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BUFFALO CORPORATE CENTER 368 Pleasant View Drive Lancaster, New York 14086 Tel: (716) 684-8060, Fax: (716) 684-0844

February 5, 2016

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 # 915157 January Operations, Maintenance, and Monitoring Report

Dear Mr. Welling:

Ecology and Environment Engineering, P.C. (EEEPC) is pleased to provide the January 2016 Operations, Maintenance, and Monitoring (OM&M) Report for the Mr. C's Dry Cleaners Site, NYSDEC Site # 915157, located in the Village of East Aurora, New York. Copies of bi-monthly inspection reports prepared by EEEPC's subcontractor, Iyer Environmental Group, PLLC (IEG), are provided in <u>Attachment A</u>. Selected pages from the individual analytical data package prepared by Spectrum Analytical Inc. (SAI), Warwick, Rhode Island are provided as <u>Attachment B and C</u>. The full analytical reports along with QA/QC information will be retained by EEEPC. The site utility information is provided in <u>Attachment D</u>.

In review of the on-site treatment system operations, monitoring and maintenance for January 2016, EEEPC offers the following comments and highlights:

Operational Summary

Mr. C's Site – Remedial Operations and Maintenance Information

- The monthly checklists for system inspections from IEG are provided as <u>Attachment A</u> for 1/4/16, 1/8/16, and 2/1/16.
- Based on inspection reports prepared by IEG, the remedial treatment system for the period above had a 100% operational up-time (<u>Table 1</u>) and the treatment of contaminated groundwater during that period totaling of 305,578 gallons (<u>Table 1</u>) for January 2016.
- PW-7 was off due to injection operation.
- Swept spruce needles and cones off of the library parking lot around well groups PW-6 and PW-7.
- The bag filters were changed as needed during the operation period (January 4, 2016 to February 1, 2016).
- The 586 Building SVE fan was turned off to drain the water from pipe, and the 'T' fitting on top of exhaust pipe was installed. The inspection of SVE system of the 586 Main Street building was performed on January 21, 2016 and again January 26, 2016.

Mr. William Welling, Project Manager February 5, 2016 Page 2 of 3

- The initial compliance samples were taken on January 13, 2016 (Attachment B) and the preliminary analytical results were received from SAI on January 21, 2016. The results indicated effluent discharges above the SPDES Equivalency permit requirements and corrective actions and resampling was requested the effluent discharge criteria requirements in the site specific SPDES Equivalency Permit is provided in the Table 2 and the initial results are provided in Table 3-1.
- The second compliance samples were taken on January 26, 2016 (<u>Attachment C</u>) and the analytical results were received from SAI on February 3, 2016. The results indicated achievement of the effluent discharge criteria requirements in the site specific SPDES Equivalency Permit are provided in Table 3-2.
- The analytical summary results of the January 2016 samples revealed the total volatile organic contaminant concentrations of the influent to be 692 μ g/L or 692 ppb. In review of the effluent concentrations the results were 0 μ g/L or 0 ppb. The summary of influent and effluent contaminant concentrations for the January 2016 sampling is presented in Table 1.
- The Mr. C's treatment system based on the total monthly flows removed 1.76 lbs. of targeted contaminants from the groundwater below the site in the month of January 2016 and the cleanup effectiveness was 100%. The calculations and data for the month are presented in Table 1.
- Installed vent cover over the man door for the season.
- Cleaned air stripper through access ports.

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

- SSDS Unit manometer in the Mr. C's Treatment Bldg. (586 Main Street) maintained a subslab pressure ranging from -1.7 to -1.8 inches of water column over the reporting month of December 2015.
- The SVE fan on the west side of the 1st Presbyterian Church broke. The Church contacted EEEPC and the fan was replaced December 8. The church has EEEPC's contact information in case another problem occurs with the SSDS units.
- 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.
- The basement SSDS unit of the 591 Main Street location has been installed and is operational. 2nd SSDS unit installation on the first floor is scheduled for January 2016.
- Punch list review, communications testing, and post-construction air testing to be performed on three of the four locations was performed in March and April 2015. All post-construction results within acceptable depressurization requirements per NYSDOL. Final construction reports for the individual location where SSDS units were installed are to be issued in January 2016.

Status of Bioremediation Direct Push Injection Work

- Additional review of the recommendations in the summary report to be evaluated with the Remedial Site Optimization (RSO) program.
- The draft RSO was issued to NYSDEC on December 8, 2015.

Mr. William Welling, Project Manager February 5, 2016 Page 3 of 3

Soil Vapor Intrusion Investigation Program ('15-'16)

- The Phase 3 SVII Report was issued to NYSDEC / NYSDOH on August 11, 2015.
- Discuss new property locations with NYSDEC / NYSDOH for SVII work in '15-'16.

Site Management Plan

- EEEPC submitted the updated/revised SMP to NYSDEC and NYSDEC Region 9 on March 2, 2015.
- This is an active site document, so future revisions will be performed once major changes to the management of the site are required after optimization evaluation is performed.

Annual Long-term Groundwater Monitoring Well Report

- The 2015 Annual Long-term Groundwater Monitoring Well field work was completed in October 2015.
- Report of 2015 annual Groundwater results was issued to NYSDEC on December 21, 2015.

Periodic Review Report (PRR)

• The 2015 Periodic Review Report was issued to NYSDEC on January 29, 2015.

Mr. C's Energy Usage Information

• A copy of the site utility costs from the Mr. C's remedial operations for January through December 2016 is provided as <u>Attachment D.</u>

If you have questions regarding the January 2016 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- 10C3074.0011.07

Table 1 Mr. C's Dry Cleaners Site Remediation Site #915157 System Operation and Management

				<u> </u>	Τ	i. T	Γ	Τ	I.	<u> </u>	<u> </u>	I	<u> </u>	1	<u> </u>
	VUCs Removed	(lbs.)	1,614.16	1.76											1.76
VOC Removal	Effluent	VOCs(µg/L)	NA	0.0											0.00
	Influent VOCs	(µg/L)	NA	692.0											692.00
	Treated Effluent	(gallon)	128,814,819	305,578											305,578
ime	Operational	Up-time	95.23%	100.00%						-					1.00
Up-t	Keporting	Hours Up-tir	111,949.50	672											672.00
			(Up-time from 9/5/02 to 01/04/16)	January 4, 2016 - February 1, 2016											Total in 2016

NOTES:

1,615.93

NA

NA

129,120,397.00

0.95

112,621.50

Total from startup

1. Up-time based as percentage of total reporting hours.

2. Treatment system operated by the Tyree Organization Ltd. from 9/02 - 9/03.

3. Treatment system operated by O&M Enterprises Inc. from 10/03 - 7/07.

4. Treatment system operated by Iyer Environmental Group from 7/07 to present.

5. VOC removal calculations are based on monthly water samples and assumes samples are representative of the entire reporting period.

VOC removal calculations assume that non-detect values = 0 ug/L.
 7. Total VOCs summations include estimated "J" values.

8.VOC removal calculations are based on effluent totalizer readings.

9."Influent VOCs" and "Effluent VOCs" values given above is the summation of values for individual compounds given in monthly analytical reports. 10. Unit conversion: 1 pound = 453.5924 grams, 1 gallon = 3.785 liters

11. Formula for the VOC removal calculation:

(VOCs Influent - VOCs Effluent) (ug/L) ·(1g/10⁶ ug) ·(1 lb/453.5924 g) ·(Monthly process water)(gal) ·(3.785 L/gallon)

12. Using the 2/2/16 analytical results.

Table 2Mr. C's Dry Cleaners Site RemediationSite #915157Effluent Discharge Criteria & Analytical Compliance Results

				After Corrective Cleanup
Parameter/Analyte	Daily Maximum ¹	Units	January 13, 2016 - Effluent Analytical Values Compliance	January 26, 2016 - Effluent Analytical Values - Compliance
Flow (Average)	N/A	gpd	.10,914	10,914
рН	6.0 - 9.0	standard units	7.40	7.40
1,1 Dichloroethene	10	μg/L	ND(<1.0)	ND(<1.0)
1,1 Dichloroethane	10	μg/L	ND(<1.0)	ND(<1.0)
cis-1,2-dichloroethene	10	μg/L	23	ND(<1.0)
Trichloroethene	· 10	μg/L	ND(<1.0)	ND(<1.0)
Tetrachloroethene	10	μg/L	27	ND(<1.0)
Vinyl Chloride	10	μg/L	ND(<1.0)	ND(<1.0)
Benzene	5	μg/L	ND(<1.0)	ND(<1.0)
Ethylbenzene	5	μg/L	ND(<1.0)	ND(<1.0)
Methylene Chloride	10	μg/L	ND(<1.0)	ND(<1.0)
1,1,1 Trichloroethane	10	μg/L	ND(<1.0)	ND(<1.0)
Toluene	5	μg/L	ND(<1.0)	ND(<1.0)
Methyl-t-Butyl Ether (MTBE)	NA.	ug/L	2	ND(<1.0)
o-Xylene ²	5	μg/L	NA	NA
m, p-Xylene ²	10	μg/L	NA	NA
Total Xylenes	NA	ug/L	ND(<1.0)	ND(<1.0)
Iron, total	600	μg/L	NA ⁹	NA ⁹
Aluminum	4,000	μg/L	NA ⁹	NA ⁹
Copper	48	μg/L	NA ⁹	NA ⁹
Lead	11	μg/L	NA ⁹	NA ⁹
Manganese	2,000	μg/L	NA ⁹	NA ⁹
Silver	100	µg/L	NA ⁹	NA ⁹
Vanadium	28	µg/L	NA ⁹	NA ⁹
Zinc	230	μg/L	NA ⁹	NA ⁹
Total Dissolved Solids	850	mg/L	NA ⁹	NA ⁹
Total Suspended Solids	20	mg/L	NA ⁹	NA ⁹
Hardness	N/A	mg/L	330	330
Cyanide, Free	10	μg/L	NA ⁹	NA ⁹

NOTES:

1. "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: January 4, 2016 through February 1, 2016, Total gallons: 305,578 divided by 28 operating days.

7. "J" indicates 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.

10. "NS" indicates that the parameter analysis was not sampled.

40 Indicates non-compliance with the NYSDEC effluent discharge requirements NR Indicates Not Reported by Lab

Table 3-1 Mr. C's Dry Cleaners Site Remediation NYSDEC Site #915157 January 2016 VOC Analytical Summary

	Bas	sed on the	1/13/16 Efflue	nt Analyti	cal Results
	Influe	ent	Efflue	ent	Cleanup
Compound	Concentr	ation*	Concentra	tion**	Efficiency***
	(ug/I	L)	(ug/I	L)	(%)
Acetone	ND (<5)	U	ND (<5.0)	U	NA
Benzene	ND (<1.0)	U	ND (<1.0)	U	NA
2-Butanone	ND (<5)	U	ND (<5.0)	U	NA
cis-1, 2-Dichloroethene	210	Е	23		89.05%
Chloroform	ND (<1.0)	U	ND (<1.0)	U	NA
Chloromethane	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)	3.9	•	2		48.72%
Methyl acetate	ND (<1.0)	U	ND (<1.0)	U	NA
Tetrachloroethene (PCE)	490	Е	27		94.49%
Toluene	ND (<1.0)	U	ND (<1.0)	U	NA
Trichloroethene (TCE)	43.0		3.2		92.56%
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
2-Hexanone	ND (<5)	U	ND (<5.0)	U	NA
4-Methyl-2-pentanone	ND (<5)	U	ND (<5.0)	U	NA
Cyclohexane	ND (<1.0)	U	ND (<1.0)	U	NA
trans-1,2-dichloroethene	1.4		ND (<1.0)	Ŭ	100.00%
Chlorobenzene	ND (<1.0)	U	ND (<1.0)	U	NA
Methylcyclohexane	ND (<1.0)	U	ND (<1.0)	U	NA
Ethylbenzene	ND (<1.0)	U	ND (<1.0)	U	NA
Methyl acetate	ND (<1.0)	U	ND (<1.0)	U	NA
Vinyl Chloride	11		ND (<1.0)	U	100.00%
Total Xylenes	ND (<1.0)	U	ND (<1.0)	U	NA
• The 1 st progress monitoring					r
sampling of the groundwater wells	•				
associated with the "pilot"	,				
bioaugmentation program was					
performed on July 1-2, 2013.	759.3		55.20		92.73%

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.

5. "D" indicates the compound concentration was obtained form a secondary dilution analysis.

6. Acetone was not detected in the influent sample above the MDL but detected in the effluent sample. It is not a contaminant of concern for the Mr. C's site.

* Detection Limits (<10) and (<50)

** Detection Limits (<1) and (<5)

*** Contaminants of Concern only

Table 3-2 Mr. C's Dry Cleaners Site Remediation NYSDEC Site #915157 January 2016 VOC Analytical Summary

	Ba	sed on the	1/26/16 Efflue	nt Analyti	cal Results
	Influ	ent	Efflue	ent	Cleanup
Compound	Concent	ration*	Concentra	tion**	Efficiency***
^	(ug/	L)	(ug/I	(ب	(%)
Acetone	ND (<20)	U	ND (<5.0)	U	NA
Benzene	ND (<4.0)	U	ND (<1.0)	U	NA
2-Butanone	ND (<20)	U	ND (<5.0)	U	NA
cis-1, 2-Dichloroethene	210		ND (<1.0)	U	100.00%
Chloroform	ND (<4.0)	U	ND (<1.0)	U	NA
Chloromethane	ND (<4.0)	U	ND (<1.0)	U	NA
Methylene chloride	ND (<4.0)	U.	ND (<1.0)	U	NA
Methyl tert-butyl ether (MTBE)	ND (<4.0)	U	ND (<1.0)	U	NA
Methyl acetate	ND (<4.0)	U	ND (<1.0)	U	NA
Tetrachloroethene (PCE)	430		ND (<1.0)	U	100.00%
Toluene	ND (<4.0)	U	ND (<1.0)	U	NA
Trichloroethene (TCE)	39.0		ND (<1.0)	U	100.00%
Carbon Disulfide	ND (<4.0)	U	ND (<1.0)	U	NA
1,1,2 Trichloro-1,2,2-trifluororethane	ND (<4.0)	U	ND (<1.0)	U	NA
2-Hexanone	ND (<20)	U	ND (<5.0)	U	NA
4-Methyl-2-pentanone	ND (<20)	U	ND (<5.0)	U	NA
Cyclohexane	ND (<4.0)	U	ND (<1.0)	U	NA
trans-1,2-dichloroethene	ND (<4.0)	U	ND (<1.0)	U	NA
Chlorobenzene	ND (<4.0)	U	ND (<1.0)	U	NA
Methylcyclohexane	ND (<4.0)	U	ND (<1.0)	U	NA
Ethylbenzene	ND (<4.0)	U	ND (<1.0)	U	NA
Methyl acetate	ND (<4.0)	U	ND (<1.0)	U	NA
Vinyl Chloride	13		ND (<1.0)	U	100.00%
Total Xylenes	ND (<4.0)	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.	692.0		0.00		100.00%

Notes:

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

3. "DJ" or "J" indicates an estimated value below the practical quantitation limit but above the method detection limit.

4. Non-detect values are assumed to be equal to zero for calculation of monthly average concentrations.

5. "D" indicates the compound concentration was obtained form a secondary dilution analysis.

6. Acetone was not detected in the influent sample above the MDL but detected in the effluent sample. It is not a contaminant of concern for the Mr. C's site.

* Detection Limits (<10) and (<50)

** Detection Limits (<1) and (<5)

*** Contaminants of Concern only

<u>Attachment A</u> IEG Weekly Inspection Reports January 2016

Including:

1/4/16 1/8/16 2/1/16

MR. C's DRY CLEANERS SITE NYSDEC Site #9-15-157 OM&M: SITE INSPECTION FORM

x

DATE:	4-Jan-	16	ACTIVITIES:	Site Inspect	ion		•	
INSPEC	TION PERSONNE	L: R. All	en	OTHER PERS	ONNEL:	* #		
WEATH	ER CONDITIONS:	Cloudy, cold				OUTSIDE TEMPE	RATURE (° F):	12
ARE WE	ELL PUMPS OPER PW-7 is OFF due	ATING IN AUTO: to injection operat	YES:	NO:		f "NO", provide exp	lanation below	5006 BOOR 2014 BOOR 2014 BOOR 2014
		PI		VEL READINGS	ON CONTROL PANE		<u></u>	
RW-1	ON:	OFF:	ft	PW-5	on:√	OFF:	6	ft
PW-2	ON:	OFF:√	6_ft	PW-6	ON:	off:√	6	_ft
PW-3	ON:	OFF:√	ft	PW-7	on:√	OFF:	12	ft
PW-4	ON:	OFF:√	ft	PW-8	ON:	0FF:√	5	_ft
	EQL NOTES:	IALIZATION TANK	: <u>3</u> ft	Last	Alarm D/T/Condition: _	1/4/2016 PW-2 Over	oad	
			an basis linka juan kasi kuan jima mua mua jima					
INFLU	JENT FLOW RATE	:	1gpm		TALIZER READING	15,349,0	00.0	gallons
SE	QUESTERING AG	ENT DRUM LEVEL	. <u>4</u> inches	(x 1.7	=) AMOUNT OF A	GENT REMAINING:	7	gallons
s	EQUESTERING A	GENT FEED RATE	:ml/min		METERING	PUMP PRESSURE:		_psi
	BAG FILTER PR	ESSURES:	тор LEFT: <u>15 - 0</u>	Bottom 0 psi	RIGHT:	т _{ор} 25 - 8	1	psi
INFLU	JENT FEED PUMP	IN USE: #	ı #	2 /	NFLUENT PUMP PRI	ESSURE:	6	psi
AIRS	STRIPPER BLOW	ER IN USE: #	 1√#	2	AIR STRIPPER PRI	ESSURE:	47.0	in. H ₂ O
AIR STR	RIPPER DIFFEREN	TIAL PRESSURE:	broken	in. H ₂ O	DISCHARGE PRI	ESSURE:	< 0.0	in. H₂O
AIR FLC	. 388 SW :	§fpm X 1.4 =	54:	3 CFM				
EFFLUE	ENT PUMP IN USE:	: #1	#2√	EFFLUE	ENT FEED PUMP PRI	ESSURE:	11	psi
EFFLU	ENT FLOW RATE	2 144 gpm	EFFLUENT	TOTALIZER RE	ADING: 80	,490,578	100330	gallons
ARE BU	IILDING HEATERS	NUSE? YES	:NC		. 2015 2011 2011 2011 2011 2011 2011 2011	INSIDE TEMPE	RATURE (° F):	65
ıs su	IMP PUMP IN USE.	YES:√_	NO:	ARE ANY I	EAKS PRESENT?	YES:√	NO:	
WATER	R LEVEL IN SUMP	6.0 in.	TREATMENT	BUILDING CLEA	N & ORGANIZED?	YES:√	NO:	

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

-

										4-Jan-16
SAMPLES COL	LECTED	? YES:	NO:	ang mari nang mang mang pang peng peng kang kang kang kang kang kang kang ka	er Solver händ Annen Minai Annes H	ini kuti kuti kuti kuti kuti				
			Sample ID	Time of Samp	ling	рН	Turbidity	Temp.	Sp. Cond.	
AIR ST	TRIPPER	INFLUENT:								
AIR ST	RIPPER I	EFFLUENT:								
IS THE	ERE EVIDI	ENCE OF TAMPER	ING/VANDALIS	SM OF WELLS: ?	YES	:	NO:			
	ں.	w	ERE MANHOL	ES INSPECTED?	YES	:√	NO:			
		WERE ELE	CTRICAL BOX	ES INSPECTED?	YES	:√	NO:			
IS WATEF	R PRESEI	NT IN ANY MANHO	LES OR ELEC	TRICAL BOXES?	YES	:	NO:			
		lf yes, provide man	hole/electric bo	x ID and descriptio	n of any corr	ective meas	ures below:			
PZ-1B has surfac	ce concrete	e damage from winte	er conditions.	<u></u>						
Most MWs and U	JEs are co	vered with ice and s	now.							
			S	UBSLAB SY	STEM					
MANON	ACTED.	1.7 in. WC	•	west	east	NOTES	cfm = 0.05 ;	v form (3" E		
(Fan Ini		II. WC		(fpm):		NOTES.	<u>cim = 0.05</u>		V ()	
, — — — — — — — — — — — — — — — — — — —	,			(cfm):						
		VACU	UM GAUGE (in	WC)						
	INCLI	JDE REMARKS & L	ESCRIBE AN	OTHER SYSTEM			ORMED ON	MR. C's S		
Remarks:		e near filter housin								
	Have sa									
Other Actions:		D								
) drums of 1:3 Red								
		in St SVE Fan - d		nd turned ON w	hen thawe	j.				

	AGWAY									
Remarks:	Site is empty of materials and has been graded and graveled.									
Other Actions:										

MR. C's DRY CLEANERS SITE NYSDEC Site #9-15-157 OM&M: SITE INSPECTION FORM

DATE: 18-Jan-15	ACTIVITIES:	Site Inspection		
INSPECTION PERSONNEL: R. Allen		OTHER PERSONNEL:	E & E, Inc.	
WEATHER CONDITIONS: Partly cloudy, cold	1	name word most local strate good most good state state and	OUTSIDE TEMPEI	RATURE (° F): 18
ARE WELL PUMPS OPERATING IN AUTO:	YES:	NO: √	lf "NO", provide expl	anation below
PW-7 is OFF due to injection operation.				
PROVI	DE WATER LEV	EL READINGS ON CONTI		
RW-1 ON: OFF:	7ft	PW-5 ON:	OFF:	
PW-2 ON: OFF:	<u>5</u> ñ	PW-6 ON:	OFF:√	ft
PW-3 ON: OFF:	7_ñ	PW-7 ON:	OFF:	<u>12</u> ft
PW-4 ON: OFF:√	<u>3</u> ft	PW-8 ON:		ft
EQUALIZATION TANK:	<u>4</u> ft	Last Alarm D/T/C	Condition: 1/18/16 PW-2 Overloa	ad
NOTES:				
INFLUENT FLOW RATE: 29	gpm	INFLUENT TOTALIZER	READING 11,765,7	04.0 gallons
	20 :	(49 sellere
SEQUESTERING AGENT DRUM LEVEL:				
SEQUESTERING AGENT FEED RATE:			IETERING PUMP PRESSURE:	
BAG FILTER PRESSURES:		Bottom 0 psi B	Top RIGHT: 8	Bottom 0 psi
			a con the own the loss over the loss and the loss and the loss and	et sen met met met met met met met met met
INFLUENT FEED PUMP IN USE: #1	√#2	2 INFLUENT	PUMP PRESSURE:	<u>6</u> psi
AIR STRIPPER BLOWER IN USE: #1	√ #2	2 AIR STR	IPPER PRESSURE:	47.0 in. H ₂ O
AIR STRIPPER DIFFERENTIAL PRESSURE:				< 0.0 in. H ₂ O
AIR FLOW : 335 fpm X 1.4 =		-		
	#2 √		PUMP PRESSURE:	10 psi
EFFLUENT PUMP IN USE: #1 EFFLUENT FLOW PATE: 142	·	_		,
EFFLUENT FLOW RATE: 143 gpm		TOTALIZER READING:	00,070,301	286680 gallons
ARE BUILDING HEATERS IN USE? YES:	<u>√</u> №		INSIDE TEMPER	RATURE (° F):71
IS SUMP PUMP IN USE: YES: $$	NO:			NO:
WATER LEVEL IN SUMP: in.	TREATMENT E	BUILDING CLEAN & ORGA	ANIZED? YES: 1	NO:

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

										8-Jan-15
SAMPLES CO	LLECTED?	YES:	NO:	$\overline{\mathbf{A}}$						
			Sample ID	Time of Sampli	ng	рН	Turbidity	Temp.	Sp. Cond.	
AIR S	TRIPPER	FLUENT:			-					_
AIR ST	RIPPER EI	FLUENT:			_					
IS THI	ERE EVIDE	NCE OF TAMPER	RING/VANDALI	SM OF WELLS: ?	YES:		NO:	\checkmark		
		и	VERE MANHOL	ES INSPECTED?	YES:	\checkmark	NO:			
		WERE ELE	CTRICAL BOX	ES INSPECTED?	YES:		NO:			
IS WATE	R PRESEN	T IN ANY MANHO	LES OR ELEC	TRICAL BOXES?	YES:		NO:			
		lf yes, provide ma	nhole/electric bo	ox ID and description	of any correc	tive meas	sures below:			
PZ-1B has surface	ce concrete	damage from wint	ter conditions.							
Most MWs and L	JEs are cov	ered with ice and s	snow.			6				
			s	UBSLAB SYS	STEM					
MANO	METER:	1.7 in. W	<u></u>	west	east /	NOTES	cfm = 0.05 ;	< form (3" E		
(Fan In		I./ III. VV		/ (fpm):	edst 1	NOTE3.	CIII - 0.05	kipin (S. F	VC)	
(,									
		VACU	IUM GAUGE (ir							
	INCLU	DE REMARKS &	DESCRIBE AN	Y OTHER SYSTEM	MAINTENAN	CE PERI	ORMED ON	MR. C's S		
Remarks:	Ball valve	near filter housi	ngs has a drip	leak.						
Other Actions:	Changed	Bag Filters.								
	Cleaned	Air Stripper throu	gh access por	ts.						. <u></u>
	Instal ven	t cover over mar	n door for the s	eason.						
	586 Main	St SVE Fan - dra	ain water from	pipe.						

	AGWAY
Remarks:	Site is empty of materials and has been graded and graveled.
Other Actions	:
.	

MR. C'S DRY CLEANERS SITE NYSDEC Site #9-15-157 OM&M: SITE INSPECTION FORM

DATE:	1-Feb-	16	ACTIVITIES:	Site Inspect	ion			
INSPEC	TION PERSONNE	L: R. Allen		_OTHER PERS	ONNEL:			-
WEATH	ER CONDITIONS:	Partly cloudy, co	ol			OUTSIDE TEMPE	RATURE (° F)	:39
ARE WE	ELL PUMPS OPER		YES:	NO:	√	If "NO", provide expl	anation below	4 mail 2019 well 2014 per 2014
	PW-7 is OFF due	to injection operatio	n					
))		PRO	VIDE WATER LEV	EL READINGS	ON CONTROL PAN	EL.		· · · · · · · · · · · · · · · · · · ·
RW-1	ON:	OFF:	<u>3</u> ft	PW-5	ON:	0FF:√	5	ft
PW-2	ON:	OFF:	ft	PW-6	ON:	off:√	4	ft
PW-3	ON:	OFF:	<u>3</u> ft	PW-7	ON:√	OFF:	12	ft
PW-4	on:√	OFF:	7 ft	PW-8	ON:	OFF:	7	ft
	EQU NOTES:	IALIZATION TANK: _	3 _ft	Last A	larm D/T/Condition:	2/1/2016 PW-2 Over	oad	
INFLU	JENT FLOW RATE	:2	gpm	INFLUENT TO	TALIZER READING	11,911,	400	_gallons
SE	QUESTERING AGI	ENT DRUM LEVEL: _	16 inches	(x 1.7=) AMOUNT OF	AGENT REMAINING:	27	gallons
s	EQUESTERING A	GENT FEED RATE:	ml/min		METERING	OPUMP PRESSURE:	4.0	_psi
	BAG FILTER PRI	ESSURES:	•	Bottom 0 psi	RIGHT:	Тор 8	Bottom 0	_psi
INFLU	UENT FEED PUMP	IN USE: #1_	#2	2//	IFLUENT PUMP PF	RESSURE:	6	_psi
AIR	STRIPPER BLOWE	R IN USE: #1_	#2	2	AIR STRIPPER PF	RESSURE:	29.0	_in. H₂O
AIR STR	RIPPER DIFFEREN	TIAL PRESSURE:	broken	_in. H₂O	DISCHARGE PF	RESSURE:	1.80	_in. H₂O
AIR FLC	<i>w:</i> 1300	fpm X 1.4 =	1820	CFM				
EFFLUE	ENT PUMP IN USE:	#1	#2 √	EFFLUE	NT FEED PUMP PF		 10	psi
EFFLU	IENT FLOW RATE:	136 gpm	EFFLUENT	TOTALIZER RE	ADING: 80),796,156	407930	gallons
ARE BL	JILDING HEATERS	<i>IN USE?</i> YES:				INSIDE TEMPEI	RATURE (° F):	65
ıs su	IMP PUMP IN USE:	YES:	NO:	ARE ANY L	EAKS PRESENT?	YES:	NO	:
WATE	R LEVEL IN SUMP:	7.0 in.	TREATMENT B	UILDING CLEAI	N & ORGANIZED?	YES:	NO	*

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

-

.

