ecology and environment engineering, p.c.



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January 9, 2014

Mr. William Welling, Project Manager New York State Department of Environmental Conservation Division of Environmental Remediation 625 Broadway, 12th Floor Albany, New York 12233 - 7013

Re: Mr. C's Dry Cleaners Site, Contract # D007617, Site # 9-15-157 December 2013 Operations, Maintenance, and Monitoring Report

Dear Mr. Welling:

Ecology and Environment Engineering, P.C. (EEEPC) is pleased to provide the December 2013 Operations, Maintenance, and Monitoring (OM&M) Report for the Mr. C's Dry Cleaners Site, NYSDEC Site # 9-15-157, located in East Aurora, New York. Copies of bimonthly inspection reports prepared by EEEPC's subcontractor, lyer Environmental Group, PLLC (IEG), are provided in <u>Attachment A</u>. Selected pages from the individual analytical data packages prepared by Spectrum Analytical Inc. (SAI), Warwick, Rhode Island are provided as <u>Attachments B</u>. The full analytical reports along with QA/QC information will be retained by EEEPC.

In review of the on-site treatment system operations, monitoring and maintenance for December 2013, EEEPC offers the following comments and highlights:

Operational Summary

Mr. C's Site - Remedial Operations Information

- Checklists for system inspections from IEG are provided as <u>Attachment A</u> for 12/02/13, 12/16/13, and 12/31/13. Based on inspection reports prepared by IEG, the remedial treatment system for the period above had a 89.66% operational uptime (<u>Table 1</u>) and the treatment of contaminated groundwater during that period totaling of 263,743 gallons (<u>Table 2</u>) for December 2013.
- Compliance samples were taken on December 10, 2013 (Attachment B) and the analytical results received on December 13, 2013 from SAI. The results comply with the daily maximum effluent discharge criteria requirements in the site specific SPDES Equivalency Permit (<u>Table 3</u>). Methyl tert-butyl ether was not detected in this month's influent sample. Cis-1,2,-dichloroethene, trichloroethene, and tetrachloroethene were detected at above criteria concentrations in the influent sample.

- The analytical results of the sample revealed the total volatile organic contaminant concentrations of the influent to be 345.0 µg/L or 345.0 ppb. Treated effluent has no detectible concentrations for any of the contaminants of concern. The summary of influent and effluent contaminant concentrations for the December 2013 sampling is presented in Table 4.
- The Mr. C's treatment system based on the total monthly flows has effectively removed 0.76 lb. of targeted contaminants from the groundwater below the site in the month of December 2013 and the cleanup effectiveness was 100%. The calculations and data for the month are presented in <u>Table 5</u>.
- Other System Work performed
 - o Bag filters were changed on December 9, 2013;
 - o Agway shed removal;
 - Agway shed equipment was dropped off at NYSDEC South Cairo (McKenna Landfill) site on December 4, 2013.
 - AS/SVE equipment dropped off at the American Thermostat site in NYSDEC Region 4 on December 6, 2013.
 - o IEG provided snow removed from front of Treatment Room and responded to AutoAlarm on December 28, 2013.
 - o The system was down from December 28, 2013 to December 30, 2013 due to power outage and local area electric line problems. The system was restarted on December 31, 2013.
 - o Equipment procured for the installation of a subslab depressurization unit in the Mr. C's treatment building. Installation and operations to be completed in January 2014.

Mr. C's Site - Property Information

Contact information regarding the property owner and party leasing the Mr. C's building was provided to the NYSDEC. The information provided is as follows: Property owner (586 Main Street) – DelTora LLC – Owner - Mr. Paul Bendrowski – 231-313-1954 (Traverse City, MI) – Local Point of Contact – Bob Kowal - . Property Lease – Intrepid Automotive Partners – Dave Kern – 716-481-5703 (East Aurora, NY).

Agway Site Remedial Information

 Agway SVE shed and ancillary equipment disassembled and removed during December 2013.

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

- Site inspection of the church facility on February 20, 2013, revealed that the south SSDS unit was shut off. System was switched back on by field staff. EEEPC to review changing of the switch for this fan to provide uninterrupted operations.
- Property owners at 27 Whaley Ave. have not returned our calls for inspection of the SSDS unit. EEEPC will continue to contact to obtain access for inspection.

Bioaugmentation Direct Push Injection Work

- Procurement for obtaining a direct push subcontractor was performed in March 2013. The successful bidder was Nature's Way Environmental, Alden, NY.
- Part 1 of the bio-augmentation direct push injection work was performed by Nature's Way from May 20, through 31, 2013. Part 1 of the program was the injection of the Regenesis HRC primer and 3-D Microemulsion. Oversight of the first for program performance and quality assurance of the scope of work was provided by EEEPC.
- The 1st progress monitoring sampling of the groundwater wells associated with the "pilot" bioaugmentation program was performed on July 1-2, 2013.
- Pumping Wells PW-5 and PW-7 still remain temporarily turned off due to close proximity to the injection locations of the "pilot" bio-augmentation program.
- Monthly monitoring and analyses to be performed for eight months to evaluate
 the effectiveness of the "pilot" installation on the groundwater from the local area
 monitoring wells. Interim status reports to be performed and issued by EEEPC.
- The second phase of the bio-injections (BDI Plus) was completed July 15-19, 2013. It is estimated to take a week to complete.
- The 2nd progress monitoring sampling of the groundwater wells associated with the "pilot" bioaugmentation program was performed on August 8-9, 2013.
- Status report on the performance of the "pilot" bio-augmentation program was issued to NYSDEC on August 29, 2013. Report evaluated the baseline sampling plus the two rounds of monthly monitoring.
- The monthly status sampling was performed on September 9 & 10, 2013.
- The monthly status sampling was performed on October 22-23, 2013.
- The monthly status sampling was performed on November 20-21, 2013.
- The updated performance report regarding the bioaugmentation work was issued on December 5, 2013.
- December sampling could not be performed due to high snow and freezing weather conditions occurring around the site.

Mr. C's and Agway Energy Usage Information

• A copy of the site utility costs from the Mr. C's remedial operations for January through December 2013 are provided as <u>Attachment C.</u>

Soil Vapor Intrusion Investigation Program

- Soil vapor intrusion investigation, surveys, and sampling were performed at three out four properties surrounding the Mr. C's site on March 6, 7, and 20, 2013. The three properties included the Mr. C's Indoor Air (586 Main Street), The Brownschidle building (578-580 Main Street), and the Doeing Building (572-576 Main Street. The Pitt property (19 Whaley Avenue) would not allow access.
- Analytical results have been received for all three locations and a final validated report was delivered to NYSDEC and NYSDOH on May 7, 2013.
- Letters issued from NYSDOH (May 28, 2013) to the property owners at 578-580 Main Street and 572-576 Main Street regarding the need to install mitigation systems on the property. Further discussions regarding the installation of the mitigation system will be performed with the NYSDEC PM.

- Field measurements of the basements at 578 Main Street and 572 Main Street for the installation of the SSDS units were performed by EEEPC engineering personnel in July and August. Drawings under internal review for submission to NYSDEC and the installation of SSDS units by the NYSDEC's proposed callout contractor.
- Letters for Phase 2 SVII issued by NYSDEC on December 18, 2013 to twelve properties around the Mr. C's site. EEEPC will begin contacting the property owners to schedule soil vapor intrusion investigation work and testing.

Site Management Plan

- Issued the draft Site Management Plan (SMP) on December 28, 2012 for review and comment. The SMP was revised to be consistent with the new NYSDEC template format.
- Issued the final Mr. C's SMP on December 4, 2013.

If you have questions regarding the December 2013 OM&M report summary, please do not hesitate to contact me at 716-684-8060.

Very Truly Yours,

Ecology and Environment Engineering, P. C.

