
- NA = Not Applicable
- Revised calculation based on the following equation:
- Assuming that blowers are only operating 50% of the total monthly reporting period time.

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

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

**Attachment A**  
**Weekly Inspection Reports**

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

Date/Time 3/2/04 1:25

Inspection personnel RC Becken

Other personnel on site Andy Murphy

Weather Conditions overcast 45 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	<u>12</u>	ft
PW-2	(ON)	OFF	<u>3</u>	ft
PW-3	(ON)	OFF	<u>5</u>	ft
PW-4	(ON)	OFF	<u>7</u>	ft
PW-5	(ON)	OFF	<u>3</u>	ft
PW-6	(ON)	OFF	<u>8</u>	ft
PW-7	(ON)	OFF	<u>5</u>	ft
PW-8	(ON)	OFF	<u>6</u>	ft
Equalization tank			<u>4</u>	ft

Influent Flow Rate 95.22 gpm

Influent Totalizer Reading 136134.5 gallons

Sequestering agent drum level 2" ft-in

Amount of sequestering agent remaining ~85 gallons

Sequestering agent feed rate 0 gpm

Sequestering agent metering Pump Pressure 0 psi

Bag filter top pressure 0//0 psi

Bag filter bottom pressure 5//0 psi

Mr.C inspection

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

Influent feed pump in use (#1) #2  
Influent Pump Pressure \_\_\_\_\_ 6 psi  
Air stripper blower in use #1 (#2)  
Air stripper differential pressure \_\_\_\_\_ 17 inches H<sub>2</sub>O

Air stripper vacuum \_\_\_\_\_ 19 inches H<sub>2</sub>O

Effluent feed pump in use (#1) #2  
Effluent feed pump pressure \_\_\_\_\_ 30 psi  
Effluent flow rate \_\_\_\_\_ 112 gpm

Effluent Totalizer reading \_\_\_\_\_ 55747 gallons 544786

Are building heaters in use? YES (NO)

Ambient air temperature \_\_\_\_\_ 58 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			7.78	0	53.9
Air stripper effluent			8.29	3.55	53.4
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 inspection

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

Other observations:

Influent flow at appr. 43 gpm prior to changing filters.

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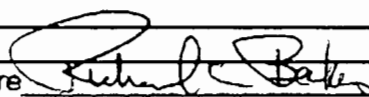
Describe any other system maintenance performed

Changed filters had to replace with 10 micron filters both units, that was all we had on site, flow increased to 110 gpm after change, but flow was decreasing rapidly.

Purchased 10-100 micron filters and 10- 50 micron filters from Fluid Conditioning Equipment in East Aurora and changed filters again prior to leaving the site.

Flow went from 44.1gpm to 95.22 gpm after the second filter change.

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Signature 

Mr.C inspection

Mr. C's Dry Cleaners Site  
NYSDEC Site #9-15-167  
Piezometer Water Level Log

Date 3/2/04

Measurements taken by RC Becken

RW-1	<u>12.75</u> ft	Comments _____
PZ-1A	<u>11.04</u> ft	Comments _____
PZ-1B	<u>10.5</u> ft	Comments _____
PZ-1C	<u>10.97</u> ft	Comments _____
PZ-1D	<u>11.96</u> ft	Comments _____
PW-2	<u>25.62</u> ft	Comments _____
PZ-2A	<u>10.51</u> ft	Comments _____
PZ-2B	<u>10.86</u> ft	Comments _____
PZ-2C	<u>9.9</u> ft	Comments _____
PZ-2D	<u>10.08</u> ft	Comments _____
PW-3	<u>20.04</u> ft	Comments _____
PZ-3A	<u>10.78</u> ft	Comments _____
PZ-3B	<u>10.99</u> ft	Comments _____
PZ-3C	<u>11.49</u> ft	Comments _____
PZ-3D	<u>11.02</u> ft	Comments _____
PW-4	<u>20.56</u> ft	Comments _____
PZ-4A	<u>11.47</u> ft	Comments _____
PZ-4B	<u>10.85</u> ft	Comments _____
PZ-4C	<u>11.22</u> ft	Comments _____
PZ-4D	<u>10.3</u> 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 #8-15-157  
 Piezometer Water Level Log**

Date 3/2/04

Measurements taken by RC Becken

PW-5	_____ ft	Comments _____
PZ-5A	_____ ft	Comments _____
PZ-5B	_____ ft	Comments _____
PZ-5C	<u>9.96</u> ft	Comments _____
PZ-5D	_____ ft	Comments _____
<hr/>		
PW-6	<u>19.91</u> ft	Comments _____
PZ-6A	_____ ft	Comments _____
PZ-6B	<u>11.35</u> ft	Comments _____
PZ-6C	_____ ft	Comments _____
PZ-6D	<u>11.46</u> ft	Comments _____
<hr/>		
PW-7	<u>17.45</u> ft	Comments _____
PZ-7A	<u>11.48</u> ft	Comments _____
PZ-7B	<u>11.76</u> ft	Comments _____
PZ-7C	<u>11.3</u> ft	Comments _____
PZ-7D	<u>11.27</u> ft	Comments _____
<hr/>		
PW-8	<u>20.75</u> ft	Comments _____
PZ-8A	<u>8.19</u> ft	Comments _____
PZ-8B	<u>8.09</u> ft	Comments _____
PZ-8C	<u>7.63</u> ft	Comments _____
PZ-8D	<u>7.95</u> 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 3/8/04 9:20

Inspection personnel Richard C. Becken

Other personnel on site \_\_\_\_\_

Weather Conditions light snow 33 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	<u>11</u>	ft
PW-2	(ON)	OFF	<u>6</u>	ft
PW-3	(ON)	OFF	<u>4</u>	ft
PW-4	(ON)	OFF	<u>5</u>	ft
PW-5	(ON)	OFF	<u>7</u>	ft
PW-6	(ON)	OFF	<u>3</u>	ft
PW-7	(ON)	OFF	<u>8</u>	ft
PW-8	(ON)	OFF	<u>7</u>	ft
Equalization tank			<u>3</u>	ft

Influent Flow Rate 27.5 gpm

Influent Totalizer Reading 539327 gallons

Sequestering agent drum level 2" ft-in

Amount of sequestering agent remaining 85 gallons

Sequestering agent feed rate 0 gpm

Sequestering agent metering Pump Pressure 0 psi

Bag filter top pressure 30 15 psi

Bag filter bottom pressure 15 0 psi

Mr.C inspection



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

Influent feed pump in use #1 #2

Influent Pump Pressure \_\_\_\_\_ psi

Air stripper blower in use #1 (#2)

Air stripper differential pressure \_\_\_\_\_ 15 inches H<sub>2</sub>O

Air stripper vacuum \_\_\_\_\_ 16.5 inches H<sub>2</sub>O

Effluent feed pump in use #1 (#2)

Effluent feed pump pressure \_\_\_\_\_ 20 psi

Effluent flow rate \_\_\_\_\_ 108.7 gpm

Effluent Totalizer reading \_\_\_\_\_ 794914 gallons 781921

Are building heaters in use? (YES) NO

Ambient air temperature \_\_\_\_\_ 58 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 inspection

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

Other observations:

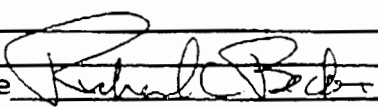
Effluent Flowmeter barely readable, ordered two new batteries from Radio Shack  
I should have them by next Monday.

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Describe any other system maintenance performed

Changed filters 100 micron and 50 micron in series. Prior to changing filters influent  
flow rate was 27.3 gpm all pumps operating, after changing the flow increased to  
114.6 gpm.

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Signature 

Mr.C inspection

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

RECEIVED  
BY M65 DATE 3/23/04

Date/Time 3/15/04 9:20

Inspection personnel Richard C. Becken

Other personnel on site \_\_\_\_\_

Weather Conditions sunning 37 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	<u>11</u>	ft
PW-2	(ON)	OFF	<u>5</u>	ft
PW-3	(ON)	OFF	<u>7</u>	ft
PW-4	(ON)	OFF	<u>8</u>	ft
PW-5	(ON)	OFF	<u>5</u>	ft
PW-6	(ON)	OFF	<u>6</u>	ft
PW-7	(ON)	OFF	<u>7</u>	ft
PW-8	(ON)	OFF	<u>7</u>	ft
Equalization tank			<u>4</u>	ft

Influent Flow Rate 30.53 gpm

Influent Totalizer Reading 1046355 gallons

Sequestering agent drum level 2" ft-in

Amount of sequestering agent remaining ~85 gallons

Sequestering agent feed rate 0 gpm

Sequestering agent metering Pump Pressure 0 psi

Bag filter top pressure 22/20 psi

Bag filter bottom pressure 16/0 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      \_\_\_\_\_ 6 psi

Air stripper blower in use      (#1)      #2

Air stripper differential pressure \_\_\_\_\_ 16 inches H<sub>2</sub>O

Air stripper vacuum \_\_\_\_\_ 16 inches H<sub>2</sub>O

Effluent feed pump in use      #1      (#2)

Effluent feed pump pressure \_\_\_\_\_ 22 psi

Effluent flow rate      \_\_\_\_\_ 113.6 gpm

Effluent Totalizer reading      \_\_\_\_\_ 892772 gallons

Are building heaters in use?      (YES)      NO

Ambient air temperature      \_\_\_\_\_ 70 degrees F

Are any leaks present?      YES      (NO)

Is sump pump in use?      YES      (NO)

Water level in sump \_\_\_\_\_ 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: \_\_\_\_\_

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Describe any other system maintenance performed

Changed filters, changed batteries in effluent flowmeter meter automatically reset to 0 on totalizer.

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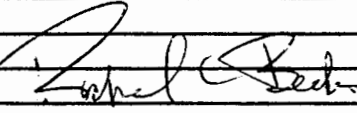
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Signature 

RECEIVED  
BY MGS DATE 3/23/04

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

Date/Time 3/21/04 9:15

Inspection personnel RC Becken CD Becken

Other personnel on site \_\_\_\_\_

Weather Conditions Overcast 30 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	<u>11</u> ft
PW-2	(ON)	OFF	<u>5</u> ft
PW-3	(ON)	OFF	<u>7</u> ft
PW-4	(ON)	OFF	<u>7</u> ft
PW-5	(ON)	OFF	<u>10</u> ft
PW-6	(ON)	OFF	<u>7</u> ft
PW-7	(ON)	OFF	<u>8</u> ft
PW-8	(ON)	OFF	<u>8</u> ft
Equalization tank			<u>4</u> ft

Influent Flow Rate 50.12 gpm

Influent Totalizer Reading 1499693 gallons

Sequestering agent drum level 2" ft-in

Amount of sequestering agent remaining ~85 gallons

Sequestering agent feed rate 0 gpm

Sequestering agent metering Pump Pressure 0 psi

Bag filter top pressure 14 10 psi

Bag filter bottom pressure 4 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      \_\_\_\_\_ 6 psi

Air stripper blower in use      (#1)      #2

Air stripper differential pressure      \_\_\_\_\_ 16 inches H<sub>2</sub>O

Air stripper vacuum      \_\_\_\_\_ 17 inches H<sub>2</sub>O

Effluent feed pump in use      #1      (#2)

Effluent feed pump pressure      \_\_\_\_\_ 20 psi

Effluent flow rate      \_\_\_\_\_ 114 gpm

Effluent Totalizer reading      \_\_\_\_\_ 2788808 gallons

Are building heaters in use?      (YES)      NO

Ambient air temperature      \_\_\_\_\_ 70 degrees F

Are any leaks present?      YES      (NO)

Is sump pump in use?      YES      (NO)

Water level in sump      \_\_\_\_\_

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:

Building temperature to warm at 70 degrees, turned termasate down slightly to 58 degrees.

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Describe any other system maintenance performed

Changed filters 100 microns and 50 microns.

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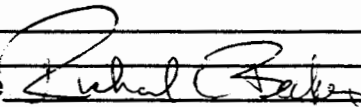
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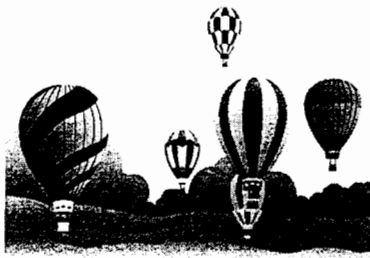
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Signature 





# Mr. C's Dry Cleaners Site Remediation

NYSDEC Project # 9-15-157, Contract # D004180

Mr. C's Dry Cleaner Treatment Facility  
586 Main Street, East Aurora, New York 14052  
Treatment Building Autodialer Status #: 716-652-0094

Mr. C's Remediation Project  
East Aurora, New York

Ecology and Environment Engineering, P.C.  
368 Pleasant View Drive, Lancaster, New York 14086  
Buffalo Office: 716-684-8060 Buffalo Office Fax: 716-684-0844

## Telecopier Transmission Form

Date: March 5, 2004

Time:

Job Code: 000699.NY06.05

Total Pages (including cover sheet): 7

To: Mr. David Chiusano

Company: New York State Department of Environmental Conservation  
Bureau of Construction Services, Division of Environmental Remediation

Telecopier Phone: 518-402-9819

From: Michael Steffan *M.S*

cc:

### Special Instructions:

Dave,

Copy of the service reports for O&M services from the Mr. C's project from 3/15/04 and 3/21/04 for your information.

Mike Steffan

Mike Steffan - March 26, 2004 (11:48am)

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

Date/Time 3/29/04 8:00

Inspection personnel Chad D. Becken

Other personnel on site Jim Mays

Weather Conditions sunny 50 degree

Are all well pumps operating in auto? YES (NO)

If "NO", provide explanation

PW-2 and PW-3 turned off by E&E personnel

Provide water level readings on control panel

RW-1	(ON)	OFF	<u>11</u>	ft
PW-2	ON	(OFF)	<u>20</u>	ft
PW-3	ON	(OFF)	<u>16</u>	ft
PW-4	(ON)	OFF	<u>5</u>	ft
PW-5	(ON)	OFF	<u>10</u>	ft
PW-6	(ON)	OFF	<u>4</u>	ft
PW-7	(ON)	OFF	<u>8</u>	ft
PW-8	(ON)	OFF	<u>9</u>	ft
Equalization tank			<u>4</u>	ft

Influent Flow Rate 74 gpm

Influent Totalizer Reading 1912600 gallons

Sequestering agent drum level 2" ft-in

Amount of sequestering agent remaining ~85 gallons

Sequestering agent feed rate 0 gpm

Sequestering agent metering Pump Pressure 0 psi

Bag filter top pressure 4 \ 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      \_\_\_\_\_ 8 psi

Air stripper blower in use      (#1)      #2

Air stripper differential pressure \_\_\_\_\_ 15 inches H<sub>2</sub>O

Air stripper vacuum \_\_\_\_\_ 16 inches H<sub>2</sub>O

Effluent feed pump in use      #1      (#2)

Effluent feed pump pressure \_\_\_\_\_ 4 psi

Effluent flow rate      \_\_\_\_\_ 111.7 gpm

Effluent Totalizer reading      \_\_\_\_\_ 533104 gallons

Are building heaters in use?      (YES)      NO

Ambient air temperature      \_\_\_\_\_ 60 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: \_\_\_\_\_

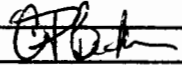
E&E personnel turned off PW-2 and PW-3

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Describe any other system maintenance performed

Turned off system and checked the air stripper for possible settlement of silt  
none found, in my opinion cleaning is not warranted. Changed filters.