											1-Feb-16
SAMPLES COL	LECTED?	YES:		NO:	√ Time of Sam	oling	рН	Turbidity	Temp.	Sp. Cond.	
AIR S	TRIPPER I	NFLUENT:									
		FFLUENT:	<u></u>			-					
A/K 3/										and have been your your date	
IS THE	ERE EVIDE	ENCE OF TA	AMPERING/	VANDALI	SM OF WELLS: ?	YE	S:	NO:	\checkmark	_	
			WERE	MANHOL	LES INSPECTED?	YE	s:√	NO:		-	
		WER	RE ELECTRI	CAL BOX	ES INSPECTED?	YES	s:√	NO:		_	
IS WATE	R PRESEN	IT IN ANY N	ANHOLES	OR ELEC	TRICAL BOXES?	YE	s:√	NO:		-	
		lf yes, provi	ide manhole/	electric be	ox ID and descripti	on of any co	rective me	asures below:			
PZ-1B has surface	ce concrete	damage fro	m winter cor	nditions.	PZ-4B, P	Z-6A and PZ	-6C have t	een damaged	by Town c	of Aurora. PZ-	4B
has been improp	erly repaire	d by the To	wn of Aurora								
				s	UBSLAB S	YSTEM					
MANON	METER:	1.8	in. WC		west	east	NOTES	: cfm = 0.05	x fpm (3" F	PVC)	
(Fan Ini	let)		-	FLOW	V (fpm):	ļ					
				FLOV	V (cfm):					······	
			VACUUM	GAUGE (in	n WC)					······	
	INCLU	IDE REMAR	RKS & DESC	RIBE AN	Y OTHER SYSTE	M MAINTEN	ANCE PEI	RFORMED ON	MR. C's S	SITE	
Remarks:	M. Steffa	n - 586 Bui	lding SVE F	an: put "	T" pipe over exha	ust. Inspec	ct horizont	al pipe for dir	ection of s	slope.	
Other Actions:	Swept sp	oruce needl	es and con	es off of t	the Librarty Parki	ng Lot arour	nd well gro	oups PW-6 ar	d PW-7.		
	Shoveled	snow off c	of MWs and	Piezome	eters.						
	586 Build	ling SVE Fa	an: installed	l "T" fittin	g on top of exhau	st pipe.					
	Unit #4 -	- inspected	i horizonta	l length o	of SVE pipe abo	ve the ceili	ng panel	s. Pronounc	ed 11/2' s	slope from	
	Utility Ro	oom down	to elbow a	t outside	e wall below fan.						

	AGWAY	
Remarks:	Site is empty of materials and has been graded and graveled.	
Other Actions	5:	

Mr. C's CLEANERS OM&M

SUMMARY OF FIELD ACTIVITIES BY IEG - 1/2016

DATE	ACTIVITY
4-Jan	OM&M Weekly Inspection. End of month summaries.
5-Jan	Changed bag filters. OM&M office work.
6-Jan	Turn 586 Building SVE Fan off. Mix (3) drums of 1:3 Redux to Water. Clean air intake vent above Man Door.
8-Jan	OM&M office work. 586 Building SVE Fan - drain pipe and start up.
11-Jan	OM&M Weekly Inspection. Shovel snow in front of Treatment Room. Inspect AutoDialer.
13-Jan	OM&M Sampling.
15-Jan	586 Building SVE Fan- drain pipe. Install vent cover over Man Door.
18-Jan	OM&M Weekly Inspection.
20-Jan	Changed Bag Filters. Air Stripper- clean with steel brushes.
21-Jan	Get Supplies. Air Stripper- clean with steel brush and concrete vibrator. Inspect 586 Building SVE System. Install electric heater at Southwest corner. Notified IAE, Inc. of frozen water line.
22-Jan	Air Stripper- clean with Power Washer and vacuum. Get Supplies.
25-Jan	Air Stripper- clean with vacuum. Shovel snow off of piezometers. OM&M Weekly Inspection.
26-Jan	Clean Treatment Room. Inspect 586 Building SVE System with NYSDEC and E&E, Inc. Take Performance Samples.
28-Jan	Get Supplies. Attempt Piezometer Readings - wells are frozen. Inspect 586 Building SVE pipe. Attach exhaust extension and fitting above SVE Fan.

Mr. C's CLEANERS OM&M STATUS OF FIELD ACTIVITIES BY IEG - 1/2016

ACTIVITY	DESCRIPTION	COMPLETION DATE/STATUS
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
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
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 Leaking Ball Valve	Influent ball valve near east side of EQ Tank drips. Inspect/clean and replace if necessary.	in progress
PZ-1B has damage	PZ-2B has surface concrete damage from severe winter conditions this year. Repair chipped concrete with epoxy material.	in progress
Redux usage rapidly increased	The rate of Redux usage increased rapidly during the past several months despite turning the Jesco Pump settings to their lowest levels. Clean pump and test. Adjust clamps on Redux line. Replace pump if necessary.	in progress
Reduce Influent Pump Rate	Lab Tests have shown high levels of VOCs. Try lengthening the time that the Influent Pump runs to increase the Air Sparging time inside the Air Stripper	in progress
Add Air Sparging System	Lab Tests have shown high levels of VOCs. Try adding an Air Sparging system to the sump box of the Air Stripper to increase the treatment of the effluent.	in progress
South Wall should be sealed	South Wall of Treatment Room has leaked into the neighboring unit several times when there have been water related problems. Trim wall insullation matting to reduce moisture retension. Seal base of wall with silicone caulking.	in progress
PW-8 Maintenance	Pull up transducer, pump and vertical pipe. Clean, inspect and reinstall.	Sep-15
PW-6 does not run	Replace transducer and well pump with more powerful model. Cleaned vertical pipe and Underground Enclosure. Replaced corroded connectors in UE.	Sep-15
PW-2 Maintenance	Pull up transducer, pump and vertical pipe. Clean, inspect and reinstall.	Sep-15
PW-3 does not run	Cleaned vertical pipe, transducer and Underground Enclosure. Replaced corroded connectors in UE. Replaced with new pump.	Oct-15
Church Fan Complaint	West SVE fan is not working. Inspect and clean connections inside unit. If fan continues to go off, replace unit. Replaced unit.	Dec-15
Blower Pipe pulled apart	The Blower Pipe between Blower #1 and Blower #2 pulled apart at the fitting. Readjust pipe and secure with flashing, straps and duct tape.	Dec-16
SVE Fan pipe collects water	The SVE Fan pipe on Building 586 collects water. There is a plug just below the fan to drain water out of the horizontal section of the pipe. Inspect system and make corrections to prevent the pipe from filling with water.	in progress
PW-2 Well Pump not operating	Inspect well pump and find that it shorted out. Replace well pump with new unit.	Dec-15

Mr. C's CLEANERS OM&M SUMMARY OF WATER PUMP MAINTENANCE BY IEG - 2016

as of Jan 2016

	ELECTRICAL BOX REPAIR		Sep-09		Sep-09		Jul 09, Sep 09		Apr-13
y	CLEAN OUT & INSPECT I ELECTRICAL BOX		Nov-11	Nov 11, Sep 15	Sep 09, Nov 11	Jan-12	Aug 09, Sep 09, Sep 15		Apr 13, Aug 15
	PUMP OUT WELL		Aug-09	Aug-09	Jul 09, Sep 09		Aug-09	Aug 09, May 10, Aug 11	Aug 09, May 10, Aug 11
	REPLACE ANEROID BELLOWS						Aug 15		Aug 15
	REPLACE TRANSDUCER		Sep 09, Dec 11	Dec 11, Sep 15	Dec 11, Mar 08, Sep 08	Jan 12, Sep 08	Sep 09, Sep 15		
	CLEAN & INSPECT TRANSDUCER	May 10, Jan 12, Oct 15	Nov 11, May 10, Apr 13 Dec 15	Aug 09, Nov 11, Oct 15	May 10, Nov 11, Oct 15	Mar 11, Oct 15	Aug 09, Jul 12, Dec 12, Apr 13, Aug 15	Oct 10, Aug 11, Mar 12, Jul 12, Dec 12, Aug 15	May 10, Aug 11, Jul 12, Dec 12, Apr 13, Aug 15
-	CHECK VALVE						Aug 15	Aug 15	Aug 15
	HORIZONTA L PIPE		Sep-15	Sep-15			Jul 12, Nov 12, Sep 15	Jul 12, Nov 12	Pipe 8/09, Jul 12, Sep 15
	INNER RING				Aug 13				
	PITLESS ADAPTER			Repair adapter			Replaced Aug 15	Replaced Aug 15	Replaced Aug 15
	REPAIR PUMP	May 10, Nov 08			Sep-13				
	REPLACED PUMP	Feb 08, Jan 12	Jul 08, Apr 13 Dec 15	Jul 08, Dec 11, Oct 15	Dec 07, Jan 12	Jul 08, Jan 12	Jun 08, Jul 09, Aug 12, Nov 12, Sep 15	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, Oct 15	Jun 08, Aug 09, May 10, Apr 13, Sep 15	Jun 08, Aug 09, May 10, Sep 15	Dec 07, May 08, Sep 09, May 10, Jan 12, Oct 15	Jan 12, May 08, Oct 15	Jun 08, Jul 09, Jul 12, Nov 12, Aug 15	Jun 08, Jul 09, May 10, Oct 10, Aug 11, Mar 12, Jul 12, Nov 12, Aug 15	Jun 08, Aug 09, May 10, Aug 11, Jul 12, Dec 12, Aug 15
	0	RW - 1	PW - 2	PW - 3	PW - 4	PW - 5	PW - 6	7 - Wq	PW - 8

as of Jan 2016

SUMMARY OF WATER PUMP STATUS - 2016

Mr. C's CLEANERS OM&M

NEEDS U.E. REPAIR YES -Asphalt patch DONE YES -bolts YES -bolts 0 Z 0 Z 0N 0 Z CLEANE NEEDS U.E. 0 N 0 Z g g g g g 2 Ω BELLOWS ANEROID NEEDS g g 8 g 2 g NEEDS NEW TRANSDUCE R g Q g 8 CHECK TRANSDUCE VALVE R INSPECTION INSPECTION NEEDS Q g g g 2 8 g 2 NEEDS CHECK VALVE PITLESS NEEDS ADAPTER HORIZONTAL LINE PURGE g g 0 Z NEEDS WELL CLEAN-OUT YES YES 0 N g g NEEDS P.A. OR PIPE NEEDS NEW INNER RING PZ-1B PZ-4B Q Q g g g 2 NEED S NEW PUMP g g g 8 2 N N 8 8 CLEANING & INSPECTION NEEDS YES Q 8 Ŋ N0 2 9 Z g PW-8 PW-5 9-Wd PW-2 PW-3 PW-4 L-Wq RW-1 Q

MR. C'S DRY CLEANERS SITE NYSDEC Site #9-15-157 OM&M: PIEZOMETER WATER LEVEL LOG

Date:	2-Feb-16		: 2-Feb-16		Measuremer	its taken by:	R. 4	Allen	
RW-1	17.50 ft	Comments:		PW-5	16.10 ft	Comments:			
PZ-1A	ft	- Comments:	Auto parked over	PZ-5A	10.53 ft	Comments:			
PZ-1B	10.79 ft	- Comments:		PZ-5B	10.61 ft	Comments:			
PZ-1C	12.15 ft	- Comments:		PZ-5C	10.20 ft	Comments:			
PZ-1D	12.32 ft	Comments:		PZ-5D	11.00 ft	Comments:			
PW-2	14.50 ft	Comments:		PW-6	15.80 ft	Comments:			
PZ-2A	10.83 ft	Comments:		PZ-6A	11.54 ft	Comments:			
PZ-2B	11.14 ft	Comments:		PZ-6B	11. 4 1 ft	Comments:			
PZ-2C	10.61 ft	- Comments:		PZ-6C	11.64 ft	Comments:			
MW-7	11.16 ft	Comments:	Substitute for 2D	PZ-6D	11.38 ft	Comments:	Shown as RW-2 on map		
PW-3	ft	Comments:	Auto parked over	PW-7	ft	Comments:	injection operation		
PZ-3A	11.29 ft	Comments:		MPI-6S	ft	Comments:	injection operation		
PZ-3B	11.37 ft	Comments:		PZ-7B	11.17 ft	Comments:			
PZ-3C	11.91 ft	Comments:		OW-B	11.08 ft	Comments:			
PZ-3D	11.38 ft	Comments:		PZ-7D	ft	Comments:	injection operation		
PW-4	19.20 ft	Comments:		PW-8	19.80 ft	Comments:			
PZ-4A	10.97 ft	- Comments:		PZ-8A	8.11 ft	Comments:			
PZ-4B	10.66 ft	- Comments:		PZ-8B	8.03 ft	Comments:			
PZ-4C	ft	- Comments:	sealed over	PZ-8C	7.69 ft	Comments:	·····		
PZ-4D	10.28 ft	- Comments: -		PZ-8D	7.92 ft	Comments:			

	PI	JMPS IN OPERATION	D	URING MEASUREMEN	TS	
RW-1 pump on?	Yes	No		PW-5 pump on?	Yes	No
PW-2 pump on?	Yes	No		PW-6 pump on?	Yes	No
PW-3 pump on?	Yes	No		PW-7 pump on?	Yes	No
PW-4 pump on?	Yes	No		PW-8 pump on?	Yes	No

<u>Attachment B</u> Analytical Report from Spectrum Analytical Laboratories

Analytical Data Package Work Order ID: R0032 Sampled by IEG: January 13, 2016 Received by Lab: January 15, 2016 Date of Final Report: January 21, 2016



Spectrum Analytical

✓ Final Report
Re-Issued Report
Revised Report
Report Date:
21-Jan-16 16:30

Laboratory Report

Ecology and Environment Engineering P.C.	Work Order:	R0032
368 Pleasant View Drive	Project :	Mr. C's Dry Cleaning
Lancaster, NY 14086	Project #:	1703074.0011

Attn: Michael Steffan

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
R0032-01	INFLUENT	Aqueous	13-Jan-16 12:00	15-Jan-16 11:10
R0032-02	EFFLUENT	Aqueous	13-Jan-16 12:00	15-Jan-16 11:10

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.

N/A

Eurofins Spectrum Analytical (ESA-RI) 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 Connecticut Delaware Florida Massachusetts New Hampshire New Jersey New York Rhode Island USDA USEPA - ISM USEPA - SOM

PH-0153 N/A E87664 M-RI907 2060 RI001 11522 LAI00349 P330-08-00023 EP-W-14-032 EP-W-14-032





Certificate # L2247 Testing

Authorized by:

Yihai Ding Laboratory Director

Sample Transmittal Documentation

Special Handling: TAT- Ind icate Date Needed: <u>Strick</u> All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes. Samples disposed of after 60 days unless otherwise instructed.	r CS OM 2 M t Aurora State: MV R. Allen	QA/QC Reporting Notes QA/QC Reporting Level I Devel II Devel II Devel II Devel II Devel II Devel II State-specific reporting standards: Rate-specific reporting standards: CINC The C Salumple	国际 Condition upon receipt: Custody Seals: 日かんの Condition upon receipt: Custody Seals: 日からの Condition upon receipt: Custody Seals: 日かいのA Prosent 日加4mbern 日のの Revised Feb 2013
RECORD 13.646 Camp Avenue N Kingstown, RI 02852 (401) 732-3400	Project No.: Project No.: Site Name: $M\Gamma$ Location: $East$	I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I </td <td></td>	
Fage l of l CUSTODY RECORD B 8405 Benjamin Road, Ste A 24,6 Camp Aven Tampa, FL 33634 N Kingstown, RU 02 (813) 888-9507 (401) 732-3400	EZE, AC RON:	A A A Type A A A Type A A A Type A A A Type A A A A Type A A A A A A A A A A A A A A A A A A A	Date: Time: 1/15/1/6 1011 % www.spectrum-analytical.com
CHAIN O I 11 Almgren Drive Agawam, MA 01001 (413) 789-9018	Invoice To: 6 80 P.O. No:	$\frac{0=H_3PO_4}{WW=Wastewater}$ $MW=Wastewater$ $SL=Sludge A=Air$ $X3=$ $Date: Time:$ $h \left\{ 2 \sqrt{2} \partial t \right\}$	Received by:
SPECTRUM ANALYTICAL, INC. Fedduring HANIBAL TECHNOLOGY	Report To: EZE AC 368 Fleesart Tew Dr Lancaster NY 14086 Telephone #: (716) 684 - 5060	1-Na ₂₀₂₀₃ 2-FICL 3-L2004 8= NaHSO4 9= Deionized Water 10 DW=Drinking Water 00 SW= Surface Water 01 NFL 01 NFL 01 NFL 02 E E F 02 E E F	Relinquished by. Relinquished by.

R0032

aye 3 Of

* Volatiles *

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

CLIENT SAMPLE NO.

INFLUENT

Lab Name:	EUROFINS SPE	CTRUM A	NALY	TICAL,	INC.	Contract:	
Lab Code:	ESAI-RI	Case N	No.:	R0032		Mod. Ref No.:	SDG No.: SR0032
Matrix: (SC)IL/SED/WATEF	() WAT	ER			Lab Sample ID:	R0032-01C
Sample wt/v	vol: 5.	00 (g/1	mL)	ML		Lab File ID:	V5Q6614.D
Level: (TRA	CE/LOW/MED)	LOW				Date Received:	01/15/2016
% Moisture:	not dec.					Date Analyzed:	01/15/2016
GC Column:	DB-624		ID:	0.25	(mm)	Dilution Factor:	1.0
Soil Extrac	t Volume:				(uL)	Soil Aliquot Volu	ume: (uL)
Purge Volum	ne: 5.0				(mL)		

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	11	
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.4	
1634-04-4	Methyl tert-butyl ether	3.9	
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	210	Е
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	43	
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	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	490	E
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
1330-20-7	Xylene (Total)	1.0	U

som15.09.23.1015

SW846

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

CLIENT SAMPLE NO.

INFLUENT

Lab Name:	EUROFINS SPE	CTRUM ANALY	TICAL, I	INC.	Contract:	
Lab Code:	ESAI-RI	Case No.:	R0032		Mod. Ref No.:	SDG No.: SR0032
Matrix: (SC	DIL/SED/WATEF	R) WATER			Lab Sample ID:	R0032-01C
Sample wt/w	vol: 5.	00 (g/mL)	ML		Lab File ID:	V5Q6614.D
Level: (TRA	ACE/LOW/MED)	LOW			Date Received:	01/15/2016
% Moisture	: not dec.				Date Analyzed:	01/15/2016
GC Column:	DB-624	ID:	0.25	(mm)	Dilution Factor:	1.0
Soil Extra	ct Volume:			(uL)	Soil Aliquot Vol	ume: (uL)
Purge Volu	me: 5.0			(mL)		

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	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
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

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som15.09.23.1015

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

CLIENT SAMPLE NO.

INFLUENTDL

Lab Name:	EUROFINS SPE	CTRUM ANALY	TICAL, I	NC.	Contract:	
Lab Code:	ESAI-RI	Case No.:	R0032		Mod. Ref No.:	SDG No.: SR0032
Matrix: (So	OIL/SED/WATEF	R) WATER			Lab Sample ID:	R0032-01CDL
Sample wt/	vol: 5.	00 (g/mL)	ML		Lab File ID:	V5Q6617.D
Level: (TR	ACE/LOW/MED)	LOW			Date Received:	01/15/2016
% Moisture	: not dec.				Date Analyzed:	01/15/2016
GC Column:	DB-624	ID:	0.25	(mm)	Dilution Factor:	4.0
Soil Extra	ct Volume: _			(uL)	Soil Aliquot Vol	ume: (uL)
Purge Volu	me: 5.0			(mL)		

		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	9.5	D
74-83-9		4.0	U
75-00-3	Chloroethane .	4.0	U
75-69-4	Trichlorofluoromethane	4.0	U
75-35-4	1,1-Dichloroethene	4.0	U
67-64-1	Acetone	_ 20	U
75-15-0	Carbon disulfide	4.0	U
75-09-2	Methylene chloride	4.0	U
156-60-5	trans-1,2-Dichloroethene	4.0	U
1634-04-4	Methyl tert-butyl ether	4.1	D
75-34-3	1,1-Dichloroethane	4.0	U
78-93-3	2-Butanone	20	U
156-59-2	cis-1,2-Dichloroethene	200	D
67-66-3	Chloroform	4.0	U
71-55-6	1,1,1-Trichloroethane	4.0	U
56-23-5	Carbon tetrachloride	4.0	U
107-06-2	1,2-Dichloroethane	4.0	U
71-43-2	Benzene	4.0	U
79-01-6	Trichloroethene	40	D
78-87-5	1,2-Dichloropropane	4.0	U
75-27-4		4.0	U
10061-01-5	cis-1,3-Dichloropropene	4.0	U
108-10-1	4-Methyl-2-pentanone	20	U
108-88-3	Toluene	4.0	U
10061-02-6	trans-1,3-Dichloropropene	4.0	U
79-00-5	1,1,2-Trichloroethane	4.0	U
127-18-4	Tetrachloroethene	480	D
591-78-6	2-Hexanone	20	U
124-48-1	Dibromochloromethane	4.0	U
106-93-4	1,2-Dibromoethane	4.0	U
108-90-7	Chlorobenzene	4.0	U
100-41-4	Ethylbenzene	4.0	U
1330-20-7	Xylene (Total)	4.0	U

som15.09.23.1015

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

CLIENT SAMPLE NO.

INFLUENTDL

Lab Name: EUROFINS	SPECTRUM ANALY	TICAL, INC.	Contract:	
Lab Code: ESAI-RI	Case No.:	R0032	Mod. Ref No.:	SDG No.: SR0032
Matrix: (SOIL/SED/W	ATER) WATER		Lab Sample ID:	R0032-01CDL
Sample wt/vol:	5.00 (g/mL)	ML	Lab File ID:	V5Q6617.D
Level: (TRACE/LOW/M	ED) LOW		Date Received:	01/15/2016
<pre>% Moisture: not dec</pre>			Date Analyzed:	01/15/2016
GC Column: DB-624	ID:	0.25 (mm)	Dilution Factor:	4.0
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	4.0	U
75-25-2	Bromoform	4.0	U
98-82-8	Isopropylbenzene	4.0	U
79-34-5	1,1,2,2-Tetrachloroethane	4.0	U
541-73-1	1,3-Dichlorobenzene	4.0	U
106-46-7	1,4-Dichlorobenzene	4.0	U
95-50-1	1,2-Dichlorobenzene	4.0	U
96-12-8	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	U
110-82-7	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.

EFFLUENT

Lab Name: EUROFINS SPE	CTRUM ANALYTI	ICAL, INC.	Contract:	
Lab Code: ESAI-RI	Case No.: H	R0032	Mod. Ref No.:	SDG No.: SR0032
Matrix: (SOIL/SED/WATEF	() WATER		Lab Sample ID:	R0032-02C
Sample wt/vol: 5.	00 (g/mL) N	ML	Lab File ID:	V5Q6613.D
Level: (TRACE/LOW/MED)	LOW		Date Received:	01/15/2016
% Moisture: not dec.			Date Analyzed:	01/15/2016
GC Column: DB-624	ID: (0.25 (mm)	Dilution Factor:	1.0
Soil Extract Volume:		(uL)	Soil Aliquot Volu	ume: (uL)
Purge Volume: 5.0		(mL)		

		CONCENTRATION UNITS:	1
CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	υ
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	2.0	
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethene	23	
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	3.2	
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	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	27	
591-78-6		5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
1330-20-7	Xylene (Total)	1.0	U

som15.09.23.1015

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

CLIENT SAMPLE NO.

EFFLUENT

Lab Name:	EUROFINS SPE	CTRUM ANALY	TICAL, INC.	Contract:	
Lab Code:	ESAI-RI	Case No.:	R0032	Mod. Ref No.:	SDG No.: SR0032
Matrix: (SC	DIL/SED/WATER	R) WATER		Lab Sample ID:	R0032-02C
Sample wt/v	vol: 5.	.00 (g/mL)	ML	Lab File ID:	V5Q6613.D
Level: (TRA	ACE/LOW/MED)	TOM		Date Received:	01/15/2016
% Moisture:	: not dec.			Date Analyzed:	01/15/2016
GC Column:	DB-624	ID:	0.25 (mm)	Dilution Factor:	1.0
Soil Extrac	ct Volume:		(uL)	Soil Aliquot Vol	ume: (uL)
Purge Volur	ne: 5.0		(mL)		

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	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
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

R0032

* Wet Chemistry *

Eurofins Spectrum Analytical, Inc. -- ESAI-RI

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SM 2340B HARDNESS by Calculation				SM2340_W
Hardness, Ca/Mg (As CaCO3)	330	4.0 mg/L CaCO3	101/19/2016 11:11	83839
SM 4500 H+ B pH VALUE				SM4500_H+
pH	7.9	1.0 S.U.	1 01/15/2016 15:20	R92725
The pH value was measured at the temperature of	18	С	1 01/15/2016 15:20	R92725

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quanititation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	DF - Dilution Factor	RL - Reporting Limit

01/20/2016

Eurofins Spectrum Analytical, Inc. -- ESAI-RI

Project: Mr. C's Dry Cleaning Collection Date: 01/13/16 12:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SM 2340B HARDNESS by Calculation				SM2340_W
Hardness, Ca/Mg (As CaCO3)	330	4.0 mg/L CaCO3	1 01/19/2016 11:14	83839
SM 4500 H+ B pH VALUE				SM4500_H+
рН	7.4	1.0 S.U.	1 01/15/2016 15:33	R92725
The pH value was measured at the temperature of	18	С	1 01/15/2016 15:33	R92725

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery
	J - Analyte detected below quanititation limits	R - RPD outside acc
	B - Analyte detected in the associated Method Blank	E - Value above qua
	DF - Dilution Factor	RL - Reporting Lim

accepted recovery limits

uantitation range

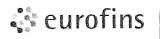
RL - Reporting Limit

01/20/2016

Last Page of Data Report

<u>Attachment C</u> Analytical Report from Spectrum Analytical Laboratories

Analytical Data Package Work Order ID: R0059 Sampled by IEG: January 26, 2016 Received by Lab: January 27, 2016 Date of Final Report: February 3, 2016



Spectrum Analytical

✓	Final Report
	Re-Issued Report
	Revised Report
	Report Date:
	03-Feb-16 13:30

Laboratory Report

Ecology and Environment Engineering P.C.	Work Order:	R0059
368 Pleasant View Drive	Project :	Mr. C's Dry Cleaning
Lancaster, NY 14086	Project #:	1703074.0011

Attn: Michael Steffan

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
R0059-01	INFLUENT	Aqueous	26-Jan-16 14:30	27-Jan-16 08:54
R0059-02	EFFLUENT	Aqueous	26-Jan-16 14:30	27-Jan-16 08:54

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.