Michael G. Steffan Project Manager

cc: D. Szymanski, Region 9, NYSDEC - Buffalo w/ attachments

D. Iyer, IEG – w/attachments CTF- EN-003229-0001-03TTO

Michael J. Steffan

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

Month	Reporting Hours	Operational Up- time
(Up-time from inception to 12/31/12)	87,871.50	96.63%
January 7, 2013 - February 4, 2013	576	85.71%
February 4, 2013 - March 4, 2013	594	88.39%
March 4, 2013 - April 3, 2013	720	100.00%
April 3, 2013 - May 6, 2013	792	100.00%
May 6, 2013 - June 3, 2013	672	100.00%
June 3, 2013 - July 1, 2013	672	100.00%
July 1, 2013 - August 14, 2013	648	61.36%
August 14, 2013 - September 5, 2013	528	100.00%
September 5, 2013 - September 30, 2013	600	100.00%
September 30, 2013 - November 4, 2013	840	100.00%
November 4, 2013 - December 2, 2013	672	100.00%
December 2,2013 - December 31,2013	624	89.66%
Total Hours from System Startup '2/02'	95,809.50	
Average Operational Up-tin	96.26%	
Average Operational U	92.39%	

NOTES:

- 1. Up-time based as percentage of total reporting hours.
- 2. Treatment system operated by the Tyree Organization Ltd. from 9/02 9/03.
- Treatment system operated by O&M Enterprises Inc. from 10/03 7/07.
 Treatment system operated by Iyer Environmental Group from 7/07 to present.

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

Monthly Process Water Volumes

Month	Actual Period	Gallons (Treated Effluent)
Total - Inception to December 2012	9/5/02 - 12/4/12	118,436,077
January 2013 ³	1/7/13 - 2/4/13	261,527
February 2013 ³	2/4/13 - 3/4/13	242,509
March 2013 ³	3/4/13 - 4/3/13	321,888
April 2013 ³	4/3/13 - 5/6/13	398,999
May 2013	5/6/13 - 6/3/13	304,452
June 2013	6/3/13 - 7/1/13	238,715
July 2013	7/1/13 - 8/14/13	255,356
August 2013	8/14/13 - 9/5/13	188,701
September 2013	9/5/13 - 9/30/13	211,448
October 2013	9/30/13 - 11/4/13	317,639
November 2013	11/4/13 - 12/2/13	262,044
December 2013	12/2/2013 -12/31/2013	263,743
Total	Gallons Treated in 2013	3,267,021
Total Gallo	ns Treated To Date:	121,703,098

NOTES:

- System operated by Tyree Organization Ltd. From 9/02 9/03.
 System operated by O&M Enterprises from 10/03 7/07.
 System operated by IEG PLLC from 7/07 present.

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

Effluent Discharge Criteria & Analytical Compliance Results

	Dally Maximum ^I	Units	December 13, 2013 - Effluent Analytical Values - Compliance
Parameter/Analyte Flow	N/A	gpd	10,144
Ph	6,0 - 9.0	standard units	8.30
1,1 Dichloroethene	10	μg/L	ND(<1.0)
1,1 Dichloroethane	10	μg/L	ND(<1.0)
cis-1,2-dichloroethene	10	μg/L	ND(<1.0)
Trichloroethene	10	μg/L	ND(<1.0)
Tetrachloroethene	10	μg/L	· ND(<1.0)
Vinyl Chloride	10	μg/L	ND(<1.0)
Benzene	5	μg/L	ND(<1.0)
Ethylbenzene	5	μg/L	ND(<1.0)
Methylene Chloride	10	μg/L	ND(<1.0)
1,1,1 Trichloroethane	10	μg/L	ND(<1.0)
Toluene	5	μg/L	ND(<1.0)
Methyl-t-Butyl Ether (MTBE)	NA	ug/L	ND(<1.0)
o-Xylene ²	5	μg/L	NA
m, p-Xylene ²	10	μg/L	NA
Total Xylenes	NA	ug/L	ND(<1.0)
Iron, total	600	µg/L	NA ⁹
Aluminum	4,000	μg/L	NA ⁹
Copper	48	µg/L	NA ⁹
Lead	11	μg/L,	NA ⁹
Manganese	2,000	ւլջ/ե	NA ⁹
Silver	100	µg/L	NA ⁹
Vanadium	28	µg/L	NA ⁹
Zinc	230	μg/L	NA ⁹
Total Dissolved Solids	850	mg/L	NA ⁹
Total Suspended Solids	20	mg/L	NA ⁹
Hardness	N/A	mg/L	420
Cyanide, Free	10	μg/L	NA ⁹

NOTES:

- I. "Daily Maximum" excerpted from Attachment E of Addendum 1 to the Construction Contract Documents dated October 2000.

 2. Analytical report did not differentiate between o-Xylene and m, p-Xylene. Total Xylene value reported is given in each line.

 3. Shaded cells indicate that analytical value exceeds the "Daily Maximum."

 4. "ND" indicates that the compound was not detected and lists the practical quantitation limit in parentheses.

 5. "NA" indicates that analyses were not performed and data is unavailable.

 6. Average flows based on effluent readings December 2nd, 2013 through December 31st, 2013. Total gallons: 263, 743 divided by 29 operating days.

 7. "J" ipdicates an estimated value below the detection limit.

 8. "B" indicates analyte found in the associated blank.

 9. Removed from the required analysis list by NYSDEC Region 9 in February 2005.

Table 4 Mr. C's Dry Cleaners Site Remediation **NYSDEC Site #9-15-157 December 2013 VOC Analytical Summary**

	Based on the 12/10/13 Effluent Sampling Results					
	Influent		Efflue	ent	Cleanup	
Compound	Concenti	ration*	Concentr	ation*	Efficiency**	
	(ug/l	L)	(ug/l	L)	(%)	
Acetone	ND (<5.0)	U	ND (<1.0)	U	NA NA	
Benzene	ND (<1.0)	U	ND (<1.0)	U	NA	
2-Butanone	ND (<5.0)	U	ND (<5.0)	U	NA	
cis-1, 2-Dichloroethene	30		ND (<1.0)	U	100.00%	
Chloroform	ND (<1.0)	U	ND (<1.0)	U	NA	
Methylene chloride	ND (<1.0)	U	ND (<1.0)	U	NA	
Methyl tert-butyl ether (MTBE)	ND (<1.0)	U	ND (<1.0)	U	NA NA	
Tetrachloroethene (PCE)	300.0		ND (<1.0)	U	100.00%	
Toluene	ND (<1.0)	U	ND (<1.0)	U	NA	
Trichloroethene (TCE)	15.0		ND (<1.0)	U	100.00%	
Carbon Disulfide	ND (<1.0)	U	ND (<1.0)	U	NA	
1,1,2 Trichloro-1,2,2-trifluororethane	ND (<1.0)	U	ND (<1.0)	U	NA	
Cyclohexane	ND (<1.0)	U	ND (<1.0)	U	NA	
trans-1,2-dichloroethene	ND (<1.0)	U	ND (<1.0)	U	NA	
Chlorobenzene	ND (<1.0)	U	ND (<1.0)	U	NA	
Methylcyclohexane	ND (<1.0)	U	ND (<1.0)	U	NA	
Methyl acetate	ND (<1.0)	U	ND (<1.0)	U	NA	
Total Xylenes	ND (<1.0)	U	ND (<1.0)	U	NA	
The 1 st progress monitoring						
sampling of the groundwater wells						
associated with the "pilot"						
bioaugmentation program was performed on July 1-2, 2013.	345.0		0.00		100.00%	

Notes:

"NA" = Not applicable
 "U" = Compound analyzed, but was not detected. Detection limit in parentheses.

- "DJ" or "J" indicates an estimated value below the practical quantitation limit but above the method detection limit.
 Non-detect values are assumed to be equal to zero for calculation of monthly average concentrations.
 "D" indicates the compound concentration was obtained form a secondary dilution analysis.

- 6. Acetone was not detected in the influent sample but detected in the effluent sample below quantitation limits (J qualifier) due to laboratory contamination. It is not a contaminant of concern.
- * (<50) Detection Limit
- ** Contaminants of Concern only

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

Monthly VOCs Removed From Groundwater

Month	Actual Period	Influent VOCs	Effluent VOCs	VOCs Removed
		(μg/L)	(μg/L)	(lbs.)
Total pounds	of VOCs removed from i	nception to Decei	nber 2012 =	1556.45
January 2013	01/7/13 - 2/4/13	1094.9	0.91	2.39
February 2013	2/4/13 - 3/4/13	1112.2	12.44	2.23
March 2013	3/4/13 - 4/3/13	1306.0	23.65	3.44
April 2013	4/3/13 - 5/6/13	1744.0	5.80	5.79
May 2013	5/6/13 - 6/3/13	1097.0	10.00	2.76
June 2013	6/3/13 - 7 /1/13	103.1	6.87	0.19
July 2013	7/1/13 - 8/14/13	144.6	1.50	0.30
August 2013	8/14/13 - 9/5/13	117.6	2.12	0.18
September 2013	9/5/13 - 9/30/13	233.0	0.00	0.41
October 2013	9/30/13 - 11/4/13	407.1	2.40	1.08
November 2013	11/4/13 - 12/2/13	363.0	0.00	0.79
December 2013	12/2/13 -12/31/13	345.0	0.00	0.76
	1,576.78			
	20.33			

HISTORICAL NOTES:

- 1. Calculations are based on monthly water samples and assumes samples are representative of the entire reporting period.
- Calculations assume that non-detect values = 0 ug/L.
 Total VOCs summations include estimated "J" values.
- 4. Calculations are based on effluent totalizer readings.
 5. "Influent VOCs" and "Effluent VOCs" values given above is the summation of values for individual compounds given in monthly analytical reports.
- 6. 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 7/07.
- 8. Treatment system operated by IEG from 7/07 to present.