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Signature 

COC ID: \_\_\_\_\_ Cooler No: **ASC** Lab: \_\_\_\_\_ Page: 1 of 1

PROJECT NO: 000619NY0605  
 CLIENT: NYSDEC  
 SITE NAME: MR. C'S DRY CLEANERS  
 LOCATION: (Include State) EAST AURORA, NY

PROJECT MANAGER: MIKE STEFFAN OFFICE No.: X2528  
 FIELD TEAM LEADER: JAMES MAYS PHONE No.: X2626  
 SAMPLERS:(PRINT) RICK-BECKEN JAMES MAYS

DATE	TIME	SAMPLE ID	MATRIX CODE	CHECK FOR MS/MSD	NO. OF CONTAINERS	SAMPLE CODES	LOGS (T-14)	METALS	GYANIDE	TSS, TDS, HARDNESS	LOGS VOLS	CONTAINER TYPE AND PRESERVATIVE	TURNAROUND TIME:	REMARKS
4/06/04	0936	AS INFLUENT	A	6	0		X	X	X	X		Summa Canister	24-HOUR <input type="checkbox"/> R 48-HOUR <input type="checkbox"/> U 1-WEEK <input type="checkbox"/> S STANDARD <input type="checkbox"/> H OTHER <input checked="" type="checkbox"/>	
4/06/04	0940	AS EFFLUENT	A	6	0		X	X	X	X		1 Poly 1 NAOH 1 Poly 1 Poly Vols		
4/06/04	1021	GAC INFLUENT	GW	1	0	X								START 0921 STOP 1021
4/06/04	1022	GAC EFFLUENT	GW	1	0	X								START 0922 STOP 1022

TEMPERATURE BLANK INFO. Enclosed:  Yes  No Date/Time: 4/1/04 1335

Received By: (Signature) [Signature] Date/Time: 4/16/04 1335

Relinquished By: (Signature) [Signature] Date/Time: \_\_\_\_\_

Relinquished By: (Signature) [Signature] Date/Time: \_\_\_\_\_

Relinquished By: (Signature) [Signature] Date/Time: \_\_\_\_\_

LAB PROJECT NO.: \_\_\_\_\_ LAB PROJECT MANAGER: \_\_\_\_\_

(FOR LAB USE ONLY) Date: \_\_\_\_\_ Time: \_\_\_\_\_ Temperature: \_\_\_\_\_ C Work Order No: \_\_\_\_\_

**Attachment B**  
**E&E ASC Analytical Data Package**



## 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



March 23, 2004

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

RE: Mr. C's Dry Cleaners  
CostPoint ID: **000699.NY06.04.**

Work Order No.: **0403012**

Dear Mr. Mike Steffan,

Analytical Services Center received 4 samples on Tuesday, March 02, 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,

Barbara Krajewski

Project Manager

CC:

Enclosures as note

## Analytical Services Center

International Specialists in Environmental Ana

Lancaster, New York 14086

Phone: (716) 685-8080

## Laboratory Results

NYS ELAP ID#: 10486

Client: E AND E BUFFALO

Project: Mr. C's Dry Cleaners

Lab Order: 0403012

### CASE NARRATIVE

#### GCMS VOLATILES

A DB624 column from J&W that is 30-m long, 0.2 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, approximately 8 cm of Tenax, approximately 8 cm of silica gel, and approximately 8 cm of activated charcoal.

#### Sample analysis

Samples were analyzed within hold time.

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

The level of tetrachlorethene detected in the initial analysis of sample AS INFLUENT exceeded the instrument's calibrated range. The sample was reanalyzed at a 20-fold dilution. Results reported for this sample are from the analysis within calibrated range.

Dilution factors applied to the air samples indicated that reduced volume was used for analysis. Results for the initial analysis of sample GAC INFLUENT and reanalysis of this sample using less volume are reported for all target compounds. This sample was analyzed as the laboratory duplicate and the information is needed for RPD calculation.

#### Calibration and Tunes

Initial and continuing calibrations are acceptable.

#### QC

Surrogate recoveries are within acceptable limits.

Method blank analyses are acceptable. Trichlorofluoromethane was detected in the method TO-14A blank at 0.354 ppbv.

Air sample duplicate results 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



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**Client:** E AND E BUFFALO  
**Project:** Mr. C's Dry Cleaners  
**Lab Order:** 0403012

---

## CASE NARRATIVE

quantitation. A low concentration standard (PQL) is analyzed at the reporting level.  
The initial and continuing calibrations are acceptable.

### QC

The calibration and preparation blank analyses are acceptable.  
The matrix spike (MS) recoveries are within the control limits.  
Duplicate RPD values are within the control limits.  
The laboratory control sample (LCS) recoveries are within the control limits.

### MERCURY

#### Sample Analysis

The samples were digested and analyzed within hold time.

#### Calibrations

The initial and continuing calibrations are acceptable.

### QC

The calibration and preparation blank analyses are acceptable.  
The matrix spike (MS) recovery is within the control limits.  
The duplicate RPD value is within the control limits.  
The laboratory control sample (LCS) recovery is within the control limits.

### GENERAL ANALYTICAL CHEMISTRY

#### Sample Analysis

The samples were analyzed for Total Dissolved Solids within the seven day technical hold time but two days after the NYSDEC ASP hold time expired. This discrepancy has no impact on data quality.  
All samples were analyzed within hold time.

#### Calibrations

Initial and continuing calibration standards are acceptable.

### QC

Calibration and method blank analyses are acceptable.  
RPD values are high for the TDS and TSS duplicate analysis.  
Laboratory control sample (LCS) recoveries are acceptable.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically

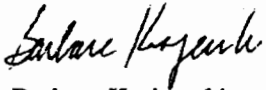
---

**Client:** E AND E BUFFALO  
**Project:** Mr. C's Dry Cleaners  
**Lab Order:** 0403012

**CASE NARRATIVE**

---

and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.



Barbara Krajewski  
Project Manager  
March 23, 2004

# CHAIN OF CUSTODY RECORD



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

COC ID:  
 Cooler No:  
 Lab:

Page: / of /

PROJECT NO: 000699NY0605		LOCATION: (Include State) EAST AURORA, NY	
CLIENT: NYS DEC		CONTAINER TYPE AND PRESERVATIVE SUMK CANISTER 1L POLY HANDS 1L POLY ALADH 1L POLY VIALS	
SITE NAME: MR. C'S DRY CLEANERS		REQUESTED ANALYSIS	
PROJECT MANAGER: MIKE STEFFAN		OVAL/NU READINGS (PPM)	
FIELD TEAM LEADER: ANDY MURPHY		BEGINNING DEPTH (FEET BGS)	
PHONE No.: X2425		ENDING DEPTH (FEET BGS)	
SAMPLERS:(PRINT) PICKRECKEN & ANDY MURPHY		REMARKS	
DATE	TIME	SAMPLE ID	MATRIX CODE
3/2/04	10:16	AS INFLUENT	A
3/2/04	10:25	AS EFFLUENT	A
3/2/04	10:53	GAC INFLUENT	GW
3/2/04	10:53	GAC EFFLUENT	GW

LAB PROJECT NO.:	LAB PROJECT MANAGER:
TEMPERATURE BLANK INFO.	(FOR LAB USE ONLY)
Date/Time: 03/02/04 11:55	Date: _____ Time: _____
Enclosed: Yes No	Temperature: _____ C
Date/Time: _____	Work Order No: _____
Ship Via: _____	
Received By: (Signature) <i>Robert Steffan</i>	BLA/Airbill Number: _____
Received By: (Signature)	
Received By: (Signature)	



# Cooler Receipt Form

PACKAGE RECEIPT #: 12871 NUMBER OF COOLERS: 2 canisters / 1 cooler DATE RECEIVED: 03/02/04  
 CLIENT: NYSDEC/M.C.S PROJECT OR SITE NAME: \_\_\_\_\_

## A. Preliminary Examination Phase

CIRCLE ONE  
 YES  NO  NA

1. Did coolers come with airbill or packing slip? \_\_\_\_\_

Enter carrier here and print airbill # below: (Circle One) FedEx Airborne  Client Other \_\_\_\_\_

Ship as high hazard or dangerous goods YES NO NA

2. Did cooler(s) have custody seals? YES  NO  NA

3. Were custody seals unbroken and intact on receipt? YES NO  NA

4. Were custody seals dated and signed? YES NO  NA

5. Sign here to acknowledge receipt of cooler(s): John Stack

Date cooler(s) opened: 03/02/04 C-O-C numbers \_\_\_\_\_

Cooler(s) opened by (print) Robert Brockman Signature Robert Brockman

6. Were the C-O-C forms received?  YES NO\* NA

7. Was the project identifiable from the C-O-C form?  YES NO\* NA

Please Record Temperature Blank Vial or Cooler Temperature for Each Cooler, Range (2° - 6°C)\* NJDEP must be <4°C

AIRBILL #	TEMP. °C	AIRBILL #	TEMP. °C	AIRBILL #	TEMP. °C
	2.0				

Thermometer # 160 Correction Factor 0.00 \* If No or Temperature Outside of Acceptable Range, prepare a PM Notification form.

## B. Unpacking Phase

8. Was enough packing material used in cooler(s)?  YES NO NA  
 Type of material:  Vermiculite  Bubble Wrap  Other

9. If required, was enough ice used?  YES NO NA  
 If YES, type of ice used:  Wet  Dry  Blue  Other

10. Was a temperature blank vial included inside cooler(s)? YES  NO NA  
 If YES, indicate temperature blank vial temperature in table above. If NO, indicate cooler temperature in table above.

11. Were all containers sealed in separate plastic bags? YES  NO NA

12. Did all containers arrive unbroken and in good condition?  YES NO\* NA

13. Samples stored in W Cooler before Login Phase?  YES NO  
 If yes: Signature In: Robert Brockman Date/Time: 03/02/04 1215  
 Signature Out: JA Date/Time: 3/2/04 1215

## C. Login Phase

Samples Logged in By (print): JA Henderson Signature: JA Date: 3/2/04

14. Were all container labels complete (e.g. date, time preserved)?  YES NO\* NA

15. Were all C-O-C forms filled out properly in ink and signed?  YES NO\* NA

16. Did the C-O-C form agree with containers received?  YES NO\* NA

17. Were the correct containers used for the tests requested?  YES NO\* NA

18. Were the correct preservatives listed on the sample labels?  YES NO\* NA

19. Was a sufficient sample volume sent for the tests requested?  YES NO\* NA

20. Were all volatile samples received without head space?  YES NO\* NA

\*Prepare a PM Notification form.

# Analytical Services Center

International Specialists in Environmental Ana

Lancaster, New York 14086

Phone: (716) 685-8080

# Laboratory Results

NYS ELAP ID#: 10486

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**CLIENT:** E and E Buffalo Office

**Project:** Mr. C's Dry Cleaners

**Lab Order:** 0403012

**Date Received:** 3/2/2004

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## Work Order Sample Summary

Lab Sample ID	Client Sample ID	Alt. Client Id	Collection Date
0403012-01A	AS INFLUENT		3/2/2004 10:16:00 AM
0403012-01B	AS INFLUENT		3/2/2004 10:16:00 AM
0403012-01C	AS INFLUENT		3/2/2004 10:16:00 AM
0403012-01D	AS INFLUENT		3/2/2004 10:16:00 AM
0403012-02A	AS EFFLUENT		3/2/2004 10:25:00 AM
0403012-02B	AS EFFLUENT		3/2/2004 10:25:00 AM
0403012-02C	AS EFFLUENT		3/2/2004 10:25:00 AM
0403012-02D	AS EFFLUENT		3/2/2004 10:25:00 AM
0403012-03A	GAC INFLUENT		3/2/2004 10:53:00 AM
0403012-04A	GAC EFFLUENT		3/2/2004 10:53:00 AM

# Analytical Services Center

International Specialists in Environmental Ana

Lancaster, New York 14086

Phone: (716) 685-8080

# Laboratory Results

NYS ELAP ID#: 10486

Lab Order: 0403012

Client: E and E Buffalo Office

Project: Mr. C's Dry Cleaners

## DATES SUMMARY REPORT

(LAB) Sample ID (CLIENT)	Matrix	Test Name	Collection Date	Received Date	HT (Days) / HT Expire	Analyzed* - Analysis/BatchID	Type	DF	#Analytes	Flag
0403012-02A	AS EFFLUENT	Water Volatile Organic Compounds by Method OLM04.2	3/2/2004 10:25:00 AM	3/2/2004 11:55:00 AM	7:R 3/9/2004 11:55:00 AM	3/3/2004 2:05:00 PM	SAMP	1	48	<input type="checkbox"/>
0403012-02B		Mercury Analysis by Method ILM04.1 CLP Mercury Prep for Water by ILM04.1			26:R 3/28/2004 11:55:00 AM	3/4/2004 9:47:19 AM	SAMP	1	1	<input type="checkbox"/>
		ICP Metals Analysis by Method ILM04.1			26:R 3/28/2004 11:55:00 AM	3/3/2004 8:48:59 AM	NA	NA	NA	<input type="checkbox"/>
		CLP Metals ICP Digestion of Waters by ILM04.1			180:R 3/29/2004 11:55:00 AM	3/9/2004 5:48:37 PM	SAMP	1	14	<input type="checkbox"/>
		Total Cyanide by ILM04.1			180:R 3/29/2004 11:55:00 AM	3/3/2004 8:46:16 AM	NA	NA	NA	<input type="checkbox"/>
0403012-02C		Cyanide Prep, Total for Water by ILM04.1			12:R 3/14/2004 11:55:00 AM	3/12/2004 3:09:42 PM	SAMP	1	1	<input type="checkbox"/>
		Hardness, Total by Method EPA 130.2			12:R 3/14/2004 11:55:00 AM	3/12/2004 9:34:33 AM	NA	NA	NA	<input type="checkbox"/>
		Total Dissolved Solids (TDS) by method EPA 160.1			180:R 3/29/2004 11:55:00 AM	3/22/2004	SAMP	1	1	<input type="checkbox"/>
		Total Suspended Solids, Non-filterable Residue			5:R 3/7/2004 11:55:00 AM	3/9/2004	SAMP	1	1	<input checked="" type="checkbox"/>
					5:R 3/7/2004 11:55:00 AM	3/4/2004	SAMP	1	1	<input type="checkbox"/>
(LAB) Sample ID (CLIENT)	Matrix	Test Name	Collection Date	Received Date	HT (Days) / HT Expire	Analyzed* - Analysis/BatchID	Type	DF	#Analytes	Flag
0403012-01A	AS INFLUENT	Water Volatile Organic Compounds by Method OLM04.2	3/2/2004 10:16:00 AM	3/2/2004 11:55:00 AM	7:R 3/9/2004 11:55:00 AM	3/4/2004 3:53:00 PM	SAMP	20	1	<input type="checkbox"/>
		Mercury Analysis by Method ILM04.1			7:R 3/9/2004 11:55:00 AM	3/3/2004 2:34:00 PM	SAMP	1	47	<input type="checkbox"/>
0403012-01B		CLP Mercury Prep for Water by ILM04.1			26:R 3/28/2004 11:55:00 AM	3/4/2004 9:46:03 AM	SAMP	1	1	<input type="checkbox"/>
		ICP Metals Analysis by Method ILM04.1			26:R 3/28/2004 11:55:00 AM	3/3/2004 8:48:59 AM	NA	NA	NA	<input type="checkbox"/>
		CLP Metals ICP Digestion of Waters by ILM04.1			180:R 3/29/2004 11:55:00 AM	3/9/2004 5:42:54 PM	SAMP	1	14	<input type="checkbox"/>
		Total Cyanide by ILM04.1			180:R 3/29/2004 11:55:00 AM	3/3/2004 8:46:16 AM	NA	NA	NA	<input type="checkbox"/>
0403012-01C		Cyanide Prep, Total for Water by ILM04.1			12:R 3/14/2004 11:55:00 AM	3/12/2004 3:06:48 PM	SAMP	1	1	<input type="checkbox"/>
					12:R 3/14/2004 11:55:00 AM	3/12/2004 9:34:33 AM	NA	NA	NA	<input type="checkbox"/>

HT From: C-Collection / R-Receipt(VTSR) / P-Prep / T-TCLP Prep

\* "Analyzed" reflects the analysis date and time or injection time for analytical tests. For preparation tests "Analyzed" reflects the start of the preparation except when "AFCEE criteria used"; flag indicates date and time of completion of the preparation.  
For TCLP/ISPLP Extractions and subsequent preparation tests... "Analyzed" reflects the date of TCLP/ISPLP Extraction/preparation. For Re-extracted (RE) samples: Preparation tests completed dates reflects the extraction from the original sample leachate unless an "RE" Sample exists for the extraction (tumble) test.