N/A PH-0153

Eurofins Spectrum Analytical (ESA-RI) 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 Connecticut Delaware Florida Massachusetts New Hampshire New Jersey New York Rhode Island USDA USEPA - ISM USEPA - SOM

N/A E87664 M-RI907 2060 RI001 11522 LAI00349 P330-08-00023 EP-W-14-032 EP-W-14-032





Certificate # L2247 Testing

Authorized by:

Yihai Ding Laboratory Director

Sample Transmittal Documentation

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Page 3 of 28

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

CLIENT SAMPLE NO.

INFLUENT

Lab Name: EUROFINS SPE	CTRUM ANALY	TICAL, ING	C. Contract:	
Lab Code: ESAI-RI	Case No.:	R0059	Mod. Ref No.:	SDG No.: SR0059
Matrix: (SOIL/SED/WATE)	R) WATER		Lab Sample ID:	R0059-01A
Sample wt/vol: 5	.00 (g/mL)	ML	Lab File ID:	V1N8857.D
Level: (TRACE/LOW/MED)	LOW		Date Received:	01/27/2016
% Moisture: not dec.			Date Analyzed:	01/27/2016
GC Column: DB-624	ID:	0.25 (r	nm) Dilution Factor:	4.0
Soil Extract Volume: _		(1	L) Soil Aliquot Vol	ume: (uL)
Purge Volume: 5.0		(1	nL)	

	l	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	13	
74-83-9	Bromomethane	4.0	U
75-00-3	Chloroethane	4.0	U
75-69-4	Trichlorofluoromethane	4.0	U
75-35-4	1,1-Dichloroethene	4.0	U
67-64-1	Acetone	20	U
75-15-0	Carbon disulfide	4.0	U
75-09-2	Methylene chloride	4.0	U
156-60-5	trans-1,2-Dichloroethene	4.0	U
1634-04-4	Methyl tert-butyl ether	4.0	U
75-34-3	1,1-Dichloroethane	4.0	U
78-93-3	2-Butanone	20	U
156-59-2	cis-1,2-Dichloroethene	210	
67-66-3	Chloroform	4.0	U
71-55-6	1,1,1-Trichloroethane	4.0	U
56-23-5	Carbon tetrachloride	4.0	U
107-06-2	1,2-Dichloroethane	4.0	U
71-43-2	Benzene	4.0	U
79-01-6	Trichloroethene	39	
78-87-5	1,2-Dichloropropane	4.0	υ
75-27-4	Bromodichloromethane	4.0	U
10061-01-5	cis-1,3-Dichloropropene	4.0	U
108-10-1	4-Methyl-2-pentanone	20	U
108-88-3	Toluene	4.0	บ
10061-02-6	trans-1,3-Dichloropropene	4.0	U
79-00-5	1,1,2-Trichloroethane	4.0	U
127-18-4	Tetrachloroethene	430	
591-78-6	2-Hexanone	20	U
124-48-1	Dibromochloromethane	4.0	U
106-93-4	1,2-Dibromoethane	4.0	U
108-90-7	Chlorobenzene	4.0	U
100-41-4	Ethylbenzene	4.0	U
1330-20-7	Xylene (Total)	4.0	U

som15.09.23.1015

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

CLIENT SAMPLE NO.

INFLUENT

Lab Name:	EUROFINS SPE	CTRUM ANAL	YTICAL, 1	INC.	Contract:	
Lab Code:	ESAI-RI	Case No.:	R0059		Mod. Ref No.:	SDG No.: SR0059
Matrix: (SC	DIL/SED/WATEF	R) WATER			Lab Sample ID:	R0059-01A
Sample wt/v	vol: 5.	.00 (g/mL)	ML		Lab File ID:	V1N8857.D
Level: (TRA	ACE/LOW/MED)	TOM			Date Received:	01/27/2016
% Moisture:	not dec.				Date Analyzed:	01/27/2016
GC Column:	DB-624	ID:	0.25	(mm)	Dilution Factor:	4.0
Soil Extrac	ct Volume:			(uL)	Soil Aliquot Vol	ume: (uL)
Purge Volum	ne: 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	U
79-34-5	1,1,2,2-Tetrachloroethane	4.0	U
541-73-1	1,3-Dichlorobenzene	4.0	U
106-46-7	1,4-Dichlorobenzene	4.0	υ
95-50-1	1,2-Dichlorobenzene	4.0	ט
96-12-8	1,2-Dibromo-3-chloropropane	4.0	υ
120-82-1	1,2,4-Trichlorobenzene	4.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.0	U
110-82-7	Cyclohexane	4.0	U
79-20-9	Methyl acetate	4.0	U
108-87-2	Methylcyclohexane	4.0	U

som15.09.23.1015

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

CLIENT SAMPLE NO.

EFFLUENT

Lab Name: EUROFINS SPE	CTRUM ANALY	TICAL, II	NC.	Contract:	
Lab Code: ESAI-RI	Case No.:	R0059		Mod. Ref No.:	SDG No.: SR0059
Matrix: (SOIL/SED/WATER) WATER			Lab Sample ID:	R0059-02A
Sample wt/vol: 5.	00 (g/mL)	ML		Lab File ID:	V1N8856.D
Level: (TRACE/LOW/MED)	LOW			Date Received:	01/27/2016
% Moisture: not dec.				Date Analyzed:	01/27/2016
GC Column: DB-624	ID:	0.25	(mm)	Dilution Factor:	1.0
Soil Extract Volume:			(uL)	Soil Aliquot Volu	ume: (uL)
Purge Volume: 5.0			(mL)		

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	υ
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
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	υ
75-34-3	1,1-Dichloroethane	1.0	U
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	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5		1.0	U
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
1330-20-7	Xylene (Total)	1.0	U

som15.09.23.1015

SW846

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

CLIENT SAMPLE NO.

EFFLUENT

Lab Name: EUROFIN:	S SPECT	RUM ANALY	TICAL,	INC.	Contract:	
Lab Code: ESAI-RI	С	ase No.:	R0059		Mod. Ref No.:	SDG No.: SR0059
Matrix: (SOIL/SED/	VATER)	WATER			Lab Sample ID:	R0059-02A
Sample wt/vol:	5.00	(g/mL)	ML		Lab File ID:	V1N8856.D
Level: (TRACE/LOW/	MED) L	OW	- ANT		Date Received:	01/27/2016
% Moisture: not de	z.				Date Analyzed:	01/27/2016
GC Column: DB-624		ID:	0.25	(mm)	Dilution Factor:	1.0
Soil Extract Volum	e:			(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	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	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
110-82-7	Cyclohexane	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U

R0059

Last Page of Data Report

<u>Attachment D</u> Summary of Site Utility Costs and Projections January to December 2016

Mr. C's Dry Cleaners Site - Remedial Treatment Utility Costs	ners Site - Re	medial Treatme	nt Utility Costs								ATTACI	ATTACHMENT D
NYSDEC Work Assignment #10C3074.0010.07	ssignment #	10C3074.0010.0						Utility Budget:		Electric:	\$25,300.00	
12 Months of System Operation and Maintenance	stem Operatio	on and Mainten	ance							Telephone:	\$540.00	
January 2016 Report	port									Gas	\$1,120.00	
Gas, Telephone, and Electric		- - - -								Total:	\$26,960.00	
Utility Provider	Account #	E&E Cost Center	Description	Jan-2016	Feb-2016	Mar-2016	Apr-2016	May-2016	Jun-2016			
New York State E&G	1001-0310-422	EN-003229-0001-03TTO	Mr. C's Electric Costs	\$ 577.59								
New Tork State Exco National Fuel Gas	5819628-05	EN-003229-0001-03TTO	Mr. C's Natural Gas Costs	\$ 68.33								
			Totals	\$	r \$	- 5	' s	- -	, s			
	-			Jul-2	Aug-2016	Sep-2016	Oct-2016	Nov-2016	Dec-2016			Ave. /Month
			Mr. C's Electric Costs								\$	577.59
			Mr. C's Natural Gas Costs								••	68.33
			Totals	\$0.00	*	د -	*	- s	s -		\$	645.92
			Electric - Mr. C's		\$577.59		Notes:			2		
			Natural Gas - Mr. C's		\$ 68.33		,	Overbilled natun	Overbilled natural gas costs - no charges	charges		
	Grand	1 Total - NYSE&G/Natior	Grand Total - NYSE&G/National Fuel Gas Costs To Date	\$	645.92			Estimated Reading	ling	\$ 333.44	in red -adjusted billing	lling
Phone												
Utility Provider	Phone #	E&E Cost Center	Location Description	Jan-2016	Feb-2016	Mar-2016	Apr-2016	May-2016	Jun-2016			
Verizon	716-652-0094	EN-003229-0001-03TTO	Mr. C's Telephone Costs									
Account #												
716 652 0094 416 26 2	• •											
				Jul-2016	Aug-2016	Sep-2016	Oct-2016	Nov-2016	Dec-2016			Ave./Month
		EN-003229-0001-03TTO									\$	•
											_	
		Veri	Verizon Costs to Date - Mr. C's	φ								
		Grand Total A	Grand Total All Litilities To Data	u	645.92							
				•								
											*	
									-			
											-	
	· · · · · · · · · · · · · · · · · · ·											
-												

Dry Cleane	ers Site - Rei	Mr. C's Dry Cleaners Site - Remedial Treatment Utility Costs	nt Utility Costs						ATTACHMENT D
C Work As	NYSDEC Work Assignment #11					Budget Remaining:	Electric:	\$24.722.41	
ths of Syst	em Operatio	12 Months of System Operation and Maintenance	nce			> 		\$540.00	
January 2016 Report	ort						Gas	\$1 051 67	
	Optimum Operating						222	10.100(1*	
	Hours	Actual Operating Hours	Up-time Percentage	Capacity	Comments:		Total:	\$26.314.08	
January-15	672	672	100.00%	9.7%	Very mild winter - very little snow	ow.			
February-15			i0///i0#						
March-15			#DIV/0						
April-15			#DIV/0[
CL-YBM			#DIV/0						
July-15									
August-15			#DIV/0						
September-15			i0//I0#						
October-15			i0//IC#						
November-15			#DIV/0]						
December-15			#DIV/0I						
Totals to Date	672	672	100.00%						
city is based on initi	ial operating groundwat	er flows from the elaht installe	Percent Capacity is based on initial operating groundwater flows from the eight installed pumps from 9/02. Evaluated on	Du total gallons disch	total callons discharced for monthly onerating time				
o discharges calcula	ated as an average of 7	3 gpm as the total for all 8 purr	Maximum pump discharges calculated as an average of 78 gpm as the total for all 8 pumps at the site if all pumps operate		exception of groundwater pump	100%. With the exception of groundwater pump RW-1, all others run on a batch basis.	-		
Monthly Average Costs	sts								
									· · · · · · · · · · · · · · · · · · ·
Mr. C's Electric	\$ 577.59								
Agway Electric									
	\$ 68.33								
Mr. C's Telephone									
Ave. Utility Cost Total	\$ 645.92	times	12 Month Estimate	\$8,396.96					

p

International Specialists in the Environment

BUFFALO CORPORATE CENTER 368 Pleasant View Drive Lancaster, New York 14086 Tel: (716) 684-8060, Fax: (716) 684-0844

March 11, 2016

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 # 915157 February 2016 Operations, Maintenance, and Monitoring Report

Dear Mr. Welling:

Ecology and Environment Engineering, P.C. (EEEPC) is pleased to provide the February 2016 Operations, Maintenance, and Monitoring (OM&M) Report for the Mr. C's Dry Cleaners Site, NYSDEC Site # 915157, located in the Village of East Aurora, New York. A copy of the bi-monthly inspection report prepared by EEEPC's subcontractor, Iyer Environmental Group, PLLC (IEG), is provided in <u>Attachment A</u>. Piezometer water level measurements are provided in <u>Attachment B</u>. The site utility information is provided in <u>Attachment C</u>.

Per your request the Mr. C's treatment system was shutdown beginning February 4, 2016, for three months to evaluate the possible rebound of contaminants in groundwater. No influent /effluent sampling was performed during this time as a result of the treatment system shutdown. Monthly depth to water measurements were taken at the area groundwater monitoring wells, piezometers, and pumping wells during this shutdown period. Another round of groundwater sampling will be performed at the end of the three month shutdown period to evaluate the potential for rebound of the volatile organic compounds around the Mr. C's site.

In review of the on-site treatment system operations, monitoring and maintenance for February 2016, EEEPC offers the following comments and highlights:

Operational Summary

Mr. C's Site - Remedial Operations and Maintenance Information

- The monthly checklist for system inspections from IEG is provided as <u>Attachment A</u> for 2/1/16.
- Piezometer water level readings are provided for 2/2/16, 2/8/16, and 2/23/16, and provided in <u>Attachment B</u>.
- On 2/4/16, the treatment system was shut down. Redox drums, Jesco pumps, and the air stripper sump box and trays were cleaned. Bag filters were changed.
- SVE systems at the treatment room and 586 Main St. building were drained.
- Damage to PZ-4B was encountered and the Town of East Aurora was notified.

Mr. William Welling, Project Manager March 11, 2016 Page 2 of 3

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

- SSDS Unit manometer in the Mr. C's Treatment Bldg. (586 Main Street) maintained a subslab pressure ranging from -1.7 to -1.8 inches of water column over the reporting month of February 2016.
- 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.
- The basement SSDS unit of the 591 Main Street location has been installed and is operational. The second SSDS unit installation on the first floor was installed and operational in January 2016. Final Engineering Report is being prepared and will be issued in March 2016.
- Final construction reports for five of seven individual locations where SSDS units were installed were issued in February and March 2016.
 - 572-576 Main Street Intrepid Automotive Property
 - 578-580 Main Street Mark Jawrowski Property
 - 586 Main Street, Suite 4 Intrepid Automotive Property, Tenant Country Cupboard
 - 594 Main Street Mark Jawrowski property tenant Aurora Outfitters
 - 16 Paine Avenue Boy's and Girl's Club
- The remaining two of seven final construction reports will be issued in March 2016 Mr. C's Treatment building and 591 Main Street.
- Problems being encountered with moisture and freeze up in the fan system at the County Cupboard SSDS unit. The SSDS is under review by GES and EEEPC. Issue to be resolved in March '16.
- Discussing new installations of SSDS unit at 23 Paine and 31 Paine Ave. EEEPC needs letter of determination of SSDS from NYSDOH to the property owner.

Status of Bioremediation Direct Push Injection Work

- Additional review of the recommendations in the summary report to be evaluated with the Remedial Site Optimization (RSO) program.
- The draft RSO was issued to NYSDEC on December 8, 2015.

Soil Vapor Intrusion Investigation Program ('15-'16)

- The Phase 3 SVII Report was issued to NYSDEC / NYSDOH on August 11, 2015.
- Discuss new property locations with NYSDEC / NYSDOH for SVII work in '15-'16.

Site Management Plan

- EEEPC submitted the updated/revised SMP to NYSDEC and NYSDEC Region 9 on March 2, 2015.
- This is an active site document, so future revisions will be performed once major changes to the management of the site are required after optimization evaluation is performed.

Mr. William Welling, Project Manager March 11, 2016 Page 3 of 3

Annual Long-term Groundwater Monitoring Well Report

- The 2015 Annual Long-term Groundwater Monitoring Well field work was completed in October 2015.
- Report of 2015 annual Groundwater results was issued to NYSDEC on December 21, 2015.
- Another round of groundwater samples to be taken prior to treatment system restart. Anticipated start date of groundwater sampling is April 25, 2016.

Periodic Review Report (PRR)

• The 2015 Periodic Review Report was issued to NYSDEC on January 29, 2015.

If you have questions regarding the February 2016 OM&M report summary, please do not hesitate to contact me at 716-684-8060.

Very Truly Yours, Ecology and Environment Engineering, P. C.

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Michael G. Steffan Project Manager

cc: D. Szymanski, Region 9, NYSDEC - Buffalo w/ attachments D. Iyer, IEG – w/attachments CTF- 10C3074.0011.07

Table 1Mr. C's Dry Cleaners Site RemediationSite #915157System Operation and Management

	-dU	Up-time			VOC Removal	
	Reporting	Operational	Treated Effluent	Influent VOCs	Effluent	VOCs Removed
Month	Hours	Up-time	(gallon)	(hg/L)	VOCs(µg/L)	(lbs.)
(Up-time from 9/5/02 to 01/04/16)	111,949.50	95.23%	128,814,819	NA	NA	1,614.16
January 4, 2016 - February 1, 2016	672	100.00%	305,578	692.0	0.0	1.76
February 1, 2016 - February 29, 2016	0	0.00%	0	0.0	0.0	0.00
		~~ •				1

1.76	1,615.93
0.00	NA
692.00	NA
305,578	129,120,397.00
1.00	0.95
672.00	112,621.50
Total in 2016	Total from startup

NOTES:

- 1. Up-time based as percentage of total reporting hours.
- 2. Treatment system operated by the Tyree Organization Ltd. from 9/02 9/03.
- 3. Treatment system operated by O&M Enterprises Inc. from 10/03 7/07.
- 4. Treatment system operated by Iyer Environmental Group from 7/07 to present.
- 5. VOC removal calculations are based on monthly water samples and assumes samples are representative of the entire reporting period.
 - 6. VOC removal calculations assume that non-detect values = 0 ug/L.
 - 7. Total VOCs summations include estimated "J" values. 8. VOC removal calculations are based on effluent totalizer readings.
- 9."Influent VOCs" and "Effluent VOCs" values given above is the summation of values for individual compounds given in monthly analytical reports.
 - 10. Unit conversion: 1 pound = 453.5924 grams. 1 gallon = 3.785 liters
 - 11. Formula for the VOC removal calculation:
- (VOCs influent VOCs Effluent) (ug/L) · (1g/10⁶ ug) · (1 lb/453.5924 g) · (Monthly process water)(gal) · (3.785 L/gallon)
 - 12. Using the 2/2/16 analytical results.

Table 2Mr. C's Dry Cleaners Site RemediationSite #915157Effluent Discharge Criteria & Analytical Compliance Results

Parameter/Analyte	Daily Maximum ¹	Units	February - Effluent Analytical Values - Compliance
Flow (Average)	N/A	gpd	No Sampling Performed
pH	6.0 - 9.0	standard units	<u></u>
1,1 Dichloroethene	10	μg/L	
1,1 Dichloroethane	10	μg/L	
cis-1,2-dichloroethene	10	μg/L	
Trichloroethene	10	μg/L	
Tetrachloroethene	10	μg/L	
Vinyl Chloride	10	μg/L	
Benzene	5	μg/L	
Ethylbenzene	5	μg/L	
Methylene Chloride	10	μg/L	
1,1,1 Trichloroethane	10	μg/L	
Toluene	5	μg/L ~	
Methyl-t-Butyl Ether (MTBE)	NA	ug/L	
o-Xylene ²	5	μg/L	
m, p-Xylene ²	10	μg/L	
Total Xylenes	NA	ug/L	
Iron, total	600	μg/L	No Sampling Performed
Aluminum	4,000	μg/L	
Copper	48	μg/L	
Lead	11	μg/L	
Manganese	2,000	μg/L	
Silver	100	μg/L	
Vanadium	28	μg/L	
Zinc	230	μg/L	
Total Dissolved Solids	850	mg/L	
Total Suspended Solids	20	mg/L	
Hardness	N/A	mg/L	
Cyanide, Free	10	μg/L	

NOTES:

1. "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: No treatment system operations in February 2016.

7. "J" indicates 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.

10. "NS" indicates that the parameter analysis was not sampled.

40 Indicates non-compliance with the NYSDEC effluent discharge requirements NR Indicates Not Reported by Lab

Table 3-1 Mr. C's Dry Cleaners Site Remediation NYSDEC Site #915157 February 2016 VOC Analytical Summary

Γ	Based	on the 1/13/16 Efflu	· · · ·	ical Results
	Influent	Effl	uent	Cleanup
Compound	Concentratio	n* Concent	ration**	Efficiency***
	(ug/L)	(119	(/L)	(%)
Acetone	NO Samplin	g Performed in Februa	ry '16	
Benzene		<u> </u>	<u> </u>	
2-Butanone				
cis-1, 2-Dichloroethene				
Chloroform				
Chloromethane				
Methylene chloride				
Methyl tert-butyl ether (MTBE)				
Methyl acetate				
Tetrachloroethene (PCE)				
Toluene				
Trichloroethene (TCE)				
Carbon Disulfide				
1,1,2 Trichloro-1,2,2-trifluororethane			·	
2-Hexanone				
4-Methyl-2-pentanone				
Cyclohexane				
trans-1,2-dichloroethene				,
Chlorobenzene				
Methylcyclohexane				
Ethylbenzene		· · · · · · · · · · · · · · · · · · ·		
Methyl acetate				
Vinyl Chloride				
Total Xylenes				
• The 1 st progress monitoring				
sampling of the groundwater wells				
associated with the "pilot"				
bioaugmentation program was				
performed on July 1-2, 2013.	0.0	0.00		
performed on July 1-2, 2015.	0.0	0.00		g Rents i denis versen and del damik de tres direction observationed and and and and and and and and a second and

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.

5. "D" indicates the compound concentration was obtained form a secondary dilution analysis.

6. Acetone was not detected in the influent sample above the MDL but detected in the effluent sample. It is not a contaminant of concern for the Mr. C's site.

* Detection Limits (<10) and (<50)

** Detection Limits (<1) and (<5)

*** Contaminants of Concern only

<u>Attachment A</u> IEG Weekly Inspection Report February 1, 2016

MR. C's DRY CLEANERS SITE NYSDEC Site #9-15-157 OM&M: SITE INSPECTION FORM

DATE:	1-Feb-	16	ACTIVITIES:	Site Inspect	ion			
INSPEC	TION PERSONNEL	.: R. Allen		_OTHER PERS	ONNEL:			
WEATHE	ER CONDITIONS:	Partly cloudy, co	ol	-		OUTSIDE TEMPE	RATURE (° F):	39
· ·		ATING IN AUTO:		NO:		if "NO", provide expl	anation below	1
	PW-7 is OFF due	to injection operation			,			
		PRO	/IDE WATER LEV	EL READINGS	ON CONTROL PAN	EL		
RW-1	ON:	OFF:	<u>3</u> ft	PW-5	ON:	off:√	5	_ft
PW-2	ON:	OFF:√	ft	PW-6	ON:	off:√	4	_ft
PW-3	ON:	OFF: √	<u>3</u> ft	PW-7	on:√	OFF:	12	_ft
PW-4	on:√	OFF:	ft	PW-8	ON:	OFF:√	7	_ft
	EQU NOTES:	ALIZATION TANK:	<u>3</u> ft	Last	Narm D/T/Condition:	2/1/2016 PW-2 Overl	oad	<u></u>
						-		
INFLU	IENT FLOW RATE	2	gpm		TALIZER READING	<u>11,911,</u>	400	gallons
SEC	QUESTERING AGI	ENT DRUM LEVEL:	16inches	(x 1.7	=) AMOUNT OF A	GENT REMAINING:	27	gallons
SI	EQUESTERING A	GENT FEED RATE:			METERING	PUMP PRESSURE:	4.0	psi
ai mini mini mu ya ya y	BAG FILTER PRI	ESSURES:		Bottom 0 psi	RIGHT:	тор 8	Bottom 0	_psi
INFLU	JENT FEED PUMP		#2	2	NFLUENT PUMP PR	ESSURE:	6	psi
AIR S	STRIPPER BLOWE	R IN USE: #1	√ #2	2	AIR STRIPPER PR	ESSURE:	29.0	in. H₂O
		TIAL PRESSURE:					1.80	_ _in. H₂O
AIR FLO	w: <u>1300</u>	fpm X 1.4 =	1820	CFM				
EFFLUE	NT PUMP IN USE:	#1	#2_√	EFFLUE	NT FEED PUMP PR	ESSURE:	10	psi
EFFLUI	ENT FLOW RATE:	36gpm	EFFLUENT	TOTALIZER RE	ADING: 80),796,156	407930) gallons
ARE BU	ILDING HEATERS	IN USE? YES:	NO:		1937 Tell 2027 2027 Data del Cali Rad an 	INSIDE TEMPE	RATURE (° F):	65
ıs su	MP PUMP IN USE:	YES:√	NO:	ARE ANY	EAKS PRESENT?	YES:	. NO	·
WATER	R LEVEL IN SUMP:	<u>7.0</u> in.	TREATMENT B	UILDING CLEA	N & ORGANIZED?	YES:	NO	

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

-

			-	-	-				1-Feb-16
SAMPLES COLLECT	ED? YES:	NO:	V						
	s	ample ID	Time of Sampling	I	рН	Turbidity	Temp.	Sp. Cond.	
AIR STRIPP	R INFLUENT:			-					
AIR STRIPPI	R EFFLUENT:		Participant and a second s	-					
IS THERE E	DENCE OF TAMPERING	G/VANDALIS	M OF WELLS: ?	YES:		NO:		laite bios and bind band bios	فيعبن فليتنا عليم المريم المريما
	WER	RE MANHOLI	ES INSPECTED?	YES:		NO:			
	WERE ELECT	RICAL BOXI	ES INSPECTED?	YES:		NO:			
IS WATER PRE	SENT IN ANY MANHOLE	S OR ELECT	RICAL BOXES?	YES:		NO:	•		
	lf yes, provide manho	le/electric bo	x ID and description o	f any correc	ctive meas	ures below:			
PZ-1B has surface con	rete damage from winter o	conditions.	PZ-4B, PZ-6A	and PZ-60	C have be	en damaged	by Town o	f Aurora. PZ-	4 <u>B</u>
has been improperly rep	aired by the Town of Auro	ora.							
	na kad ing kini kini kini kan kan kini kini kini din una ang								
		S	JBSLAB SYS	rem					
MANOMETER	: <u>1.8</u> in. WC		west	east	NOTES:	cfm = 0.05	c fpm (3" P	VC)	
(Fan Inlet)		FLOW							
			(cfm):						
	VACUUM	GAUGE (in	wc)						
	CLUDE REMARKS & DES	SCRIBE ANY	OTHER SYSTEM M		ICE PERF	ORMED ON	MR. C's S		tent tite and data land have been
Remarks: M. Si	effan - 586 Building SVE	E Fan: put "T	" pipe over exhaust.	Inspect h	norizontal	pipe for dire	ection of s	lope.	
Other Actions: Swe	t spruce needles and co	ones off of th	e Librarty Parking L	ot around	well grou	ps PW-6 an	d PW-7.		
Show	Shoveled snow off of MWs and Piezometers.								
586	uilding SVE Fan: installe	ed "T" fitting	on top of exhaust pi	pe.					
Unit	4 - inspected horizon	tal length of	f SVE pipe above t	ne ceiling	panels.	Pronounce	ed 11/2' s	lope from	
Utilit	Room down to elbow	at outside	wall below fan.						