CONVERSIONS:

1 pound = 453.5924 grams

1 gallon = 3.785 liters

Based on the Analytical Results from Each Month:

Pounds of VOCs removed calculated by the following formula:

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

Attachment A IEG Weekly Inspection Reports December 2013

Including:

12/2/13

12/16/13

12/31/13

NYSDEC Site #9-15-157

OM&M: SITE INSPECTION FORM

DATE:	2-Dec-1	13	ACTIVITIES:	Site Inspection		
INSPEC	TION PERSONNEL	R. Ailen		OTHER PERSONNEL	: Ramsey Renova	ntions
WEATH	ER CONDITIONS:	Cloudy, cool			OUTSIDE TE	MPERATURE (° F): 34
	ELL PUMPS OPERA	ATING IN AUTO:	YES:			explanation below
		o maintenance prob				
	PW-5 and PW-7 ar	e OFF due to injection		EL READINGS ON CO	NTPOL PANEL	
RW-1	ON:	1	7 ft		: OFF:	12 n
PW-2						" √ 65507 ft
PW-3		off: <u>√</u>	7 ft		: OFF:	
PW-4	on:√	OFF:	ft	PW-8 ON	:OFF:	<u>√</u> <u>6</u> #
	EQUA	ALIZATION TANK: _	<u>5</u> ft	Last Alarm D	T/Condition: 11/27/13 Air Stri	pper Low Air
INFL	JENT FLOW RATE:	2	4gpm	INFLUENT TOTALIZE	R READING 1,13	3,409.0 gallons
SE	QUESTERING AGE	NT DRUM LEVEL: _	24 inches	(x 1.7=) A	MOUNT OF AGENT REMAIN	ING: 41 gallons
S	SEQUESTERING AG	ENT FEED RATE: _	4.0 ml/min		METERING PUMP PRESS	<i>URE:</i> psi
• •• •• ••	BAG FILTER PRE	ssures:	Top LEFT: 0	Bottom 0 psi	RIGHT: 11	op Bottom -7 0 psi
INFL	UENT FEED PUMP	IN USE: #1	√ #2	INFLUE	NT PUMP PRESSURE:	13 psi
	STRIPPER BLOWE				TRIPPER PRESSURE:	
AIR STI	RIPPER DIFFERENT	TIAL PRESSURE: _	<u> </u>	_in. H ₂ O	CHARGE PRESSURE:	In. H₂O
EFFLU	ENT PUMP IN USE:	#1	#2	EFFLUENT FE	ED PUMP PRESSURE:	4.0 psi
EFFLU	IENT FLOW RATE:	118gpm	EFFLUENT	TOTALIZER READING	73,018,585	544450 gallons
ARE B	JILDING HEATERS	IN USE? YES:		:	INSIDE TE	MPERATURE (° F): 60
IS SU	IMP PUMP IN USE:	YE\$: <u>√</u>	NO:	_ ARE ANY LEAKS	PRESENT? YES:	NO:
WATE	R LEVEL IN SUMP:	6.0 in.	TREATMENT E	BUILDING CLEAN & OF	RGANIZED? YES:	<u>√</u> NO:

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

SITE INSPECTION FORM

								2-Dec-13
SAMPLES COLLECTED	? YES:	NO:^	√Time of Sampling	pł	l Turbidity	Temp.	Sp. Cond.	
AIR STRIPPER	INFI LIENT:							
AIR STRIPPER I								_
IS THERE EVID	ENCE OF TAMPER	NG/VANDALIS#	OF WELLS: ?	YES:	NO:		•	
	W	ERE MANHOLES	S INSPECTED?	YES:	NO:		<u>-</u>	
WERE ELECTRICAL BOXES INSPECTED? YES: NO:								
IS WATER PRESENT IN ANY MANHOLES OR ELECTRICAL BOXES? YES: NO:								
	if yes, provide man	hole/electric box	ID and description of a	ny corrective n	reasures below:			
·~~~~~								
INCL	UDE REMARKS & D	ESCRIBE ANY	OTHER SYSTEM MAI	NTENANCE P	ERFORMED O	I MR. C's	SITE	
Remarks: Ball val	ve near Equalizer T	ank has slow le	ak.					
Air Strip	per exhaust leaks.							
Other Actions:								
						-		
								
			AGWAY					
SYSTE	M VACUUM:	in. F	ł ₂ O	A	R PRESSURE:			psi
SP-1:	scfm	_ psl	SP-5		scfm		_psi	
SP-2:	scfm	psi	SP-6		scfm		_psi	
SP-3:	scfm	psi	SP-7		scfm		psi	
SP-4:	scfm	psi	SP-8		scfm		_psi	
<u></u>								
			OTHER SYSTEM MAI	NTENANCE P	ERFORMED OF	I AGWAY	SITE	
Remarks: Agway	Shed equipment is	demobilized.						
Other Actions: Deliver								
Prepare	ed shed for transpo	rt. Transported	shed to Waste Mana	agement of Ne	w York - Albio	Դ		

NYSDEC Site #9-15-157

OM&M: SITE INSPECTION FORM

DATE: 16-Dec-13	ACTIVITIES:	Site inspection		
INSPECTION PERSONNEL: R. Allen		OTHER PERSONNEL:		
WEATHER CONDITIONS: Partly cloudy, cold			OUTSIDE TEMPERATURE (° F):	
ARE WELL PUMPS OPERATING IN AUTO: PW-6 is OFF due to maintenance proble		No:√	if "NO", provide explanation below	
PW-5 and PW-7 are OFF due to injection	operation.			
PROVI	DE WATER LEV	EL READINGS ON CONTROL PANI	EL	•
RW-1 ON: OFF:	8 ft	PW-5 ON: √	OFF: 12	_ft
PW-2 ON: OFF:	<u>5</u> ft	PW-6 ON:	off: √ 65507	_ft
PW-3 ON: OFF:	<u>4</u> ft	PW-7 ON: √	OFF: 13	_ft
PW-4 ON:	7ft	PW-8 ON:	OFF:	ft
EQUALIZATION TANK:	<u>5</u> ft	Last Alarm D/T/Condition:	12/10/13 Air Stripper Low Level	
INFLUENT FLOW RATE: 52	gpm	INFLUENT TOTALIZER READING	1,342,311.0	gallons
SEQUESTERING AGENT DRUM LEVEL:	15 Inches	(x 1.7=) AMOUNT OF A	AGENT REMAINING: 25.5	_gallons
SEQUESTERING AGENT FEED RATE:	4.0 ml/mln	METERING	PUMP PRESSURE: 4.0	_psi
	Тор	Bottom	Top Bottom	
BAG FILTER PRESSURES:	LEFT: 0	0 psl RIGHT:	6 0	_psl
INFLUENT FEED PUMP IN USE: #1	<u>√</u> #2	INFLUENT PUMP PF	RESSURE: 13	_psi
AIR STRIPPER BLOWER IN USE: #1	√ #2	2 AIR STRIPPER PF	RESSURE: 32.0	in. H₂O
AIR STRIPPER DIFFERENTIAL PRESSURE:	0.16		RESSURE: 0.4	in. H₂O
EFFLUENT PUMP IN USE: #1	#2 V	EFFLUENT FEED PUMP PF	RESSURE: 4.0	 psi
EFFLUENT FLOW RATE: 120 gpm	EFFLUENT	TOTALIZER READING:	731,504 677230	gallons
ARE BUILDING HEATERS IN USE? YES:	√ NO	·	INSIDE TEMPERATURE (° F):	56
IS SUMP PUMP IN USE: YES: √	NO:	ARE ANY LEAKS PRESENT?	YES: <u>√</u> NO	:
WATER LEVEL IN SUMP: 6.0 in.	TREATMENT	BUILDING CLEAN & ORGANIZED?	YES: <u>√</u> NO	:

NYSDEC Site #90150157

SITE INSPECTION FORM

								1	6-Dec-13
SAMPLES COLLECTED?	YES:	NO: √	Time of Sampling		рН	Turbidity	Temp.	Sp. Cond.	
AIR STRIPPER IN	FLUENT:								
AIR STRIPPER EF			<u> </u>	****					_
IS THERE EVIDEN	ICE OF TAMPER	ING/VANDALIS M (OF WELLS: ?	YES:_		_ NO:_			
	W	ERE MANHOLES I	NSPECTED?	YES:_	_√_	_ NO:			
	WERE ELE	CTRICAL BOXES I	NSPECTED?	YES:_	_√	_ NO:_			
IS WATER PRESENT	IS WATER PRESENT IN ANY MANHOLES OR ELECTRICAL BOXES? YES: NO:								
ı	f yes, provide mar	hole/electric box ID	and description of a	лу соптес	tive meas	sures below:			
Most MWs and UEs are cove	red with ice and s	now.							
INCLUE	E REMARKS & I	DESCRIBE ANY OT	THER SYSTEM MAI	NTENANO	CE PERI	ORMED ON	MR. C's S	ITE	
Remarks: Ball valve	near Equalizer T	ank has slow leak							
	r exhaust leaks.								
Other Actions: Shoveled	snow in front of	reatment Room.							•
•									
			A (014/A)/						
			AGWAY						
	·	in. H ₂ C			AIR P	RESSURE:			_ psi
SP-1:	scfm	psi	SP-5		scfn	١ _		psi	
SP-2:	scfm	psi	SP-6		scfn	1 <u>-</u>		psi	
SP-3:	scfm	psi	SP-7	<u>.</u>	scfn	١ _		psi	
SP-4:	scfm	psi	SP-8	<u>.</u>	scfn	1 _		psi	
	E DENADVE .	ECODIDE ANV OF	HER SYSTEM MAI			OPMEDON	AGMAY 9		
			wood exclosure re			ORMED ON	AGWATS	0116	
INVITION TO SECURITY OF SECURI	mer, ove pipes,	ovo hihes gua bil	Auroda exclosine to	arriairi Off	31C.		· · · · ·		
Other Actions:									
Other Actions:					•				
									

NYSDEC Site #9-15-157

OM&M: SITE INSPECTION FORM

DATE: 31-Dec-13	ACTIVITIES:	Site inspection		<u>.</u>
INSPECTION PERSONNEL: R. Allen		OTHER PERSONNEL:		
WEATHER CONDITIONS: Snow, cold			OUTSIDE TEMPERATURE (° F):	20
ARE WELL PUMPS OPERATING IN AUTO:		No:	f "NO", provide explanation below	,
PW-6 is OFF due to maintenance proble				
PW-5 and PW-7 are OFF due to injection PROVI		EL READINGS ON CONTROL PANE	L	
RW-1 ON: OFF: √	6 ft	PW-5 ON: √	OFF: 13	_ft
PW-2 ON: OFF: √	7_ft	PW-6 ON:	off: √ 65507	_ft
PW-3 ON: OFF:	3_ft	PW-7 ON:√	OFF: 14	_ft
PW-4 ON: OFF:	ft	PW-8 ON:	off: √ <u>5</u>	_ft
EQUALIZATION TANK:	<u>5</u> ft	Last Alarm D/T/Condition:	12/30/13 Air Stripper Influent #1 Ove	erload
INFLUENT FLOW RATE: 13	gpm	INFLUENT TOTALIZER READING	1,549,981.0	gallons
SEQUESTERING AGENT DRUM LEVEL:		(x 1.7=) AMOUNT OF A	AGENT REMAINING: 17 PUMP PRESSURE: 3.0	_gallons _psi
BAG FILTER PRESSURES:	Top	Bottom 0 psl RIGHT:	Top Bottom 14 - 7 0	_psi
INFLUENT FEED PUMP IN USE: #1	<u>√</u> #:	2 INFLUENT PUMP PR	nessure: 13	_psi
AIR STRIPPER BLOWER IN USE: #1_ AIR STRIPPER DIFFERENTIAL PRESSURE:				_in. H₂O _in. H₂O
EFFLUENT PUMP IN USE: #1		EFFLUENT FEED PUMP PR		_psi 0 gallons
ARE BUILDING HEATERS IN USE? YES:	√ NO):	INSIDE TEMPERATURE (° F)	: 58
IS SUMP PUMP IN USE: YES: _ √	NO:	ARE ANY LEAKS PRESENT?	YES: NO):
WATER LEVEL IN SUMP: 6.5 in.	TREATMENT	BUILDING CLEAN & ORGANIZED?	YES: <u>√</u> NO):

NYSDEC Site #90150157

SITE INSPECTION FORM

Sample ID Time of Samp	ling pH	Turkidih		,
	-	Turbluity	Temp.	Sp. Cond.
AIR STRIPPER INFLUENT:			<u></u> .	·····
AIR STRIPPER EFFLUENT:				
IS THERE EVIDENCE OF TAMPERING/VANDALISM OF WELLS: ?	YES:	NO:	√	
WERE MANHOLES INSPECTED?	YES: √			•
WERE ELECTRICAL BOXES INSPECTED?	YES: <u>√</u>	NO:_		
IS WATER PRESENT IN ANY MANHOLES OR ELECTRICAL BOXES?	YES:	NO:	_√	
if yes, provide manhole/electric box ID and descriptio	n of any corrective me	asures below:		
ost MWs and UEs are covered with snow.				
ther Actions:				
AGWA		ppessine.		psi
SYSTEM VACUUM: in. H₂O SP-1: psl SP-5		_		
		fm		-
		fm		psi
		fm		psi
SP-4:scfmpsi SP-8		 		
INCLUDE REMARKS & DESCRIBE ANY OTHER SYSTEM	M MAINTENANCE PE	RFORMED ON	I AGWAY	SITE
Remarks: Electric Panel, SVE pipes, SAS pipes and plywood exclos	sure remain on site.			
The same of the sa				

Mr. C's CLEANERS OM&M

SUMMARY OF FIELD ACTIVITIES BY IEG - 12/2013

DATE	ACTIVITY
, 2-Dec	OM&M Weekly Inspection and office work. Pickup NYSDEC filters at Niagara St site.
3-Dec	Load Niagara St site filters and Agway Shed equipment into rented cargo van. Drop off NYSDEC filters at Vestal, NY site. Drive to E. Durham, NY.
4-Dec	Drop off Agway Shed equipment at NYSDEC South Cairo site. Return cargo van to Orchard Park, NY.
5-Dec	Prepare Agway Shed for transport. End of month summaries.
6-Dec	Load Agway Shed onto rented trailer. Drop off shed at NYSDEC Albion site. Return rented pickup truck and trailer to Orchard Park, NY
9-Dec	OM&M Weekly Inspection. UM office work.
10-Dec	Sampling. Change bag filters. Instal vent cover over man door.
12-Dec	UM office work
15-Dec	Empty drip buckets. Shovel snow in front of Treatment Room.
16-Dec	OM&M Weekty Inspection.
18-Dec	OM&M office work.
19-Dec	Empty drip buckets. Shovel snow in front of Treatment Room. Get snow plowing information.
23-Dec	OM&M Weekly Inspection. Change bag filters. Shovel snow off of MWs. Get supplies.
24-Dec	OM&M office work.
27-Dec	Empty drip buckets. Shovel snow in front of Treatment Room. Install repaired wheel onto Dolly.
28-Dec	Respond to AutoAlarm.
30-Dec	Restart system
31-Dec	OM&M Weekly Inspection. Shovel snow off of MWs. End of month summaries.