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 Lancaster, New York 14086  
 Phone: (716) 685-8080

**Laboratory Results**  
 NYS ELAP ID#: 10486

Lab Order: 0403012  
 Client: E and E Buffalo Office  
 Project: Mr. C's Dry Cleaners

**DATES SUMMARY REPORT**

(LAB) Sample ID (CLIENT)	Matrix	Test Name	Collection Date	Received Date	HT (Days) / HT Expire	Analyzed* - Analysis/BatchID	Type DF	#Analytes	Flag
0403012-01D	AS INFLUENT	Water Hardness, Total by Method EPA 130.2	3/2/2004 10:16:00 AM	3/2/2004 11:55:00 AM	180:RB/29/2004 11:55:00 AM	922899	SAMP 1	1	<input type="checkbox"/>
		Total Dissolved Solids (TDS) by method EPA 160.1			5:R 3/7/2004 11:55:00 AM	915043	SAMP 1	1	<input checked="" type="checkbox"/>
		Total Suspended Solids, Non-filterable Residue			5:R 3/7/2004 11:55:00 AM	912170	SAMP 1	1	<input type="checkbox"/>
(LAB) Sample ID (CLIENT)	Matrix	Test Name	Collection Date	Received Date	HT (Days) / HT Expire	Analyzed* - Analysis/BatchID	Type DF <td>#Analytes</td> <td>Flag</td>	#Analytes	Flag
0403012-04A	GAC EFFLUENT	Air Volatile Organics In Air by Method TO-14A	3/2/2004 10:53:00 AM	3/2/2004 11:55:00 AM	7:R 3/9/2004 11:55:00 AM	913899	SAMP 1	41	<input type="checkbox"/>
(LAB) Sample ID (CLIENT)	Matrix	Test Name	Collection Date	Received Date	HT (Days) / HT Expire	Analyzed* - Analysis/BatchID	Type DF <td>#Analytes <td>Flag</td> </td>	#Analytes <td>Flag</td>	Flag
0403012-03A	GAC INFLUENT	Air Volatile Organics In Air by Method TO-14A	3/2/2004 10:53:00 AM	3/2/2004 11:55:00 AM	7:R 3/9/2004 11:55:00 AM	913895	SAMP 5	41	<input type="checkbox"/>

HT From: C-Collection / R- Receipt(VTSR) / P-Prep / T-TCLP Prep

\* "Analyzed" reflects the analysis date and time or injection time for analytical tests. For preparation tests "Analyzed" reflects the start of the preparation except when "AFCEE criteria used"; flag indicates date and time of completion of the preparation.  
 For TCLP/SPLP Extractions and subsequent preparation tests... "Analyzed" reflects the date of TCLP/SPLP Extraction/preparation. For Re-extracted (RE) samples: Preparation tests completed dates reflects the extraction from the original sample leachate unless an "RE" Sample exists for the extraction (tumble) test.

**Analytical Services Center**  
International Specialists in Environme  
4493 Walden Avenue  
Lancaster, New York 14086

## Laboratory Results

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

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**Client:** E and E Buffalo Office  
**Project:** Mr. C's Dry Cleaners  
**Work Order:** 0403012

### Method References

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#### GCMS Volatiles

DEC ASP VOCs by Method OLM04.2

USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration, OLM04.0 (Revision OLM04.1)

VOCs in Air by GCMS Method TO-14A

Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition. 1997. EPA-625/R-96-010B. Compendium Methods TO-14A, 15,16,17. (NCEPI or AMTIC)

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#### Mercury

CLP Mercury Analysis by Method ILM04.1

USEPA Contract Laboratory Program Statement of Work for Inorganics Analysis, Multi-Media, Multi-Concentration, ILM04.1. 2000. Environmental Protection Agency, Office of Solid Waste and Emergency Response.

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#### Metals

CLP TAL Metals by Method ILM04.1

USEPA Contract Laboratory Program Statement of Work for Inorganics Analysis, Multi-Media, Multi-Concentration, ILM04.1. 2000. Environmental Protection Agency, Office of Solid Waste and Emergency Response.

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#### WetChemistry

Hardness, Total by Method EPA 130.2

Methods for Chemical Analysis of Water and Wastes. 1983. EPA-600/4-79-020. U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory.

Total Cyanide by SOW ILM04.1

USEPA Contract Laboratory Program Statement of Work for Inorganics Analysis, Multi-Media, Multi-Concentration, ILM04.1. 2000. Environmental Protection Agency, Office of Solid Waste and Emergency Response.

Total Dissolved Solids (TDS) by method 160.1

Methods for Chemical Analysis of Water and Wastes. 1983. EPA-600/4-79-020. U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory.

Total Suspended Solids (TSS) by method 160.2

Methods for Chemical Analysis of Water and Wastes. 1983. EPA-600/4-79-020. U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory.



# GCMS VOLATILES

# Ecology and Environment, Inc.

## Analytical Services Center

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: 0403012

Alt. Client ID:

Project: Mr. C's Dry Cleaners

Collection Date: 3/2/2004 10:16:00 AM % Moist:

Lab ID: 0403012-01A

Sample Type: SAMP

Matrix: Water

Test Code: 1\_ASP\_4.2\_VOA\_W

### VOLATILE ORGANIC COMPOUNDS BY METHOD OLM04.2

Method: OLM04.2\_VOA Prep Method:

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Dichlorodifluoromethane	ND		10.0	µg/L	1	3/3/2004 2:34:00 PM	PERRY_040303A	RMJ
Chloromethane	ND		10.0	µg/L	1			
Vinyl chloride	ND		10.0	µg/L	1			
Bromomethane	ND		10.0	µg/L	1			
Chloroethane	ND		10.0	µg/L	1			
Trichlorofluoromethane	ND		10.0	µg/L	1			
1,1-Dichloroethene	ND		10.0	µg/L	1			
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	µg/L	1			
Acetone	ND		10.0	µg/L	1			
Carbon disulfide	ND		10.0	µg/L	1			
Methyl acetate	ND		10.0	µg/L	1			
Methylene chloride	ND		10.0	µg/L	1			
trans-1,2-Dichloroethene	ND		10.0	µg/L	1			
Methyl tert-butyl ether	27.5		10.0	µg/L	1			
1,1-Dichloroethane	ND		10.0	µg/L	1			
cis-1,2-Dichloroethene	6.14	J	10.0	µg/L	1			
2-Butanone	ND		10.0	µg/L	1			
Chloroform	ND		10.0	µg/L	1			
1,1,1-Trichloroethane	ND		10.0	µg/L	1			
Cyclohexane	ND		10.0	µg/L	1			
Carbon tetrachloride	ND		10.0	µg/L	1			
Benzene	ND		10.0	µg/L	1			
1,2-Dichloroethane	ND		10.0	µg/L	1			
Trichloroethene	55.7		10.0	µg/L	1			
Methylcyclohexane	ND		10.0	µg/L	1			
1,2-Dichloropropane	ND		10.0	µg/L	1			
Bromodichloromethane	ND		10.0	µg/L	1			
cis-1,3-Dichloropropene	ND		10.0	µg/L	1			
4-Methyl-2-pentanone	ND		10.0	µg/L	1			
Toluene	ND		10.0	µg/L	1			
trans-1,3-Dichloropropene	ND		10.0	µg/L	1			
1,1,2-Trichloroethane	ND		10.0	µg/L	1			
Tetrachloroethene	1850		200	µg/L	20	3/4/2004 3:53:00 PM	PERRY_040304B	
2-Hexanone	ND		10.0	µg/L	1	3/3/2004 2:34:00 PM	PERRY_040303A	
Dibromochloromethane	ND		10.0	µg/L	1			
1,2-Dibromoethane	ND		10.0	µg/L	1			
Chlorobenzene	ND		10.0	µg/L	1			
Ethylbenzene	ND		10.0	µg/L	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 exceeds Highest Calibration Standard

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

# Ecology and Environment, Inc.

Analytical Services Center

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: 0403012

Alt. Client ID:

Project: Mr. C's Dry Cleaners

Collection Date: 3/2/2004 10:16:00 AM % Moist:

Lab ID: 0403012-01A

Sample Type: SAMP

Matrix: Water

Test Code: 1\_ASP\_4.2\_VOA\_W

VOLATILE ORGANIC COMPOUNDS BY METHOD OLM04.2

Method: OLM04.2\_VOA Prep Method:

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Xylenes, Total	ND		10.0	µg/L	1			
Styrene	ND		10.0	µg/L	1			
Bromoform	ND		10.0	µg/L	1			
Isopropylbenzene	ND		10.0	µg/L	1			
1,1,2,2-Tetrachloroethane	ND		10.0	µg/L	1			
1,3-Dichlorobenzene	ND		10.0	µg/L	1			
1,4-Dichlorobenzene	ND		10.0	µg/L	1			
1,2-Dichlorobenzene	ND		10.0	µg/L	1			
1,2-Dibromo-3-chloropropane	ND		10.0	µg/L	1			
1,2,4-Trichlorobenzene	ND		10.0	µg/L	1			
Surr:Toluene-d8	103		88 - 110	%REC	1	3/3/2004 2:34:00 PM	PERRY_040303A	RMJ
Surr:4-Bromofluorobenzene	97		86 - 115	%REC	1			
Surr:1,2-Dichloroethane-d4	103		76 - 114	%REC	1			

## Definitions:

\* - 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 matrix or extended target compounds

E - Result exceeds Highest Calibration Standard

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit

R - RPD outside recovery limits

# Ecology and Environment, Inc.

## Analytical Services Center

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: 0403012

Alt. Client ID:

Project: Mr. C's Dry Cleaners

Collection Date: 3/2/2004 10:25:00 AM % Moist:

Lab ID: 0403012-02A

Sample Type: SAMP

Matrix: Water

Test Code: 1\_ASP\_4.2\_VOA\_W

### VOLATILE ORGANIC COMPOUNDS BY METHOD OLM04.2

Method: OLM04.2\_VOA Prep Method:

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Dichlorodifluoromethane	ND		10.0	µg/L	1	3/3/2004 2:05:00 PM	PERRY_040303A	RMJ
Chloromethane	ND		10.0	µg/L	1			
Vinyl chloride	ND		10.0	µg/L	1			
Bromomethane	ND		10.0	µg/L	1			
Chloroethane	ND		10.0	µg/L	1			
Trichlorofluoromethane	ND		10.0	µg/L	1			
1,1-Dichloroethene	ND		10.0	µg/L	1			
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10.0	µg/L	1			
Acetone	ND		10.0	µg/L	1			
Carbon disulfide	ND		10.0	µg/L	1			
Methyl acetate	ND		10.0	µg/L	1			
Methylene chloride	ND		10.0	µg/L	1			
trans-1,2-Dichloroethene	ND		10.0	µg/L	1			
Methyl tert-butyl ether	ND		10.0	µg/L	1			
1,1-Dichloroethane	ND		10.0	µg/L	1			
cis-1,2-Dichloroethene	ND		10.0	µg/L	1			
2-Butanone	ND		10.0	µg/L	1			
Chloroform	ND		10.0	µg/L	1			
1,1,1-Trichloroethane	ND		10.0	µg/L	1			
Cyclohexane	ND		10.0	µg/L	1			
Carbon tetrachloride	ND		10.0	µg/L	1			
Benzene	ND		10.0	µg/L	1			
1,2-Dichloroethane	ND		10.0	µg/L	1			
Trichloroethene	ND		10.0	µg/L	1			
Methylcyclohexane	ND		10.0	µg/L	1			
1,2-Dichloropropane	ND		10.0	µg/L	1			
Bromodichloromethane	ND		10.0	µg/L	1			
cis-1,3-Dichloropropene	ND		10.0	µg/L	1			
4-Methyl-2-pentanone	ND		10.0	µg/L	1			
Toluene	ND		10.0	µg/L	1			
trans-1,3-Dichloropropene	ND		10.0	µg/L	1			
1,1,2-Trichloroethane	ND		10.0	µg/L	1			
Tetrachloroethene	4.96	J	10.0	µg/L	1			
2-Hexanone	ND		10.0	µg/L	1			
Dibromochloromethane	ND		10.0	µg/L	1			
1,2-Dibromoethane	ND		10.0	µg/L	1			
Chlorobenzene	ND		10.0	µg/L	1			
Ethylbenzene	ND		10.0	µg/L	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 exceeds Highest Calibration Standard

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

# Ecology and Environment, Inc.

Analytical Services Center

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: 0403012

Alt. Client ID:

Project: Mr. C's Dry Cleaners

Collection Date: 3/2/2004 10:25:00 AM % Moist:

Lab ID: 0403012-02A

Sample Type: SAMP

Matrix: Water

Test Code: 1\_ASP\_4.2\_VOA\_W

VOLATILE ORGANIC COMPOUNDS BY METHOD OLM04.2

Method: OLM04.2\_VOA Prep Method:

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Xylenes, Total	ND		10.0	µg/L	1			
Styrene	ND		10.0	µg/L	1			
Bromoform	ND		10.0	µg/L	1			
Isopropylbenzene	ND		10.0	µg/L	1			
1,1,2,2-Tetrachloroethane	ND		10.0	µg/L	1			
1,3-Dichlorobenzene	ND		10.0	µg/L	1			
1,4-Dichlorobenzene	ND		10.0	µg/L	1			
1,2-Dichlorobenzene	ND		10.0	µg/L	1			
1,2-Dibromo-3-chloropropane	ND		10.0	µg/L	1			
1,2,4-Trichlorobenzene	ND		10.0	µg/L	1			
Surr:Toluene-d8	101		88 - 110	%REC	1	3/3/2004 2:05:00 PM	PERRY_040303A	RMJ
Surr:4-Bromofluorobenzene	98		86 - 115	%REC	1			
Surr:1,2-Dichloroethane-d4	102		76 - 114	%REC	1			

## Definitions:

\* - 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 matrix or extended target compounds

E - Result exceeds Highest Calibration Standard

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit

R - RPD outside recovery limits

# Ecology and Environment, Inc.

Analytical Services Center  
 4493 Walden Avenue  
 Lancaster, New York 14086

# Laboratory Results

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

CLIENT: E and E Buffalo Office  
 Work Order: 0403012  
 Project: Mr. C's Dry Cleaners

## QC SUMMARY REPORT

Method Blank

### DEC ASP VOCs by Method OLM04.2

Sample ID: MB-1768-14-1 Client Sample ID: 911475  
 Run Batch ID: PERRY\_040303A Analysis Date: 3/3/2004 12:29:00 PM Prep Batch ID: 0403034p1r  
 Analyte Type / Name Test Code: 1\_ASP\_4.2\_VOA\_W Units: µg/L

Analyte Type / Name	Result	MDL	RL	Spike Value	Orig Result	%REC	LowLimit	HighLimit	RPD	RPD Limit <sup>1</sup>	Qual
A 1,1,1-Trichloroethane	ND	0	10.00								
A 1,1,1,2-Tetrachloroethane	ND	0	10.00								
A 1,1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0	10.00								
A 1,1,2-Trichloroethane	ND	0	10.00								
A 1,1-Dichloroethane	ND	0	10.00								
A 1,1-Dichloroethene	ND	0	10.00								
A 1,2,4-Trichlorobenzene	ND	0	10.00								
A 1,2-Dibromo-3-chloropropane	ND	0	10.00								
A 1,2-Dibromoethane	ND	0	10.00								
A 1,2-Dichlorobenzene	ND	0	10.00								
A 1,2-Dichloroethane	ND	0	10.00								
A 1,2-Dichloropropane	ND	0	10.00								
A 1,3-Dichlorobenzene	ND	0	10.00								
A 1,4-Dichlorobenzene	ND	0	10.00								
A 2-Butanone	ND	0	10.00								
A 2-Hexanone	ND	0	10.00								
A 4-Methyl-2-pentanone	ND	0	10.00								
A Acetone	ND	0	10.00								
A Benzene	ND	0	10.00								
A Bromodichloromethane	ND	0	10.00								
A Bromoform	ND	0	10.00								
A Bromomethane	ND	0	10.00								