AGWAY							
Remarks: Site is empty of materials and has been graded and graveled.							
Other Actions:							

Mr. C's CLEANERS OM&M

SUMMARY OF FIELD ACTIVITIES BY IEG - 2/2016

DATE	ΑCΤΙVΙΤΥ
1-Feb	OM&M Weekly Inspection. Swept spruce needles off of Library Parking Lot.
2-Feb	Piezometer Readings
3-Feb	End of month summaries. Stopped at Town of Aurora office to inform them of damage to PZ- 4B. Remove some equipment from Treatment Room before the system shut down.
4-Feb	Shut down Treatment System. Rinse empty Redux drums. Rinse out Jesco Pump with clean water. Change Bag Filters. Pump down water in Air Stripper sump box. Clean Air Stripper sump box.
5-Feb	Clean Air Stripper sump box. Clean Air Stripper trays with steel brushes.
8-Feb	Piezometer Readings
12-Feb	Shovel snow in front of Treatment Room. Inspect Treatment Room.
22-Feb	Drain Treatment Room SVE system. Drain 586 Building SVE system. Shovel snow off of Piezometers.
23-Feb	Piezometer Readings

Mr. C's CLEANERS OM&M STATUS OF FIELD ACTIVITIES BY IEG - 2/2016

ACTIVITY	DESCRIPTION	COMPLETION DATE/STATUS				
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	ed Jesco America Corp recommends rebuilding the Redux pump when needed. Purchased rebuild kit.					
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				
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				
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 Leaking Ball Valve	Influent ball valve near east side of EQ Tank drips. Inspect/clean and replace if necessary.	in progress				
PZ-1B has damage PZ-2B has surface concrete damage from severe winter conditions this year. Repair chipped concrete with epoxy material.						
Redux usage rapidly increased the Jesco Pump settings to their lowest levels. Clean pump and test. Adjust clamps on Redux line. Replace pump if necessary.						
Reduce Influent Pump Rate	duce Influent Pump Rate Lab Tests have shown high levels of VOCs. Try lengthening the time that the Influent Pump runs to increase the Air Sparging time inside the Air Stripper					
Add Air Sparging System	Lab Tests have shown high levels of VOCs. Try adding an Air Sparging system to the sump box of the Air Stripper to increase the treatment of the effluent.					
South Wall of Treatment Room has leaked into the neighboring unit several times when there have been water related problems. Trim wall insultation matting to reduce moisture retension. Seal base of wall with silicone caulking.						
PW-8 Maintenance	Pull up transducer, pump and vertical pipe. Clean, inspect and reinstall.	Sep-15				
PW-6 does not run	Replace transducer and well pump with more powerful model. Cleaned vertical pipe and Underground Enclosure. Replaced corroded connectors in UE.	Sep-15				
PW-2 Maintenance	Pull up transducer, pump and vertical pipe. Clean, inspect and reinstall.	Sep-15				
PW-3 does not run	Cleaned vertical pipe, transducer and Underground Enclosure. Replaced corroded connectors in UE. Replaced with new pump.	Oct-15				
Church Fan Complaint	West SVE fan is not working. Inspect and clean connections inside unit. If fan continues to go off, replace unit. Replaced unit.	Dec-15				
Blower Pipe pulled apart	The Blower Pipe between Blower #1 and Blower #2 pulled apart at the fitting. Readjust pipe and secure with flashing, straps and duct tape.	Dec-16				
SVE Fan pipe collects water	Fan pipe collects water drain water out of the horizontal section of the pipe. Inspect system and make corrections to prevent the pipe from filling with water.					
PW-2 Well Pump not operating	Inspect well pump and find that it shorted out. Replace well pump with new unit.	Dec-15				
Shut Down Treatment System	Shut down system for evaluation of ground water gradient.	Feb-16				
Repair PZ-4B	Inner ring of piezometer was severely damaged by Town of Aurora snowplow truck. Talked to Town personnel. Related that they would address problem in the spring. Inner ring must be replaced.	in progress				

as of Feb 2016	ELECTRICAL BOX REPAIR		Sep-09		Sep-09		Jul 09, Sep 09		Apr-13
as	CLEAN OUT & INSPECT EI ELECTRICAL BOX		Nov-11	Nov 11, Sep 15	Sep 09, Nov 11	Jan-12	Aug 09, Sep 09, Sep 15		Apr 13, Aug 15
			Aug-09	Aug-09	Jul 09, Sep 09		S 60-09	Aug 09, May 10, Aug 11	Aug 09, May 10, Aug 11
	REPLACE ANEROID BELLOWS						Aug 15		Aug 15
	REPLACE TRANSDUCER		Sep 09, Dec 11	Dec 11, Sep 15	Dec 11, Mar 08, Sep 08	Jan 12, Sep 08	Sep 09, Sep 15		
	CLEAN & INSPECT TRANSDUCER	May 10, Jan 12, Oct 15	Nov 11, May 10, Apr 13 Dec 15	Aug 09, Nov 11, Oct 15	May 10, Nov 11, Oct 15	Mar 11, Oct 15	Aug 09, Jul 12, Dec 12, Apr 13, Aug 15	Oct 10, Aug 11, Jul 12, Dec 12, Aug 15	May 10, Aug 11, Jul 12, Dec 12, Apr 13, Aug 15
	CHECK VALVE						Aug 15	Aug 15	Aug 15
	HORIZONTA L PIPE		Sep-15	Sep-15			Jul 12, Nov 12, Sep 15	Jul 12, Nov 12	Pipe 8/09, Jul 12, Sep 15
	INNER RING				Aug 13				
	PITLESS ADAPTER			Repair adapter			Replaced Aug 15	Replaced Aug 15	Replaced Aug 15
	REPAIR PUMP	May 10, Nov 08			Sep-13				
	REPLACED PUMP	Feb 08, Jan 12	Jul 08, Apr 13 Dec 15	Jul 08, Dec 11, Oct 15	Dec 07, Jan 12	Jul 08, Jan 12	Jun 08, Jul 09, Aug 12, Nov 12, Sep 15	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, Oct 15	Jun 08, Aug 09, May 10, Apr 13, Sep 15	Jun 08, Aug 09, May 10, Sep 15	Dec 07, May 08, Sep 09, May 10, Jan 12, Oct 15	Jan 12, May 08, Oct 15	Jun 08, Jul 09, Jul 12, Nov 12, Aug 15	Jun 08, Jul 09, May 10, Oct 10, Aug 11, Mar 12, Jul 12, Nov 12, Aug 15	Jun 08, Aug 09, May 10, Aug 11, Jul 12, Dec 12, Aug 15
	ē	RW - 1	PW - 2	PW - 3	PW - 4	PW - 5	9 - Wq	7 - Wq	PW - 8

Mr. C's CLEANERS OM&M SUMMARY OF WATER PUMP MAINTENANCE BY IEG - 2016

as of Feb 2016

NEEDS U.E. REPAIR YES -Asphalt patch DONE YES -bolts YES -bolts g 0 Z g g NEEDS U.E. CLEANE g g 20 g Q g g Q ۵ NEEDS ANEROID BELLOWS g g g <u>8</u> g g NEEDS NEW TRANSDUCE R Q g g g TRANSDUCE INSPECTION INSPECTION NEEDS g g g Q œ 9 92 g g NEEDS CHECK VALVE NEEDS HORIZONTAL LINE PURGE g g õ PITLESS ADAPTER NEEDS WELL CLEAN-OUT YES ΥES 0 Z g g NEEDS P.A. OR PIPE NEEDS NEW INNER RING PZ-1B PZ-4B 9 Z g g g g g NEED S NEW PUMP g g g g g g 9 g CLEANING & INSPECTION NEEDS YES g Q g g g g g PW-2 PW-3 PW-5 **9-Wd** PW-8 RW-1 PW-4 7-Wq Q

Mr. C's CLEANERS OM&M

SUMMARY OF WATER PUMP STATUS - 2016

<u>Attachment B</u> Piezometer Water Level Log Sheets

Including:

2/2/2016

2/8/2016

2/23/2016

Date: 2-Feb-16 Measurements taken by: R. Allen **RW-1** 17.50 ft PW-5 16.10 ft Comments: Comments: PZ-1A ----- ft Comments: Auto parked over PZ-5A 10.53 ft Comments: PZ-1B 10.79 ft PZ-5B 10.61 ft Comments: Comments: PZ-1C PZ-5C 10.20 ft Comments: 12.15 ft Comments: PZ-5D 11.00 ft PZ-1D 12.32 ft Comments: Comments: PW-6 15.80 ft PW-2 14.50 ft Comments: Comments: 11.54 ft PZ-2A 10.83 ft Comments: PZ-6A Comments: PZ-2B 11.14 ft PZ-6B 11.41 ft Comments: Comments: PZ-6C 11.64 ft Comments: PZ-2C 10.61 ft Comments: Shown as RW-2 on **MW-7** 11.16 ft Comments: Substitute for 2D PZ-6D 11.38 ft Comments: map PW-3 Auto parked over **PW-7** Comments: injection operation ----- ft Comments: ----- ft injection operation PZ-3A MPI-6S 11.29 ft Comments: ----- ft Comments: PZ-3B 11.37 ft Comments: PZ-7B 11.17 ft Comments: PZ-3C 11.91 ft Comments: OW-B 11.08 ft Comments: PZ-3D PZ-7D ----- ft injection operation 11.38 ft Comments: Comments: PW-4 19.20 ft **PW-8** 19.80 ft Comments: Comments: PZ-8A 8.11 ft PZ-4A 10.97 ft Comments: Comments: PZ-4B 10.66 ft Comments: PZ-8B 8.03 ft Comments: PZ-4C ----- ft Comments: sealed over PZ-8C 7.69 ft Comments: PZ-8D PZ-4D 10.28 ft 7.92 ft Comments: Comments:

MR. C'S DRY CLEANERS SITE NYSDEC Site #9-15-157 OM&M: PIEZOMETER WATER LEVEL LOG

PUMPS IN OPERATION DURING MEASUREMENTS								
RW-1 pump on? $$ Yes	No	PW-5 pump on? Ves No						
PW-2 pump on? $~~$ Yes	No	PW-6 pump on? Ves No						
PW-3 pump on? $\sqrt{1}$ Yes	No	PW-7 pump on? Yes \sqrt{No}						
PW-4 pump on? $$ Yes	No	PW-8 pump on? $\sqrt{2}$ Yes No						

Date	8-Feb-16		Date: 8-Feb-16		Measuremen	its taken by:	R. A	llen	
RW-1	10.80 ft	Comments:		PW-5	9.80 ft	Comments:			
PZ-1A	10.83 ft	- Comments:		PZ-5A	10.43 ft	Comments:			
PZ-1B	10.60 ft	- Comments:		PZ-5B	10.21 ft	Comments:			
PZ-1C	11.75 ft	- Comments:		PZ-5C	9.82 ft	Comments:			
PZ-1D	11.89 ft	- Comments:		PZ-5D	10.62 ft	Comments:			
PW-2	10.40 ft	- Comments:		PW-6	11.20 ft	Comments:			
PZ-2A	10.38 ft	Comments:		PZ-6A	11.18 ft	Comments:			
PZ-2B	10.73 ft	- Comments:		PZ-6B	11.02 ft	Comments:			
PZ-2C	10.22 ft	- Comments:		PZ-6C	11.38 ft	Comments:			
MW-7	10.74 ft	- Comments:	Substitute for 2D	PZ-6D	11.05 ft	Comments:	Shown as RW-2 on map		
PW-3	ft	Comments:	Auto parked over	PW-7	ft	Comments:	injection operation		
PZ-3A	10.88 ft	Comments:		MPI-6S	ft	Comments:	injection operation		
PZ-3B	10.96 ft	Comments:		PZ-7B	10.84 ft	Comments:			
PZ-3C	11.43 ft	Comments:		OW-B	10.74 ft	Comments:			
PZ-3D	10.97 ft	Comments:		PZ-7D	ft	Comments:	injection operation		
PW-4	10.40 ft	Comments:		PW-8	7.00 ft	Comments:			
PZ-4A	10.82 ft	- Comments:		PZ-8A	7.70 ft	Comments:			
PZ-4B	10.23 ft	Comments:	Damaged	PZ-8B	7.64 ft	Comments:			
PZ-4C	ft	- Comments:	sealed over	PZ-8C	7.38 ft	Comments:			
PZ-4D	9.87 ft	Comments:		PZ-8D	7.59 ft	Comments:			

MR. C'S DRY CLEANERS SITE NYSDEC Site #9-15-157 OM&M: PIEZOMETER WATER LEVEL LOG

PUMPS IN OPERATION DURING MEASUREMENTS								
RW-1 pump on?	Yes	No	PW-5 pump on? Yes \sqrt{No}					
PW-2 pump on?	Yes	V No	PW-6 pump on? Yes \sqrt{No}					
PW-3 pump on?	Yes	V No	PW-7 pump on? Yes √ No					
PW-4 pump on?	Yes	No	PW-8 pump on? Yes $$ No					

MR. C'S DRY CLEANERS SITE NYSDEC Site #9-15-157 OM&M: PIEZOMETER WATER LEVEL LOG

Date:	23-Feb-1	6 Measurem	ents taken by:	R. /	Allen
RW-1	10.80 ft		PW-5	9.70 ft	
PZ-1A	10.82 ft		PZ-5A	10.10 ft	
PZ-1B	10.57 ft		PZ-5B	10.14 ft	
PZ-1C	ft	Auto parked over	PZ-5C	9.75 ft	
PZ-1D	11.85 ft		PZ-5D	10.42 ft	
PW-2	10.40 ft		PW-6	11.20 ft	
PZ-2A	10.34 ft		PZ-6A	11.07 ft	
PZ-2B	10.68 ft		PZ-6B	10.93 ft	
PZ-2C	10.20 ft		PZ-6C	11.22 ft	
MW-7	ft	Substitute for 2D; auto parked	PZ-6D	10.98 ft	Shown as RW-2 on map
PW-3	10.90 ft		PW-7	10.50 ft	
PZ-3A	10.84 ft		MPI-6S	ft	under snowpile
PZ-3B	10.91 ft		PZ-7B	10.75 ft	
PZ-3C	ft	under snowpile	OW-B	10.65 ft	
PZ-3D	ft		PZ-7D	ft	under snowpile
PW-4	10.40 ft		PW-8	11.10 ft	
PZ-4A	11.00 ft		PZ-8A	7.62 ft	
PZ-4B	10.16 ft		PZ-8B	7.55 ft	
PZ-4C	ft	sealed over	PZ-8C	7.21 ft	
PZ-4D	9.84 ft		PZ-8D	7.56 ft	

	-	*****			OTHER	WELLS				n senaat er fanne van gestaande en s	
EE-1		ft	MPI-1S		ft	MPI-7IR	f	t	ESI-3	10.58 ft	
EE-2	11.59	ft	MPI-2SR		ft	MPI-8SR	f	t	ESI-6	ft	
EE-3		ft	MPI-3S		ft	MPI-9BR	f	t	ESI-2R	ft	
EE-4		ft	MPI-4S	8.56	ft	MPI-13BR	f	t	ESI-5R	ft	
MW-7		ft	MPI-4I	10.69	ft	MPI-14BR	f	t			
MW-8	10.73	ft	MPI-5S	11.37	ft	MPI-15B	f	t			
MW-11	9.29	ft	MPI-6S		ft						
CC	OMMENTS	i:	S								

<u>Attachment C</u> Summary of Site Utility Costs and Projections January to December 2016

Mr. C's Drv Cleaners Site - Remedial Treatment Utility Costs	ers Site - Re	medial Treatme	nt Utility Costs								ATTAC	ATTACHMENT C
NVSDEC Work Assignment #10C3074.0010.07	signment #	10C3074.0010.07						Utility Budget:	The second se	Electric:	\$25,300.00	
12 Months of System Operation and Maintenance	tem Operatio	on and Maintené	nce							Telephone:	\$540.00	
February 2016 Report	port									Gas	\$1,120.00	
Gas, Telephone, and Electric	lectric								Ī	Total:	\$26,960.00	
Utility Provider	Account #	E&E Cost Center	Description	Jan-2016	Feb-2016	Mar-2016	Apr-2016	May-2016	Jun-2016			
New York State E&G	1001-0310-422	EN-003229-0001-03TTO	Mr. C's Electric Costs	\$ 577.59	\$ 762.15							
New York State E&G	76-311-11-015900-18											
National Fuel Gas	5819628-05	EN-003229-0001-03TTO	Mr. C's Natural Gas Costs	\$ 68.33	\$ 4.15							
			Totals	\$ 645.92	\$ 766.30	, ,	, s	, \$	\$ -			
				Jul-2016	Aug-2016	Sep-2016	Oct-2016	Nov-2016	Dec-2016			Ave. /Month
			Mr. C's Electric Costs								69	669.87
			Mr. C's Natural Gas Costs								69	36.24
			Totals	\$0.00	•	• •	ج	, \$	•		\$	706.11
			Electric - Mr. C's		\$1,339.74		Notes:					
			Natural Gas - Mr. C's		\$ 72.48		and the second	Overbilled nature	Overbilled natural gas costs - no charges	charges		
	Grand	Total - NYSE&G/Nation	Grand Total - NYSE&G/National Fuel Gas Costs To Date	\$	1,412.22			Estimated Reading	ling	\$ 333.44	in red -adjusted billing	Illing
Phone												and a substantial of the second se
Utility Provider	Phone #	E&E Cost Center	Location Description	Jan-2016	Feb-2016	Mar-2016	Apr-2016	May-2016	Jun-2016			
Verizon	716-652-0094	EN-003229-0001-03TTO	Mr. C's Telephone Costs									
Account #												
716 652 0094 416 26 2												
	_			Jul-2016	Aug-2016	Sep-2016	Oct-2016	Nov-2016	Dec-2016			Ave./Month
		EN-003229-0001-03TTO									ø	r
		Veri	Verizon Costs to Date - Mr. C's	\$	B .							
				÷	1 110 20							
		Grand Lotal A	Grand Lotal All Utilities To Date	e	1,412.22							
							~					

	\$23,960.26	\$540.00	\$1,047.52	\$25 547 78	0																		
	Electric:	Telephone:	Gas	Total																			
	Budget Remaining:																	others run on a batch basis.		-			
				Comments:	Varv mild winter - varv little snow	System Shutdown												total gallons discritatiged for monthly operating time. 100%. With the exception of groundwater pump RW-1, all others run on a batch basis.		-			
				Canacity	ſ													total gallors discharged for monthly operating time. 100%. With the exception of groundwater pump RV					
Utility Costs		Ce		Up-time Percentage	100 00%	0.00%	#DIV/0I	#DIV/0I	#DIV/0I	#DIV/01		10//01#	#DIV/01	#D(V/0]	#DIV/01	100.00%	i. coo	revent repair to appear on thinking operating grounowater hows from the eight installed pumps from 9/02. Evaluated on Maximum pump discharges calculated as an average of 78 gpm as the total for all 8 pumps at the site if all pumps operate					
Mr. C's Drv Cleaners Site - Remedial Treatment Utility Costs		12 Months of System Operation and Maintenance		Actual Operating Hours	672	0										672		or nows from the eight installed gpm as the total for all 8 pump					
ste - Ren	signment #1	em Operatio	port	Optimum Operating Hours	672											672		ited as an average of 78	sts	\$ 669.87	•	\$ 36.24	, ,
S's Drv Cleane	NYSDEC Work Assignment #11	onths of Syst	February 2016 Report		January-15	February-15	March-15	April-15	May-15	June-15	Auduct-15	September-15	October-15	November-15	December-15	Totals to Date	Concerning to the second of the second	pump discharges calcula	 Monthly Average Costs	Mr. C's Electric	Agway Electric	Mr. C's Gas	Mr. C's Telephone

ecology and environment engineering, p.c.

BUFFALO CORPORATE CENTER 368 Pleasant View Drive Lancaster, New York 14086 Tel: (716) 684-8060, Fax: (716) 684-0844

April 7, 2016

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 # 915157 March 2016 Operations, Maintenance, and Monitoring Report

Dear Mr. Welling:

Ecology and Environment Engineering, P.C. (EEEPC) is pleased to provide the March 2016 Operations, Maintenance, and Monitoring (OM&M) Report for the Mr. C's Dry Cleaners Site, NYSDEC Site # 915157, located in the Village of East Aurora, New York. A summary of field activities prepared by EEEPC's subcontractor, Iyer Environmental Group, PLLC (IEG), is provided in <u>Attachment A</u>. Piezometer water level measurements are provided in <u>Attachment B</u>. The site utility information is provided in <u>Attachment C</u>.

Per your request, the Mr. C's treatment system has been shutdown since February 4, 2016 and will continue to be offline for three months to evaluate the possible rebound of contaminants in groundwater. No influent/effluent samples were performed during this time as a result of the treatment system shutdown. Monthly water depth measurements are taken at the site's groundwater monitoring wells, piezometers, and pumping wells during this shutdown period. Groundwater sampling will be performed at the end of the three month shutdown period (May 2016) to evaluate the potential for rebound of the volatile organic compounds around the Mr. C's site.

On March 2, 2016, a broken overhead sewage line in the treatment facility was identified and repaired by subcontractor, Ramsey Renovations (RR), with oversight from IEG and the property owner, Intrepid Automotive. The treatment facility's equipment and tools were cleaned and tanks were disinfected the week of March 6th. Damaged equipment was replaced and the treatment room was inspected on March 15, 2016. Residents were notified that they may resume water and sanitary use.

In review of the on-site treatment system operations, monitoring and maintenance for March 2016, EEEPC offers the following comments and highlights:

Mr. William Welling, Project Manager April 7, 2016 Page 2 of 3

Operational Summary

Mr. C's Site - Remedial Operations and Maintenance Information

- The March 2016 summary of field activities from IEG is provided as <u>Attachment A</u>.
- Piezometer water level readings from 3/11/2016 are provided in <u>Attachment</u> <u>B</u>.
- On 3/2/2016 a broken sewage line in the treatment room was repaired by subcontractors. Treatment room equipment was cleaned, disinfected, and replaced where necessary. Treatment room cleanup was completed on 3/9/2016.
- SVE systems at the treatment room were drained.
- Eight (8) piezometers were repaired.

Subslab Depressurization Systems (SSDS)

- Property owners at 27 Whaley Ave. have not returned EEEPC's calls for inspection of the SSDS unit. EEEPC will continue to contact to obtain access for inspection.
- Final engineering reports for all seven individual locations where SSDS units were installed were submitted in February and March 2016 as follows.
 - 1. 16 Paine Avenue Boys and Girls Club; Submitted 2/18/2016
 - 578-580 Main Street Mark Jawrowski Property; Submitted 2/22/2016
 - 572-576 Main Street Intrepid Automotive Property; Submitted 3/2/2016
 - 4. 586 Main Street, Suite 4 Intrepid Automotive Property (Tenant: Country Cupboard); Submitted 3/2/2016
 - 5. 594 Main Street Mark Jawrowski Property (Tenant: Aurora Outfitters); Submitted 3/2/2016
 - 6. Mr. C's Treatment Facility; Submitted 3/24/2016
 - 7. 591 Main Street; Submitted 3/25/2016
- Problems were encountered with moisture and freeze up in the fan system at the 586 Main Street County Cupboard SSDS unit. The SSDS is under review by GES and EEEPC.
- Basement measurements were taken on March 17, 2016 to initiate SSDS installation design at 31 Paine Street.
- Discussion of new SSDS unit installation at 23 Paine Street is in progress. EEEPC needs to re-issue letter of determination of SSDS from NYSDOH to the new property owner as of November 2015.

Status of Bioremediation Direct Push Injection Work

- Additional review of the recommendations in the summary report to be evaluated with the Remedial Site Optimization (RSO) program.
- The draft RSO was issued to NYSDEC on December 8, 2015.

Mr. William Welling, Project Manager April 7, 2016 Page 3 of 3

Soil Vapor Intrusion Investigation Program (2015-2016)

- The Phase 3 SVII Report was issued to NYSDEC / NYSDOH on August 11, 2015.
- Discuss new property locations with NYSDEC / NYSDOH for SVII work in 2016.

Site Management Plan

- EEEPC submitted the updated/revised SMP to NYSDEC and NYSDEC Region 9 on March 2, 2015.
- This is an active site document, so future revisions will be performed once major changes to the management of the site are required after optimization evaluation is performed.

Annual Long-term Groundwater Monitoring Well Report

- The 2015 Annual Long-term Groundwater Monitoring Well field work was completed in October 2015.
- Report of 2015 annual Groundwater results was issued to NYSDEC on December 21, 2015.
- Another round of groundwater samples to be taken prior to treatment system restart. Anticipated start date of groundwater sampling is April 25, 2016.

Periodic Review Report (PRR)

• The 2015 Periodic Review Report was issued to NYSDEC on January 29, 2015.

If you have questions regarding the March 2016 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 - 10C3074.0011.07

Table 1Mr. C's Dry Cleaners Site RemediationSite #915157System Operation and Management

	Up-time	ime			VOC Removal	
	Reporting	Operational	Treated Effluent	Influent VOCs	Effluent	VUCS Removed
Month	Hours	Up-time	(gallon)	(µg/L)	VOCs(µg/L)	(lbs.)
(Up-time from 9/5/02 to 01/04/16)	111,949.50	95.23%	128,814,819	NA	NA	1,614.16
January 4, 2016 - February 1, 2016	672	100.00%	305,578	692.0	0.0	1.76
February 1, 2016 - February 29, 2016	0	0.00%	0	0.0	0.0	0.00
March 1, 2016 - March 31, 2016	0	0.00%	0	0.0	0.0	0.00
	-					
	2000000				-	
Total in 2016	672.00	1.00	305,578	692.00	0.00	1.76
-						

NOTES:

1.615.93

NA

ΝA

129,120,397.00

0.95

112,621.50

Total from startup

1. Up-time based as percentage of total reporting hours.

2. Treatment system operated by the Tyree Organization Ltd. from 9/02 - 9/03.

3. Treatment system operated by O&M Enterprises Inc. from 10/03 - 7/07.

4. Treatment system operated by Iyer Environmental Group from 7/07 to present.

5. VOC removal calculations are based on monthly water samples and assumes samples are representative of the entire reporting period.

6. VOC removal calculations assume that non-detect values = 0 ug/L.

7. Total VOCs summations include estimated "J" values. 8. VOC removal calculations are based on effluent totalizer readings.

9."Influent VOCs" and "Effluent VOCs" values given above is the summation of values for individual compounds given in monthly analytical reports.

10. Unit conversion: 1 pound = 453.5924 grams. 1 gallon = 3.785 liters

11. Formula for the VOC removal calculation:

 $(VOCs_{Influent} - VOCs_{Effluent})(ug/L) \cdot (1g/10^{6}ug) \cdot (1 lb/453.5924 g) \cdot (Monthly process water)(gal) \cdot (3.785 L/gallon)$ 12. Using the 2/2/16 analytical results.

Table 2Mr. C's Dry Cleaners Site RemediationSite #915157Effluent Discharge Criteria & Analytical Compliance Results

Parameter/Analyte	Daily Maximum ¹	Units	February - Effluent Analytical Values - Compliance
Flow (Average)	N/A	gpd	No Sampling Performed
pH	6.0 - 9.0	standard units	l
1,1 Dichloroethene	10	μg/L	
1,1 Dichloroethane	10	μg/L	
cis-1,2-dichloroethene	10	μg/L	
Trichloroethene	10	μg/L	
Tetrachloroethene	10	μg/L	
Vinyl Chloride	10	μg/L	
Benzene	5	μg/L	
Ethylbenzene	5	μg/L	
Methylene Chloride	10	μg/L	
1,1,1 Trichloroethane	10	μg/L	
Toluene	5	μg/L	
Methyl-t-Butyl Ether (MTBE)	NA	ug/L	
o-Xylene ²	5	μg/L	
m, p-Xylene ²	10	μg/L	
Total Xylenes	NA	ug/L	
Iron, total	600	µg/L	No Sampling Performed
Aluminum	4,000	μg/L	
Copper	48	μg/L	
Lead	11	μg/L	
Manganese	2,000	μg/L	
Silver	100	μg/L	
Vanadium	28	μg/L	
Zinc	230	μg/L	
Total Dissolved Solids	850	mg/L	
Total Suspended Solids	20	mg/L	
Hardness	N/A	mg/L	
Cyanide, Free	10	μg/L	

NOTES:

1. "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: No treatment system operations in March 2016.

7. "J" indicates 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.

10. "NS" indicates that the parameter analysis was not sampled.