Mr. C's CLEANERS OM&M STATUS OF FIELD ACTIVITIES BY IEG - 12/2013

ACTIVITY	DESCRIPTION	COMPLETION DATE/STATUS
PW-4 Well Repair and Level	Asphalt around PW-4 well has sunk, due to collapse of corroded inner ring. Replace inner ring and bring parking lot up to level with asphalt patch.	Aug-13
PW-4 UE Level	Asphalt around Underground Enclosure has sunk, leaving it vulnerable to damage. Bring parking lot up to level with asphalt patch.	in progress
Rebuild JAC Pump as needed	Jesco America Corp recommends rebuilding the Redux pump when needed. Purchased rebuild kit.	in progress
Brace Effluent Pipe	David Szymanski (NYSDEC) inspected Treatment Room and said that the effluent pipe should be braced in (3) places to the north wall.	in progress
Inspect and clean Manholes	Inspect manholes near operating pumps. Pump out water in manholes and clean out remaining sediment and other material.	in progress
Trim Broken Piezometers	Many of the piezometers are broken. Measuring water levels is not precise when a pipe is broken. Identify and trim all broken piezometers.	in progress
Cool Treatment Room	Temperature in Treatment Room is well above 90 degrees during the summer months. Need to increase outside air inflow to the room.	in progress
Replace Air Stripper Exhaust	Present Air Stripper exhaust is very heavy and leaks moisture. Replace with lighter system.	in progress
Demobilize Agway Shed	Remove all equipment from shed and deliver to owner/recycle/dispose as needed; dismantle electrical installations; disassemble/remove shed structure/base.	in progress
PW-7 pitless adapter	Pitless adapter does not seal well. Repair or replacer pitless adapter	in progress
PW-8 pitless adapter	Pitless adapter feels brokent/does not seal well. Repair/replace pitless adapter	in progress
Blower #2 makes loud noise	Fan seems to have slipped off of the motor shaft. Disassemble, inspect and repair.	in progress
PW-6 pumping into itself	Water enters well when well pump is running. Suspect faulty check valve. Test and repair as needed.	in progress
Dispose Open Top Sludge Drum	Plastic 55 gal drum with open top is almost full of sludge. Dispose of drum to free up space in the cramped Treatment Room.	in progress
Dispose used Bag Filters	There are (2) Metal 55 gal drums filled with used bag filters. Dispose of both drums and get new drum to store used bag filters.	in progress
Filter Housings are corroded	Flanges that seal filter baskets inside Rosedale Filter Housings are corroded. Sediment flows around filters instead of being trapped. Replace seals in existing housings (short term). Replace housings (long term).	in progress
Teardown Air Stripper and clean	Sediment bypass from corroded filter housings has plugged lower tray of Air Stripper. Tear down and clean.	Jul-13
Move Effluent Pipe	Effluent pipe blocks the access ports of Tray #2. Air Stripper cleaning through these access ports is compromised. Lower effluent pipe 8" to clear the ports.	Jul-13
Replace Air Stripper Latches	Around (6) latches on the Air Stripper trays are loose or broken. Reattach keepers with JB Weld. Replace broken latches and springs with new parts.	in progress
Repair new Air Stripper holes	After last teardown clean of Air Stripper, more corroded areas started to leak upon reassembly. Repatch old leaking patches as well as new corroded areas.	Aug-13
Repair Air Stripper exhaust pipe	Air Stripper exhaust pipe corroded through inside at the elbow near the ceiling and outside through the vertical pipe. Replace all corroded parts and seal. Add plastic tubes on support wires to prevent wear of flexible pipe.	Aug-13
Repair Leaking Ball Valve	Influent ball valve near EQ Tank drips. Inspect/clean and replace if necessary.	in progress
Install Sub Słab Vapor Extraction System	High levels of VOCs were found under the floor of the Treatment Room. Install a system to remove these vapors and discharge them into the air above the roof.	in progress
Retrieve Sampling Bailers	(2) bailers became stuck in PW-7 and PW-6 when E & E, Inc was doing sampling. Assist E & E, Inc personel in retrieving bailers from the two wells.	Oct-13
Deliver filters to NYSDEC	Pickup filters from NYSDEC 1382 Niagara St, Buffalo site. Deliver filters to NYSDEC 23 Pumphouse Rd, Vestal site.	Dec-13

Mr. C'S CLEANERS OM&M SUMMARY OF WATER PUMP MAINTENANCE BY IEG - 2013

as of Dec 2013

귀ㄸ								
ELECTRICAL BOX REPAIR		60-das		Sep-09		Jul 09, Sep 09		Apr-13
CLEAN OUT & INSPECT ELECTRICAL BOX		Nov-11	Nov-11	Sep 09, Nov 11	Jan-12	Aug 09, Sep 09		Apr-13
PUMP OUT		Aug-09	Aug-09	Jul 09, Sep 09	•	Aug-09	Aug 09, May 10, Aug 11	Aug 09, May 10, Aug 11
REPAIR TRANSDUCER				Sep-08	Sep-09	Jun-08	Jun-08	
CLEAN & REPLACE REPAIR INSPECT TRANSDUCER TRANSDUCER		Sep 09, Dec 11	Dec 11	Dec 11, Mar 08, Sep 08	Jan 12, Sep 08	Sep-09		
CLEAN & INSPECT	May 10, Jan 12	Nov 11, May 10, Apr 13	Aug 09, Nov 11	May 10, Nov 11	Mar-11	Aug 09, Jul 12, Dec 12, Apr 13	Oct 10, Aug 11, Mar 12, Jul 12, Dec 12	May 10, Aug 11, Jul 12, Dec 12, Aor 13
CHECK		·						
HORIZONTA L PIPE						Jul 12, Nov 12	Jul 12, Nov 12	Pipe 8/09, Jul 12
INNER				Aug 13				
PITLESS ADAPTER			Repair adapter					
REPAIR	May 10, Nov 08			Sep-13				
REPLACED PUMP	Feb 08, Jan 12	Jul 08, Apr 13	Jul 08, Dec 11	Dec 07, Jan 12	Jul 08, Jan 12	Jun 08, Jul 09, Aug 12, Nov 12	Nov 07, Jul 09, Oct 10, Nov 12	Jul 08, Sep 09, Aug 11, Dec 12
CLEAN & INSPECT PUMP	Jan 08, May 10, Jan 12	Jun 08, Aug 09, May 10, Apr 13	Jun 08, Aug 09, May 10	Dec 07, May 08, Sep 09, May 10, Jan 12	Jan 12, May 08	Jun 08, Jul 09, Jul 12, Nov 12	Jun 08, Jul 09, May 10, O⊄ 10, Aug 11. Mar 12, Jul 12, Nov 12	Jun 08, Aug 09, May 10, Aug 11, Jul 12, Dec 12
9	RW - 1	PW - 2	8-Md	- bw-4	s-Md	9-Md	7 - W4	PW - 8

Mr. C's CLEANERS OM&M

SUMMARY OF WATER PUMP STATUS - 2013

as of Dec 2013

Q	NEEDS CLEANING & INSPECTION	NEED S NEW PUMP	NEEDS NEW INNER RING	NEEDS P.A. OR PIPE	NEEDS WELL CLEAN-OUT	PITLESS ADAPTER	NEEDS HORIZONTAL LINE PURGE	NEEDS CHECK VALVE INSPECTION	NEEDS TRANSDUCE R INSPECTION	NEEDS NEW TRANSDUCE R	NEEDS ANEROID BELLOWS	NEEDS U.E. CLEANE D	NEEDS U.E. REPAIR
RW-1	DONE 1/12	9	PZ-1B		YES				ON	ON	ON	ON	YES - bolts
PW-2	ON	Q.	ON		YES				ON		Q.	ON ON	YES - bolts
PW-3	ON	ON	Q.	REPAIRED 8/09	DONE 8/09				ON		ON	NO	NO
PW.4	DONE 9/13	ON O	Replaced 8/13		DONE 9/09				ON		ON	ON	YES - Asphalt patch
PW-5	DONE 1/12	ON	NO		YES				ON ON	DONE 1/12	DONE 1/12	O _N	<u>Q</u>
PW-6	YES	YES	NO	Replaced pipe 8/09	DONE 8/09		ON O	YES	N O	ON	DONE 9/09	ON	DONE
PW-7	ON	O _N	NO	Replaced pipe 8/09	YES	YES	S.		Q.	ON O	DONE	ON	ON O
PW-8	NO	DONE 8/11	9	Replaced pipe 8/09	<u>8</u>	YES	YES		ON	ON	YES	O _N	O _N

Attachment B Analytical Report from Spectrum Analytical Laboratories

Analytical Data Package Work Order ID: M2410

Sampled: December 10, 2013 Received: December 13, 2013 Report Date: 17-Dec-13 15:12



✓	Final Repo	жt
	Re-Issued	Report
П	Revised R	eport

Laboratory Report

Ecology and Environment Engineering P.C.