#### Definitions:

- \* - Recovery outside QC limits
- DNI - Did not ignite
- M - Matrix Spike Recovery outside limits
- NP - Petroleum Pattern is not present
- B - Analyte found in Method blank
- E - Result exceeds Highest Calibration Standard
- N - Single Column Analysis
- P - Post Spike Recovery outside limits
- D - Diluted due to matrix or extended target compounds
- H - Value Exceeds Maximum Contaminant Level
- NC - Not Calculated
- R - RPD outside recovery limits
- DF - Dilution Factor
- J - Estimated value
- ND - Not Detected at the Reporting Limit
- RL - Reporting Limit

**Ecology and Environment, Inc.**  
**Analytical Services Center**

4493 Walden Avenue  
 Lancaster, New York 14086

**Laboratory Results**

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

**CLIENT:** E and E Buffalo Office  
**Work Order:** 0403012  
**Project:** Mr. C's Dry Cleaners

**QC SUMMARY REPORT**  
 Method Blank

**DEC ASP VOCs by Method OLM04.2**

Sample ID: **MB-1768-14-1** Client Sample ID:

Run Batch ID: **PERRY\_040303A** SeqNo: **911475**

Analysis Date: **3/3/2004 12:29:00 PM** Prep Batch ID: **0403034p1r**

Test Code: **1\_ASP\_4.2\_VOA\_W**

Units: **µg/L**

DF: **1** DL\_No: **1**

Prep Date:

Analyte Type / Name	Result	MDL	RL	Spike Value	Orig Result	%REC	LowLimit	HighLimit	RPD	RPD Limit <sup>1</sup>	Qual
A Carbon disulfide	ND	0	10.00								
A Carbon tetrachloride	ND	0	10.00								
A Chlorobenzene	ND	0	10.00								
A Chloroethane	ND	0	10.00								
A Chloroform	ND	0	10.00								
A Chloromethane	ND	0	10.00								
A cis-1,2-Dichloroethene	ND	0	10.00								
A cis-1,3-Dichloropropene	ND	0	10.00								
A Cyclohexane	ND	0	10.00								
A Dibromochloromethane	ND	0	10.00								
A Dichlorodifluoromethane	ND	0	10.00								
A Ethylbenzene	ND	0	10.00								
A Isopropylbenzene	ND	0	10.00								
A Methyl acetate	ND	0	10.00								
A Methyl tert-butyl ether	ND	0	10.00								
A Methylcyclohexane	ND	0	10.00								
A Methylene chloride	ND	0	10.00								
A Styrene	ND	0	10.00								
A Tetrachloroethene	ND	0	10.00								
A Toluene	ND	0	10.00								
A trans-1,2-Dichloroethene	ND	0	10.00								
A trans-1,3-Dichloropropene	ND	0	10.00								

**Definitions:**

- \* - Recovery outside QC limits
- DNI - Did not Ignite
- M - Matrix Spike Recovery outside limits
- NP - Petroleum Pattern is not present
- B - Analyte found in Method blank
- E - Result exceeds Highest Calibration Standard
- N - Single Column Analysis
- P - Post Spike Recovery outside limits
- D - Diluted due to matrix or extended target compounds
- H - Value Exceeds Maximum Contaminant Level
- NC - Not Calculated
- R - RPD outside recovery limits
- DF - Dilution Factor
- J - Estimated value
- ND - Not Detected at the Reporting Limit
- RL - Reporting Limit

Footnotes: 1 - Represents RSD Limit for Quad Analysis

**Ecology and Environment, Inc.**  
**Analytical Services Center**

4493 Walden Avenue  
 Lancaster, New York 14086

**Laboratory Results**

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

**CLIENT:** E and E Buffalo Office  
**Work Order:** 0403012  
**Project:** Mr. C's Dry Cleaners

**OC SUMMARY REPORT**  
 Method Blank

**DEC ASP VOCs by Method OLM04.2**

Sample ID: **MB-1768-14-1** Client Sample ID:  
 Run Batch ID: **PERRY\_040303A** SeqNo: **911475** Analysis Date: **3/3/2004 12:29:00 PM** Prep Batch ID: **0403034p1r**  
 Test Code: **1\_ASP\_4-2\_VOA\_W**

Analyte Type / Name	Result	MDL	RL	Spike Value	Orig Result	%REC	LowLimit	HighLimit	RPD	RPD Limit <sup>1</sup>	Qual
A Trichloroethene	ND	0	10.00								
A Trichlorofluoromethane	ND	0	10.00								
A Vinyl chloride	ND	0	10.00								
A Xylenes, Total	ND	0	10.00								
S 1,2-Dichloroethane-d4	50.88	0	0			102	76	114			
S 4-Bromofluorobenzene	48.40	0	0			97	86	115			
S Toluene-d8	50.91	0	0			102	88	110			

**Definitions:**

- \* - Recovery outside QC limits
- DNI - Did not Ignite
- M - Matrix Spike Recovery outside limits
- NP - Petroleum Pattern is not present
- 1 - Represents RSD Limit for Quad Analysis
- B - Analyte found in Method blank
- E - Result exceeds Highest Calibration Standard
- N - Single Column Analysis
- P - Post Spike Recovery outside limits
- RL - Reporting Limit
- D - Diluted due to matrix or extended target compounds
- H - Value Exceeds Maximum Contaminant Level
- NC - Not Calculated
- R - RPD outside recovery limits
- DF - Dilution Factor
- J - Estimated value
- ND - Not Detected at the Reporting Limit



**Ecology and Environment, Inc.**  
 Analytical Services Center  
 4493 Walden Avenue  
 Lancaster, New York 14086

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

**CLIENT:** E and E Buffalo Office  
**Work Order:** 0403012  
**Project:** Mr. C's Dry Cleaners

**QC SUMMARY REPORT**  
 Laboratory Control Spike

**DEC ASP VOCs by Method OLM04.2**

Sample ID: **LCS-1768-14-1** Client Sample ID:

Run Batch ID: **PERRY\_040303A**

SeqNo: **911478**

Analysis Date: **3/3/2004 12:57:00 PM**

Prep Batch ID: **0403034p1r**

Test Code: **1\_ASP\_4.2\_VOA\_W**

Units: **µg/L**

DF: **1** DL\_No: **1**

Prep Date:

Analyte Type / Name	Result	MDL	RL	Spike Value	Orig Result	%REC	LowLimit	HighLimit	RPD	RPD Limit <sup>1</sup>	Qual
A 1,1-Dichloroethene	47.45	0	10.00	50.00	0	95	61	145			
A Benzene	48.71	0	10.00	50.00	0	97	76	127			
A Chlorobenzene	50.44	0	10.00	50.00	0	101	72	130			
A Toluene	49.90	0	10.00	50.00	0	100	76	125			
A Trichloroethene	48.47	0	10.00	50.00	0	97	71	120			
S 1,2-Dichloroethane-d4	51.71	0	0	50.00	0	103	76	114			
S 4-Bromofluorobenzene	48.35	0	0	50.00	0	97	86	115			
S Toluene-d8	49.52	0	0	50.00	0	99	88	110			

**Definitions:**

- \* - Recovery outside QC limits
- DNI - Did not ignite
- M - Matrix Spike Recovery outside limits
- NP - Petroleum Pattern is not present
- B - Analyte found in Method blank
- E - Result exceeds Highest Calibration Standard
- N - Single Column Analysis
- P - Post Spike Recovery outside limits
- D - Diluted due to matrix or extended target compounds
- H - Value Exceeds Maximum Contaminant Level
- NC - Not Calculated
- R - RPD outside recovery limits
- DF - Dilution Factor
- J - Estimated value
- ND - Not Detected at the Reporting Limit

Footnotes: 1 - Represents RSD Limit for Quad Analysis RL - Reporting Limit

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Work Order: 0403012

Project: Mr. C's Dry Cleaners

Test Code: 1\_ASP\_4.2\_VOA\_W

Batch ID: PERRY\_040303A

## QC SUMMARY REPORT SURROGATE RECOVERIES

Volatile Organic Compounds by Method OLM04.2

Sample ID	Type	BR4FBZ	BZMED8	DCA12D4					
0403012-01A	SAMP	97	103	103					
0403012-02A	SAMP	98	101	102					
LCS-1768-14-1	LCS	97	99	103					
MB-1768-14-1	MBLK	97	102	102					

Acronym	Surrogate	QC Limits
BR4FBZ	= 4-Bromofluorobenzene	86-115
BZMED8	= Toluene-d8	88-110
DCA12D4	= 1,2-Dichloroethane-d4	76-114

\* Surrogate recovery outside acceptance limits

D - Diluted due to matrix or extended target compounds

# Ecology and Environment, Inc.

Analytical Services Center

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: GAC INFLUENT

Lab Order: 0403012

Alt. Client ID:

Project: Mr. C's Dry Cleaners

Collection Date: 3/2/2004 10:53:00 AM % Moist:

Lab ID: 0403012-03A

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	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
1,1,1-Trichloroethane	ND		25.0	ppbv	5	3/3/2004 11:41:00 AM	JAKE_040303A	DWW
1,1,2,2-Tetrachloroethane	ND		25.0	ppbv	5			
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	ppbv	5			
1,1,2-Trichloroethane	ND		25.0	ppbv	5			
1,1-Dichloroethane	ND		25.0	ppbv	5			
1,1-Dichloroethene	ND		25.0	ppbv	5			
1,2,4-Trichlorobenzene	ND		25.0	ppbv	5			
1,2,4-Trimethylbenzene	ND		25.0	ppbv	5			
1,2-Dibromoethane	ND		25.0	ppbv	5			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		25.0	ppbv	5			
1,2-Dichlorobenzene	ND		25.0	ppbv	5			
1,2-Dichloroethane	ND		25.0	ppbv	5			
1,2-Dichloropropane	ND		25.0	ppbv	5			
1,3,5-Trimethylbenzene	ND		25.0	ppbv	5			
1,3-Dichlorobenzene	ND		25.0	ppbv	5			
1,4-Dichlorobenzene	ND		25.0	ppbv	5			
Benzene	ND		25.0	ppbv	5			
Benzyl chloride	ND		25.0	ppbv	5			
Bromomethane	ND		25.0	ppbv	5			
Carbon tetrachloride	ND		25.0	ppbv	5			
Chlorobenzene	ND		25.0	ppbv	5			
Chloroethane	ND		25.0	ppbv	5			
Chloroform	ND		25.0	ppbv	5			
Chloromethane	ND		25.0	ppbv	5			
cis-1,2-Dichloroethene	2.66	J	25.0	ppbv	5			
cis-1,3-Dichloropropene	ND		25.0	ppbv	5			
Dichlorodifluoromethane	ND		25.0	ppbv	5			
Ethylbenzene	ND		25.0	ppbv	5			
Hexachlorobutadiene	ND		25.0	ppbv	5			
m,p-Xylene	ND		50.0	ppbv	5			
Methylene chloride	ND		25.0	ppbv	5			
o-Xylene	ND		25.0	ppbv	5			
Styrene	ND		25.0	ppbv	5			
Tetrachloroethene	638	E	25.0	ppbv	5			
Toluene	ND		25.0	ppbv	5			
trans-1,2-Dichloroethene	ND		25.0	ppbv	5			
trans-1,3-Dichloropropene	ND		25.0	ppbv	5			

**Definitions:**

\* - 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 matrix or extended target compounds

E - Result exceeds Highest Calibration Standard

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit

R - RPD outside recovery limits

# Ecology and Environment, Inc.

## Analytical Services Center

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: GAC INFLUENT

Lab Order: 0403012

Alt. Client ID:

Project: Mr. C's Dry Cleaners

Collection Date: 3/2/2004 10:53:00 AM % Moist:

Lab ID: 0403012-03A

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	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Trichloroethene	25.8		25.0	ppbv	5			
Trichlorofluoromethane	1.71	JB	25.0	ppbv	5			
Vinyl chloride	ND		25.0	ppbv	5			
Xylenes, Total	ND		75.0	ppbv	5			
Surr:1,2-Dichloroethane-d4	98		80 - 120	%REC	5	3/3/2004 11:41:00 AM	JAKE_040303A	DWW
Surr:4-Bromofluorobenzene	81		80 - 120	%REC	5			
Surr:Toluene-d8	106		80 - 120	%REC	5			

#### Definitions:

\* - 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 matrix or extended target compounds

E - Result exceeds Highest Calibration Standard

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit

R - RPD outside recovery limits

# Ecology and Environment, Inc.

## Analytical Services Center

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: GAC INFLUENT

Lab Order: 0403012

Alt. Client ID:

Project: Mr. C's Dry Cleaners

Collection Date: 3/2/2004 10:53:00 AM % Moist:

Lab ID: 0403012-03A

Sample Type: DL

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		100	ppbv	20	3/3/2004 2:18:00 PM	JAKE_040303A	DWW
1,1,2,2-Tetrachloroethane	ND		100	ppbv	20			
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	ppbv	20			
1,1,2-Trichloroethane	ND		100	ppbv	20			
1,1-Dichloroethane	ND		100	ppbv	20			
1,1-Dichloroethene	ND		100	ppbv	20			
1,2,4-Trichlorobenzene	ND		100	ppbv	20			
1,2,4-Trimethylbenzene	ND		100	ppbv	20			
1,2-Dibromoethane	ND		100	ppbv	20			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		100	ppbv	20			
1,2-Dichlorobenzene	ND		100	ppbv	20			
1,2-Dichloroethane	ND		100	ppbv	20			
1,2-Dichloropropane	ND		100	ppbv	20			
1,3,5-Trimethylbenzene	ND		100	ppbv	20			
1,3-Dichlorobenzene	ND		100	ppbv	20			
1,4-Dichlorobenzene	ND		100	ppbv	20			
Benzene	ND		100	ppbv	20			
Benzyl chloride	ND		100	ppbv	20			
Bromomethane	ND		100	ppbv	20			
Carbon tetrachloride	ND		100	ppbv	20			
Chlorobenzene	ND		100	ppbv	20			
Chloroethane	ND		100	ppbv	20			
Chloroform	ND		100	ppbv	20			
Chloromethane	ND		100	ppbv	20			
cis-1,2-Dichloroethene	ND		100	ppbv	20			
cis-1,3-Dichloropropene	ND		100	ppbv	20			
Dichlorodifluoromethane	ND		100	ppbv	20			
Ethylbenzene	ND		100	ppbv	20			
Hexachlorobutadiene	ND		100	ppbv	20			
m,p-Xylene	ND		200	ppbv	20			
Methylene chloride	ND		100	ppbv	20			
o-Xylene	ND		100	ppbv	20			
Styrene	ND		100	ppbv	20			
Tetrachloroethene	727		100	ppbv	20			
Toluene	ND		100	ppbv	20			
trans-1,2-Dichloroethene	ND		100	ppbv	20			
trans-1,3-Dichloropropene	ND		100	ppbv	20			

#### Definitions:

\* - 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

E - Estimated value

NC - Not Calculated

P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds

E - Result exceeds Highest Calibration Standard

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit

R - RPD outside recovery limits

# Ecology and Environment, Inc.

## Analytical Services Center

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: GAC INFLUENT

Lab Order: 0403012

Alt. Client ID:

Project: Mr. C's Dry Cleaners

Collection Date: 3/2/2004 10:53:00 AM % Moist:

Lab ID: 0403012-03A

Sample Type: DL

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
Trichloroethene	25.9	J	100	ppbv	20			
Trichlorofluoromethane	5.62	JB	100	ppbv	20			
Vinyl chloride	ND		100	ppbv	20			
Xylenes, Total	ND		300	ppbv	20			
Surr:1,2-Dichloroethane-d4	99		80 - 120	%REC	20	3/3/2004 2:18:00 PM	JAKE_040303A	DWW
Surr:4-Bromofluorobenzene	90		80 - 120	%REC	20			
Surr:Toluene-d8	106		80 - 120	%REC	20			

#### Definitions:

\* - 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 matrix or extended target compounds