40 Indicates non-compliance with the NYSDEC effluent discharge requirements NR Indicates Not Reported by Lab

Table 3-1 Mr. C's Dry Cleaners Site Remediation NYSDEC Site #915157 March 2016 VOC Analytical Summary

	Based on t	the Effluer	nt Analytical Results
	Influent	Effluen	t Cleanup
Compound	Concentration*	^k Concentrati	on** Efficiency***
-	(ug/L)	(ug/L)	(%)
Acetone	No Sampling F	Performed in March 201	
Benzene			
2-Butanone			
cis-1, 2-Dichloroethene			
Chloroform			
Chloromethane			
Methylene chloride			
Methyl tert-butyl ether (MTBE)			
Methyl acetate			
Tetrachloroethene (PCE)			
Toluene			
Trichloroethene (TCE)			
Carbon Disulfide			
1,1,2 Trichloro-1,2,2-trifluororethane			
2-Hexanone			
4-Methyl-2-pentanone			
Cyclohexane			
trans-1,2-dichloroethene			
Chlorobenzene			
Methylcyclohexane			
Ethylbenzene			
Methyl acetate			
Vinyl Chloride			
Total Xylenes		•	
• The 1 st progress monitoring			
sampling of the groundwater wells			
associated with the "pilot"			
bioaugmentation program was			
performed on July 1-2, 2013.	0.0	0.00	

Notes:

1. "NA" = Not applicable

2. "U" = Compound analyzed, but was not detected. Detection limit in parentheses.

3. "DJ" or "J" indicates an estimated value below the practical quantitation limit but above the method detection limit.

4. Non-detect values are assumed to be equal to zero for calculation of monthly average concentrations.

5. "D" indicates the compound concentration was obtained form a secondary dilution analysis.6. Acetone was not detected in the influent sample above the MDL but detected in the effluent sample. It is not a contaminant of concern for the Mr. C's site.

* Detection Limits (<10) and (<50)

** Detection Limits (<1) and (<5)

*** Contaminants of Concern only

<u>Attachment A</u> IEG Summary of Field Activities March, 2016

Mr. C's CLEANERS OM&M

SUMMARY OF FIELD ACTIVITIES BY IEG - 3/2016

DATE	ΑCΤΙVΙΤΥ
2-Mar	OM&M Inspection. Discovered broken sewage line inside Treatment Room. Informed neighbors not to use water. Informed IAE of the problem. Observe Ramsey Renovations repair of pipe.
3-Mar	February end of Month Summaries. Meet with IAE about sewage leak. Called cleaning businesses. Meet with Apex Flood Restoration. Clean tools and equipment.
7-Mar	Mobilize for Treatment Room cleaning. Oversee Ramsey Renovations cleaning of Treatment Room and equipment. Demobilize equipment after RR finishes cleaning. Get supplies.
8-Mar	Get supplies. Spray disinfectant around and under EQ Tank. Organize Treatment Room. Paint IDs on piezometers.
9-Mar	Get supplies. Clean tool cabinet. Organize Treatment Room equipment. Paint IDs on piezometers.
10-Mar	OM&M office work
11-Mar	Piezometer Readings
15-Mar	Inspect Treatment Room. Drain SVE systems.
18-Mar	OM&M office work
22-Mar	Spray disinfectant around EQ Tank. Drain SVE systems.
28-Mar	OM&M office work
29-Mar	Drain SVE system. Repair piezometers: MPI-5S, EE-4, ESI-2R, MPI-4S, MPI-4I, ESI-3, PZ-1C and PZ-3D.

Mr. C's CLEANERS OM&M STATUS OF FIELD ACTIVITIES BY IEG - 3/2016

ACTIVITY	DESCRIPTION	COMPLETION DATE/STATUS
Shut Down Treatment System	Shut down system for evaluation of ground water gradient.	Feb-16
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
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
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 Leaking Ball Valve	Influent ball valve east of EQ Tank drips. Inspect/clean & replace if necessary.	in progress
PZ-1B has damage	PZ-2B has surface concrete damage from severe winter conditions this year. Repair chipped concrete with epoxy material.	in progress
Redux usage rapidly increased	The rate of Redux usage increased rapidly during the past several months despite turning the Jesco Pump settings to their lowest levels. Clean pump and test. Adjust clamps on Redux line. Replace pump if necessary.	in progress
Reduce Influent Pump Rate	Lab Tests have shown high levels of VOCs. Try lengthening the time that the Influent Pump runs to increase the Air Sparging time inside the Air Stripper	in progress
Add Air Sparging System	Lab Tests have shown high levels of VOCs. Try adding an Air Sparging system to the sump box of the Air Stripper to increase the treatment of the effluent.	in progress
South Wall should be sealed	South Wall of Treatment Room has leaked into the neighboring unit several times when there have been water related problems. Trim wall insullation matting to reduce moisture retension. Seal base of wall with silicone caulking.	in progress
SVE Fan pipe collects water	The SVE Fan pipe on Building 586 collects water. There is a plug just below the fan to drain water out of the horizontal section of the pipe. Inspect system and make corrections to prevent the pipe from filling with water.	in progress
Repair PZ-4B	Inner ring of piezometer was severely damaged by Town's snowplow truck. Talked to Town - they will address problem in Spring. Inner ring must be replaced.	in progress
Sewer return line came apart	Sewer return line inside Treatment Room came apart resulting in raw sewage being splashed around in half the unit. Oversaw clean up by Ramsey Renovations. Cleaned some equipment and spray disinfectant in inaccessible areas. Replace equipment that was damaged beyond repair/cleaning.	Mar-16
Top cover contacts cap for ESI-2R, ESI-3, MPI-5S, EE-4, PZ-1C, PZ-3D	Movement over time of the riser relative to the inner ring has left the riser cap in contact with the top cover. Trimmed riser to create clearance for the riser cap.	Mar-16
Concrete inside inner ring obstructs cap for MPI-4I & MPI-4S	Movement over time of the concrete base inside the inner ring is causing interference with the riser cap. Removed concrete adjacent to riser.	Mar-16

as of Mar 2016	ELECTRICAL BOX REPAIR		Sep-09		Sep-09		Jul 09, Sep 09		Apr-13
as of	<u> </u>		o o		o l		······		
	CLEAN OUT & INSPECT ELECTRICAL BOX		Nov-11	Nov 11, Sep 15	Sep 09, Nov 11	Jan-12	Aug 09, Sep 09, Sep 15		Apr 13, Aug 15
			60-9nA	Aug-09	Jui 09, Sep 09		Aug-09	Aug 09, May 10, Aug 11	Aug 09, May 10, Aug 11
	REPLACE ANEROID BELLOWS						Aug 15		Aug 15
	REPLACE TRANSDUCER		Sep 09, Dec 11	Dec 11, Sep 15	Dec 11, Mar 08, Sep 08	Jan 12, Sep 08	Sep 09, Sep 15		
	CLEAN & INSPECT TRANSDUCER	May 10, Jan 12, Oct 15	Nov 11, May 10, Apr 13 Dec 15	Aug 09, Nov 11, Oct 15	May 10, Nov 11, Oct 15	Mar 11, Oct 15	Aug 09, Jul 12, Dec 12, Apr 13, Aug 15	Oct 10, Aug 11, Jul 12, Dec 12, Aug 15	May 10, Aug 11, Jul 12, Dec 12, Apr 13, Aug 15
	CHECK						Aug 15	Aug 15	Aug 15
	HORIZONTA L PIPE		Sep-15	Sep-15			Jul 12, Nov 12, Sep 15	Jui 12, Nov 12	Pipe 8/09, Jul 12, Sep 15
	INNER RING				Aug 13				
	PITLESS ADAPTER			Repair adapter			Replaced Aug 15	Replaced Aug 15	Replaced Aug 15
	REPAIR PUMP	May 10, Nov 08			Sep-13				
	REPLACED PUMP	Feb 08, Jan 12	Jul 08, Apr 13 Dec 15	Jul 08, Dec 11, Oct 15	Dec 07, Jan 12	Jul 08, Jan 12	Jun 08, Jul 09, Aug 12, Nov 12, Sep 15	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, Oct 15	Jun 08, Aug 09, May 10, Apr 13, Sep 15	Jun 08, Aug 09, May 10, Sep 15	Dec 07, May 08, Sep 09, May 10, Jan 12, Oct 15	Jan 12, May 08, Oct 15	Jun 08, Jul 09, Jul 12, Nov 12, Aug 15	Jun 08, Jul 09, May 10, Oct 10, Aug 11, Mar 12, Jul 12, Nov 12, Aug 15	Jun 08, Aug 09, May 10, Aug 11, Jul 12, Dec 12, Aug 15
	₽	RW - 1	PW - 2	PW - 3	PW - 4	PW - 5	PW - 6	PW - 7	PW - 8

SUMMARY OF WATER PUMP MAINTENANCE BY IEG - 2016 Mr. C's CLEANERS OM&M

as of Mar 2016

Mr. C's CLEANERS OM&M SUMMARY OF WATER PUMP STATUS - 2016

٩	NEEDS CLEANING & INSPECTION	NEED S NEW PUMP	NEEDS NEW INNER RING	NEEDS P.A. OR PIPE	NEEDS WELLL 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	ON.	ON	PZ-1B	- 3	YES				ON	NO	ON	ON	YES - bolts
PW-2	ON	ON	ON	-	ON				ON		ON	ON	YES - bolts
PW-3	ON	NO	ON						ON		ON	ON	ON
PW-4	ON	ON	PZ-4B						ON	7	ON	ON	YES - Asphalt patch
PW-5	ON	ON	QN		YES				ON			ON	ON
9-Md	ON	ON N	ON				ON		ON	NO	ON	ON	DONE
7-W4	YES	ON	ON .		ON		ON		ON	ON		ON	ON
PW-8	ON	ON	Q		ON		ON		ON	ON	ON	ON	Q

<u>Attachment B</u> Piezometer Water Level Log Sheet

Dated:

3/11/2016

MR. C's DRY CLEANERS SITE NYSDEC Site #9-15-157 OM&M: PIEZOMETER WATER LEVEL LOG

Date:	11-Mar	-16 Measureme	nts taken by:	R. /	Allen
RW-1	10.40 ft		PW-5	9.30 ft	
PZ-1A	10.46 ft	ABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	PZ-5A	9.63 ft	
PZ-1B	10.18 ft		PZ-5B	9.73 ft	
PZ-1C	11.36 ft		PZ-5C	9.32 ft	
PZ-1D	11.48 ft		PZ-5D	10.09 ft	
PW-2	9.90 ft		PW-6	10.50 ft	
PZ-2A	9.95 ft		PZ-6A	10.66 ft	
PZ-2B	10.29 ft		PZ-6B	10.51 ft	
PZ-2C	9.77 ft		PZ-6C	10.78 ft	
MW-7	10.30 ft	Substitute for 2D	PZ-6D	10.52 ft	Shown as RW-2 on Map
PW-3	10.50 ft		PW-7	9.60 ft	
PZ-3A	10.45 ft		MPI-6S	10.19 ft	
PZ-3B	10.48 ft		PZ-7B	10.31 ft	
PZ-3C	11.01 ft		OW-B	10.24 ft	
PZ-3D	10.50 ft		PZ-7D	+- 10 ft	Product in Well
PW-4	9.80 ft		PW-8	6.30 ft	
PZ-4A	10.31 ft		PZ-8A	7.18 ft	
PZ-4B	9.76 ft		PZ-8B	7.11 ft	
PZ-4C	ft	Sealed Over	PZ-8C	6.78 ft	
PZ-4D	9.39 ft		PZ-8D	7.20 ft	

					OTHER	WELLS					
EE-1	?	ft	MPI-1S	9.68	ft	MPI-7IR	10.17	ft	ESI-3	10.20	ft
EE-2	10.90	ft	MPI-2SR	10.38	ft	MPI-8SR	9.07	ft	ESI-6	9.81	ft
EE-3	10.34	ft	MPI-3S	9.67	ft	MPI-9SR	8.52	ft	ESI-2R	12.19	ft
EE-4	11.49	ft	MPI-4S	6.89	ft	MPI-13BR	Auto over	ft	ESI-5R	7.65	ft
MW-8	10.31	ft	MPI-4I	10.30	ft	MPI-14BR	9.25	ft			
MW-11	8.91	ft	MPI-5S	10.95	ft	MPI-15B	9.04	ft			
			<u> </u>			<u> </u>			•		
		ES	-2R, EE-4: ri	ser caps n	nust be lo	wered some.					
	OMMENTS	MP	I-5S: riser ca	p must be	ground d	own. MPI-48	S, MPI-41:	ground	has heaved	d over rise	rs.

<u>Attachment C</u> Summary of Site Utility Costs and Projections January to December 2016

Wr. C's Dry Cleaners Site - Remedial Treatment Utility Costs	lers Site - Re	medial Treatme	nt Utility Costs								ATTAC	ATTACHMENT C
NVSDEC Work Assignment #10C3074.0010.07	ssignment #	10C3074.0010.0	7					Utility Budget:		Electric:	\$25,300.00	
12 Months of System Operation and Maintenance	tem Operativ	on and Mainten	ance						Т	Telephone:	\$540.00	
March 2016 Report	vt								0	Gas	\$1,120.00	
Gas, Telephone, and Electric	Electric									Total:	\$26,960.00	
Utility Provider	Account #	E&E Cost Center	Description	Jan-2016	Feb-2016	Mar-2016	Apr-2016	May-2016 J	Jun-2016			
New York State E&G	1001-0310-422	EN-003229-0001-03TTO	Mr. C's Electric Costs	\$ 577.59	\$ 762.15	\$ 265.95						
New York State E&G	76-311-11-015900-18	-										
National Fuel Gas	5819628-05	EN-003229-0001-03TTO	Mr. C's Natural Gas Costs	68.33	\$ 4.15	\$ 58.82						
			Totals	\$ 645.92	\$ 766.30	\$ 324.77		\$,			
				Jul-2016	Aug-2016	Sep-2016	Oct-2016	Nov-2016 D	Dec-2016			Ave. /Month
-			Mr. C's Electric Costs								69	535.23
-			Me Pia Matural Car Carto									
			Totals	\$0.00	3						A 4	43.// 570.00
			Electric - Mr. C's				otes:				<u>}</u>	
			Natural Gas - Mr. C's		\$ 131.30			Overbilled natural gas costs - no charges	s costs - no ci	harges		
	Grand	1 Total - NYSE&G/Nation	Grand Total - NYSE&G/National Fuel Gas Costs To Date	\$	1,7			Estimated Reading		\$ 333.44	in red -adjusted billing	illing
Phone						8						
Utility Provider	Phone #	E&E Cost Center	Location Description	Jan-2016	Feb-2016	Mar-2016	Apr-2016	May-2016 J	Jun-2016			
Verizon	716-652-0094	EN-003229-0001-03TTO	Mr. C's Telephone Costs					_				
Account #												
716 652 0094 416 26 2												
				Jul-2016	Aug-2016	Sep-2016	Oct-2016	Nov-2016 D	Dec-2016			Ave./Month
		EN-003229-0001-03TTO									9	1
				_								August 2010 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 100 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 100 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 100 - 101 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100
		Ven	Verizon Costs to Date - Mr. C's	\$	1							
	-	Grand Total	Grand Total All Utilities To Date	s	1,736.99							
										-		
												_

Mr. C's Dry Cleaners Site - Remedial Treatment Utility Costs	ers Site - Re	medial Treatmen	nt Utility Costs							ATTACHMENT C
NYSDEC Work Assignment #11	signment #1						Budget Remaining:	Electric:	\$23,694.31	
12 Months of System Operation and Maintenance	tem Operatic	on and Maintena	nce					Telephone:	\$540.00	
March 2016 Report	-			-				Gas	\$988.70	
	Optimum Operating Hours	Actual Operating Hours	Up-time Percentage	Capacity	Comments:			Total:	\$25.223.01	
January-15	672	672	100.00%	9.7%	Verv mild winter - verv	little snow.				
February-15	0	0	0.00%	0.0%	System Shutdown					
March-15		0	0.00%	0.0%	System Shutdown					
April-15			#DIV/0]							
May-15			10//IC#							
									-	
August-15	-		#DIV/01							
September-15			#DIV/0							
October-15			#DIV/0							
November-15 December-15			#DIV/01 #DIV/01							
Totals to Date	672	672	100 00%							
			2222							
* Percent Capacity is based on initial operating groundwater flows from the eight installed pumps from 9/02. Evaluated on total gallons discharged for monthly operating time. Maximum pump discharges calculated as an average of 78 gpm as the total for all 8 pumps at the site if all pumps operate 100%. With the exception of groundwater pump RW-1, all others run on a batch basis.	tial operating groundwa ated as an average of 7	ater flows from the eight installe 78 gpm as the total for all 8 purr	id pumps from 9/02. Evaluated or nps at the site if all pumps operal	n total galions disched 100%. With the e	total gallons discharged for monthly operating time. 100%. With the exception of groundwater pump RN	rating time. er pump RW-1, all	others run on a batch basis.			
Monthly Average Costs	sts									
Mr. C's Electric	\$ 535.23									
Agway Electric										
Mr. C's Gas	\$ 43.77									
Mr. C'S Lelephone										
Ave. Utility Cost Total	\$ 579.00	times	12 Month Estimate	\$7,526.96						

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ecology and environment engineering, p.c.



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May 4, 2016

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 # 915157 April 2016 Operations, Maintenance, and Monitoring Report

Dear Mr. Welling:

Ecology and Environment Engineering, P.C. (EEEPC) is pleased to provide the April 2016 Operations, Maintenance, and Monitoring (OM&M) Report for the Mr. C's Dry Cleaners Site, NYSDEC Site # 915157, located in the Village of East Aurora, New York. A summary of field activities prepared by EEEPC's subcontractor, Iyer Environmental Group, PLLC (IEG), is provided in <u>Attachment A</u>. The site utility information is provided in <u>Attachment B</u>.

Per your request, the Mr. C's treatment system has been shutdown since February 4, 2016 and will continue to be offline for three months to evaluate the possible rebound of contaminants in groundwater. No influent/effluent samples were performed during this time as a result of the treatment system shutdown. Monthly water depth measurements are taken at the site's groundwater monitoring wells, piezometers, and pumping wells during this shutdown period by IEG. Groundwater sampling was performed by EEEPC from April 25-May 2, 2016 to evaluate the potential for rebound of the volatile organic compounds around the Mr. C's site.

In review of the on-site treatment system operations, monitoring and maintenance for April 2016, EEEPC offers the following comments and highlights:

Operational Summary

Mr. C's Site – Remedial Operations and Maintenance Information

• The April 2016 summary of field activities and piezometer water level readings performed on 4/13/2016 from IEG are provided as <u>Attachment A</u>.

Mr. William Welling, Project Manager May 4, 2016 Page 2 of 3

Subslab Depressurization Systems (SSDS)

- Property owner at 27 Whaley Ave. (David Dubois) has not returned EEEPC's calls for inspection of the SSDS unit. EEEPC will continue to contact to obtain access for inspection.
- Final engineering reports for all seven individual locations where SSDS units were installed were submitted in February and March 2016.
- Problems were encountered with moisture and freeze up in the fan system at the 586 Main Street "County Cupboard" SSDS unit. The SSDS is under review by GES and EEEPC.
- SSDS installation design at 31 Paine Street is currently in process.
- Discussion of new SSDS unit installation at 23 Paine Street is in progress. EEEPC needs to re-issue letter of determination of SSDS from NYSDOH to the new property owner. The new property owner of 23 Paine Street house as of November 2015 is David Dubois.

Status of Bioremediation Direct Push Injection Work

- Additional review of the recommendations in the summary report to be evaluated with the Remedial Site Optimization (RSO) program.
- The draft RSO was issued to NYSDEC on December 8, 2015.

Soil Vapor Intrusion Investigation Program (2015-2016)

- The Phase 3 SVII Report was issued to NYSDEC / NYSDOH on August 11, 2015.
- Discuss new property locations with NYSDEC / NYSDOH for SVII work in 2016.

Site Management Plan

- EEEPC submitted the updated/revised SMP to NYSDEC and NYSDEC Region 9 on March 2, 2015.
- This is an active site document, so future revisions will be performed once major changes to the management of the site are required after optimization evaluation is performed.

Annual Long-term Groundwater Monitoring Well Report

- The 2015 Annual Long-term Groundwater Monitoring Well field work was completed in October 2015.
- Report of 2015 annual Groundwater results was issued to NYSDEC on December 21, 2015.
- Another round of groundwater samples to be taken prior to treatment system restart. Groundwater sampling was started April 25, 2016 and completed May 2, 2016.

Mr. William Welling, Project Manager May 4, 2016 Page 3 of 3

Periodic Review Report (PRR)

• The 2015 Periodic Review Report was issued to NYSDEC on January 29, 2015.

If you have questions regarding the April 2016 OM&M report summary, please do not hesitate to contact me at 716-684-8060.

Very Truly Yours, Ecology and Environment Engineering, P. C.

Steffan Michael

Michael G. Steffan Project Manager

cc: D. Szymanski, Region 9, NYSDEC - Buffalo w/ attachments
 D. Iyer, IEG – w/attachments
 CTF - 10C3074.0011.07

Mr. C's Dry Cleaners Site Remediation System Operation and Management Site #915157 Table 1

	-dD	Up-time			VOC Removal	
	Reporting	Operational	Treated Effluent	Influent VOCs	Effluent	VUCs Removed
Month	Hours	Up-time	(gallon)	(hg/L)	VOCs(µg/L)	(lbs.)
(Up-time from 9/5/02 to 01/04/16)	111,949.50	95.23%	128,814,819	NA	NA	1,614.16
January 4, 2016 - February 1, 2016	672	100.00%	305,578	692.0	0.0	1.76
February 1, 2016 - February 29, 2016	0	0.00%	0	0.0	0.0	0.00
March 1, 2016 - March 31, 2016	0	0.00%	0	0.0	0.0	0.00
April 1, 2016 - April 30, 2016	0	0.00%	0	0.0	0.0	0.00
					-	
	00 022	1 00	012 700	00 007	WU U	76 5

1.76	1,615.93
0.00	NA
692.00	NA
305,578	129,120,397.00
1.00	0.95
672.00	112,621.50
	Total from startup

NOTES:

- 1. Up-time based as percentage of total reporting hours.
- 2. Treatment system operated by the Tyree Organization Ltd. from 9/02 9/03.
- 3. Treatment system operated by O&M Enterprises Inc. from 10/03 7/07.
- 4. Treatment system operated by Iyer Environmental Group from 7/07 to present.
- 5. VOC removal calculations are based on monthly water samples and assumes samples are representative of the entire reporting period.
- 6. VOC removal calculations assume that non-detect values = 0 ug/L.
 - 8. VOC removal calculations are based on effluent totalizer readings. 7. Total VOCs summations include estimated "J" values.

9. "Influent VOCs" and "Effluent VOCs" values given above is the summation of values for individual compounds given in monthly analytical reports. 10. Unit conversion: 1 pound = 453.5924 grams, 1 gallon = 3.785 liters

11. Formula for the VOC removal calculation:

(VOCs influent - VOCs Effluent)(ug/L)·(1g/10⁶ ug)·(1 lb/453.5924 g)·(Monthly process water)(gal)·(3.785 L/gallon)

12. Using the 2/2/16 analytical results.

Table 2Mr. C's Dry Cleaners Site RemediationSite #915157Effluent Discharge Criteria & Analytical Compliance Results

Parameter/Analyte	Daily Maximum ¹	Units	February - Effluent Analytical Values - Compliance
Flow (Average)	N/A	gpd	No Sampling Performed
pH	6.0 - 9.0	standard units	
1,1 Dichloroethene	10	μg/L	· · · · · · · · · · · · · · · · · · ·
1,1 Dichloroethane	10	μg/L	
cis-1,2-dichloroethene	10	μg/L	
Trichloroethene	10	μg/L	
Tetrachloroethene	10	μg/L	
Vinyl Chloride	10	μg/L	
Benzene	5	μg/L	
Ethylbenzene	5	μg/L	
Methylene Chloride	10	μg/L	
1,1,1 Trichloroethane	10	μg/L	
Toluene	5	μg/L	
Methyl-t-Butyl Ether (MTBE)	NA	ug/L	
o-Xylene ²	5	μg/L	
m, p-Xylene ²	10	μg/L	
Total Xylenes	NA	ug/L	
Iron, total	600	μg/L	No Sampling Performed
Aluminum	4,000	μg/L	
Copper	48	μg/L	
Lead	11	μg/L	
Manganese	2,000	μg/L	
Silver	100	μg/L	
Vanadium	28	μg/L	
Zinc	230	μg/L	
Total Dissolved Solids	850	mg/L	
Total Suspended Solids	20	mg/L	
Hardness	N/A	mg/L	
Cyanide, Free	10	μg/L	

NOTES:

1. "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: No treatment system operations in April 2016.

7. "J" indicates 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.

10. "NS" indicates that the parameter analysis was not sampled.

40 Indicates non-compliance with the NYSDEC effluent discharge requirements NR Indicates Not Reported by Lab

Table 3 Mr. C's Dry Cleaners Site Remediation NYSDEC Site #915157 **April 2016 VOC Analytical Summary**

Based	l on the	Effl	uent Analy	tical Results
Influer	nt	Efflu	ient	Cleanup
Concentra	tion*	Concent	ration**	Efficiency***
				(%)
		med in April 2	2016	(,0)
		nica ni ripini i		
				······
Beneficier and the second s				
0.0		0.00		
	Influer Concentra (ug/L No Samp		Influent Effluent Concentration* Concentration (ug/L) (ug No Sampling Performed in April 2	Influent Effluent Concentration* Concentration*** (ug/L) (ug/L) No Sampling Performed in April 2016

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.

5. "D" indicates the compound concentration was obtained form a secondary dilution analysis.

6. Acetone was not detected in the influent sample above the MDL but detected in the effluent sample. It is not a contaminant of concern for the Mr. C's site.