368 Pleasant View Drive Lancaster, NY 14086

Work Order: M2410

Project: Mr. C's Dry Cleaning

Project #: 4500000623/EN-003229-0001-03TTO

Attn: Michael Steffan

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
M2410-01	INFLUENT	Aqueous	10-Dec-13 10:00	11-Dec-13 08:55
M2410-02	EFFLUENT	Aqueous	10-Dec-13 10:00	11-Dec-13 08:55

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirments have been meet.

Spectrum Analytical (Rhode Island) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense N/A Connecticut PH-0153 N/A Delaware E87664 Florida Maine 2007037 M-RI907 Massachusetts 2631 New Hampshire RI001 New Jersey New York 11522 North Carolina 581 LAI00301 Rhode Island USDA USEPA - ISM

USEPA - SOM

P330-08-00023 EP-W-09-039 EP-W-11-033





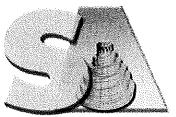
Authorized by:

Yihai Ding Laboratory Director Sample Transmittal Documentation

M2410 Page 2 of 33

Revised Feb 2013 Condition upod/feegipt Custody Seals: □ Present □ Intact □ Broken □ Ambient □ Refigerated □ DIVOA Frozen □ Soil Jar Frozen · All TATs subject to laboratory approval State-specific reporting standards: Min. 24-hour notification needed for rushes. QA/QC Reporting Notes: QA/QC Reporting Level □ Level IV Samples disposed of after 60 days unless □ Level II msteffan@ene.com State: NX こイエ 56%5 Special Handling: TAT- Ind icate Date Needed: another Mr BOARM Please □ Level III □ Level I C Other otherwise instructed る三女 でのな List preservative code below: Fast S EDD Format E-mail to Analyses: N Kingstown, RI 02852 25 646 Camp Avenue CHAIN OF CUSTODY RECORD (401) 732-3400 Project No.: Sampler(s): Site Name: Location: 4 194 daess Temp C 8.55 47 > 45.34 8° www.spectrum-analytical.com Time: ☐ 8405 Benjamin Road, Ste A # of Plastic <u>8</u> Containers: 7=CH₃OH # of Clear Glass Tampa, FL 33634 (813) 888-9507 RON: # of Amber Glass (1) Date: 12/11/13 60 6=Ascorbic Acid a IsiV AOV 10 # K どり S V S W ₹ <u>₹</u> Matrix 巾 Q Туре D 0 Invoice To: P.O. No.: ☐ 11 Almgren Drive le : cocam 0.00 Agawam, MA 01001 Dec 10, 2013 10;000 10:00 cm mo 00 / 01 10:00 S-NaOH SL=Sludge A=Air Time (413) 789-9018 WW=Wastewater Received by: 10=H3PO4 4-HNO3 Date: Stoffan Telephone #: (716) 684-8060 4080 C=Composite DW=Drinking Water GW=Groundwater O=Oil SW=Surface Water SO=Soil 3=H,SO4 9= Deionized Water Pleasantriew GFFLUENT EFFLUEN マアトマドア PECTRUM ANALYTICAL, INC. アドインがどっ ステンクラグ M: Ke Х || Sample Id: Featuring HANTBAL TECHNOLOGY G-Grab 2=HCI 日々日 Lancaster, N Relinquished by 1=Na₂S2O₃ 8= NaHSO4 Section Project Mgr. 368 Report To: Cab Id Page 3 of 33 M2410

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division Page 01 of 00 Received By: Log-in Date 12/11/2013 Reviewed By: Client Name: Ecology and Environment Engineering P.C. Work Order: M2410 4500000623/EN-003229-0001-03TTO Project Name/Event: Mr. C's Dry Cleaning / Soil HeadSpace Preservation (pH) Remarks: (1/2) Please see associated or Air Bubble > sample/extract transfer logbook pages or equal to 1/4" VOA submitted with this data package. Lab Sample ID ниоз H2SO4 HC1 NaOH H3PO4 Matrix Custody Seal(s) Present / Absent H M2410-01 <2 <2 Н M2410-02 Intact / Broken N/A 2. Custody Seal Nos. Present / Absent Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists AirBill / Sticker 4. Airbill Present / Apsent FedEx 7973 5533 3625 5. Airbill No. Present / Absent 6. Sample Tags Sample Tag Numbers Listed/ Not Listed on Chainof-Custody Intact / Broken/ 7. Sample Condition Leaking Present / Absent Cooler Temperature Indicator Bottle 9. Cooler Temperature 4.1 °C 10. Does information on Yes / No TR/COCs and sample tags agree? 11. Date Received at 12/11/2013 Laboratory 12. Time Received 08:55 Sample Transfer Fraction (2) SVOA/PEST/ARO Fraction (1) TVOA/VOA Area # Area # Ву Ву On VOA Matrix Key: IR Temp Gun ID:MT-74 US = Unpreserved Soil A= Air CoolantCondition: ICE H = HCI UA = Unpreserved Aqueous Preservative Name/Lot No: M = MeOH E = Encore F = Freeze N = NaHSO4 See Sample Condition Notification/Corrective Action Form Yes 🔾 Rad OK Yes 1)No



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

* Volatiles *

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client: Ecology and Environment Engineering P.C.

Project: Mr. C's Dry Cleaning

Laboratory Workorder / SDG #: M2410

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8260C

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW5030B

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V5

Instrument Type: GCMS-VOA

Description: HP6890 / HP6890 Manufacturer: Hewlett-Packard

Model: 6890 / 6890

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

The following samples were analyzed at dilution:

INFLUENT (M2410-01A): Dilution Factor: 4

G. Samples:

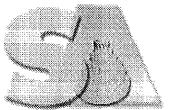
No other unusual occurrences were noted during sample analysis.

H. Manual Integration

No manual integrations were performed on any sample or standard.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

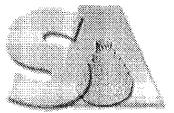
Signed:	the	
Date:	12/17/2013	



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HANIBAL TECHNOLOGY

Data Flag/Qualifiers:

- U Not Detected. This compound was analyzed-for but not detected. For most analyses the reporting limit (lowest standard concentration) is the value listed. For Department of Defense programs, this is the Limit of Detection (LOD).
- J This flag indicates an estimated value due to either
 - · the compound was detected below the reporting limit, or
 - estimated concentration for Tentatively Identified Compound
- B This flag indicates the compound was also detected in the associated Method Blank. The B flag has an alternative meaning for Inorganics analyses reported using CLP ILM-type metals forms, indicating a "trace" concentration below the reporting limit and equal to or above the detection limit.
- D For Organics analysis, this flag indicates the compound concentration was obtained from a secondary dilution analysis
- E This flag indicates the compound concentration exceeded the Calibration Range. The E flag has an alternative meaning for Inorganics analyses reported using CLP metals forms, indicating an estimated concentration due to the presence of interferences, as determined by the serial dilution analysis.
- P This flag is used for pesticides/PCB/herbicide compound when there is a greater than 40% difference for detected concentration between the two GC columns used for primary and confirmation analyses. This difference typically indicates an interference, causing one value to be unusually high. The lower of the two values is generally reported on the Form 1, and both values reported on the Form 10.
- A Used to flag semivolatile organic Tentatively Identified Compound library search results for compounds identified as aldol condensation byproducts.
- N Used to flag results for volatile and semivolatile Organics analysis Tentatively Identified Compounds where an analyte has passed the identification criteria, and is considered to be positively identified. For Inorganics analysis the N flag indicates the matrix spike recovery falls outside of the control limit.
- * For Inorganics analysis the * flag indicates Relative Percent Difference for duplicate analyses is outside of the control limit.