E - Result exceeds Highest Calibration Standard

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit

R - RPD outside recovery limits

# Ecology and Environment, Inc.

## Analytical Services Center

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: GAC EFFLUENT

Lab Order: 0403012

Alt. Client ID:

Project: Mr. C's Dry Cleaners

Collection Date: 3/2/2004 10:53:00 AM % Moist:

Lab ID: 0403012-04A

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	3/3/2004 1:43:00 PM	JAKE_040303A	DWW
1,1,2,2-Tetrachloroethane	ND		5.00	ppbv	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	0.588	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			
1,2-Dichloropropane	ND		5.00	ppbv	1			
1,3,5-Trimethylbenzene	ND		5.00	ppbv	1			
1,3-Dichlorobenzene	ND		5.00	ppbv	1			
1,4-Dichlorobenzene	ND		5.00	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	0.716	J	5.00	ppbv	1			
cis-1,2-Dichloroethene	1.63	J	5.00	ppbv	1			
cis-1,3-Dichloropropene	ND		5.00	ppbv	1			
Dichlorodifluoromethane	0.638	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	0.699	J	5.00	ppbv	1			
o-Xylene	ND		5.00	ppbv	1			
Styrene	ND		5.00	ppbv	1			
Tetrachloroethene	6.35		5.00	ppbv	1			
Toluene	ND		5.00	ppbv	1			
trans-1,2-Dichloroethene	0.990	J	5.00	ppbv	1			
trans-1,3-Dichloropropene	ND		5.00	ppbv	1			

#### Definitions:

\* - Recovery outside QC limits

DF - Dilution Factor

H - Value Exceeds Maximum Contaminant Level

N - Single Column Analysis

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NC - Not Calculated

P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds

E - Result exceeds Highest Calibration Standard

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit

R - RPD outside recovery limits

# Ecology and Environment, Inc.

Analytical Services Center

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: GAC EFFLUENT

Lab Order: 0403012

Alt. Client ID:

Project: Mr. C's Dry Cleaners

Collection Date: 3/2/2004 10:53:00 AM % Moist:

Lab ID: 0403012-04A

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
Trichloroethene	ND		5.00	ppbv	1			
Trichlorofluoromethane	0.558	JB	5.00	ppbv	1			
Vinyl chloride	ND		5.00	ppbv	1			
Xylenes, Total	ND		15.0	ppbv	1			
Surr:1,2-Dichloroethane-d4	100		80 - 120	%REC	1	3/3/2004 1:43:00 PM	JAKE_040303A	DWW
Surr:4-Bromofluorobenzene	90		80 - 120	%REC	1			
Surr:Toluene-d8	106		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 exceeds Highest Calibration Standard

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



**Ecology and Environment, Inc.**  
**Analytical Services Center**

4493 Walden Avenue  
 Lancaster, New York 14086

**CLIENT:** E and E Buffalo Office  
**Work Order:** 0403012  
**Project:** Mr. C's Dry Cleaners

**Laboratory Results**  
 NYSELAP ID#: 10486  
 Phone: (716) 685-8080

**QC SUMMARY REPORT**  
**Method Blank**

**VOCs in Air by GCMS Method TO-14A**

Sample ID: **MB-1754-33-1** Client Sample ID:

Run Batch ID: **JAKE\_040303A** SeqNo: **910507**

Analysis Date: **3/3/2004 9:37:00 AM** Prep Batch ID: **040303401r**

Test Code: **1\_TO14\_A**

Units: **ppbv**

DF: **1** DL\_No: **1**

Prep Date:

RPD **RPD Limit**<sup>1</sup>

Qual

LowLimit HighLimit

%REC

Spike Value Orig Result

MDL RL

Result

Analyte Type / Name	Result	MDL	RL	Spike Value	Orig Result	%REC	LowLimit	HighLimit	RPD	RPD Limit	Qual
A 1,1,1-Trichloroethane	ND	0.4990	5.000								
A 1,1,2,2-Tetrachloroethane	ND	0.5160	5.000								
A 1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.6330	5.000								
A 1,1,2-Trichloroethane	ND	0.5830	5.000								
A 1,1-Dichloroethane	ND	0.6130	5.000								
A 1,1-Dichloroethene	ND	0.4040	5.000								
A 1,2,4-Trichlorobenzene	ND	0.2630	5.000								
A 1,2,4-Trimethylbenzene	ND	0.2290	5.000								
A 1,2-Dibromoethane	ND	0.2560	5.000								
A 1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.6230	5.000								
A 1,2-Dichlorobenzene	ND	0.2170	5.000								
A 1,2-Dichloroethane	ND	0.3020	5.000								
A 1,2-Dichloropropane	ND	0.6750	5.000								
A 1,3,5-Trimethylbenzene	ND	0.4830	5.000								
A 1,3-Dichlorobenzene	ND	0.6020	5.000								
A 1,4-Dichlorobenzene	ND	0.5650	5.000								
A Benzene	ND	0.2330	5.000								
A Benzyl chloride	ND	0.5000	5.000								
A Bromomethane	ND	0.3890	5.000								
A Carbon tetrachloride	ND	1.520	5.000								
A Chlorobenzene	ND	0.5600	5.000								
A Chloroethane	ND	0.6370	5.000								

**Definitions:**

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- DNI - Did not Ignite
- M - Matrix Spike Recovery outside limits
- NP - Petroleum Pattern is not present
- B - Analyte found in Method blank
- E - Result exceeds Highest Calibration Standard
- N - Single Column Analysis
- P - Post Spike Recovery outside limits
- D - Diluted due to matrix or extended target compounds
- II - Value Exceeds Maximum Contaminant Level
- NC - Not Calculated
- R - RPD outside recovery limits
- DF - Dilution Factor
- J - Estimated value
- ND - Not Detected at the Reporting Limit

**Footnotes:** 1 - Represents RSD Limit for Quad Analysis RL - Reporting Limit

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue  
Lancaster, New York 14086

# Laboratory Results

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

CLIENT: E and E Buffalo Office  
Work Order: 0403012  
Project: Mr. C's Dry Cleaners

## QC SUMMARY REPORT

Method Blank

### VOCs in Air by GCMS Method TO-14A

Sample ID: MB-1754-33-1 Client Sample ID:

Run Batch ID: JAKE\_040303A SeqNo: 910507

Analysis Date: 3/3/2004 9:37:00 AM Prep Batch ID: 040303401r

Test Code: 1\_7014\_A

Units: ppbv

DF: 1 DL\_No: 1

Prep Date:

Analyte Type / Name	Result	MDL	RL	Spike Value	Orig Result	%REC	LowLimit	HighLimit	RPD	RPD Limit <sup>1</sup>	Qual
A Chloroform	ND	0.8050	5.000								
A Chloromethane	ND	0.5470	5.000								
A cis-1,2-Dichloroethene	ND	0.4160	5.000								
A cis-1,3-Dichloropropene	ND	0.2970	5.000								
A Dichlorodifluoromethane	ND	0.5570	5.000								
A Ethylbenzene	ND	0.2250	5.000								
A Hexachlorobutadiene	ND	0.2220	5.000								
A m,p-Xylene	ND	1.180	10.00								
A Methylene chloride	ND	0.5450	5.000								
A o-Xylene	ND	0.5890	5.000								
A Styrene	ND	0.5440	5.000								
A Tetrachloroethene	ND	0.5710	5.000								
A Toluene	ND	0.5360	5.000								
A trans-1,2-Dichloroethene	ND	0.2030	5.000								
A trans-1,3-Dichloropropene	ND	0.3800	5.000								
A Trichloroethene	ND	0.5340	5.000								
A Trichlorofluoromethane	0.3540	0.2140	5.000								
A Vinyl chloride	ND	0.3960	5.000								
A Xylenes, Total	ND	1.670	15.00								
S 1,2-Dichloroethane-d4	9.719	0	0			97	80	120			J
S 4-Bromofluorobenzene	8.424	0	0			84	80	120			
S Toluene-d8	10.54	0	0			105	80	120			

#### Definitions:

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

Footnotes: 1 - Represents RSD Limit for Quad Analysis RL - Reporting Limit

CLIENT: E and E Buffalo Office  
 Work Order: 0403012  
 Project: Mr. C's Dry Cleaners

**QC SUMMARY REPORT**  
 Sample Duplicate

**VOCs in Air by GCMS Method TO-14A**

Sample ID: 0403012-03A Client Sample ID: **GAC INFLUENT**  
 Run Batch ID: JAKE\_040303A SeqNo: 913697 Analysis Date: 3/3/2004 2:54:00 PM Prep Batch ID: 040303401r  
 Test Code: 1\_TO14\_A

Analyte Type / Name	Result	MDL	RL	Spike Value	Orig Result	%REC	LowLimit	HighLimit	RPD	RPD Limit <sup>1</sup>	Qual
A 1,1,1-Trichloroethane	ND	9.980	100.0		0				0.0	20	
A 1,1,2,2-Tetrachloroethane	ND	10.30	100.0		0				0.0	20	
A 1,1,2-Trichloro-1,2,2-trifluoroethane	ND	12.70	100.0		0				0.0	20	
A 1,1,2-Trichloroethane	ND	11.70	100.0		0				0.0	20	
A 1,1-Dichloroethane	ND	12.30	100.0		0				0.0	20	
A 1,1-Dichloroethene	ND	8.060	100.0		0				0.0	20	
A 1,2,4-Trichlorobenzene	ND	5.260	100.0		0				0.0	20	
A 1,2,4-Trimethylbenzene	ND	4.560	100.0		0				0.0	20	
A 1,2-Dibromoethane	ND	5.120	100.0		0				0.0	20	
A 1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	12.50	100.0		0				0.0	20	
A 1,2-Dichlorobenzene	ND	4.340	100.0		0				0.0	20	
A 1,2-Dichloroethane	ND	6.040	100.0		0				0.0	20	
A 1,2-Dichloropropane	ND	13.50	100.0		0				0.0	20	
A 1,3,5-Trimethylbenzene	ND	9.660	100.0		0				0.0	20	
A 1,3-Dichlorobenzene	ND	12.00	100.0		0				0.0	20	
A 1,4-Dichlorobenzene	ND	11.30	100.0		0				0.0	20	
A Benzene	ND	4.660	100.0		0				0.0	20	
A Benzyl chloride	ND	10.00	100.0		0				0.0	20	
A Bromomethane	ND	7.780	100.0		0				0.0	20	
A Carbon tetrachloride	ND	30.40	100.0		0				0.0	20	
A Chlorobenzene	ND	11.20	100.0		0				0.0	20	
A Chloroethane	ND	12.70	100.0		0				0.0	20	

**Definitions:**

- \* - Recovery outside QC limits
- DNI - Did not Ignite
- M - Matrix Spike Recovery outside limits
- NP - Petroleum Pattern is not present
- B - Analyte found in Method blank
- E - Result exceeds Highest Calibration Standard
- N - Single Column Analysis
- P - Post Spike Recovery outside limits
- RL - Reporting Limit
- D - Diluted due to matrix or extended target compounds
- H - Value Exceeds Maximum Contaminant Level
- NC - Not Calculated
- R - RPD outside recovery limits
- DF - Dilution Factor
- J - Estimated value
- ND - Not Detected at the Reporting Limit

Footnotes: 1 - Represents RSD Limit for Quad Analysis

# Ecology and Environment, Inc.

Analytical Services Center  
 4493 Walden Avenue  
 Lancaster, New York 14086

# Laboratory Results

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

CLIENT: E and E Buffalo Office  
 Work Order: 0403012  
 Project: Mr. C's Dry Cleaners

## QC SUMMARY REPORT

Sample Duplicate

### VOCs in Air by GCMS Method TO-14A

Test Code: 1\_T014\_A

Units: ppbv  
 DF: 20 DL\_No: 1

Client Sample ID: GAC INFLUENT

Prep Batch ID: 040303401r

Prep Date:

Sample ID: 0403012-03A

Analysis Date: 3/3/2004 2:54:00 PM

Prep Batch ID: 040303401r

Prep Date:

Run Batch ID: JAKE\_040303A

Analysis Date: 3/3/2004 2:54:00 PM

Prep Batch ID: 040303401r

Prep Date:

Analyte Type / Name	Result	MDL	RL	Spike Value	Orig Result	%REC	LowLimit	HighLimit	RPD	RPD Limit <sup>1</sup>	Qual
A Chloroform	ND	16.10	100.0		0				0.0	20	
A Chloromethane	ND	10.90	100.0		0				0.0	20	
A cis-1,2-Dichloroethene	ND	8.320	100.0		0				0.0	20	
A cis-1,3-Dichloropropene	ND	5.940	100.0		0				0.0	20	
A Dichlorodifluoromethane	ND	11.10	100.0		0				0.0	20	
A Ethylbenzene	ND	4.500	100.0		0				0.0	20	
A Hexachlorobutadiene	ND	4.440	100.0		0				0.0	20	
A m,p-Xylene	ND	23.60	200.0		0				0.0	20	
A Methylene chloride	ND	10.90	100.0		0				0.0	20	
A o-Xylene	ND	11.80	100.0		0				0.0	20	
A Styrene	ND	10.90	100.0		0				0.0	20	
A Tetrachloroethene	769.8	11.40	100.0		727.1				5.7	20	
A Toluene	ND	10.70	100.0		0				0.0	20	
A trans-1,2-Dichloroethene	ND	4.060	100.0		0				0.0	20	
A trans-1,3-Dichloropropene	ND	7.600	100.0		0				0.0	20	
A Trichloroethene	28.16	10.70	100.0		25.88				8.4	20	J
A Trichlorofluoromethane	5.720	4.280	100.0		5.620				1.8	20	JB
A Vinyl chloride	ND	7.920	100.0		0				0.0	20	
A Xylenes, Total	ND	33.40	300.0		0				0.0	20	
S 1,2-Dichloroethane-d4	201.3	0	0	200.0	0	101	80	120	0.0	0	
S 4-Bromofluorobenzene	177.3	0	0	200.0	0	89	80	120	0.0	0	
S Toluene-d8	209.3	0	0	200.0	0	105	80	120	0.0	0	

#### Definitions:

- \* - Recovery outside QC limits
- DNI - Did not Ignite
- M - Matrix Spike Recovery outside limits
- NP - Petroleum Pattern is not present
- B - Analyte found in Method blank
- E - Result exceeds Highest Calibration Standard
- N - Single Column Analysis
- P - Post Spike Recovery outside limits
- D - Diluted due to matrix or extended target compounds
- H - Value Exceeds Maximum Contaminant Level
- NC - Not Calculated
- R - RPD outside recovery limits
- DF - Dilution Factor
- J - Estimated value
- ND - Not Detected at the Reporting Limit
- I - Represents RSD Limit for Quad Analysis
- RL - Reporting Limit

Footnotes:

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Work Order: 0403012

Project: Mr. C's Dry Cleaners

Test Code: 1\_TO14\_A

Batch ID: JAKE\_040303A

## QC SUMMARY REPORT SURROGATE RECOVERIES

Volatile Organics in Air by Method TO-14A

Sample ID	Type	BR4FBZ	BZMED8	DCA12D4				
0403012-03A	SAMP	81	106	98				
0403012-03A	DUP	89	105	101				
0403012-03A	DL	90	106	99				
0403012-04A	SAMP	90	106	100				
MB-1754-33-1	MBLK	84	105	97				

Acronym	Surrogate	QC Limits
BR4FBZ	= 4-Bromofluorobenzene	80-120
BZMED8	= Toluene-d8	80-120
DCA12D4	= 1,2-Dichloroethane-d4	80-120

\* Surrogate recovery outside acceptance limits

D - Diluted due to matrix or extended target compounds

# METALS

# Ecology and Environment, Inc.

## Analytical Services Center

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: 0403012

Alt. Client ID:

Project: Mr. C's Dry Cleaners

Collection Date: 3/2/2004 10:16:00 AM % Moist:

Lab ID: 0403012-01B

Sample Type: SAMP

Matrix: Water

Test Code: 1\_ILM04.1\_TAL\_W

ICP METALS ANALYSIS BY METHOD ILM04.1

Method: ILM04.1\_MET

Prep Method: ILM04.1\_MET

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Aluminum	ND		200	µg/L	1	3/9/2004 5:42:54 PM	OPTIMA3300_040309C	CMO
Calcium	141000		5000	µg/L	1			
Cobalt	ND		50.0	µg/L	1			
Copper	ND		25.0	µg/L	1			
Iron	334		100	µg/L	1			
Lead	4.02		3.00	µg/L	1			
Magnesium	23000		5000	µg/L	1			
Manganese	254		15.0	µg/L	1			
Nickel	ND		40.0	µg/L	1			
Potassium	5500		5000	µg/L	1			
Silver	ND		10.0	µg/L	1			
Sodium	213000		5000	µg/L	1			
Vanadium	ND		50.0	µg/L	1			
Zinc	ND		20.0	µg/L	1			

### Definitions:

\* - 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 matrix or extended target compounds

E - Result exceeds Highest Calibration Standard

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit

R - RPD outside recovery limits

# Ecology and Environment, Inc.

## Analytical Services Center

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: 0403012

Alt. Client ID:

Project: Mr. C's Dry Cleaners

Collection Date: 3/2/2004 10:25:00 AM % Moist:

Lab ID: 0403012-02B

Sample Type: SAMP

Matrix: Water

Test Code: 1\_ILM04.1\_TAL\_W

### ICP METALS ANALYSIS BY METHOD ILM04.1

Method: ILM04.1\_MET

Prep Method: ILM04.1\_MET

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Aluminum	ND		200	µg/L	1	3/9/2004 5:48:37 PM	OPTIMA3300_040309C	CMO
Calcium	139000		5000	µg/L	1			
Cobalt	ND		50.0	µg/L	1			
Copper	ND		25.0	µg/L	1			
Iron	452		100	µg/L	1			
Lead	ND		3.00	µg/L	1			
Magnesium	22400		5000	µg/L	1			
Manganese	258		15.0	µg/L	1			
Nickel	ND		40.0	µg/L	1			
Potassium	5840		5000	µg/L	1			
Silver	ND		10.0	µg/L	1			
Sodium	211000		5000	µg/L	1			
Vanadium	ND		50.0	µg/L	1			
Zinc	ND		20.0	µg/L	1			

#### Definitions:

\* - 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 matrix or extended target compounds

E - Result exceeds Highest Calibration Standard

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit

R - RPD outside recovery limits



**Ecology and Environment, Inc.**  
 Analytical Services Center  
 4493 Walden Avenue  
 Lancaster, New York 14086

**Laboratory Results**

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

**CLIENT:** E and E Buffalo Office  
**Work Order:** 0403012  
**Project:** Mr. C's Dry Cleaners

**QC SUMMARY REPORT**  
 Method Blank

**CLP TAL Metals by Method ILM04.1**

Sample ID: MB-200400888 Client Sample ID:

Run Batch ID: OPTIMA3300\_040311G SeqNo: 916808

Analyte Type / Name Result MDL RL Spike Value Orig Result %REC LowLimit HighLimit RPD RPD Limit<sup>1</sup> Qual

A Lead ND 0 3.000

Test Code: I\_ILM04.1\_TAL\_W

Units: µg/L

DF: 1 DL\_No: 1

Prep Date: 3/3/2004

Prep Batch ID: 200400888

**Definitions:**

\* - Recovery outside QC limits

DNI - Did not Ignite

M - Matrix Spike Recovery outside limits

NP - Petroleum Pattern is not present

B - Analyte found in Method blank

E - Result exceeds Highest Calibration Standard

N - Single Column Analysis

P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds

H - Value Exceeds Maximum Contaminant Level

NC - Not Calculated

R - RPD outside recovery limits

DF - Dilution Factor

J - Estimated value

ND - Not Detected at the Reporting Limit

**Footnotes:** 1 - Represents RSD Limit for Quad Analysis RL - Reporting Limit

Ecology & Environment Inc. LIMS Version #: 3.1.9.7 - 3/5/2004 1:00:00 AM

Monday, March 15, 2004 8:55:34 AM

**Ecology and Environment, Inc.**  
 Analytical Services Center  
 4493 Walden Avenue  
 Lancaster, New York 14086

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

**CLIENT:** E and E Buffalo Office  
**Work Order:** 0403012  
**Project:** Mr. C's Dry Cleaners

**QC SUMMARY REPORT**  
 Method Blank

**CLP TAL Metals by Method ILM04.1**

Sample ID: **MB-200400888** Client Sample ID:

Run Batch ID: **OPTIMA3300\_040309C** SeqNo: **914962**

Analysis Date: **3/9/2004 5:32:27 PM** Prep Batch ID: **200400888**

Test Code: **1\_ILM04.1\_TAL\_W**

Units: **µg/L**

DF: **1** DL\_No: **1**

Prep Date: **3/3/2004**

Analyte Type / Name	Result	MDL	RL	Spike Value	Orig Result	%REC	LowLimit	HighLimit	RPD	RPD Limit	Qual
A Aluminum	10.31	0	200.0								
A Calcium	21.94	0	5000								
A Cobalt	1.309	0	50.00								
A Copper	1.178	0	25.00								
A Iron	26.26	0	100.0								
A Magnesium	21.80	0	5000								
A Manganese	2.552	0	15.00								
A Nickel	ND	0	40.00								
A Potassium	103.5	0	5000								
A Silver	ND	0	10.00								
A Sodium	ND	0	5000								
A Vanadium	ND	0	50.00								
A Zinc	2.597	0	20.00								

**Definitions:**

- \* - Recovery outside QC limits
- DNI - Did not ignite
- M - Matrix Spike Recovery outside limits
- NP - Petroleum Pattern is not present
- H - Analyte found in Method blank
- E - Result exceeds highest Calibration Standard
- N - Single Column Analysis
- P - Post Spike Recovery outside limits
- D - Diluted due to matrix or extended target compounds
- H - Value Exceeds Maximum Contaminant Level
- NC - Not Calculated
- R - RPD outside recovery limits
- DF - Dilution Factor
- J - Estimated value
- ND - Not Detected at the Reporting Limit

**Footnotes:** 1 - Represents RSD Limit for Quad Analysis RL - Reporting Limit

**Ecology and Environment, Inc.**  
 Analytical Services Center  
 4493 Walden Avenue  
 Lancaster, New York 14086

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

**CLIENT:** E and E Buffalo Office  
**Work Order:** 0403012  
**Project:** Mr. C's Dry Cleaners

**QC SUMMARY REPORT**  
 Sample Matrix Spike

**CLP TAL Metals by Method ILM04.1**

Sample ID: 0403012-02BS Client Sample ID: AS EFFLUENT

Run Batch ID: OPTIMA3300\_040309C

SeqNo: 914987 Analysis Date: 3/9/2004 6:00:11 PM Prep Batch ID: 200400888

Analyte Type / Name	Result	MDL	RL	Spike Value	Orig Result	%REC	LowLimit	HighLimit	RPD	RPD Limit	Qual
A Aluminum	2078	0	200.0	2000	7.656	104	75	125	1	125	
A Cobalt	513.6	0	50.00	500.0	1.151	102	75	125	1	125	
A Copper	280.6	0	25.00	250.0	17.57	105	75	125	1	125	
A Iron	1490	0	100.0	1000	451.8	104	70	130	1	130	
A Lead	20.56	0	3.000	20.00	2.498	80	75	125	1	125	
A Manganese	779.0	0	15.00	500.0	257.7	104	75	125	1	125	
A Nickel	506.0	0	40.00	500.0	0.9151	101	75	125	1	125	
A Silver	55.39	0	10.00	50.00	4.222	102	75	125	1	125	
A Vanadium	519.3	0	50.00	500.0	0	104	75	125	1	125	
A Zinc	532.8	0	20.00	500.0	18.40	103	75	125	1	125	

Test Code: 1\_ILM04.1\_TAL\_W

Units: µg/L

DF: 1 DL\_No: 1

Prep Date: 3/3/2004

**Definitions:**

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

**Footnotes:** 1 - Represents RSD Limit for Quad Analysis RL - Reporting Limit



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ecology and environment, inc.

# Laboratory Results

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

**CLIENT:** E and E Buffalo Office  
**Work Order:** 0403012  
**Project:** Mr. C's Dry Cleaners

## OC SUMMARY REPORT

Sample Duplicate

### CLP TAL Metals by Method ILM04.1

Sample ID: 0403012-02BD	Client Sample ID: AS EFFLUENT	Analysis Date: 3/9/2004 5:54:24 PM	Prep Batch ID: 200400888	Test Code: 1_ILM04.1_TAL_W	Units: µg/L								
Run Batch ID: OPTIMA3300_040309C	SeqNo: 914966	MDL	RL	Spike Value	Orig Result	%REC	LowLimit	HighLimit	DF:	DL_No: 1	RPD	RPD Limit <sup>1</sup>	Qual
A Aluminum	ND	0	200.0	7.656	7.656						200.0	20	JB
A Calcium	144400	0	5000	138700	138700						4.0	20	B
A Cobalt	1.093	0	50.00	1.151	1.151						5.2	20	JB
A Copper	18.02	0	25.00	17.57	17.57						2.5	20	JB
A Iron	470.7	0	100.0	451.8	451.8						4.1	20	B
A Lead	ND	0	3.000	2.498	2.498						200.0	20	J
A Magnesium	23730	0	5000	22420	22420						5.7	20	B
A Manganese	279.9	0	15.00	257.7	257.7						8.2	20	B
A Nickel	3.006	0	40.00	0.9151	0.9151						106.7	20	J
A Potassium	6150	0	5000	5844	5844						5.1	20	B
A Silver	7.394	0	10.00	4.222	4.222						54.6	20	J
A Sodium	220200	0	5000	211300	211300						4.1	20	J
A Vanadium	ND	0	50.00	0	0						0.0	20	J
A Zinc	17.27	0	20.00	18.40	18.40						6.3	20	JB

**Definitions:**

- \* - Recovery outside QC limits
- DNI - Did not Ignite
- M - Matrix Spike Recovery outside limits
- NP - Petroleum Pattern is not present
- B - Analyte found in Method blank
- E - Result exceeds Highest Calibration Standard
- N - Single Column Analysis
- P - Post Spike Recovery outside limits
- D - Diluted due to matrix or extended target compounds
- H - Value Exceeds Maximum Contaminant Level
- NC - Not Calculated
- R - RPD outside recovery limits
- I - Represents RSD Limit for Quad Analysis
- RL - Reporting Limit
- DF - Dilution Factor
- J - Estimated value
- ND - Not Detected at the Reporting Limit

Footnotes: I - Represents RSD Limit for Quad Analysis RL - Reporting Limit

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

**CLIENT:** E and E Buffalo Office  
**Work Order:** 0403012  
**Project:** Mr. C's Dry Cleaners

**QC SUMMARY REPORT**  
 Laboratory Control Spike

**CLP TAL Metals by Method ILM04.1**

Analyte Type / Name	Result	MDL	RL	Spike Value	Orig Result	%REC	LowLimit	HighLimit	RPD	RPD Limit	Qual
A Aluminum	1019	0	200.0	1000	0	102	80	120	1	120	
A Calcium	10330	0	5000	10000	0	103	80	120	1	120	
A Cobalt	1081	0	50.00	1000	0	108	80	120	1	120	
A Copper	1010	0	25.00	1000	0	101	80	120	1	120	
A Iron	10450	0	100.0	10000	0	105	80	120	1	120	
A Lead	1078	0	3.000	1000	0	108	80	120	1	120	
A Magnesium	10270	0	5000	10000	0	103	80	120	1	120	
A Manganese	1031	0	15.00	1000	0	103	80	120	1	120	
A Nickel	1052	0	40.00	1000	0	105	80	120	1	120	
A Potassium	10340	0	5000	10000	0	103	80	120	1	120	
A Silver	53.16	0	10.00	50.00	0	106	80	120	1	120	
A Sodium	10320	0	5000	10000	0	103	80	120	1	120	
A Vanadium	1034	0	50.00	1000	0	103	80	120	1	120	
A Zinc	1038+	0	20.00	1000	0	104	80	120	1	120	

Test Code: 1\_ILM04.1\_TAL\_W

Units: µg/L

DF: 1 DL\_No: 1

Prep Date: 3/3/2004

Prep Batch ID: 200400888

Client Sample ID:

SeqNo: 914963

Analysis Date: 3/9/2004 5:38:08 PM

Run Batch ID: OPTIMA3300\_040309C

**Definitions:**

- \* - Recovery outside QC limits
- DNI - Did not ignite
- M - Matrix Spike Recovery outside limits
- NP - Petroleum Pattern is not present
- B - Analyte found in Method blank
- E - Result exceeds highest Calibration Standard
- N - Single Column Analysis
- P - Post Spike Recovery outside limits
- D - Diluted due to matrix or extended target compounds
- H - Value Exceeds Maximum Contaminant Level
- NC - Not Calculated
- R - RPD outside recovery limits
- DF - Dilution Factor
- J - Estimated value
- ND - Not Detected at the Reporting Limit

**Footnotes:** 1 - Represents RSD Limit for Quad Analysis RL - Reporting Limit

# MERCURY

# Ecology and Environment, Inc.

Analytical Services Center

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: 0403012

Alt. Client ID:

Project: Mr. C's Dry Cleaners

Collection Date: 3/2/2004 10:16:00 AM % Moist:

Lab ID: 0403012-01B

Sample Type: SAMP

Matrix: Water

Test Code: 1\_ILM04.1\_HG\_W

MERCURY ANALYSIS BY METHOD ILM04.1

Method: ILM04.1\_HG

Prep Method: ILM04.1\_HG

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Mercury	ND		0.200	µg/L	1	3/4/2004 9:46:03 AM	LEEMAN_040304A	JLS

## Definitions:

\* - 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 matrix or extended target compounds

E - Result exceeds Highest Calibration Standard

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit

R - RPD outside recovery limits

# Ecology and Environment, Inc.

## Analytical Services Center

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: 0403012

Alt. Client ID:

Project: Mr. C's Dry Cleaners

Collection Date: 3/2/2004 10:25:00 AM % Moist:

Lab ID: 0403012-02B

Sample Type: SAMP

Matrix: Water

Test Code: 1\_ILM04.1\_HG\_W

### MERCURY ANALYSIS BY METHOD ILM04.1

Method: ILM04.1\_HG

Prep Method: ILM04.1\_HG

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Mercury	ND		0.200	µg/L	1	3/4/2004 9:47:19 AM	LEEMAN_040304A	JLS

#### Definitions:

\* - 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 matrix or extended target compounds

E - Result exceeds Highest Calibration Standard

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit

R - RPD outside recovery limits



**Ecology and Environment, Inc.**  
 Analytical Services Center

4493 Walden Avenue  
 Lancaster, New York 14086

**CLIENT:** E and B Buffalo Office  
**Work Order:** 0403012  
**Project:** Mr. C's Dry Cleaners

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

**QC SUMMARY REPORT**  
 Method Blank

**CLP Mercury Analysis by Method ILM04.1**

Sample ID: MB-200400889 Client Sample ID:  
 Run Batch ID: LEEMAN\_040304A SeqNo: 911121  
 Analyte Type / Name: Mercury Result: ND

Test Code: 1\_ILM04.1\_HG\_W  
 Analysis Date: 3/4/2004 9:43:09 AM  
 Prep Batch ID: 200400889  
 MDL: 0  
 RL: 0.2000  
 Spike Value: 0.2000  
 %REC: 0  
 HighLimit: 0  
 LowLimit: 0  
 RPD: 0  
 RPD Limit: 0

Units: µg/L  
 DF: 1  
 DL\_No: 1  
 Prep Date: 3/3/2004  
 RPD: 0  
 RPD Limit: 0  
 Qual: 0