* Detection Limits (<10) and (<50)

** Detection Limits (<1) and (<5)

*** Contaminants of Concern only

<u>Attachment A</u> IEG Summary of Field Activities April 2016

Mr. C's CLEANERS OM&M

SUMMARY OF FIELD ACTIVITIES BY IEG - 4/2016

DATE	ACTIVITY
1-Apr	Respond to report of unlocked Treatement Room. Inspect - OK
4-Apr	Do March End of Month Summaries. Shovel snow in front of Treatment Room. Drain SVE systems.
11-Apr	Drain SVE systems.
12-Apr	Get supplies. Make acid sprinkler system for Air Stripper cleaning.
13-Apr	Piezometer Readings. Piezometer Repairs.
14-Apr	Piezometer Readings. Piezometer Repairs. Get Supplies. PW-8 - fill settled area over previous excavation.
18-Apr	Drain SVE systems. Office work.
19-Apr	Return equipment to Treatment Room after removal for system shut down. Piezometer repair.
25-Apr	Drain SVE systems. Remove IEG tolls from Treatment Room.

of Anr 2016

Mr. C's CLEANERS OM&M SUMMARY OF WATER PUMP MAINTENANCE BY IEG - 2016

as of Apr 2016	ELECTRICAL BOX REPAIR		Sep-09		Sep-09		Jul 09, Sep 09	<u>, , , , , </u>	Apr-13
as of A			Set		Š				
	CLEAN OUT & INSPECT ELECTRICAL BOX		Nov-11	Nov 11, Sep 15	Sep 09, Nov 11	Jan-12	Aug 09, Sep 09, Sep 15		Apr 13, Aug 15
	PUMP OUT WELL		Aug-09	Aug-09	Jul 09, Sep 09		Aug-09	Aug 09, May 10, Aug 11	Aug 09, May 10, Aug 11
	REPLACE ANEROID BELLOWS						Aug 15		Aug 15
	REPLACE TRANSDUCER		Sep 09, Dec 11	Dec 11, Sep 15	Dec 11, Mar 08, Sep 08	Jan 12, Sep 08	Sep 09, Sep 15		
	CLEAN & INSPECT TRANSDUCER	May 10, Jan 12, Oct 15	Nov 11, May 10, Apr 13 Dec 15	Aug 09, Nov 11, Oct 15	May 10, Nov 11, Oct 15	Mar 11, Oct 15	Aug 09, Jul 12, Dec 12, Apr 13, Aug 15	Oct 10, Aug 11, Mar 12, Jul 12, Dec 12, Aug 15	May 10, Aug 11, Jul 12, Dec 12, Apr 13, Aug 15
	CHECK VALVE						Aug 15	Aug 15	Aug 15
	HORIZONTA L PIPE		Sep-15	Sep-15			Jul 12, Nov 12, Sep 15	Jul 12, Nov 12	Pipe 8/09, Jul 12, Sep 15
	INNER RING				Aug 13				
	PITLESS ADAPTER			Repair adapter			Replaced Aug 15	Replaced Aug 15	Replaced Aug 15
	REPAIR PUMP	May 10, Nov 08			Sep-13				
	REPLACED PUMP	Feb 08, Jan 12	Jul 08, Apr 13 Dec 15	Jul 08, Dec 11, Oct 15	Dec 07, Jan 12	Jul 08, Jan 12	Jun 08, Jul 09, Aug 12, Nov 12, Sep 15	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, Oct 15	Jun 08, Aug 09, May 10, Apr 13, Sep 15	Jun 08, Aug 09, May 10, Sep 15	Dec 07, May 08, Sep 09, May 10, Jan 12, Oct 15	Jan 12, May 08, Oct 15	Jun 08, Jul 09, Jul 12, Nov 12, Aug 15	Jun 08, Jul 09, May 10, Oct 10, Aug 11, Mar 12, Jul 12, Nov 12, Aug 15	Jun 08, Aug 09, May 10, Aug 11, Jul 12, Dec 12, Aug 15
	٩	RW - 1	PW - 2	PW - 3	PW - 4	PW - 5	PW - 6	PW - 7	PW - 8

Mr. C's CLEANERS OM&M

SUMMARY OF WATER PUMP STATUS - 2016

as of Apr 2016

	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	ON	ON	PZ-1B		YES				ON	ON	ON	ON	YES - bolts
PW-2	ON	ON	ON		NO				ON		NO	ON	YES - bolts
PW-3	ON	ON	ON						ON		ON	ON	NO
PW-4	ON	ON	PZ-4B						ON		ON	ON	YES - Asphalt patch
PW-5	ON	ON N	ON		YES				ON			ON	NO
PW-6	ON	ON	ON				ON		ON	ON	ON	ON	DONE
PW-7	YES	Q	Q		ON N		ON		ON	ON		ON N	NO
PW-8	ON	N	ON N		ON		ON		ON	ON	Q	Q	QN

Mr. C's CLEANERS OM&M STATUS OF FIELD ACTIVITIES BY IEG - 4/2016

ACTIVITY	DESCRIPTION	COMPLETION DATE/STATUS
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	Some of the piezometers are broken. Measuring water levels is not precise when a pipe is broken. Identify and trim all broken piezometers.	Apr-16
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
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
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 Leaking Ball Valve	Influent ball valve east of EQ Tank drips. Inspect/clean & replace if necessary.	in progress
PZ-1B has damage	PZ-2B has surface concrete damage from severe winter conditions this year. Repair chipped concrete with epoxy material.	in progress
Redux usage rapidly increased	The rate of Redux usage increased rapidly during the past several months despite turning the Jesco Pump settings to their lowest levels. Clean pump and test. Adjust clamps on Redux line. Replace pump if necessary.	in progress
Reduce Influent Pump Rate	Lab Tests have shown high levels of VOCs. Try lengthening the time that the Influent Pump runs to increase the Air Sparging time inside the Air Stripper	in progress
Add Air Sparging System	Lab Tests have shown high levels of VOCs. Try adding an Air Sparging system to the sump box of the Air Stripper to increase the treatment of the effluent.	in progress
South Wall should be sealed	South Wall of Treatment Room has leaked into the neighboring unit several times when there have been water related problems. Trim wall insullation matting to reduce moisture retension. Seal base of wall with silicone caulking.	in progress
SVE Fan pipe collects water	The SVE Fan pipe on Building 586 collects water. There is a plug just below the fan to drain water out of the horizontal section of the pipe. Inspect system and make corrections to prevent the pipe from filling with water.	in progress
Repair PZ-4B	Inner ring of piezometer was severely damaged by Town's snowplow truck. Talked to Town - they will address problem in Spring. Inner ring must be replaced.	in progress
Sewer return line came apart	Sewer return line inside Treatment Room came apart resulting in raw sewage being splashed around in half the unit. Oversaw clean up by Ramsey Renovations. Cleaned some equipment and spray disinfectant in inaccessible areas. Replace equipment that was damaged beyond repair/cleaning.	Mar-16
Top cover contacts cap for ESI-2R, ESI-3, MPI-5S, EE-4, PZ-1C, PZ-3D	Movement over time of the riser relative to the inner ring has left the riser cap in contact with the top cover. Trimmed riser to create clearance for the riser cap.	Mar-16
Concrete inside inner ring obstructs Riser Cap	The concrete base inside the inner ring is level with the riser and causing interference with the riser cap. Identify problem piezometers (MPI-4S and MPI-4I). Removed concrete adjacent to riser.	Mar-16
Trim High Piezometer Risers	Some of the piezometer risers are so high that the riser cap interferes with the top cover. Either the inner ring has sunk or the risers have elevated since installation. Identify problem piezometers (PZ-4D) and trim a small amount off of the riser.	Apr-16
Concrete inside inner ring obstructs Riser Cap	Concrete base inside inner ring is level with riser and interferes with riser cap. Identify problem piezometers (MPI-1S). Removed concrete adjacent to riser.	Apr-16
Ground around PW-8 has sunk	The ground around PW-8 that was excavated to replace the pit-less adapter has sunk several inches. Add topsoil to level the area and add grass seed/mulch.	Apr-16
Remove Piezometer Lock	Some of the piezometers have padlocks on there riser caps which are defective or no longer have keys. Some of the caps are too tight to put back on the riser properly after removal. Identify problem piezometers (MPI-9SR). Remove lock.	Apr-16

*

MR. C's DRY CLEANERS SITE NYSDEC Site #9-15-157

OM&M: PIEZOMETER WATER LEVEL LOG

Date:	Apr 13-14	, 2016 N	leasurements taken by:	R	Allen
RW-1	10.70 ft		PW-5	9.70 ft	
PZ-1A	10.63 ft		PZ-5A	9.85 ft	
PZ-1B	10.47 ft		PZ-5B	10.12 ft	
PZ-1C	11.58 ft	ennet film 1999 - 1999 - 1999 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 19	PZ-5C	9.72 ft	
PZ-1D	11.74 ft		PZ-5D	10.50 ft	
PW-2	10.20 ft		PW-6	10.90 ft	
PZ-2A	10.21 ft		PZ-6A	11.04 ft	
PZ-2B	10.77 ft		PZ-6B	10.88 ft	
PZ-2C	10.04 ft		PZ-6C	11.14 ft	
MW-7	10.62 ft	Substitute for	r 2D PZ-6D	10.89 ft	Shown as RW-2 on Map
PW-3	10.80 ft		PW-7	10.40 ft	
PZ-3A	10.70 ft		MPI-6S	10.58 ft	
PZ-3B	10.79 ft		PZ-7B	10.70 ft	Trimmed Riser
PZ-3C	11.34 ft		OW-В	10.64 ft	
PZ-3D	10.03 ft		PZ-7D	7.52 ft	
PW-4	10.20 ft		PW-8	6.80 ft	
PZ-4A	10.73 ft		PZ-8A	7.55 ft	
PZ-4B	10.12 ft		PZ-8B	7.51 ft	
PZ-4C	ft	Sealed Ov	rer PZ-8C	7.40 ft	
PZ-4D	9.78 ft	Trimmed R	iser PZ-8D	7.27 ft	Trimmed Riser

					OTHER	WELLS					
EE-1	Paved ove	r ft	MPI-1S	10.05	ft	MPI-7IR	10.45	ft	ESI-3	10.48	ft
EE-2	10.65	ft	MPI-2SR	10.67	ft	MPI-8SR	9.47	ft	ESI-6	10.14	ft
EE-3	10.51	ft	MPI-3S	9.99	ft	MPI-9SR	8.15	ft	ESI-2R	12.47	ft
EE-4	11.80	ft	MPI-4S	8.13	ft	MPI-13BR	8.72	ft	ESI-5R	7.81	ft
MW-8	1067	ft	MPI-4I	10.57	ft	MPI-14BR	9.89	ft			
MW-11	9.23	ft	MPI-5S	11.31	ft	MPI-15B	9.37	ft			
	•										
			I-6S - needs	bolt		MPI-1S - ne	eds conci	ete ch	ipped aroun	d riser	
	OMMENTS		/-8 - needs s	oil added v	vhere exc	avation settle	ed				

<u>Attachment B</u> Summary of Site Utility Costs and Projections January to December 2016

	ners Site - Re	medial Treatme	Mr. C's Dry Cleaners Site - Remedial Treatment Utility Costs								ATTAC	ATTACHMENT B
VSDEC Work A	ssignment #1	NYSDEC Work Assignment #10C3074.0010.07	7					Utility Budget:		Electric:	\$25,300.00	
2 Months of Sy.	stem Operatic	12 Months of System Operation and Maintenance	ance							Telephone:	\$540.00	
April 2016 Report	+									Gas	\$1,120.00	
Gas, Telephone, and Electric		F&F Cost Center	Description	an-2016	Eah-2016	Mar-2016	Anv-2016	Maxeonte		Total:	\$26,960.00	
Now Vork State E&C.	1001-00310-1000	EN-003239-0001-03TTO	Mr C's Elootria Casts	G		- H	477 26		202			
New York State E&G	76-311-11-015900-18		MI. C 2 LIGGING CO00	0.10		200.30		-				
National Fuel Gas	5819628-05	EN-003229-0001-03TTO	Mr. C's Natural Gas Costs	\$ 68.33	\$ 4.15	\$ 58.82	\$ 8.76					
			Totals	s 645.92	\$ 756.30		\$ 186.42	s -	s - 1			
				Jul-2016	Aug-2016	Sep-2016	Oct-2016	Nov-2016	Dec-2016			Ave. /Month
			Mr. C's Electric Costs								о	445.84
										<u>.</u>		
			MIL. U.S. Natural Gas Costs Totals	\$0.00	, , ,	, , , ,	, , , ,	, , , ,	, , ,		<u>, 4</u>	35.02
			Electric - Mr. C's		\$1,783.35		otes:				 	
			Natural Gas - Mr. C's		\$ 140.06			Overbilled natural gas costs - no charges	das costs - no c	charges		
	Grand	Total - NYSE&G/Nation	Grand Total - NYSE&G/National Fuel Gas Costs To Date	\$	1,9			Estimated Reading	ing	\$ 333.44	in red -adjusted billing	illing
Phone												
Utility Provider	Phone #	E&E Cost Center	Location Description	Jan-2016	Feb-2016	Mar-2016	Apr-2016	May-2016	Jun-2016			
Verizon	716-652-0094	EN-003229-0001-03TTO	Mr. C's Telephone Costs	\$ 36.01	\$ 36.16	\$ 36.16	\$ 36.16					
Account #												
716 652 0094 416 26 2												
				Jul-2016	Aug-2016	Sep-2016	Oct-2016	Nov-2016	Dec-2016			Ave./Month
		EN-003229-0001-03TTO									0	36.12
والمحافظة المحافظة والمحافظة												
		Veri	Verizon Costs to Date - Mr. C's	\$	144.49							
		+		÷	2 067 00							
		Grand I otal A	Grand I otal All Utilities I o Date	0	2,001.30							
							-					
			_			-	-					

Mr. C's Dry Cleaners Site - Remedial Treatment Utility Costs	lers Site - Re	medial Treatmen	nt Utility Costs	-					ATTACHMENT B
NYSDEC Work Assignment #11	ssignment #					Budget Remaining:	Electric:	\$23,516.65	
12 Months of System Operation and Maintenance	item Operatic	on and Maintena	nce				Telephone:	\$395.51	
April 2016 Report	Trade of the second						Gas	\$979.94	
	Optimum Operating Hours	Actual Operating Hours	Up-time Percentage	Capacity	Comments;		Total:	\$24.892.10	
January-15	5 672	672	100.00%	9.7%	Very mild winter - very little snow.				
February-15		0	0.00%	0.0%	System Shutdown				
March-15		0	0.00%	0.0%	System Shutdown				
April-15	0	0	0.00%	0.0%	System Shutdown				
May-15	2		#DIV/0						
June-15	0		#DIV/0[
	0		10//10#						
Sentember-15	0		:0/A/D#						
October-15			10//10#						
November-15			10//IC#						
December-15	5		I0/AIG#						
Totals to Date	e 672	672	100.00%						
* Estrent Consults is beend on initial operation oronofunder flows from the sight investigation operation of the second on	itial operation around un	ator from the cicht install	ad automotive 0/00 Evolution		tetal and love discharged for monthly accuration from				
Maximum pump discharges calculated as an average of 78 gpm as the total for all 8 pumps at the site if all pumps operate	lated as an average of 7	78 gpm as the total for all 8 pur	nps at the site if all pumps opere		100%. With the exception of groundwater pump RW-1, all others run on a batch basis.	all others run on a batch basis.			
Monthly Average Costs	osts								
Mr. C's Electric	\$ 445.84								
Agway Electric	•								
Mr. C's Gas	\$ 35.02								
Mr. C's Telephone	\$ 36.12								
Ave. Utility Cost Total	\$ 516.98	times	12 Month Estimate	\$6,720.68					

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June 6, 2016

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 # 915157 Mayl 2016 Operations, Maintenance, and Monitoring Report

Dear Mr. Welling:

Ecology and Environment Engineering, P.C. (EEEPC) is pleased to provide the May 2016 Operations, Maintenance, and Monitoring (OM&M) Report for the Mr. C's Dry Cleaners Site, NYSDEC Site # 915157, located in the Village of East Aurora, New York. A summary of field activities prepared by EEEPC's subcontractor, Iyer Environmental Group, PLLC (IEG), is provided in <u>Attachment A</u>. The site utility information is provided in <u>Attachment B</u>.

Per your request, the Mr. C's treatment system has been shutdown since February 4, 2016 and will continue to be offline for three months to evaluate the possible rebound of contaminants in groundwater. No influent/effluent samples were performed during this time as a result of the treatment system shutdown. Monthly water depth measurements are taken at the site's groundwater monitoring wells, piezometers, and pumping wells during this shutdown period by IEG. Groundwater sampling was performed by EEEPC from April 25-May 2, 2016 to evaluate the potential for rebound of the volatile organic compounds around the Mr. C's site.

In review of the on-site treatment system operations, monitoring and maintenance for May 2016, EEEPC offers the following comments and highlights:

Operational Summary

Mr. C's Site – Remedial Operations and Maintenance Information

- The May 2016 summary of field activities and piezometer water level readings performed on 5/10/2016 and 5/11/2016 from IEG are provided as <u>Attachment A</u>.
- Just water level measurements were performed on the selected groundwater monitoring wells.

Mr. William Welling, Project Manager May 6, 2016 Page 2 of 3

Subslab Depressurization Systems (SSDS)

- Property owner at 27 Whaley Ave. (David Dubois) has not returned EEEPC's calls for inspection of the SSDS unit. EEEPC will continue to contact to obtain access for inspection.
- Problems were encountered with moisture and freeze up in the fan system at the 586 Main Street "County Cupboard" SSDS unit. The SSDS is under review by GES and EEEPC.
- SSDS installation design at 31 Paine Street is currently in process.
- Discussion of new SSDS unit installation at 23 Paine Street is in progress.
- EEEPC needs to re-issue letter of determination of SSDS from NYSDOH to the new property owner. The new property owner of 23 Paine Street house as of November 2015 is David Dubois.

Status of Bioremediation Direct Push Injection Work

- Additional review of the recommendations in the summary report to be evaluated with the Remedial Site Optimization (RSO) program.
- The draft RSO was issued to NYSDEC on December 8, 2015.

Soil Vapor Intrusion Investigation Program (2015-2016)

• Discuss new property locations with NYSDEC / NYSDOH for SVII work in 2016.

Site Management Plan

- EEEPC submitted the updated/revised SMP to NYSDEC and NYSDEC Region 9 on March 2, 2015.
- This is an active site document, so future revisions will be performed once major changes to the management of the site are required after optimization evaluation is performed.

Annual Long-term Groundwater Monitoring Well Report

- Report of 2015 annual Groundwater results was issued to NYSDEC on December 21, 2015.
- Report of 2016 annual Groundwater results will be submitted in June 2016.
- Another round of groundwater samples to be taken prior to treatment system restart. Groundwater sampling was started April 25, 2016 and completed May 2, 2016.

Periodic Review Report (PRR)

• The 2015 Periodic Review Report was issued to NYSDEC on January 29, 2015.

Mr. William Welling, Project Manager May 6, 2016 Page 3 of 3

If you have questions regarding the May 2016 OM&M report summary, please do not hesitate to contact me at 716-684-8060.

Very Truly Yours, Ecology and Environment Engineering, P. C.

9. Steffar Michael

Michael G. Steffan Project Manager

cc: D. Szymanski, Region 9, NYSDEC - Buffalo w/ attachments D. Iyer, IEG – w/attachments CTF - 10C3074.0011.07

Mr. C's Dry Cleaners Site Remediation **System Operation and Management** Site #915157 **Table 1**

	Up-time	ime			VOC Removal	
Month	Reporting Hours	Operational Up-time	Treated Effluent (gallon)	Influent VOCs (µg/L)	Effluent VOCs(µg/L)	VOCs Removed (lbs.)
(Up-time from 9/5/02 to 01/04/16)	111,949.50	95.23%	128,814,819	NA	NA	1,614.16
January 4, 2016 - February 1, 2016	672	100.00%	305,578	692.0	0.0	1.76
February 1, 2016 - February 29, 2016	0	0.00%	0	0.0	0.0	0.00
March 1, 2016 - March 31, 2016	0	0.00%	0	0.0	0.0	0.00
April 1, 2016 - April 30, 2016	0	0.00%	0	0.0	0.0	0.00
April 31, 2016 - June 1, 2016	0	0.00%	0	0.0	0.0	0.00
Total in 2016	672.00	1.00	305.578	692.00	00.0	1.76

NOTES:

1,615.93

NA

NA

129,120,397.00

0.95

112,621.50

Total from startup

1. Up-time based as percentage of total reporting hours.

2. Treatment system operated by the Tyree Organization Ltd. from 9/02 - 9/03.

3. Treatment system operated by O&M Enterprises Inc. from 10/03 - 7/07.

4. Treatment system operated by Iyer Environmental Group from 7/07 to present.

5. VOC removal calculations are based on monthly water samples and assumes samples are representative of the entire reporting period.

6. VOC removal calculations assume that non-detect values = 0 ug/L.

8. VOC removal calculations are based on effluent totalizer readings. 7. Total VOCs summations include estimated "J" values.

9."Influent VOCs" and "Effluent VOCs" values given above is the summation of values for individual compounds given in monthly analytical reports. 10. Unit conversion: 1 pound = 453.5924 grams, 1 gallon = 3.785 liters

11. Formula for the VOC removal calculation:

(VOCs Influent - VOCs Effluent)(ug/L) ·(1g/10⁶.ug) ·(1 lb/453.5924 g) ·(Monthly process water)(gal) ·(3.785 L/gallon) 12. Using the 2/2/16 analytical results.

12. Using the 2/2/16 analytical results.

Table 2Mr. C's Dry Cleaners Site RemediationSite #915157Effluent Discharge Criteria & Analytical Compliance Results

Parameter/Analyte	Daily Maximum ¹	Units	February - Effluent Analytical Values - Compliance
Flow (Average)	N/A	gpd	No Sampling Performed
pH	6.0 - 9.0	standard units	
1,1 Dichloroethene	10	μg/L	
1,1 Dichloroethane	10	μg/L	· · · · · · · · · · · · · · · · · · ·
cis-1,2-dichloroethene	10	μg/L	
Trichloroethene	10	μg/L	
Tetrachloroethene	10	μg/L	
Vinyl Chloride	10	μg/L	· · · · · · · · · · · · · · · · · · ·
Benzene	5	μg/L	·
Ethylbenzene	5	μg/L	
Methylene Chloride	10	μg/L	
1,1,1 Trichloroethane	10	μg/L	
Toluene	5	μg/L	
Methyl-t-Butyl Ether (MTBE)	NA	ug/L	
o-Xylene ²	5	μg/L	
m, p-Xylene ²	10	μg/L	
Total Xylenes	NA	ug/L	
Iron, total	600	μg/L	No Sampling Performed
Aluminum	4,000	μg/L	
Copper	-48	μg/L	
Lead	11	μg/L	
Manganese	2,000	μg/L	
Silver	100	μg/L	
Vanadium	28	μg/L	
Zinc	230	μg/L	
Total Dissolved Solids	850	mg/L	
Total Suspended Solids	20	mg/L	
Hardness	N/A	mg/L	
Cyanide, Free	10	μg/L	

NOTES:

1. "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: No treatment system operations in May 2016.
- 7. "J" indicates 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.
- 10. "NS" indicates that the parameter analysis was not sampled.

40 Indicates non-compliance with the NYSDEC effluent discharge requirements NR Indicates Not Reported by Lab

Table 3 Mr. C's Dry Cleaners Site Remediation NYSDEC Site #915157 May 2016 VOC Analytical Summary

	Based on the	Effluent Analy	tical Results
	Influent	Effluent	Cleanup
Compound	Concentration*	Concentration**	Efficiency***
	(ug/L)	(ug/L)	(%)
Acetone	No Sampling Perfc	rmed in May 2016	
Benzene			
2-Butanone			
cis-1, 2-Dichloroethene			
Chloroform			
Chloromethane			
Methylene chloride			
Methyl tert-butyl ether (MTBE)			
Methyl acetate			
Tetrachloroethene (PCE)			
Toluene			
Trichloroethene (TCE)			
Carbon Disulfide			
1,1,2 Trichloro-1,2,2-trifluororethane			
2-Hexanone			
4-Methyl-2-pentanone			
Cyclohexane	122102-00-00-00-00-00-00-00-00-00-00-00-00-0		
trans-1,2-dichloroethene			
Chlorobenzene			
Methylcyclohexane			
Ethylbenzene			
Methyl acetate			
Vinyl Chloride			
Total Xylenes			
• The 1 st progress monitoring			
sampling of the groundwater wells			
associated with the "pilot"			<i>,</i>
bioaugmentation program was			
performed on July 1-2, 2013.	0.0	0.00	

Notes:

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

3. "DJ" or "J" indicates an estimated value below the practical quantitation limit but above the method detection limit.

4. Non-detect values are assumed to be equal to zero for calculation of monthly average concentrations.

5. "D" indicates the compound concentration was obtained form a secondary dilution analysis.

6. Acetone was not detected in the influent sample above the MDL but detected in the effluent sample. It is not a contaminant of concern for the Mr. C's site.

* Detection Limits (<10) and (<50)

** Detection Limits (<1) and (<5)

*** Contaminants of Concern only

<u>Attachment A</u> IEG Summary of Field Activities May2016

MR. C'S DRY CLEANERS SITE NYSDEC Site #9-15-157 OM&M: PIEZOMETER WATER LEVEL LOG

Date: May 10-11, 2016

Measurements taken by:

R. Allen

RW-1	11.10 ft		PW-5	10.10 ft	
PZ-1A	11.05 ft		PZ-5A	10.43 ft	
PZ-1B	10.86 ft		PZ-5B	10.54 ft	
PZ-1C	12.00 ft		PZ-5C	10.13 ft	
PZ-1D	12.17 ft		PZ-5D	10.92 ft	
PW-2	10.70 ft		PW-6	11.30 ft	
PZ-2A	10.67 ft		PZ-6A	11.43 ft	
PZ-2B	11.01 ft		PZ-6B	11.29 ft	
PZ-2C	10.51 ft		PZ-6C	11.56 ft	
MW-7	11.02 ft	Substitute for 2D	PZ-6D	11.28 ft	Shown as RW-2 on M
PW-3	11.30 ft		PW-7	10.80 ft	
PZ-3A	11.19 ft		MPI-6S	11.04 ft	Needs Bolt
PZ-3B	11.25 ft		PZ-7B	11.11 ft	
PZ-3C	11.73 ft		OW-B	11.00 ft	2200
PZ-3D	11.23 ft		PZ-7D	10.56 ft	Product at 11.70
PW-4	10.60 ft		PW-8	7.30 ft	
PZ-4A	11.38 ft		PZ-8A	7.97 ft	
PZ-4B	10.54 ft		PZ-8B	7.92 ft	
PZ-4C	ft	Sealed Over	PZ-8C	7.58 ft	
PZ-4D	10.17 ft		PZ-8D	7.84 ft	

OTHER WELLS											
EE-1	Sealed	ft	MPI-1S	10.41	ft	MPI-7IR	10.86	ft	ESI-3	10.85	ft
EE-2	12.20	ft	MPI-2SR	11.03	ft	MPI-8SR	9.84	ft	ESI-6	10.46	ft
EE-3	10.88	ft	MPI-3S	10.37	ft	MPI-9SR	9.38	ft	ESI-2R	12.89	ft
EE-4	12.23	ft	MPI-4S	9.76	ft	MPI-13BR	9.19	ft	ESI-5R	8.14	ft
MW-8	11.07	ft	MPI-4I	11.03	ft	MPI-14BR	10.12	ft			
MW-11	9.64	ft	MPI-5S	11.71	ft	MPI-15B	9.84	ft			
<u> </u>			PZ-4B needs new inner ring								
	DMMENTS		MPI-9BR - lock should be cut so riser seats propertly								

Mr. C's CLEANERS OM&M

SUMMARY OF FIELD ACTIVITIES BY IEG - 5/2016

DATE	ACTIVITY
3-May	Do April End of Month Summaries. Return IEG tools to Treatment Room. Drain SVE systems.
9-May	Inspect and drain SVE systems as needed.
10-May	Piezometer Readings. Piezometer Repairs.
11-May	Piezometer Readings. Piezometer Repairs. MPI-13BR - cut off padlock. Sweep spruce cones and needles off of Library Parking Lot.
23-May	Inspect and drain SVE systems as needed. OM&M office work.
24-May	OM&M office work.
25-May	OM&M office work.

Mr. C's CLEANERS OM&M STATUS OF FIELD ACTIVITIES BY IEG - 5/2016

ACTIVITY	DESCRIPTION				
Sewer return line came apart	Sewer return line inside Treatment Room came apart resulting in raw sewage being splashed around in half the unit. Oversaw clean up by Ramsey Renovations. Cleaned some equipment and spray disinfectant in inaccessible areas. Replace equipment that was damaged beyond repair/cleaning.				
Remove Piezometer Lock	Some piezometers have padlocks on riser caps which are defective or no longer have keys. Some caps are too tight to put back on riser properly after removal. Identify problem piezometers (MPI-9SR, MPI-13BR). Remove lock.	May-16			
Trim Broken Piezometers	Some of the piezometers are broken. Measuring water levels is not precise when a pipe is broken. Identify and trim all broken piezometers.	Apr-16			
Trim High Piezometer Risers	Some of the piezometer risers are so high that the riser cap interferes with the top cover. Either the inner ring has sunk or the risers have elevated since installation. Identify problem piezometers (PZ-4D) and trim a small amount off of the riser.	Apr-16			
Concrete inside inner ring obstructs Riser Cap	The concrete base inside the inner ring is level with the riser and causing interference with the riser cap. Identify problem piezometers (MPI-1S). Removed concrete adjacent to riser.				
Ground around PW-8 has sunk	The ground around PW-8 that was excavated to replace the pit-less adapter has sunk several inches. Add topsoil to level the area and add grass seed/mulch.	Apr-16			
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	Pump as needed Jesco America Corp recommends rebuilding the Redux pump when needed. Purchase rebuild kit.				
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			
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			
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).				
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 Leaking Ball Valve	Influent ball valve east of EQ Tank drips. Inspect/clean & replace if necessary.	in progress			
PZ-1B has damage	PZ-2B has surface concrete damage from severe winter conditions this year. Repair chipped concrete with epoxy material.	in progress			
Redux usage rapidly increased	The rate of Redux usage increased rapidly during the past several months despite turning the Jesco Pump settings to their lowest levels. Clean pump and test. Adjust clamps on Redux line. Replace pump if necessary.	in progress			
Reduce Influent Pump Rate	Lab Tests have shown high levels of VOCs. Try lengthening the time that the Influent Pump runs to increase the Air Sparging time inside the Air Stripper	in progress			
Add Air Sparging System	Lab Tests have shown high levels of VOCs. Try adding an Air Sparging system to the sump box of the Air Stripper to increase the treatment of the effluent.	in progress			
South Wall should be sealed	th Wall should be sealed South Wall of Treatment Room has leaked into the neighboring unit several times when there have been water related problems. Trim wall insultation matting to reduce moisture retension. Seal base of wall with silicone caulking.				
SVE Fan pipe collects water	'E Fan pipe collects water The SVE Fan pipe on Building 586 collects water. There is a plug just below the fan to drain water out of the horizontal section of the pipe. Inspect system and make corrections to prevent the pipe from filling with water.				
Repair PZ-4B	Inner ring of piezometer was severely damaged by Town's snowplow truck. Talked to Town - they will address problem in Spring. Inner ring must be replaced.				