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Sample ID Suffixes

- DL Diluted analysis. The sample was diluted and reanalyzed. The DL may be followed by a digit if more than one diluted reanalysis is provided. The DL suffix is not attached to an analysis initially performed at dilution, only to reanalyses performed at dilution
- RE Reanalysis. Appended to the client sample ID to indicate a reextraction and reanalysis or a reanalysis of the original sample extract.
- RA Reanalysis. Appended to the laboratory sample ID indicates a reanalysis of the original sample extract.
- RX Reextraction. Appended to the laboratory sample ID indicates a reextraction of the sample.
- MS Matrix Spike.
- MSD Matrix Spike Duplicate
- DUP Duplicate analysis
- SD Serial Dilution
- PS Post-digestion or Post-distillation spike. For metals or inorganic analyses

1A - FORM I VOA-1 VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT	SAMPLE	NO.
INFLUE	NT	

Lab Name: SPECT	RUM ANALYTI	CAL, IN	c.		Contract:	
Lab Code: MITKE	d Ca	se No.:	M2410		Mod. Ref No.:	SDG No.: SM2410
Matrix: (SOIL/SE	D/WATER)	WATER			Lab Sample ID:	M2410-01A
Sample wt/vol:	5.00	(g/mL)	ML		Lab File ID:	V508885.D
Level: (TRACE/LO	W/MED) LO	N .			Date Received:	12/11/2013
% Moisture: not	dec.				Date Analyzed:	12/11/2013
GC Column: DB-6	24	ID:	0.25	(mm)	Dilution Factor:	4.0
Soil Extract Vol	ume:			(uL)	Soil Aliquot Vol	ume:(uL)
Purce Volume: 5	. 0			(mT.)		

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	4.0	U
74-87-3	Chloromethane	4.0	U
75-01-4	Vinyl chloride	4.0	Ü
74-83-9	Bromomethane	4.0	U
75-00-3	Chloroethane	4.0	U
75-69-4	Trichlorofluoromethane	4.0	Ū
75-35-4	1,1-Dichloroethene	4.0	Ū
67-64-1	Acetone	20	U
75-15-0	Carbon disulfide	4.0	Ū
75-09-2	Methylene chloride	4.0	Ū
	trans-1,2-Dichloroethene	4.0	U
	Methyl tert-butyl ether	4.0	U
	1,1-Dichloroethane	4.0	U
	2-Butanone	20	U
156-59-2	cis-1,2-Dichloroethene	30	1
	Chloroform	4.0	U
71-55-6	1,1,1-Trichloroethane	4.0	U
	Carbon tetrachloride	4.0	U
107-06-2	1,2-Dichloroethane	4.0	U
	Benzene	4.0	U
79-01-6	Trichloroethene	15	
78-87-5	1,2-Dichloropropane	4.0	U
	Bromodichloromethane	4.0	Ū
10061-01-5	cis-1,3-Dichloropropene	4.0	Ū
	4-Methyl-2-pentanone	20	Ü
108-88-3		4.0	Ü
	trans-1,3-Dichloropropene	4.0	U
	1,1,2-Trichloroethane	4.0	υ
	Tetrachloroethene	300	
591-78-6	2-Hexanone	20	U
	Dibromochloromethane	4.0	U
	1,2-Dibromoethane	4.0	U
	Chlorobenzene	4.0	U
	Ethylbenzene	4.0	U
	Xylene (Total)	4.0	U

som13.12.05.06.1059

SW846

1B - FORM I VOA-2 VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT	SAMPLE	NO.
INFLUE	NT	
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Lab Name: SPECTRUM ANA	LYTICAL, INC.		Contract:		_
Lab Code: MITKEM	Case No.: M2	2410	Mod. Ref No.:	SDG No.: SM2410	_
Matrix: (SOIL/SED/WATER	WATER		Lab Sample ID:	M2410-01A	
Sample wt/vol: 5.	00 (g/mL) ML	L	Lab File ID:	V508885.D	
Level: (TRACE/LOW/MED)	LOW		Date Received:	12/11/2013	_
% Moisture: not dec.			Date Analyzed:	12/11/2013	
GC Column: DB-624	ID: 0.	.25 (mm)	Dilution Factor:	4.0	
Soil Extract Volume:		(uL)	Soil Aliquot Vol	ume: (uI	. ,
Purge Volume: 5.0		(mL)			

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-42-5	Styrene	4.0	U
75-25-2	Bromoform	4.0	U
98-82-8	Isopropylbenzene	4.0	Ü
79-34-5	1,1,2,2-Tetrachloroethane	4.0	U
541-73-1	1,3-Dichlorobenzene	4.0	Ü
106-46-7	1,4-Dichlorobenzene	4.0	Ü
95-50-1	1,2-Dichlorobenzene	4.0	U
	1,2-Dibromo-3-chloropropane	4.0	U
120-82-1	1,2,4-Trichlorobenzene	4.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.0	Ü
	Cyclohexane	. 4.0	U
79-20-9	Methyl acetate	4.0	U
108-87-2	Methylcyclohexane	4.0	U

1A - FORM I VOA-1 VOLATILE ORGANICS ANALYSIS DATA SHEET

_	CLIENT	SAMPLE	NO.
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Lab Name: SPECTRUM AN	ALYTICAL, INC.	Contract:	
Lab Code: MITKEM	Case No.: M241	Mod. Ref No.:	SDG No.: SM2410
Matrix: (SOIL/SED/WATE	R) WATER	Lab Sample ID:	M2410-02A
Sample wt/vol: 5	.00 (g/mL) ML	Lab File ID:	V508883.D
Level: (TRACE/LOW/MED)	TOM	Date Received:	12/11/2013
% Moisture: not dec.		Date Analyzed:	12/11/2013
GC Column: DB-624	ID: 0.25	5 (mm) Dilution Factor:	1.0
Soil Extract Volume:		(uL) Soil Aliquot Vol	ume: (uL)
Purge Volume: 5.0		(mL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
	Dichlorodifluoromethane	1.0	U
	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	Ü
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	Ū
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	Ü
75-15-0	Carbon disulfide	1.0	Ü
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	Ū
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	Ü
108-88-3	Toluene	1.0	ט
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	Ū
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	Ü
	Ethylbenzene	1.0	U
	Xylene (Total)	1.0	U

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1B - FORM I VOA-2 VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT	SAMPLE	NO.
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Lab Name: SPECTRUM ANA	LYTICAL, IN	с		Contract:		
Lab Code: MITKEM	Case No.:	M2410		Mod. Ref No.:	SDG No.: SM2410	
Matrix: (SOIL/SED/WATE	R) WATER			Lab Sample ID:	M2410-02A	
Sample wt/vol: 5	.00 (g/mL)	ML		Lab File ID:	V508883.D	
Level: (TRACE/LOW/MED)	LOW			Date Received:	12/11/2013	
% Moisture: not dec.				Date Analyzed:	12/11/2013	
GC Column: DB-624	ID:	0.25	(mm)	Dilution Factor:	1.0	
Soil Extract Volume:			(uL)	Soil Aliquot Vol	ume:(uL)
Purge Volume: 5.0			(mL)			

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-42-5	Styrene	1.0	Ū
75-25-2	Bromoform	1.0	U
	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
	Cyclohexane	1.0	U
	Methyl acetate	1.0	U
	Methylcyclohexane	1.0	U



* Wet Chemistry *

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client: Ecology and Environment Engineering P.C.

Project: Mr. C's Dry Cleaning

Laboratory Workorder / SDG #: M2410

SM 2340B, SM 4500 H+ B

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SM 2340B, SM 4500 H+ B

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3005A

V. INSTRUMENTATION

The following instrumentation was used:

Instrument Code: OPTIMA3

Instrument Type: ICP

Description: Optima ICP-OES Manufacturer: Perkin-Elmer

Model: 4300 DV

Instrument Code: WC03 Instrument Type: Probe Description: pH Meter

Manufacturer: Oakton Instruments

Model: Bench 2700 Series

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

2. Matrix spike (MS):

A matrix spike was not performed on any sample in this SDG.

D. Post Digestion Spike (PDS):

A post-digestion spike was not performed on any sample in this SDG.

E. Duplicate sample:

Duplicate analyses were performed on sample: INFLUENT (M2410-01BDUP).

Relative percent differences were within the QC limits.

F. Serial Dilution (SD):

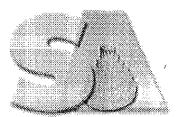
A serial dilution was not performed on any sample in this SDG.