**Definitions:**

- \* - Recovery outside QC limits
- DNI - Did not Ignite
- M - Matrix Spike Recovery outside limits
- NP - Petroleum Pattern is not present
- I - Represents RSD Limit for Quad Analysis
- B - Analyte found in Method blank
- E - Result exceeds Highest Calibration Standard
- N - Single Column Analysis
- P - Post Spike Recovery outside limits
- D - Diluted due to matrix or extended target compounds
- H - Value Exceeds Maximum Contaminant Level
- NC - Not Calculated
- R - RPD outside recovery limits
- DF - Dilution Factor
- J - Estimated value
- ND - Not Detected at the Reporting Limit
- RL - Reporting Limit

Footnotes:

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 Analytical Services Center  
 4493 Walden Avenue  
 Lancaster, New York 14086

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

**CLIENT:** E and E Buffalo Office  
**Work Order:** 0403012  
**Project:** Mr. C's Dry Cleaners

**QC SUMMARY REPORT**  
 Sample Matrix Spike

**CLP Mercury Analysis by Method ILM04.1**

Sample ID: 0403012-02BS Client Sample ID: AS EFFLUENT

Run Batch ID: LEEMAN\_040304A

SeqNo: 911122

Analysis Date: 3/4/2004 9:50:07 AM

Prep Batch ID: 200400889

Prep Date: 3/3/2004

Analyte Type / Name

Result

MDL

RL

%REC

LowLimit

HighLimit

RPD

RPD Limit

Qual

A Mercury

1.017

0

0.2000

1.000

0

102

75

125

Test Code: 1\_ILM04.1\_HG\_W

Units: µg/L

DF:

1

DL\_No: 1

**Definitions:**

\* - Recovery outside QC limits

DNI - Did not ignite

M - Matrix Spike Recovery outside limits

NP - Petroleum Pattern is not present

B - Analyte found in Method blank

E - Result exceeds Highest Calibration Standard

N - Single Column Analysis

P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds

H - Value Exceeds Maximum Contaminant Level

NC - Not Calculated

R - RPD outside recovery limits

DF - Dilution Factor

J - Estimated value

ND - Not Detected at the Reporting Limit

Footnotes: I - Represents RSD Limit for Quad Analysis RL - Reporting Limit

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Thursday, March 04, 2004 2:45:10 PM



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# Laboratory Results

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

**CLIENT:** E and E Buffalo Office  
**Work Order:** 0403012  
**Project:** Mr. C's Dry Cleaners

## QC SUMMARY REPORT

Sample Duplicate

### CLP Mercury Analysis by Method ILM04.1

Sample ID: 0403012-02BD      Client Sample ID: AS EFFLUENT      Test Code: 1\_ILM04.1\_HG\_W      Units: µg/L  
 Run Batch ID: LEEMAN\_040304A      SeqNo: 911117      Analysis Date 3/4/2004 9:48:39 AM      Prep Batch ID: 200400889      DF: 1      DL\_No: 1  
 Analyte Type / Name      Result      MDL      0      0.2000      RL      Spike Value      Orig Result      %REC      LowLimit      HighLimit      RPD      RPD Limit      Qual  
 A Mercury      ND      0      0.2000      0      0      0      0.0      20      J

**Definitions:**

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

**Footnotes:** 1 - Represents RSD Limit for Quad Analysis      RL - Reporting Limit

# Ecology and Environment, Inc.

Analytical Services Center

4493 Walden Avenue

Lancaster, New York 14086

# Laboratory Results

NYS ELAP ID#: 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Work Order: 0403012

Project: Mr. C's Dry Cleaners

## QC SUMMARY REPORT

Laboratory Control Spike

### CLP Mercury Analysis by Method ILM04.1

Sample ID: LCS-200400889 Client Sample ID:

Run Batch ID: LEEMAN\_040304A SeqNo: 911120 Analysis Date: 3/4/2004 9:44:37 AM Prep Batch ID: 200400889

Analyte Type / Name: A Mercury Result: 1.042

MDL: 0 RL: 0.2000 Spike Value: 1.000 Orig Result: 0 %REC: 0 LowLimit: 80 HighLimit: 120 RPD: RPD Limit<sup>1</sup>: Qual

Test Code: 1\_ILM04.1\_HQ\_W

Units: µg/L

DF: 1 DL\_No: 1

Prep Date: 3/3/2004

RPD: RPD Limit<sup>1</sup>: Qual

#### Definitions:

- - Recovery outside QC limits
- DNI - Did not Ignite
- M - Matrix Spike Recovery outside limits
- NP - Petroleum Pattern is not present

- B - Analyte found in Method blank
- E - Result exceeds Highest Calibration Standard
- N - Single Column Analysis
- P - Post Spike Recovery outside limits

- D - Diluted due to matrix or extended target compounds
- H - Value Exceeds Maximum Contaminant Level
- NC - Not Calculated
- R - RPD outside recovery limits

- DF - Dilution Factor
- J - Estimated value
- ND - Not Detected at the Reporting Limit

Footnotes: 1 - Represents RSD Limit for Quad Analysis RL - Reporting Limit

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Thursday, March 04, 2004 2:45:11 PM

# GENERAL ANALYTICAL CHEMISTRY



# Analytical Services Center

International Specialists in Environmental Analysis

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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: 0403012

Alt. Client ID:

Project: Mr. C's Dry Cleaners

Collection Date: 3/2/2004 10:16:00 AM % Moist:

Lab ID 0403012-01D

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)	420		1.00	mg/L	1	3/22/2004	WC_HARDNESS_040322A	LMW

### Definitions:

\* - 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 matrix or extended target compounds

E - Result exceeds Highest Calibration Standard

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit

R - RPD outside recovery limits



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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: 0403012

Alt. Client ID:

Project: Mr. C's Dry Cleaners

Collection Date: 3/2/2004 10:25:00 AM % Moist:

Lab ID 0403012-02D

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 Analyzed	Run Batch ID	Analyst
Hardness (As CaCO3)	456		1.00	mg/L	1	3/22/2004	WC_HARDNESS_040322A	LMW

### Definitions:

\* - 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 matrix or extended target compounds

E - Result exceeds Highest Calibration Standard

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit

R - RPD outside recovery limits



# Analytical Services Center

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# Laboratory Results

NYS ELAP ID# 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Work Order: 0403012

Project: Mr. C's Dry Cleaners

## QC SUMMARY REPORT

Method Blank

### Hardness, Total by Method EPA 130.2

Sample ID MB-040322140

Client Sample ID:

Run Batch ID: WC\_HARDNESS\_040322A

SeqNo: 922895

Analysis Date 3/22/2004

Prep Batch ID: 040322140R

Analyte Type / Name

Result

MDL

RL

Spike Value

Orig Result

%REC

HighLimit

RPD

RPD Limit

Qual

A Hardness (As CaCO3)

ND

1.000

1.000

1.000

Test Code: 1\_130.2\_HARD\_W

Units: mg/L

DF:

1

DL\_No: 1

Prep Date 3/22/2004

RPD

RPD Limit

Qual

### Definitions:

\* - Recovery outside QC limits

DNI - Did not Ignite

M - Matrix Spike Recovery outside limits

NP - Petrokum Pattern is not present

B - Analyte found in Method blank

E - Result exceeds Highest Calibration Standard

N - Single Column Analysis

P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds

H - Value Exceeds Maximum Contaminant Level

NC - Not Calculated

R - RPD outside recovery limits

DF - Dilution Factor

J - Estimated value

ND - Not Detected at the Reporting Limit

Footnotes: 1 - Represents RSD Limit for Quad Analysis

RI - Reporting Limit





# Analytical Services Center

International Specialists in Environmental Analysis

4493 Walden Avenue

Lancaster, New York 14086

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ecology and environment, inc.

# Laboratory Results

NYS ELAP ID# 10486

Phone: (716) 685-8080

CLIENT: E and E Buffalo Office

Work Order: 0403012

Project: Mr. C's Dry Cleaners

## QC SUMMARY REPORT

Sample Duplicate

### Hardness, Total by Method EPA 130.2

Sample ID 0403012-01D

Client Sample ID: AS INFLUENT

Run Batch ID: WC\_HARDNESS\_040322A

SeqNo: 922900

Prep Batch ID: 040322140R

Prep Date 3/22/2004

Analyte Type / Name

Result 420.0

MDL 1.000

Orig Result 420.0

LowLimit

HighLimit

RPD 0.0

Qual

Test Code: 1\_130.2\_HARD\_W

Units: mg/L

DF: 1

DL\_No: 1

RPD Limit 1

20

#### Definitions:

\* - Recovery outside QC limits

DNI - Did not Ignite

M - Matrix Spike Recovery outside limits

NP - Petroleum Pattern is not present

B - Analyte found in Method blank

E - Result exceeds Highest Calibration Standard

N - Single Column Analysis

P - Post Spike Recovery outside limits

D - Diluted due to matrix or extended target compounds

H - Value Exceeds Maximum Contaminant Level

NC - Not Calculated

R - RPD outside recovery limits

DF - Dilution Factor

J - Estimated value

ND - Not Detected at the Reporting Limit

Footnotes: 1 - Represents RSD Limit for Quad Analysis

RL - Reporting Limit



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# Laboratory Results

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

**CLIENT:** E and E Buffalo Office  
**Work Order:** 0403012  
**Project:** Mr. C's Dry Cleaners

## QC SUMMARY REPORT

### Laboratory Control Spike

#### Hardness, Total by Method EPA 130.2

Sample ID **LCS-040320140** Client Sample ID:  
 Run Batch ID: **WC\_HARDNESS\_040322A** SeqNo: **922896**  
 Analyte Type / Name  
 A Hardness (As CaCO3)

Test Code: **1\_130.2\_HARD\_W**

Analysis Date **3/22/2004** Prep Batch ID: **040322140R**  
 MDL **1.000** RL **1.000** Spike Value **100.0** LowLimit **90** HighLimit **110**  
 Result **100.0** %REC **100** RPD **RPD** RPD Limit **1** Qual  
 Units: mg/L

**Definitions:**

- \* - Recovery outside QC limits
- DNI - Did not Ignite
- M - Matrix Spike Recovery outside limits
- NP - Petroleum Pattern is not present
- B - Analyte found in Method blank
- E - Result exceeds Highest Calibration Standard
- N - Single Column Analysis
- P - Post Spike Recovery outside limits
- D - Diluted due to matrix or extended target compounds
- H - Value Exceeds Maximum Contaminant Level
- NC - Not Calculated
- R - RPD outside recovery limits
- DF - Dilution Factor
- J - Estimated value
- ND - Not Detected at the Reporting Limit
- I - Represents RSD Limit for Quad Analysis
- RL - Reporting Limit



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# Laboratory Results

NYS ELAP ID# 10486

Phone: (716) 685-8080

Client: E and E Buffalo Office

Client Sample ID: AS INFLUENT

Lab Order: 0403012

Alt. Client ID:

Project: Mr. C's Dry Cleaners

Collection Date: 3/2/2004 10:16:00 AM % Moist:

Lab ID 0403012-01D

Sample Type: SAMP

Matrix: Water

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	Analyst
Total Dissolved Solids (Residue, Filterable)	690		10	mg/L	1	3/9/2004	SARTORIUS_TDS_040309	LMW

### Definitions:

\* - 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 matrix or extended target compounds

E - Result exceeds Highest Calibration Standard

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit

R - RPD outside recovery limits



# Analytical Services Center

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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: 0403012

Alt. Client ID:

Project: Mr. C's Dry Cleaners

Collection Date: 3/2/2004 10:25:00 AM % Moist:

Lab ID 0403012-02D

Sample Type: SAMP

Matrix: Water

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	Analyst
Total Dissolved Solids (Residue, Filterable)	1100		10	mg/L	1	3/9/2004	SARTORIUS_TDS_040309	LMW

### Definitions:

\* - 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 matrix or extended target compounds

E - Result exceeds Highest Calibration Standard

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit

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  
**Work Order:** 0403012  
**Project:** Mr. C's Dry Cleaners

## QC SUMMARY REPORT

Method Blank

### Total Dissolved Solids (TDS) by method 160.1

Sample ID **MB-040309140** Client Sample ID: **915041** Analysis Date **3/9/2004** Test Code: **1\_160.1\_TDS\_W** Units: **mg/L**  
 Run Batch ID: **SARTORIUS\_TDS\_040309A** SeqNo: **915041** Analysis Date **3/9/2004** Prep Batch ID: **040309140R** DF: **1** DL\_No: **1**  
 Analyte Type / Name **A Total Dissolved Solids (Residue, Filterable)** Result **ND** MDL **10.00** RL **10.00** Spike Value **0.00** %REC **0.00** HighLimit **10.00** RPD **0.00** RPD Limit **10.00** Qual **1**

**Definitions:**

- - Recovery outside QC limits
- DNI - Did not ignite
- M - Matrix Spike Recovery outside limits
- NP - Petroleum Pattern is not present
- I - Represents RSD Limit for Quad Analysis
- B - Analyte found in Method blank
- E - Result exceeds Highest Calibration Standard
- N - Single Column Analysis
- P - Post Spike Recovery outside limits
- RL - Reporting Limit
- D - Diluted due to matrix or extended target compounds
- H - Value Exceeds Maximum Contaminant Level
- NC - Not Calculated
- R - RPD outside recovery limits
- DF - Dilution Factor
- J - Estimated value
- ND - Not Detected at the Reporting Limit

Footnotes: **I** - Represents RSD Limit for Quad Analysis **RL** - Reporting Limit



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# Laboratory Results

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

**CLIENT:** E and E Buffalo Office  
**Work Order:** 0403012  
**Project:** Mr. C's Dry Cleaners

## QC SUMMARY REPORT

Sample Duplicate

### Total Dissolved Solids (TDS) by method 160.1

Sample ID: 0403016-01E Client Sample ID: A27-WL01-01 Units: mg/L  
 Run Batch ID: SARTORIUS\_TDS\_040309A SeqNo: 915049 Analysis Date: 3/9/2004 DF: 1 DL\_No: 1  
 Analyte Type / Name: A Total Dissolved Solids (Residue, Filterable) Result: 166.0 MDL: 10.00 RL: 10.00 Spike Value: 45.00 %REC: 45.00 LowLimit: 040309140R Prep Batch ID: 040309140R Prep Date: 3/9/2004  
 RPD: 115.5 RPD Limit: 20 Qual: R

Test Code: 1\_160.1\_TDS\_W

**Definitions:**

- \* - Recovery outside QC limits
- DNT - Did not Ignite
- M - Matrix Spike Recovery outside limits
- NP - Petrokum Pattern is not present
- B - Analyte found in Method blank
- E - Result exceeds Highest Calibration Standard
- N - Single Column Analysis
- P - Post Spike Recovery outside limits
- D - Diluted due to matrix or extended target compounds
- H - Value Exceeds Maximum Contaminant Level
- NC - Not Calculated
- R - RPD outside recovery limits
- DF - Dilution Factor
- J - Estimated value
- ND - Not Detected at the Reporting Limit
- RL - Reporting Limit

**Footnotes:** 1 - Represents RSD Limit for Quad Analysis



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# Laboratory Results

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

**CLIENT:** E and E Buffalo Office  
**Work Order:** 0403012  
**Project:** Mr. C's Dry Cleaners

## QC SUMMARY REPORT Sample Duplicate

### Total Dissolved Solids (TDS) by method 160.1

Sample ID: **0403054-01D** Client Sample ID: **TW06263** Units: mg/L  
 Run Batch ID: **SARTORIUS\_TDS\_040309A** SeqNo: **915058** Analysis Date: **3/9/2004** DF: **1** DL\_No: **1**  
 Analyte Type / Name: **A Total Dissolved Solids (Residue, Filterable)** Result: **387.0** MDL: **10.00** RL: **10.00** Prep Batch ID: **040309140R** Prep Date: **3/9/2004**  
 %REC: **510.0** HighLimit: **27.4** RPD: **20** RPD Limit: **20** Qual: **R**

Test Code: **1\_160.1\_TDS\_W**

**Definitions:**

- \* - Recovery outside QC limits
- DNT - Did not Ignite
- M - Matrix Spike Recovery outside limits
- NP - Petroleum Pattern is not present
- B - Analyte found in Method blank
- E - Result exceeds Highest Calibration Standard
- N - Single Coburn Analysis
- P - Post Spike Recovery outside limits
- D - Diluted due to matrix or extended target compounds
- H - Value Exceeds Maximum Contaminant Level
- NC - Not Calculated
- R - RPD outside recovery limits
- DF - Dilution Factor
- J - Estimated value
- ND - Not Detected at the Reporting Limit
- RL - Reporting Limit