Mr. C's CLEANERS OM&M SUMMARY OF WATER PUMP MAINTENANCE BY IEG - 2016

as of May 2016

as ui Iviay zu io	ELECTRICAL BOX REPAIR		Sep-09		Sep-09		Jul 09, Sep 09		Apr-13
	CLEAN OUT & INSPECT ELECTRICAL BOX		Nov-11	Nov 11, Sep 15	Sep 09, Nov 11	Jan-12	Аид 09, Sep 09, Sep 15		Apr 13, Aug 15
	PUMP OUT WELL		Aug-09	Aug-09	Jul 09, Sep 09		Aug-09	Aug 09, May 10, Aug 11	Aug 09, May 10, Aug 11
	REPLACE ANEROID BELLOWS						Aug 15		Aug 15
	REPLACE TRANSDUCER		Sep 09, Dec 11	Aug 09, Dec 11, Sep 15 Nov 11, Oct 15	Dec 11, Mar 08, Sep 08	Jan 12, Sep 08	Sep 09, Sep 15		
	CLEAN & INSPECT TRANSDUCER	May 10, Jan 12, Oct 15	Nov 11, May 10, Apr 13 Dec 15	Aug 09, Nov 11, Oct 15	May 10, Nov 11, Oct 15	Mar 11, Oct 15	Aug 09, Jul 12, Dec 12, Apr 13, Aug 15	Oct 10, Aug 11, Mar 12, Jul 12, Dec 12, Aug 15	May 10, Aug 11, Jul 12, Dec 12, Apr 13, Aug 15
	CHECK VALVE						Aug 15	Aug 15	Aug 15
	HORIZONTA L PIPE		Sep-15	Sep-15			Jul 12, Nov 12, Sep 15	Jul 12, Nov 12	Pipe 8/09, Jul 12, Sep 15
	INNER RING				Aug 13				
	PITLESS ADAPTER			Repair adapter			Replaced Aug 15	Replaced Aug 15	Replaced Aug 15
	REPAIR PUMP	May 10, Nov 08			Sep-13				
	REPLACED PUMP	Feb 08, Jan 12	Jul 08, Apr 13 Dec 15	Jul 08, Dec 11, Oct 15	Dec 07, Jan 12	Jul 08, Jan 12	Jun 08, Jul 09, Aug 12, Nov 12, Sep 15	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, Oct 15	Jun 08, Aug 09, May 10, Apr 13, Sep 15	Jun 08, Aug 09, May 10, Sep 15	Dec 07, May 08, Sep 09, May 10, Jan 12, Oct 15	Jan 12, May 08, Oct 15	Jun 08, Jul 09, Jul 12, Nov 12, Aug 15	Jun 08, Jul 09, May 10, Oct 10, Aug 11, Mar 12, Jul 12, Nov 12, Aug 15	Jun 08, Aug 09, May 10, Aug 11, Jul 12, Dec 12, Aug 15
	Q	RW - 1	PW - 2	PW - 3	PW - 4	PW - 5	9 - Wq	7 - Wq	PW - 8

as of May 2016

SUMMARY OF WATER PUMP STATUS - 2016

Mr. C's CLEANERS OM&M

NEEDS U.E. Repair YES -Asphalt patch DONE YES -bolts YES -bolts g g g g CLEANE NEEDS U.E. g g g g g 9 g g ANEROID BELLOWS NEEDS g g g g g g NEEDS NEW TRANSDUCE R g g g g TRANSDUCE VALVE R INSPECTION INSPECTION NEEDS g 0 Z g ġ g g g g NEEDS CHECK VALVE NEEDS HORIZONTAL LINE PURGE 8 Q g PITLESS ADAPTER NEEDS WELL CLEAN-OUT YES YES g g g NEEDS P.A. Or Pipe PZ-4B NEEDS NEW INNER RING PZ-1B 8 g g g g g NEED s NEW PUMP g g g g g g g 2 CLEANING & INSPECTION NEEDS YES g 2 g g g g 2 PW-8 PW-5 PW-6 PW-7 PW-2 PW-3 PW-4 RW-1 ₽

<u>Attachment B</u> Summary of Site Utility Costs and Projections January to December 2016

Mr. C's Dry Cleaners Site - Remedial Treatment Utility Costs	ers Site - Re	medial Treatme	nt Utility Costs								ATTACH	ATTACHMENT B
NYSDEC Work Assignment #10C3074.0010.07	ssignment #1	10C3074.0010.0	2					Utility Budget:		Electric:	\$25,300.00	
12 Months of System Operation and Maintenance	tem Operatic	on and Mainten	ance	~ ~						Telephone:	\$540.00	
May 2016 Report										Gas	\$1,120.00	
Gas, Telephone, and Electric	Electric								П Г	Total:	\$26,960.00	
Utility Provider	Account #	E&E Cost Center	Description	Jan-2016	Feb-2016	Mar-2016	Apr-2016	May-2016	Jun-2016			
New York State E&G	1001-0310-422	EN-003229-0001-03TTO	Mr. C's Electric Costs	\$ 577.59	\$ 762.15	\$ 265.95	\$ 177.66	\$ 188.45				
New York State E&G	76-311-11-015900-18		Mr. C'e Maturel Cae Crete	¢8 33	4 75	58 87	\$ 76	\$ 24.37				
National Fuel Gas	CO-0706100	CI-1002-282-0001-1001-	Totals	, s	16		\$ 186.42		- \$			
				Jul-2	Aug-20	Sep-2016	Oct-2016	Nov-2016	Dec-2016			Ave. /Month
			Mr. C's Electric Costs								•	394.36
			Mr. C's Natural Gas Costs								\$	32.89
			Totals	\$0.00	-	- \$	- \$	- \$, \$		\$	427.25
			Electric - Mr. C's		\$1,971.80		Notes:					
			Natural Gas - Mr. C's		\$ 164.43		 Community of Database in Contrast, 2014, 2014, 2014, 2014, 2014, 2014 	Overbilled natur	Overbilled natural gas costs - no charges	charges		
	Grand	d Total - NYSE&G/Nation	Grand Total - NYSE&G/National Fuel Gas Costs To Date	\$	2,136.23			Estimated Reading	ding	\$ 333.44	in red -adjusted billing	lling
Phone												
Utility Provider	Phone #	E&E Cost Center	Location Description	Jan-2016	Feb-2016	Mar-2016	Apr-2016	May-2016	Jun-2016			
Verizon	716-652-0094	EN-003229-0001-03TTO	Mr. C's Telephone Costs	\$ 36.01	\$ 36.16	\$ 36.16	\$ 36.16					
Account #												
716 652 0094 416 26 2							2015	Nav. 2046	Dag 2016			Ave (Month
		EN-003229-0001-03TTO		0107-INC	6102-60W		0012010	0104			€9 	36.12
										_		
		Veri	Verizon Costs to Date - Mr. C's	\$	144.49							
		Grand Total 4	Grand Total All Utilities To Date	÷	2,280.72							
				•								

Mr. C's Dry Cleaners Site - Remedial Treatment Utility Costs	rs Site - Re	medial Treatmer	nt Utility Costs						ATTACHMENT B
NYSDEC Work Assignment #11	signment #'	11				Budget Remaining:	Electric:	\$23,328.20	
12 Months of System Operation and Maintenance	em Operatio	on and Maintena	nce	-			Telephone:	\$395.51	
May 2016 Report							Gas	\$955.57	
	Optimum Operating Hours	Actual Operating Hours	Up-time Percentage	Capacity	Comments:		Total:	\$24.679.28	
January-16	672	672	100.00%	9.7%	Verv mild winter - verv little snow.	w.			
February-16	0	0	0.00%	0.0%	System Shutdown				
March-16	0	0	0.00%	0.0%	System Shutdown				
April-16	0	0	0:00%	0.0%	System Shutdown				
May-16	0	0	0.00%	0.0%	System Shutdown				
June-16			i0/AIG#						
Ally-16							-		
September-16			#DIV/01						
October-16			i0//\IC#						
November-16			#DIV/0!						
December-16			#DIV/0I						
Totals to Date	672	672	400.001						
			- - L C()C						
Percent capacity is based on initial operating groundwater flows from the eight installed pumps from 9/02. Evaluated on total 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 ⁵	al operating groundwa ted as an average of	ater flows from the eight installe 78 gpm as the total for all 8 pur	ed pumps from 9/02. Evaluated of mps at the site if all pumps oper-	on total galions disc ate 100%. With the	jailons discharged for monthly operating time. . With the exception of groundwater pump RV	Percent Capacity is based on initial operating groundwater flows from the eight installed pumps from 9/02. Evaluated on total galions discharged for monthly operating time. Maximum pump discharges calculated as an average of 78 gpm as the total for all 8 pumps at the site if all pumps operate 100%. With the exception of groundwater pump RW-1, all others run on a batch basis.			
Acuthly Average Cos	4						a danabé ne na mandra e man da da pange man da da pangen na		
MULTINITY AVELAGE CUSIS	013								
Mr. C's Electric \$	\$ 394.36								
	۰ د								
	\$ 32.89								
Mr. C's Telephone \$	\$ 36.12								
Ave. Utility Cost Total \$		times	12 Month Estimate	\$6,023.79					

ecology and environment engineering, p.c.

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July 6, 2016

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 # 915157 June 2016 Operations, Maintenance, and Monitoring Report

Dear Mr. Welling:

Ecology and Environment Engineering, P.C. (EEEPC) is pleased to provide the June 2016 Operations, Maintenance, and Monitoring (OM&M) Report for the Mr. C's Dry Cleaners Site, NYSDEC Site # 915157, located in the Village of East Aurora, New York. A summary of field activities prepared by EEEPC's subcontractor, Iyer Environmental Group, PLLC (IEG), is provided in <u>Attachment A</u>. The site utility information is provided in <u>Attachment B</u>.

Per your request, the Mr. C's treatment system has been shutdown since February 4, 2016 and will continue to be offline for three months to evaluate the possible rebound of contaminants in groundwater. No influent/effluent samples were performed during this time as a result of the treatment system shutdown. Monthly water depth measurements are taken at the site's groundwater monitoring wells, piezometers, and pumping wells during this shutdown period by IEG. Groundwater sampling was performed by EEEPC from April 25-May 2, 2016 to evaluate the potential for rebound of the volatile organic compounds around the Mr. C's site.

In review of the on-site treatment system operations, monitoring and maintenance for June 2016, EEEPC offers the following comments and highlights:

Operational Summary

Mr. C's Site – Remedial Operations and Maintenance Information

• The June 2016 summary of field activities performed on 6/1/2016 and 6/27/2016 from IEG are provided as <u>Attachment A</u>.

Mr. William Welling, Project Manager July 6, 2016 Page 2 of 3

Subslab Depressurization Systems (SSDS)

- Property owner at 27 Whaley Ave. (David Dubois) has not returned EEEPC's calls for inspection of the SSDS unit. EEEPC will continue to contact to obtain access for inspection.
- Problems were encountered with moisture and freeze up in the fan system at the 586 Main Street "County Cupboard" SSDS unit. The SSDS is under review by GES and EEEPC.
- SSDS installation design at 31 Paine Street is currently in process.
- Discussion of new SSDS unit installation at 23 Paine Street is in progress. EEEPC needs to re-issue letter of determination of SSDS from NYSDOH to the new property owner. The new property owner of 23 Paine Street house as of November 2015 is David Dubois.

Status of Bioremediation Direct Push Injection Work

- Additional review of the recommendations in the summary report to be evaluated with the Remedial Site Optimization (RSO) program.
- The draft RSO was issued to NYSDEC on December 8, 2015.

Soil Vapor Intrusion Investigation Program (2015-2016)

• Discuss new property locations with NYSDEC / NYSDOH for SVII work in 2016.

Site Management Plan

- EEEPC submitted the updated/revised SMP to NYSDEC and NYSDEC Region 9 on March 2, 2015.
- This is an active site document, so future revisions will be performed once major changes to the management of the site are required after optimization evaluation is performed.

Annual Long-term Groundwater Monitoring Well Report

- Report of 2015 annual Groundwater results was issued to NYSDEC on December 21, 2015.
- The 2016 Groundwater sampling/analytical results report was submitted on June 16, 2016.

Periodic Review Report (PRR)

• The 2015 Periodic Review Report was issued to NYSDEC on January 29, 2015.

Mr. William Welling, Project Manager July 6, 2016 Page 3 of 3

If you have questions regarding the June 2016 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 D. Ster Jan

6

Michael G. Steffan Project Manager

cc: D. Szymanski, Region 9, NYSDEC - Buffalo w/ attachments
 D. Iyer, IEG – w/attachments
 CTF - 10C3074.0011.07

Mr. C's Dry Cleaners Site Remediation **System Operation and Management** Site #915157 Table 1

	Up-time	ime			VOC Removal	
	Reporting	Operational	Treated Effluent	Influent VOCs	Effluent	VOCs Removed
Month	Hours	Up-time	(gallon)	(μg/L)	VOCs(µg/L)	(lbs.)
(Up-time from 9/5/02 to 01/04/16)	111,949.50	95.23%	128,814,819	NA	NA	1,614.16
January 4, 2016 - February 1, 2016	672	200.001	305,578	692.0	0.0	1.76
February 1, 2016 - February 29, 2016	0	2600.0	0	0.0	0.0	0.00
March 1, 2016 - March 31, 2016	0	2600.0	0	0.0	0.0	0.00
April 1, 2016 - April 30, 2016	0	0.00%	0	0.0	0.0	0.00
April 31, 2016 - June 1, 2016	0	2600.0	0	0.0	0.0	0.00
June 1, 2016 -June 27, 2016	0	0.00%	0	0.0	0.0	0.00
Total in 2016	672.00	1.00	305,578	692.00	0.00	1.76

NOTES:

1,615.93

NA

Ν

129,120,397.00

0.95

112,621.50

Total from startup

1. Up-time based as percentage of total reporting hours.

2. Treatment system operated by the Tyree Organization Ltd. from 9/02 - 9/03.

3. Treatment system operated by O&M Enterprises Inc. from 10/03 - 7/07.

4. Treatment system operated by Iyer Environmental Group from 7/07 to present.

5. VOC removal calculations are based on monthly water samples and assumes samples are representative of the entire reporting period.

6. VOC removal calculations assume that non-detect values = 0 ug/L.

7. Total VOCs summations include estimated "J" values.

8. VOC removal calculations are based on effluent totalizer readings. 9. "Influent VOCs" and "Effluent VOCs" values given above is the summation of values for individual compounds given in monthly analytical reports.

10. Unit conversion: 1 pound = 453.5924 grams, 1 gallon = 3.785 liters 11. Formula for the VOC removal calculation:

(VOCs hiftuent - VOCs Effluent)(ug/L) ·(1g/10⁶ ug) ·(1 lb/453.5924 g) ·(Monthly process water)(gal) ·(3.785 L/gallon)

12. Using the 2/2/16 analytical results.

Table 2Mr. C's Dry Cleaners Site RemediationSite #915157Effluent Discharge Criteria & Analytical Compliance Results

			February - Effluent Analytical Values -
Parameter/Analyte	Daily Maximum ¹	Units	Compliance No Sampling Performed
Flow (Average)	N/A	gpd	No Sampling Performed
pH	6.0 - 9.0	standard units	· ······
1,1 Dichloroethene 1,1 Dichloroethane	10	μg/L	
cis-1,2-dichloroethene	10 10	μg/L μg/L	
Trichloroethene	10	μg/L μg/L	
Tetrachloroethene	10	μg/L μg/L	
Vinyl Chloride	10	μg/L μg/L	***************************************
Benzene	5	μg/L	
Ethylbenzene	5	μg/L	
Methylene Chloride	10	μg/L	• ••••••••••••••••••••••••••••••••••••
1,1,1 Trichloroethane	10	μg/L	
Toluene	5	μg/L	
Methyl-t-Butyl Ether (MTBE)	NA	ug/L	
o-Xylene ²	5	μg/L	
m, p-Xylene ²	10	μg/L	
Total Xylenes	NA	ug/L	
Iron, total	600	μg/L	No Sampling Performed
Aluminum	4,000	μg/L	
Copper	48	μg/L	
Lead	11	μg/L	
Manganese	2,000	μg/L	
Silver	100	μg/L	
Vanadium	28	μg/L	
Zinc	230	μg/L	
Total Dissolved Solids	850	mg/L	
Total Suspended Solids	20	mg/L	
Hardness	N/A	mg/L	
Cyanide, Free	10	μg/L	

NOTES:

1. "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: No treatment system operations in June 2016.
- 7. "J" indicates 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.
- 10. "NS" indicates that the parameter analysis was not sampled.

40 Indicates non-compliance with the NYSDEC effluent discharge requirements NR Indicates Not Reported by Lab

Table 3 Mr. C's Dry Cleaners Site Remediation NYSDEC Site #915157 June 2016 VOC Analytical Summary

	Based on the	Effluent Analy	tical Results
F F	Influent	Effluent	Cleanup
Compound	Concentration*	Concentration**	Efficiency***
F	(ug/L)	(ug/L)	(%)
Acetone	No Sampling Perf	formed in June 2016	
Benzene			
2-Butanone			
cis-1, 2-Dichloroethene			
Chloroform			
Chloromethane			
Methylene chloride			
Methyl tert-butyl ether (MTBE)			
Methyl acetate			
Tetrachloroethene (PCE)			
Toluene			
Trichloroethene (TCE)			
Carbon Disulfide			
1,1,2 Trichloro-1,2,2-trifluororethane			
2-Hexanone			
4-Methyl-2-pentanone			
Cyclohexane			
trans-1,2-dichloroethene			
Chlorobenzene			
Methylcyclohexane			
Ethylbenzene			
Methyl acetate			
Vinyl Chloride			
Total Xylenes			
• The 1 st progress monitoring			
sampling of the groundwater wells			
associated with the "pilot"			
bioaugmentation program was			
performed on July 1-2, 2013.	0.0	0.00	

Notes:

1. "NA" = Not applicable

2. "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.

5. "D" indicates the compound concentration was obtained form a secondary dilution analysis.6. Acetone was not detected in the influent sample above the MDL but detected in the effluent sample. It is not a contaminant of concern for the Mr. C's site.

* Detection Limits (<10) and (<50)

** Detection Limits (<1) and (<5)

*** Contaminants of Concern only

<u>Attachment A</u> IEG Summary of Field Activities June 2016

Mr. C's CLEANERS OM&M

SUMMARY OF FIELD ACTIVITIES BY IEG - 6/2016

DATE	ACTIVITY
1-Jun	Inspect and drain SVE systems as needed. End of month summaries. OM&M office work.
6-Jun	Inspect and drain SVE systems as needed.
13-Jun	Inspect and drain SVE systems as needed.
20-Jun	Inspect and drain SVE systems as needed. Inventory all drums in Treatment Room.
27-Jun	Inspect and drain SVE systems as needed. Inspect unit for water damage after neighbor reports damage to her unit. Talked to IAE about water concern.

<u>Attachment B</u> Summary of Site Utility Costs and Projections January to December 2016

Mr. C's Dry Cleaners Site - Remedial Treatment Utility Costs	ners Site - Re	medial Treatme	nt Utility Costs								ATTAC	ATTACHMENT B
NYSDEC Work Assignment #10C3074.0010.07	ssignment #	10C3074.0010.0	7					Utility Budget:		Electric:	\$25,300.00	
12 Months of System Operation and Maintenance	stem Operati	on and Mainten	ance							Telephone:	\$540.00	
June 2016 Report	rt									Gas	\$1,120.00	
Gas, Telephone, and Electric	Electric									Total:	\$26,960.00	
Utility Provider	Account #	E&E Cost Center	Description	Jan-2016	Feb-2016	Mar-2016	Apr-2016	May-2016	Jun-2016			
New York State E&G	1001-0310-422	EN-003229-0001-03TTO	Mr. C's Electric Costs	\$ 577.59	\$ 762.15	\$ 265.95	\$ 177.66	\$ 188.45	\$163.34			
New York State E&G	76-311-11-015900-18											
National Fuel Gas	5819628-05	EN-003229-0001-03TTO	Mr. C's Natural Gas Costs	\$ 68.33	\$ 4.15	\$ 58.82	\$ 8.76	\$ 24.37	\$17.22			
			Totals	\$ 645.92	\$ 766.30	\$ 324.77	\$ 186.42	\$ 212.82	\$ 180.56			
				Jul-2016	Aug-2016	Sep-2016	Oct-2016	Nov-2016	Dec-2016			Ave. /Month
			Mr. C's Electric Costs								50	355.86
			Mr. C's Natural Gas Costs								\$	30.28
			Totals	\$0.00	, ,	-	s	- \$			\$	386.13
			Electric - Mr. C's		\$2,135.14		Notes:					
			Natural Gas - Mr. C's		\$ 181.65			Overbilled natural gas costs - no charges	al gas costs - no (charges		
	Granc	d Total - NYSE&G/Natio	Grand Total - NYSE&G/National Fuel Gas Costs To Date	\$	2,316.79			Estimated Reading	ing	\$ 333,44	in red -adjusted billing	illing
Phone												
Utility Provider	Phone #	E&E Cost Center	Location Description	Jan-2016	Feb-2016	Mar-2016	Apr-2016	May-2016	Jun-2016			
Verizon	716-652-0094	EN-003229-0001-03TTO	Mr. C's Telephone Costs	\$ 36.01	\$ 36.16	\$ 36.16	\$ 36.16	\$ 36.16				
Account #												
716 652 0094 416 26 2												
				Jul-2016	Aug-2016	Sep-2016	Oct-2016	Nov-2016	Dec-2016			Ave./Month
		EN-003229-0001-03TTO									<u>v</u>	36,13
		Ver	Verizon Costs to Date - Mr. C's	\$	180.65							
		Grand Total A	Grand Total All Utilities To Date	s	2,497.44							
					0							
				>								
											_	

								2
- Remedial	Treatmer	Mr. C's Dry Cleaners Site - Remedial Treatment Utility Costs						ATTACHMENT B
NYSDEC Work Assignment #11					Budget Remaining:	Electric:	\$23,164.86	
12 Months of System Operation and Maintenance	Maintena	nce				Telephone:	\$359.35	
						Gas	\$938.35	
Optimum Operating Actual Op	Actual Operating Hours	Up-time Percentage	Capacity	Comments:		Total	\$24.462 56	
672	672	100.00%	9.7%	Verv mild winter - verv little snow.			200-401 (1-44	
0	0	0.00%	0.0%	System Shutdown				
0	0	0.00%	0.0%	System Shutdown				
0	0	0.00%	0.0%	System Shutdown				
0	0	0.00%	0.0%	System Shutdown				
0	0	0.00%	0.0%	System Shutdown				
		#DIVIO	C., bit					
		10//NIQ#						
		i0//IC#						
		#DIV/01						
672	672	100.00%						
		L -						
aurig groundwater nows from an average of 78 gpm as the	e total for all 8 pun	rencent capacity is based on million operating grountwater nows nom the eight instanted pumps from 9/02. Evaluated on faximum pump discharges calculated as an average of 78 gpm as the total for all 8 pumps at the site if all pumps operate	on total gallons disc ate 100%. With the	revent capacity is based on million operating groundwater nows nom the eight installed pumps from suc. Evaluated on total gallons discharged for monthly operating time. Maximum pump discharges calculated as an average of 78 gpm as the total for all 8 pumps at the site if all pumps operate 100%. With the exception of groundwater pump RW-1, all	, all others run on a batch basis.			
355 86								
30.28								
36.13								
422.26 ti	times	12 Month Estimate	\$5,489.40					

ecology and environment engineering, p.c.

International Specialists in the Environment

BUFFALO CORPORATE CENTER 368 Pleasant View Drive Lancaster, New York 14086 Tel: (716) 684-8060, Fax: (716) 684-0844

August 10, 2016

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 # 915157 July 2016 Operations, Maintenance, and Monitoring Report

Dear Mr. Welling:

Ecology and Environment Engineering, P.C. (EEEPC) is pleased to provide the July 2016 Operations, Maintenance, and Monitoring (OM&M) Report for the Mr. C's Dry Cleaners Site, NYSDEC Site # 915157, located in the Village of East Aurora, New York. A summary of field activities prepared by EEEPC's subcontractor, Iyer Environmental Group, PLLC (IEG), is provided in <u>Attachment A</u>. The site utility information is provided in <u>Attachment B</u>.

Per your request, the Mr. C's treatment system has been shutdown since February 4, 2016 and will continue to be offline until the Remedial Site Optimization (RSO) report is reviewed by the NYSDEC for determination of the future treatment requirements for the site.

No influent/effluent samples were performed during this time as a result of the treatment system shutdown. Monthly water depth measurements are taken at the site's groundwater monitoring wells, piezometers, and pumping wells during this shutdown period by IEG. Groundwater sampling was performed by EEEPC from April 25-May 2, 2016 to evaluate the potential for rebound of the volatile organic compounds around the Mr. C's site. The Groundwater Report was issued on June 16, 2016.

In review of the on-site treatment system operations, monitoring and maintenance for July 2016, EEEPC offers the following comments and highlights:

Operational Summary

Mr. C's Site - Remedial Operations and Maintenance Information

• The July 2016 summary of field activities performed between 6/27/2016 and 7/31/2016 from IEG are provided as <u>Attachment A</u>.

- The soil vapor extraction systems, underground enclosures, monitoring wells, and piezometers were inspected as needed.
- The damaged bolt to piezometer PZ-7D was replaced on 07/07/2016.
- A leaking hose in the treatment building was replaced on 07/22/2016.

Subslab Depressurization Systems (SSDS)

- Property owner at 27 Whaley Ave. (David Dubois) has not returned EEEPC's calls for inspection of the SSDS unit. EEEPC will continue to contact to obtain access for inspection.
- Problems were encountered with moisture and freeze up in the fan system at the 586 Main Street "County Cupboard" SSDS unit. The SSDS is under review by GES and EEEPC.
- SSDS installation design at 31 Paine Street is currently in process.
- Discussion of new SSDS unit installation at 23 Paine Street is in progress. EEEPC needs to re-issue letter of determination of SSDS from NYSDOH to the new property owner. The new property owner of 23 Paine Street house as of November 2015 is David Dubois.

Status of Bioremediation Direct Push Injection Work

- Additional review of the recommendations in the summary report to be evaluated with the Remedial Site Optimization (RSO) program.
- The draft RSO was issued to NYSDEC on December 8, 2015.

Soil Vapor Intrusion Investigation Program (2015-2016)

• Discuss new property locations with NYSDEC / NYSDOH for SVII work in 2016.

Site Management Plan

- EEEPC submitted the updated/revised SMP to NYSDEC and NYSDEC Region 9 on March 2, 2015.
- This is an active site document, so future revisions will be performed once major changes to the management of the site are required after optimization evaluation is performed.