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

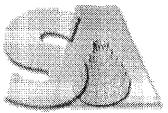
Signed:_		
Date:	12/13/2013	



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Data Flag/Qualifiers:

- U Not Detected. This compound was analyzed-for but not detected. For most analyses the reporting limit (lowest standard concentration) is the value listed. For Department of Defense programs, this is the Limit of Detection (LOD).
- J This flag indicates an estimated value due to either
 - · the compound was detected below the reporting limit, or
 - estimated concentration for Tentatively Identified Compound
- B This flag indicates the compound was also detected in the associated Method Blank. The B flag has an alternative meaning for Inorganics analyses reported using CLP ILM-type metals forms, indicating a "trace" concentration below the reporting limit and equal to or above the detection limit.
- D For Organics analysis, this flag indicates the compound concentration was obtained from a secondary dilution analysis
- E This flag indicates the compound concentration exceeded the Calibration Range. The E flag has an alternative meaning for Inorganics analyses reported using CLP metals forms, indicating an estimated concentration due to the presence of interferences, as determined by the serial dilution analysis.
- P This flag is used for pesticides/PCB/herbicide compound when there is a greater than 40% difference for detected concentration between the two GC columns used for primary and confirmation analyses. This difference typically indicates an interference, causing one value to be unusually high. The **lower** of the two values is generally reported on the Form 1, and both values reported on the Form 10.
- A Used to flag semivolatile organic Tentatively Identified Compound library search results for compounds identified as aldol condensation byproducts.
- N Used to flag results for volatile and semivolatile Organics analysis Tentatively Identified Compounds where an analyte has passed the identification criteria, and is considered to be positively identified. For Inorganics analysis the N flag indicates the matrix spike recovery falls outside of the control limit.
- * For Inorganics analysis the * flag indicates Relative Percent Difference for duplicate analyses is outside of the control limit.



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Sample ID Suffixes

- DL Diluted analysis. The sample was diluted and reanalyzed. The DL may be followed by a digit if more than one diluted reanalysis is provided. The DL suffix is not attached to an analysis initially performed at dilution, only to reanalyses performed at dilution
- RE Reanalysis. Appended to the client sample ID to indicate a reextraction and reanalysis or a reanalysis of the original sample extract.
- RA Reanalysis. Appended to the laboratory sample ID indicates a reanalysis of the original sample extract.
- RX Reextraction. Appended to the laboratory sample ID indicates a reextraction of the sample.
- MS Matrix Spike.
- MSD Matrix Spike Duplicate
- DUP Duplicate analysis
- SD Serial Dilution
- PS Post-digestion or Post-distillation spike. For metals or inorganic analyses

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

12/13/2013

Client: Ecology and Environment Engineering P.C.

Client Sample ID: INFLUENT

Lab ID: M2410-01

Project: Mr. C's Dry Cleaning

Collection Date: 12/10/13 10:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SM 2340B — HARDNESS by Calculation				SM2340_W
Hardness, Ca/Mg (As CaCO3)	410	4.0 mg/L CaCO3	1 12/12/2013 8:27	75186
SM 4500 H+ B pH VALUE				SM4500_H+
ρH	7.4	1.0 S.U.	1 12/12/2013 14:45	R78652

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

12/13/2013

Client: Ecology and Environment Engineering P.C.

Client Sample ID: EFFLUENT

Project: Mr. C's Dry Cleaning

Lab ID: M2410-02

Collection Date: 12/10/13 10:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SM 2340B - HARDNESS by Calculation				SM2340_W
Hardness, Ca/Mg (As CaCO3)	420	4.0 mg/L CaCO3	1 12/12/2013 8:30	75186
SM 4500 H+ B pH VALUE				SM4500_H+
рН	8.3	1.0 S.U.	1 12/12/2013 14:45	R78652

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Attachment C Summary of Site Utility Costs and Projections January to December 2013

IMF. C.S. DIV Cleaners Site - Remedial Treatment Utility Costs	ン・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・											
NYSDEC Work Assignment #DC13.02.01.01	\ssignment#I	DC13.02.01.01	•					Utility Budget:		Electric:	\$15,800.00	
12 Months of System Operation and Maintenance	stem Operation	on and Mainten	ance							Telephone:	\$540.00	
December 2013 Report	Report									Gas	\$1,120.00	
Gas, Telephone, and Electric										Total:	\$17,460.00	
Utility Provider	ħ.	E&E Cost Center	Description	Jan-2012	Feb-2012	Mar-2012	Apr-2012	May-2012	Jun-2012			
Now York State E&G	1001-0310-422	EN-003229-0001-03TTO	Mr. C's Electric Costs	\$ 1,695.55	\$ 1,212.17	\$ 1,531.43	\$ 1,325,29	\$ 748.78	\$664.51			
New York State E&G	76-311-11-015900-18		Agway Site - Electric									
National Fuel Gas	5819628-05	EN-003229-0001-03TTO	Mr. C's Natural Gas Costs	\$46.63	\$ 27.50	\$ 185.46	\$ 216.03	\$ 84.93	\$90.20			
			Totals	\$ 1,742.18	\$ 1,239.67	\$ 1,716.89	\$ 1,541.32	\$ 833.71	\$ 754.71			
	,	·		Ju	Aug-2012	Sep-2012	Oct-2012	Nov-2012	Dec-2012			Ave. /Month
			Mr. C's Electric Costs	99	1.39	\$ 1,511.62	\$ 1,499.02	\$ 1,238.95				\$ 123.03
			Mr. C's Natural Gas Costs	\$30.87	\$ 32.95	\$ 37.89	\$ 13.27	\$ 107.46				\$ 79.38
			Totals	\$738.43		\$ 1,549.51	\$ 1,512.29	7	; \$			\$ 202.41
			Electric - Mr. C's		\$13,656.27		Notes:					
			Natural Gas - Mr. C's		\$ 873.19			Overbilled natura	Overbilled natural gas costs - no charges	charges		
ATT THE ATT TO THE TOTAL THE TOTAL TO THE TOTAL THE TOTAL TO THE TOTAL	Grand	Total - NYSE&G/Nation		s	14,5			Estimated Reading	ling	\$ 333.44	in red -adjusted billing	billing
Phone												
Utility Provider	Phone #	E&E Cost Center	Location Description	Jan-2012	Feb-2012	Mar-2012	Apr-2012	May-2012	Jun-2012			
Verizon	716-652-0094	EN-003229-0001-03TFO	Mr. C's Telephone Costs	\$ 34.31	\$ 93.35	\$ 35.67	\$ 38.15		\$ 35.12			
Account #												
716 652 0094 416 26 2												
				Jul-2012	Aug-2012	Sep-2012	Oct-2012	Nov-2012	Dec-2012			Ave./Month
	-	EN-003229-0001-03TTO		\$ 36.57	\$ 36.25							\$ 44.20
			of the Costs to Date Mar	<i>.</i>	309.42							
		194										
		Grand Total A	Grand Total All Utilities To Date	\$	14,838.88							
			Thermany.									

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Mr. C's Dry Cleaners Site - Remedial Treatment Utility Costs	emedial Treatmen	t Utility Costs	-							ATTACHMENT C
NYSDEC Work Assignment #DC13	DC13				ā	Budget Remaining:	ind: Electric	tric	\$2.143.73	
12 Months of System Operation and Maintenance	on and Maintenan] 						Telephone:	\$230.58	
December 2013 Report	1,11,11,11	T-Minney Control					Gas		\$246.81	
Optimum Operating Hours	Actual Operating Hours	Up-time Percentage	Ajeste	i specialization		5000	ļ ģ		62.63	7,1,1,1
	576	85.71%	ال	Mild January			101		21.120,26	Priority
February-13 672	594	88.39%	8.7%	Mild February	_					
	720	100.00%	П	Cold March			•••			
	132	100.00%		Mild April						
	672	100.00%		Wet June						
	648	61.36%	П	Stripper teardown/new bag file	er installed					
	528	100.00%	ı	Normai August		-				
	830	100.00%	1	Dry September						
	673	100.00%	1	Ave Capper					5	
December-13 696	624	89.66%	%0.6	Winter conditions wet snow			-			
	7938	40.38%	8							
Sapacity is based on initial operating groundwa	ater flows from the eight installed p	umps from 9/02. Evaluated on	total callons disch	aroed for monthly operating fim						
Maximum pump discharges calculated as an average of 78 gpm as the total for all 8 pumps at the site if all pumps operate 100%. With the exception of groundwater pump RI	78 gpm as the total for all 8 pumps	s at the site if all pumps operat	te 100%. With the e	100%. With the exception of groundwater pump RW-1, all others run on a batch basis.	RW-1, all others	run on a batch basis				
Monthly Average Costs					+					
				**************************************						***************************************
Mr. C's Flectoc							_			
S										
.,										
Mr. C's Telephone 5 44.20										
Ave. Utility Cost Total \$ 246.61	times	12 Month Estimate	\$3,205.97							

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