**Footnotes:** 1 - Represents RSD Limit for Quad Analysis



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# Laboratory Results

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

**CLIENT:** E and E Buffalo Office  
**Work Order:** 0403012  
**Project:** Mr. C's Dry Cleaners

## QC SUMMARY REPORT

Laboratory Control Spike

### Total Dissolved Solids (TDS) by method 160.1

Sample ID **LCS-040309140** Client Sample ID:

Run Batch ID: **SARTORIUS\_TDS\_040309A** SeqNo: **915042** Analysis Date **3/9/2004**

Analyte Type / Name  
A Total Dissolved Solids (Residue, Filterable) Result 403.0

Test Code: **1\_160.1\_TDS\_W**

Units: mg/L

DF: 1 DL\_No: 1

Prep Date **3/9/2004**

Prep Batch ID: **040309140R**

%REC 0  
Orig Result 400.0  
Spike Value 400.0  
LowLimit 80  
HighLimit 120  
RPD RPD Limit<sup>1</sup> Qual

### Definitions:

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

Footnotes: 1 - Represents RSD Limit for Quad Analysis RL - Reporting Limit





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# Laboratory Results

NYS ELAP ID# 10486

Phone: (716) 685-8080

**Client:** E and E Buffalo Office

**Client Sample ID:** AS INFLUENT

**Lab Order:** 0403012

**Alt. Client ID:**

**Project:** Mr. C's Dry Cleaners

**Collection Date:** 3/2/2004 10:16:00 AM % Moist:

**Lab ID** 0403012-01D

**Sample Type:** SAMP

**Matrix:** Water

**Test Code:** 1\_160.2\_TSS\_W

**TOTAL SUSPENDED SOLIDS, NON-FILTERABLE RESIDUE**

**Method:** EPA160.2

**Prep Method:** NA

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Total Suspended Solids (Residue, Non-Filterable)	9.0		4.0	mg/L	1	3/4/2004	SARTORIUS_TSS_040304	LMW

### Definitions:

\* - 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 matrix or extended target compounds

E - Result exceeds Highest Calibration Standard

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit

R - RPD outside recovery limits



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# Laboratory Results

NYS ELAP ID# 10486

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Client: E and E Buffalo Office

Client Sample ID: AS EFFLUENT

Lab Order: 0403012

Alt. Client ID:

Project: Mr. C's Dry Cleaners

Collection Date: 3/2/2004 10:25:00 AM % Moist:

Lab ID 0403012-02D

Sample Type: SAMP

Matrix: Water

Test Code: 1\_160.2\_TSS\_W

TOTAL SUSPENDED SOLIDS, NON-FILTERABLE RESIDUE

Method: EPA160.2

Prep Method: NA

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Total Suspended Solids (Residue, Non-Filterable)	ND		4.0	mg/L	1	3/4/2004	SARTORIUS_TSS_040304	LMW

### Definitions:

\* - 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 matrix or extended target compounds

E - Result exceeds Highest Calibration Standard

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit

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  
**Work Order:** 0403012  
**Project:** Mr. C's Dry Cleaners

## QC SUMMARY REPORT

Method Blank

### Total Suspended Solids (TSS) by method 160.2

Sample ID **MB-040304142** Client Sample ID: **912168** SeqNo: **040304A** Analysis Date **3/4/2004** Spike Value **ND** Orig Result **ND** HighLimit **4.000** LowLimit **4.000** RPD **4.000** Qual **1**  
 Run Batch ID: **SARTORIUS\_TSS\_040304A** SeqNo: **912168** Analysis Date **3/4/2004** Spike Value **ND** Orig Result **ND** HighLimit **4.000** LowLimit **4.000** RPD **4.000** Qual **1**  
 Analyte Type / Name: **A Total Suspended Solids (Residue, Non-Filterable)** Result **ND** MDL **4.000** RL **4.000** Spike Value **ND** Orig Result **ND** HighLimit **4.000** LowLimit **4.000** RPD **4.000** Qual **1**

Test Code: **1\_160.2\_TSS\_W**

Units: **mg/L**

DF: **1** DL\_No: **1**

Prep Date: **3/4/2004**

Prep Batch ID: **040304142R**

%REC

HighLimit

RPD

RPD Limit **1**

Qual

**Definitions:**

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

**Footnotes:** 1 - Represents RSD Limit for Quad Analysis RL - Reporting Limit



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# Laboratory Results

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

**CLIENT:** E and E Buffalo Office  
**Work Order:** 0403012  
**Project:** Mr. C's Dry Cleaners

## QC SUMMARY REPORT

Sample Duplicate

### Total Suspended Solids (TSS) by method 160.2

Sample ID **0403016-01E** Client Sample ID: **A27-WL01-01**  
 Run Batch ID: **SARTORIUS\_TSS\_040304A** SeqNo: **912173** Analysis Date **3/4/2004**  
 Analyte Type / Name  
 A Total Suspended Solids (Residue, Non-Filterable)

Test Code: **1\_160.2\_TSS\_W**  
 Units: mg/L  
 DF: **1** DL\_No: **1**  
 Prep Date **3/4/2004**  
 RPD **23.5** RPD Limit **20** Qual **R**

Prep Batch ID: **040304142R**  
 %REC  
 HighLimit  
 LowLimit  
 Orig Result **15.00**

MDL **4.000**  
 RL **4.000**  
 Spike Value  
 Result **19.00**

**Definitions:**

- \* - Recovery outside QC limits
- DNI - Did not Ignite
- M - Matrix Spike Recovery outside limits
- NP - Petroleum Pattern is not present
- I - Represents RSD Limit for Quad Analysis
- RL - Reporting Limit
- B - Analyte found in Method blank
- E - Result exceeds Highest Calibration Standard
- N - Single Column Analysis
- P - Post Spike Recovery outside limits
- D - Diluted due to matrix or extended target compounds
- H - Value Exceeds Maximum Contaminant Level
- NC - Not Calculated
- R - RPD outside recovery limits
- DF - Dilution Factor
- J - Estimated value
- ND - Not Detected at the Reporting Limit

Footnotes:



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

**CLIENT:** E and E Buffalo Office  
**Work Order:** 0403012  
**Project:** Mr. C's Dry Cleaners

**QC SUMMARY REPORT**  
**Laboratory Control Spike**

**Total Suspended Solids (TSS) by method 160.2**

Sample ID **LCS-040304142** Client Sample ID: **040304142R** Units: mg/L  
 Run Batch ID: **SARTORIUS\_TSS\_040304A** SeqNo: **912169** Analysis Date **3/4/2004** DF: **1** DL\_No: **1**  
 Analyte Type / Name **A Total Suspended Solids (Residue, Non-Filterable)** Result **319.0** MDL **4.000** RL **4.000** Spike Value **288.0** Orig Result **0** %REC **111** LowLimit **80** HighLimit **120** RPD **RPD Limit 1** Qual  
 Test Code: **1\_160.2\_TSS\_W**

**Definitions:**

- \* - Recovery outside QC limits
- DNI - Did not Ignite
- M - Matrix Spike Recovery outside limits
- NP - Petroleum Pattern is not present
- I - Represents RSD Limit for Quad Analysis
- RL - Reporting Limit
- B - Analyte found in Method blank
- E - Result exceeds Highest Calibration Standard
- N - Single Column Analysis
- P - Post Spike Recovery outside limits
- D - Diluted due to matrix or extended target compounds
- H - Value Exceeds Maximum Contaminant Level
- NC - Not Calculated
- R - RPD outside recovery limits
- DF - Dilution Factor
- J - Estimated value
- ND - Not Detected at the Reporting Limit

Footnotes: I - Represents RSD Limit for Quad Analysis RL - Reporting Limit



# Analytical Services Center

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# Laboratory Results

NYS ELAP ID# 10486

Phone: (716) 685-8080

**Client:** E and E Buffalo Office

**Client Sample ID:** AS INFLUENT

**Lab Order:** 0403012

**Alt. Client ID:**

**Project:** Mr. C's Dry Cleaners

**Collection Date:** 3/2/2004 10:16:00 AM % Moist:

**Lab ID** 0403012-01C

**Sample Type:** SAMP

**Matrix:** Water

**Test Code:** 1\_ILM04.1\_CN\_W

**TOTAL CYANIDE BY ILM04.1**

**Method:** ILM04.1\_CN

**Prep Method:** ILM04.1\_CN

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Cyanide	ND		10	µg/L	1	3/12/2004 3:06:48 PM	LACHAT_CN_040312A	LMW

### Definitions:

\* - 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 matrix or extended target compounds

E - Result exceeds Highest Calibration Standard

M - Matrix Spike Recovery outside limits

ND - Not Detected at the Reporting Limit

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:** 0403012

**Alt. Client ID:**

**Project:** Mr. C's Dry Cleaners

**Collection Date:** 3/2/2004 10:25:00 AM % Moist:

**Lab ID** 0403012-02C

**Sample Type:** SAMP

**Matrix:** Water

**Test Code:** 1\_ILM04.1\_CN\_W

**TOTAL CYANIDE BY ILM04.1**

**Method:** ILM04.1\_CN

**Prep Method:** ILM04.1\_CN

Analyte	Result	Q	Limit	Units	DF	Date Analyzed	Run Batch ID	Analyst
Cyanide	ND		10	µg/L	1	3/12/2004 3:09:42 PM	LCHAT_CN_040312A	LMW

**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 exceeds Highest Calibration Standard

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  
**Work Order:** 0403012  
**Project:** Mr. C's Dry Cleaners

## OC SUMMARY REPORT Method Blank

### Total Cyanide by SOW ILM04.1

Sample ID **MB-200401069** Client Sample ID: **917992** Test Code: **1\_ILM04.1\_CN\_W** Units: **µg/L**  
 Run Batch ID: **LACHAT\_CN\_040312A** SeqNo: **917992** Analysis Date: **3/12/2004 3:05:50 PM** Prep Batch ID: **200401069** DF: **1** DL\_No: **1**  
 Analyte Type / Name: **A Cyanide** Result: **ND** MDL: **0** RL: **10.00** Spike Value: **0** Orig Result: **ND** %REC: **0** LowLimit: **0** HighLimit: **0** RPD: **0** RPD Limit<sup>1</sup>: **0** Qual: **0**

**Definitions:**

- \* - Recovery outside QC limits
- DNI - Did not Ignite
- M - Matrix Spike Recovery outside limits
- NP - Petroleum Pattern is not present
- B - Analyte found in Method blank
- E - Result exceeds Highest Calibration Standard
- N - Single Column Analysis
- P - Post Spike Recovery outside limits
- D - Diluted due to matrix or extended target compounds
- H - Value Exceeds Maximum Contaminant Level
- NC - Not Calculated
- R - RPD outside recovery limits
- DF - Dilution Factor
- J - Estimated value
- ND - Not Detected at the Reporting Limit
- RL - Reporting Limit

**Footnotes:** 1 - Represents RSD Limit for Quad Analysis





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# Laboratory Results

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

**CLIENT:** E and E Buffalo Office  
**Work Order:** 0403012  
**Project:** Mr. C's Dry Cleaners

## QC SUMMARY REPORT

Sample Duplicate

### Total Cyanide by SOW ILM04.1

Sample ID: 0403012-01CD Client Sample ID: AS INFLUENT Test Code: 1\_ILM04.1\_CN\_W Units: µg/L  
Run Batch ID: LACHAT\_CN\_040312A SeqNo: 917989 Analysis Date: 3/12/2004 3:07:46 PM Prep Batch ID: 200401069 DF: 1 DL\_No: 1  
Analyte Type / Name: A Cyanide Result: ND MDL: 0 FL: 10.00 Spike Value: 0 %REC: 0 LowLimit: HighLimit: RPD: 0.0 RPD Limit: 20 Qual: 20

#### Definitions:

- \* - Recovery outside QC limits
- DNI - Did not ignite
- M - Matrix Spike Recovery outside limits
- NP - Petroleum Pattern is not present
- B - Analyte found in Method blank
- E - Result exceeds Highest Calibration Standard
- N - Single Column Analysis
- P - Post Spike Recovery outside limits
- D - Diluted due to matrix or extended target compounds
- H - Value Exceeds Maximum Contaminant Level
- NC - Not Calculated
- R - RPD outside recovery limits
- DF - Dilution Factor
- J - Estimated value
- ND - Not Detected at the Reporting Limit

**Footnotes:** 1 - Represents RSD Limit for Quad Analysis RL - Reporting Limit



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# Laboratory Results

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

**CLIENT:** E and E Buffalo Office  
**Work Order:** 0403012  
**Project:** Mr. C's Dry Cleaners

## QC SUMMARY REPORT

Sample Matrix Spike

### Total Cyanide by SOW ILM04.1

Sample ID 0403012-01CS Client Sample ID: **AS INFLUENT** Test Code: 1\_ILM04.1\_CN\_W Units: µg/L  
 Run Batch ID: LACHAT\_CN\_040312A SeqNo: 917993 Analysis Date: 3/12/2004 3:08:45 PM Prep Batch ID: 200401069  
 Analyte Type / Name: A Cyanide Result: 125.4 MDL: 0 RL: 10.00 Spike Value: 100.00 Orig Result: 0 %REC: 125 LowLimit: 75 HighLimit: 125  
 DF: 1 DL\_No: 1 Prep Date: 3/12/2004 RPD: RPD Limit 1 Qual

**Definitions:**

- \* - Recovery outside QC limits
- DNI - Did not Ignite
- M - Matrix Spike Recovery outside limits
- NP - Petroleum Pattern is not present
- B - Analyte found in Method blank
- E - Result exceeds Highest Calibration Standard
- N - Single Column Analysis
- P - Post Spike Recovery outside limits
- D - Diluted due to matrix or extended target compounds
- H - Value Exceeds Maximum Contaminant Level
- NC - Not Calculated
- R - RPD outside recovery limits
- DF - Dilution Factor
- J - Estimated value
- ND - Not Detected at the Reporting Limit
- 1 - Represents RSD Limit for Quad Analysis
- RL - Reporting Limit



**Analytical Services Center**  
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 4493 Walden Avenue  
 Lancaster, New York 14086

a division of  
ecology and environment, inc.

# Laboratory Results

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

**CLIENT:** E and E Buffalo Office  
**Work Order:** 0403012  
**Project:** Mr. C's Dry Cleaners

## QC SUMMARY REPORT

### Initial Calibration Verification Standard

#### Total Cyanide by SOW ILM04.1

Sample ID **ICV-200401069-1\_917991** Client Sample ID: **917991** Test Code: **1\_ILM04.1\_CN\_W** Units: **µg/L**  
 Run Batch ID: **LACHAT\_CN\_040312A** SeqNo: **917991** Analysis Date **3/12/2004 3:01:58 PM** Prep Batch ID: **200401069** DF: **1** DL\_No: **1**  
 Analyte Type / Name: **A Cyanide** Result: **0.4188** MDL: **0** RL: **10.00** Spike Value: **0.4000** Orfg Result: **0** %REC: **105** LowLimit: **85** HighLimit: **115** Prep Date: **3/12/2004** RPD: **RPD Limit 1** Qual: **Qual**

**Definitions:**

- Recovery outside QC limits
- DNI - Did not ignite
- M - Matrix Spike Recovery outside limits
- NP - Petroleum Pattern is not present
- B - Analyte found in Method blank
- E - Result exceeds Highest Calibration Standard
- N - Single Column Analysis
- P - Post Spike Recovery outside limits
- D - Diluted due to matrix or extended target compounds
- H - Value Exceeds Maximum Contaminant Level
- NC - Not Calculated
- R - RPD outside recovery limits
- DF - Dilution Factor
- J - Estimated value
- ND - Not Detected at the Reporting Limit

Footnotes: 1 - Represents RSD Limit for Quad Analysis RL - Reporting Limit