Annual Long-term Groundwater Monitoring Well Report

- Report of 2015 annual Groundwater results was issued to NYSDEC on December 21, 2015.
- The 2016 Groundwater sampling/analytical results report was submitted on June 16, 2016.

Mr. William Welling, Project Manager August 10, 2016 Page 3 of 3

Periodic Review Report (PRR)

• The 2015 Periodic Review Report was issued to NYSDEC on January 29, 2015.

If you have questions regarding the July 2016 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 J. Steffor-

Michael G. Steffan Project Manager

cc: D. Szymanski, Region 9, NYSDEC - Buffalo w/ attachments
 D. Iyer, IEG – w/attachments
 CTF - 10C3074.0011.07

Mr. C's Dry Cleaners Site Remediation **System Operation and Management** Site #915157 Table 1

	Up-time	ime			VOC Removal	
Reporting		Operational	Treated Effluent	Influent VOCs	Effluent	VOCs Removed
Hours		Up-time	(gallon)	(µg/L)	VOCs(µg/L)	(lbs.)
111,949.50		95.23%	128,814,819	NA	NA	1,614.16
672		100.00%	305,578	692.0	0.0	1.76
0		0.00%	0	0.0	0.0	0.00
0		0.00%	0	0.0	0.0	0.00
0		0.00%	0	0.0	0.0	0.00
0		0.00%	0	0.0	0.0	0.00
0		0.00%	0	0.0	0.0	0.00
0		0.00%	0	0.0	0.0	0.00
	I					
00 022	Γ	1 00		00 007		l l

1.76	1,615.93
0.00	NA
692.00	NA
305,578	129,120,397.00
1.00	0.95
672.00	112,621.50
Total in 2016	Total from startup

NOTES:

1. Up-time based as percentage of total reporting hours.

2. Treatment system operated by the Tyree Organization Ltd. from 9/02 - 9/03.

3. Treatment system operated by O&M Enterprises Inc. from 10/03 - 7/07.

4. Treatment system operated by Iyer Environmental Group from 7/07 to present.

5. YOC removal calculations are based on monthly water samples and assumes samples are representative of the entire reporting period.

6. VOC removal calculations assume that non-detect values = 0 ug/L.

8. VOC removal calculations are based on effluent totalizer readings. 7. Total VOCs summations include estimated "J" values.

9."Influent VOCs" and "Effluent VOCs" values given above is the summation of values for individual compounds given in monthly analytical reports.

10. Unit conversion: 1 pound = 453.5924 grams, 1 gallon = 3.785 liters 11. Formula for the VOC removal calculation:

(VOCs ^{Influent} - VOCs _{Effluent})(ug/L) ·(1g/10⁶ ug) ·(1 lb/453.5924 g) ·(Monthly process water)(gal) ·(3.785 L/gallon) 12. Using the 2/2/16 analytical results.

Table 2Mr. C's Dry Cleaners Site RemediationSite #915157Effluent Discharge Criteria & Analytical Compliance Results

Parameter/Analyte	Daily Maximum ¹	Units	July - Effluent Analytical Values - Compliance
Flow (Average)	N/A	gpd	No Sampling Performed
pH	6.0 - 9.0	standard units	
1,1 Dichloroethene	10	μg/L	
1,1 Dichloroethane	10	μg/L	
cis-1,2-dichloroethene	10	μg/L	
Trichloroethene	10	μg/L	
Tetrachloroethene	10	μg/L	
Vinyl Chloride	10	μg/L	
Benzene	5	μg/L	
Ethylbenzene	5	μg/L	
Methylene Chloride	10	μg/L	
1,1,1 Trichloroethane	10	μg/L	
Toluene	5	μg/L	
Methyl-t-Butyl Ether (MTBE)	NA	ug/L	
o-Xylene ²	5	μg/L	
m, p-Xylene ²	10	μg/L	
Total Xylenes	NA	ug/L	
Iron, total	600	μg/L	No Sampling Performed
Aluminum	4,000	μg/L	
Copper	48	µg/L	
Lead	11	μg/L	
Manganese	2,000	μg/L	
Silver	100	μg/L	
Vanadium	28	µg/L	
Zinc	230	μg/L	
Total Dissolved Solids	850	mg/L	
Total Suspended Solids	20	mg/L	
Hardness	N/A	mg/L	
Cyanide, Free	10	μg/L	

NOTES:

1. "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: No treatment system operations in July 2016.
- 7. "J" indicates 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.
- 10. "NS" indicates that the parameter analysis was not sampled.

40 Indicates non-compliance with the NYSDEC effluent discharge requirements NR Indicates Not Reported by Lab

Table 3 Mr. C's Dry Cleaners Site Remediation NYSDEC Site #915157 July 2016 VOC Analytical Summary

	Based on th	e July Effluent Analytics	al Results
	Influent	Effluent	Cleanup
Compound	Concentration*	Concentration**	Efficiency***
	(ug/L)	(ug/L)	(%)
Acetone	No Sampling Perf	ormed in July 2016	(70)
Benzene			
2-Butanone			
cis-1, 2-Dichloroethene			
Chloroform			
Chloromethane		1	
Methylene chloride			
Methyl tert-butyl ether (MTBE)			
Methyl acetate			
Tetrachloroethene (PCE)			
Toluene			
Trichloroethene (TCE)			
Carbon Disulfide			
1,1,2 Trichloro-1,2,2-trifluororethane			
2-Hexanone			
4-Methyl-2-pentanone			
Cyclohexane			
trans-1,2-dichloroethene			
Chlorobenzene			
Methylcyclohexane			
Ethylbenzene			
Methyl acetate			
Vinyl Chloride			
Total Xylenes			
• The 1 st progress monitoring			
sampling of the groundwater wells			
associated with the "pilot"			
bioaugmentation program was			
performed on July 1-2, 2013.	0.0	0.00	

Notes:

1. "NA" = Not applicable

2. "U" = Compound analyzed, but was not detected. Detection limit in parentheses.

3. "DJ" or "J" indicates an estimated value below the practical quantitation limit but above the method detection limit.

4. Non-detect values are assumed to be equal to zero for calculation of monthly average concentrations.

5. "D" indicates the compound concentration was obtained form a secondary dilution analysis.

6. Acetone was not detected in the influent sample above the MDL but detected in the effluent sample. It is not a contaminant of concern for the Mr. C's site.

* Detection Limits (<10) and (<50)

** Detection Limits (<1) and (<5)

*** Contaminants of Concern only

<u>Attachment A</u> IEG Summary of Field Activities July 2016

à.

Mr. C's CLEANERS OM&M

SUMMARY OF FIELD ACTIVITIES BY IEG - 7/2016

DATE	ACTIVITY
2-Jul	Inspect and drain SVE systems as needed. Inspect UEs and MWs. Respond to AutoDialer.
3-Jul	End of month summaries.
7-Jul	Inspect and drain SVE systems as needed. PZ-7D - replace damage bolt. Swept Library Parking Lot. Respond to complaint about hose leaking water.
8-Jul	OM&M office work
14-Jul	Inspect and drain SVE systems as needed. Inspect UEs and MWs. Put up procedure signs in Treatment Room.
21-Jul	Get Supplies
22-Jul	Inspect and drain SVE systems as needed. Inspect UEs and MWs. Replace leaking water hose.
31-Jul	Inspect and drain SVE systems as needed. Inspect Peizometers.

Mr. C's CLEANERS OM&M STATUS OF FIELD ACTIVITIES BY IEG - 7/2016

ACTIVITY	DESCRIPTION	COMPLETION DATE/STATUS
Trim High Piezometer Risers	Some of the piezometer risers are so high that the riser cap interferes with the top cover. Either the inner ring has sunk or the risers have elevated since installation. Identify problem piezometers (PZ-4D) and trim a small amount off of the riser.	Apr-16
Concrete inside inner ring obstructs Riser Cap	The concrete base inside the inner ring is level with the riser and causing interference with the riser cap. Identify problem piezometers (MPI-1S). Removed concrete adjacent to riser.	Apr-16
Ground around PW-8 has sunk	The ground around PW-8 that was excavated to replace the pit-less adapter has sunk several inches. Add topsoil to level the area and add grass seed/mulch.	Apr-16
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
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
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
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 Leaking Ball Valve	Influent ball valve east of EQ Tank drips. Inspect/clean & replace if necessary.	in progress
PZ-1B has damage	PZ-2B has surface concrete damage from severe winter conditions this year. Repair chipped concrete with epoxy material.	in progress
Redux usage rapidly increased	The rate of Redux usage increased rapidly during the past several months despite turning the Jesco Pump settings to their lowest levels. Clean pump and test. Adjust clamps on Redux line. Replace pump if necessary.	in progress
Reduce Influent Pump Rate	Lab Tests have shown high levels of VOCs. Try lengthening the time that the Influent Pump runs to increase the Air Sparging time inside the Air Stripper	in progress
Add Air Sparging System	Lab Tests have shown high levels of VOCs. Try adding an Air Sparging system to the sump box of the Air Stripper to increase the treatment of the effluent.	in progress
South Wall should be sealed	South Wall of Treatment Room has leaked into the neighboring unit several times when there have been water related problems. Trim wall insullation matting to reduce moisture retension. Seal base of wall with silicone caulking.	in progress
SVE Fan pipe collects water	The SVE Fan pipe on Building 586 collects water. There is a plug just below the fan to drain water out of the horizontal section of the pipe. Inspect system and make corrections to prevent the pipe from filling with water.	in progress
Repair PZ-4B	Inner ring of piezometer was severely damaged by Town's snowplow truck. Talked to Town - they will address problem in Spring. Inner ring must be replaced.	in progress
Remove Piezometer Lock	Somepiezometers have padlocks on there riser caps which are defective or no longer have keys. Some of the caps are too tight to put back on the riser properly after removal. Identify problem piezometers (MPI-9SR, MPI-13BR). Remove lock.	May-16
Broken Bolt on PZ-7D	The bolt on this peizometer was bent and then broken by plow trucks during the winter. Tap damaged bracket threads and replace bolt.	Jul-16

16	부뜨								
as of Jul 2016	ELECTRICAL BOX REPAIR		Sep-09		Sep-09		Jul 09, Sep 09		Apr-13
	CLEAN OUT & INSPECT ELECTRICAL BOX		Nov-11	Nov 11, Sep 15	Sep 09, Nov 11	Jan-12	Aug 09, Sep 09, Sep 15		Apr 13, Aug 15
	PUMP OUT WELL		Aug-09	Aug-09	Jul 09, Sep 09		Aug-09	Aug 09, May 10, Aug 11	Aug 09, May 10, Aug 11
	REPLACE ANEROID BELLOWS						Aug 15		Aug 15
	REPLACE TRANSDUCER		Sep 09, Dec 11	Dec 11, Sep 15	Dec 11, Mar 08, Sep 08	Jan 12, Sep 08	Sep 09, Sep 15		
	CLEAN & INSPECT TRANSDUCER	May 10, Jan 12, Oct 15	Nov 11, May 10, Apr 13 Dec 15	Aug 09, Nov 11, Oct 15	May 10, Nov 11, Oct 15	Mar 11, Oct 15	Aug 09, Jul 12, Dec 12, Apr 13, Aug 15	Oct 10, Aug 11, Mar 12, Jul 12, Dec 12, Aug 15	May 10, Aug 11, Jul 12, Dec 12, Apr 13, Aug 15
	CHECK VALVE						Aug 15	Aug 15	Aug 15
	HORIZONTA L PIPE		Sep-15	Sep-15			Jul 12, Nov 12, Sep 15	Jul 12, Nov 12	Pipe 8/09, Jul 12, Sep 15
	INNER RING				Aug 13				
	PITLESS ADAPTER			Repair adapter			Replaced Aug 15	Replaced Aug 15	Replaced Aug 15
	REPAIR PUMP	May 10, Nov 08			Sep-13				
	REPLACED	Feb 08, Jan 12	Jul 08, Apr 13 Dec 15	Jul 08, Dec 11, Oct 15	Dec 07, Jan 12	Jul 08, Jan 12	Jun 08, Jul 09, Aug 12, Nov 12, Sep 15	Nov 07, Jul 09, Oct 10, Nov 12	Jui 08, Sep 09, Aug 11, Dec 12
	CLEAN & INSPECT PUMP	Jan 08, May 10, Jan 12, Oct 15	Jun 08, Aug 09, May 10, Apr 13, Sep 15	Jun 08, Aug 09, May 10, Sep 15	Dec 07, May 08, Sep 09, May 10, Jan 12, Oct 15	Jan 12, May 08, Oct 15	Jun 08, Jul 09, Jul 12, Nov 12, Aug 15	Jun 08, Jul 09, May 10, Oct 10, Aug 11, Mar 12, Jul 12, Nov 12, Aug 15	Jun 08, Aug 09, May 10, Aug 11, Jul 12, Dec 12, Aug 15
	₽	RW - 1	PW - 2	PW - 3	PW - 4	PW - 5	PW - 6	7 - Wq	PW - 8

Mr. C's CLEANERS OM&M SUMMARY OF WATER PUMP MAINTENANCE BY IEG - 2016

as of Jul 2016

NEEDS U.E. Repair YES -Asphalt patch DONE YES -bolts YES -bolts g g g NEEDS U.E. CLEANE D g g g g g g g NEEDS ANEROID BELLOWS g g g 8 g NEEDS NEW TRANSDUCE R g g g L CHECK TRANSDUCE L VALVE R INSPECTION INSPECTION g g g g g 8 2 NEEDS HORIZONTAL LINE PURGE g g PITLESS ADAPTER CLEAN-OUT NEEDS YES YES 20 g NEEDS P.A. OR PIPE NEEDS NEW INNER RING PZ-4B PZ-1B g g g ð g NEEDS NEED CLEANING & S INSPECTION PUMP g g g g g g g YES g g 8 g g 2 **RW-1** PW-2 PW-3 PW4 PW-5 PW-6 PW-7 ₽

g

0 Z

g

g

g

g

g

2

Q

9 Z

PW-8

as of J

SUMMARY OF WATER PUMP STATUS - 2016

Mr. C's CLEANERS OM&M

<u>Attachment B</u> Summary of Site Utility Costs and Projections January to December 2016

Mr. C's Dry Cleaners Site - Remedial Treatment Utility Costs	ners Site - Re	medial Treatme	nt Utility Costs								ATTACI	ATTACHMENT B
NYSDEC Work Assignment #10C3074.0010.07	ssignment #	10C3074.0010.07						Utility Budget		Electric:	\$25,300.00	
12 Months of System Operation and Maintenance	stem Operation	on and Maintena	ance						~	Telephone:	\$540.00	
July 2016 Report										Gas	\$1,120.00	
Gas, Telephone, and Electric	Electric									Total:	\$26,960.00	
Utility Provider	Account #	E&E Cost Center	Description	Jan-2016	Feb-2016	Mar-2016	Apr-2016	May-2016	Jun-2016			
New York State E&G	1001-0310-422	EN-003229-0001-03TTO	Mr. C's Electric Costs	\$ 577.59	\$ 762.15	\$ 265.95	\$ 177.66	\$ 188.45	\$163.34			
New York State E&G	76-311-11-015900-18											
National Fuel Gas	5819628-05	EN-003229-0001-03TTO	Mr. C's Natural Gas Costs	\$ 68.33	\$ 4.15	\$ 58.82	\$ 8.76	\$ 24.37	\$17.22			
			Totals		\$ 766.30	\$ 324.77	\$ 186.42	\$ 212.82	\$ 180.56			
				Jul-2016	Aug-2016	Sep-2016	Oct-2016	Nov-2016	Dec-2016			Ave. /Month
	•••••		Mr. C's Electric Costs	\$ 175.96							0	330.16
			Mr. C's Natural Gas Costs	\$21.17							••	28.97
			Totals	\$197.13	, \$	، ج	- \$	- \$	\$		\$	359.13
			Electric - Mr. C's		\$2,311.10		Notes:					
			Natural Gas - Mr. C's		\$ 202.82			Overbilled natural gas costs - no charges	al gas costs - no (charges		
	Grand	I Total - NYSE&G/Nation	Grand Total - NYSE&G/National Fuel Gas Costs To Date	\$	2,513.92	********		Estimated Reading	ing	\$ 333.44	in red -adjusted billing	lling
Phone												
Utility Provider	Phone #	E&E Cost Center	Location Description	Jan-2016	Feb-2016	Mar-2016	Apr-2016	May-2016	Jun-2016			
Verizon	716-652-0094	EN-003229-0001-03TTO	Mr. C's Telephone Costs	\$ 36.01	\$ 36.16	\$ 36.16	\$ 36.16	\$ 40.86				
Account #												
716 652 0094 416 26 2												
				Jul-2016	Aug-2016	Sep-2016	Oct-2016	Nov-2016	Dec-2016			Ave./Month
		EN-003229-0001-03TTO									\$	37.07
		Veri	Verizon Costs to Date - Mr. C's	\$	185.35							
			1	6	2 200 0							
		Grand Total A	Grand Total All Utilities To Date	₽	2,699.21							

Mr. C's Dry Cleaners Site - Remedial Treatment Utility Costs	ers Site - Re	emedial Treatmen	nt Utility Costs							ATTACHMENT B
NYSDEC Work Assignment #11	signment #					Budget Remaining:	maining:	Electric:	\$22,988.90	
12 Months of System Operation and Maintenance	tem Operati	on and Maintena	Ince					Telephone:	\$354.65	
July 2016 Report								Gas	\$917.18	
	Optimum Operating Hours	Actual Operating Hours	Up-time Percentage	Capacity	Comments:			Total ⁻	\$24.260.73	
January-16	672	672	100.00%	9.7%	Verv mild winter - verv little snow				2	
February-16		0	0.00%	0.0%	System Shutdown					
March-16		0	0.00%	0.0%	System Shutdown					
April-16		0	0.00%	0.0%	System Shutdown			ند		
May-16		0	0.00%	0.0%	System Shutdown					
10L-9UUC	00	2	0.00%	0.0%	System Shutdown					
Aunst-16		0	0.00%	0.0%	System Shutdown					
September-16			#DIV/01							
October-16			i0//i0#							
November-16			#DIV/0I							
December-16			#DIV/0I							
Totals to Date	672	672	100.00%							
* Percent Capacity is based on initial operating groundwater flows from the eight installed pumps from 9/02. Evaluated on	tial operating groundw	ater flows from the eight install	ed pumps from 9/02. Evaluated o		total gallons discharged for monthly operating time.					
Maximum pump discharges calculated as an average of 78 gpm as the total for all 8 pumps at the site if all pumps operate	ated as an average of	78 gpm as the total for all 8 pur	nps at the site if all pumps opera	te 100%. With the	100%. With the exception of groundwater pump RW-1, all others run on a batch basis.	W-1, all others run on a bat	ch basis.			
Monthly Average Co	0+0									
	616									
Mr. C's Electric	\$ 330.16									
Agway Electric	ۍ ډ									
Mr. C's Gas										
Mr. C's Telephone	\$ 37.07									
Ave. Utility Cost Total	\$ 396.20	1 times	12 Month Estimate	\$5,150.62						

ecology and environment engineering, p.c.

International Specialists in the Environment

BUFFALO CORPORATE CENTER 368 Pleasant View Drive Lancaster, New York 14086 Tel: (716) 684-8060, Fax: (716) 684-0844

September 9, 2016

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 # 915157 August 2016 Operations, Maintenance, and Monitoring Report

Dear Mr. Welling:

Ecology and Environment Engineering, P.C. (EEEPC) is pleased to provide the August 2016 Operations, Maintenance, and Monitoring (OM&M) Report for the Mr. C's Dry Cleaners Site, NYSDEC Site # 915157, located in the Village of East Aurora, New York. A summary of field activities prepared by EEEPC's subcontractor, Iyer Environmental Group, PLLC (IEG), is provided in <u>Attachment A</u>. The site utility information is provided in <u>Attachment B</u>.

Per your request, the Mr. C's treatment system has been shutdown since February 4, 2016 and will continue to be offline until the Remedial Site Optimization (RSO) report is reviewed by the NYSDEC for determination of the future treatment requirements for the site. The revised RSO is to be submitted in mid-September.

No influent/effluent samples were performed during this time as a result of the treatment system shutdown. Monthly water depth measurements are taken at the site's groundwater monitoring wells, piezometers, and pumping wells during this shutdown period by IEG. Groundwater sampling was performed by EEEPC from April 25-May 2, 2016 to evaluate the potential for rebound of the volatile organic compounds around the Mr. C's site. The Groundwater Report was issued on June 16, 2016.

In review of the on-site treatment system operations, monitoring and maintenance for August 2016, EEEPC offers the following comments and highlights:

Operational Summary

Mr. C's Site – Remedial Operations and Maintenance Information

- The August 2016 summary of field activities performed between 8/1/2016 and 9/3/2016 from IEG are provided as <u>Attachment A</u>.
- Drain SVE system at Country Cottage and inspect piezometers.

Mr. William Welling, Project Manager September 9, 2016 Page 2 of 3

Subslab Depressurization Systems (SSDS)

- Property owner at 27 Whaley Ave. (David Dubois) has not returned EEEPC's calls for inspection of the SSDS unit. EEEPC will continue to contact to obtain access for inspection.
- Problems were encountered with moisture and freeze up in the fan system at the 586 Main Street "County Cupboard" SSDS unit. The SSDS is under review by GES and EEEPC.
- SSDS installation design at 31 Paine Street is currently in process.
- Discussion of new SSDS unit installation at 23 Paine Street is in progress. EEEPC needs to re-issue letter of determination of SSDS from NYSDOH to the new property owner. The new property owner of 23 Paine Street house as of November 2015 is David Dubois.

Status of Bioremediation Direct Push Injection Work

- Additional review of the recommendations in the summary report to be evaluated with the Remedial Site Optimization (RSO) program.
- The draft RSO was issued to NYSDEC on December 8, 2015.

Soil Vapor Intrusion Investigation Program (2015-2016)

• Discuss new property locations with NYSDEC / NYSDOH for SVII work in 2016.

Site Management Plan

- EEEPC submitted the updated/revised SMP to NYSDEC and NYSDEC Region 9 on March 2, 2015.
- This is an active site document, so future revisions will be performed once major changes to the management of the site are required after optimization evaluation is performed.

Annual Long-term Groundwater Monitoring Well Report

- Report of 2015 annual Groundwater results was issued to NYSDEC on December 21, 2015.
- The 2016 Groundwater sampling/analytical results report was submitted on June 16, 2016.
- Review with the NYSDEC PM if another groundwater sampling / analytical for fall 2016.

Mr. William Welling, Project Manager September 9, 2016 Page 3 of 3

Periodic Review Report (PRR)

• The 2015 Periodic Review Report was issued to NYSDEC on January 29, 2015.

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• 2016 PRP starting to be prepared.

If you have questions regarding the August 2016 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 D. Steffer

Michael G. Steffan Project Manager

cc: D. Szymanski, Region 9, NYSDEC - Buffalo w/ attachments D. Iyer, IEG – w/attachments CTF - 10C3074.0011.07

Mr. C's Dry Cleaners Site Remediation **System Operation and Management** Site #915157 Table 1

	Cp-1	Up-time			VUC Removal	
	Reporting	Operational	Treated Effluent	Influent VOCs	Effluent	VOCs Removed
Month	Hours	Up-time	(gallon)	(µg/L)	VOCs(µg/L)	(lbs.)
(Up-time from 9/5/02 to 01/04/16)	111,949.50	95.23%	128,814,819	NA	NA STATE	1,614.16
January 4, 2016 - February 1, 2016	672	100.00%	305,578	692.0	0.0	1.76
February 1, 2016 - February 29, 2016	0	0.00%	0	0.0	0.0	0.00
March 1, 2016 - March 31, 2016	0	0.00%	0	0.0	0.0	0.00
April 1, 2016 - April 30, 2016	0	0.00%	0	0.0	0.0	0.00
April 31, 2016 - June 1, 2016	0	0.00%	0	0.0	0.0	0.00
June 1, 2016 - June 27, 2016	0	0.00%	0	0.0	0.0	0.00
June 27, 2016 - July 31, 2016	0	0.00%	0	0.0	0.0	0.00
July 31, 2016 - September 3, 2016	0	0.00%	0	0.0	0.0	0.00
			b)			
Total in 2016	672.00	1.00	305,578	692.00	0.00	1.76

1,615.93 NA NA 129,120,397.00 0.95 112,621.50 Total from startup

NOTES:

1. Up-time based as percentage of total reporting hours.

2. Treatment system operated by the Tyree Organization Ltd. from 9/02 - 9/03.

3. Treatment system operated by O&M Enterprises Inc. from 10/03 - 7/07.

4. Treatment system operated by Iyer Environmental Group from 7/07 to present.

5.VOC removal calculations are based on monthly water samples and assumes samples are representative of the entire reporting period.

6. VOC removal calculations assume that non-detect values = 0 ug/L.

8. VOC removal calculations are based on effluent totalizer readings. 7. Total VOCs summations include estimated "J" values.

9. "Influent VOCs" and "Effluent VOCs" values given above is the summation of values for individual compounds given in monthly analytical reports.

10. Unit conversion: 1 pound = 453.5924 grams, 1 gallon = 3.785 liters

11. Formula for the VOC removal calculation:

(VOCs _{Influent} - VOCs _{Effluent})(ug/L) ·(1g/10⁶ ug) ·(1 lb/453.5924 g) ·(Monthly process water)(gal) ·(3.785 L/gallon) 12. Using the 2/2/16 analytical results.

Table 2Mr. C's Dry Cleaners Site RemediationSite #915157Effluent Discharge Criteria & Analytical Compliance Results

			August - Effluent Analytical Values -
Parameter/Analyte	Daily Maximum ¹	Units	Compliance
Flow (Average)	N/A	gpd	No Sampling Performed
pH	6.0 - 9.0	standard units	
1,1 Dichloroethene	10	μg/L	
1,1 Dichloroethane	10	μg/L	
cis-1,2-dichloroethene	10	μg/L	
Trichloroethene	10	μg/L_	
Tetrachloroethene	10	μg/L	
Vinyl Chloride	10	μg/L	
Benzene	5	μg/L	
Ethylbenzene	5	μg/L_	
Methylene Chloride 1,1,1 Trichloroethane	10 10	μg/L	
		μg/L	
Toluene Mathal & Dutal Ethan (MEDE)	5 NA	μg/L	
Methyl-t-Butyl Ether (MTBE)		ug/L	
o-Xylene ²	5	μg/L	····
m, p-Xylene ²	10	μg/L	
Total Xylenes	NA	ug/L	
Iron, total	600	μg/L	No Sampling Performed
Aluminum	4,000	μg/L	
Copper	48	μg/L	
Lead	11	μg/L	
Manganese	2,000	μg/L	
Silver	100	μg/L	
Vanadium	28	μg/L	
Zinc	230	μg/L	
Total Dissolved Solids	850	mg/L	
Total Suspended Solids	20	mg/L	
Hardness	N/A	mg/L	
Cyanide, Free	10	μg/L	

NOTES:

1. "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: No treatment system operations in August 2016.
- 7. "J" indicates 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.
- 10. "NS" indicates that the parameter analysis was not sampled.

40 Indicates non-compliance with the NYSDEC effluent discharge requirements NR Indicates Not Reported by Lab

Table 3 Mr. C's Dry Cleaners Site Remediation NYSDEC Site #915157 August 2016 VOC Analytical Summary

	Based on the	he July Effluent Analytic	al Results
	Influent	Effluent	Cleanup
Compound	Concentration*	Concentration**	Efficiency***
-	(ug/L)	(ug/L)	(%)
Acetone	No Sampling Perfo	rmed in August 2016	
Benzene			
2-Butanone			
cis-1, 2-Dichloroethene			
Chloroform			
Chloromethane			
Methylene chloride			
Methyl tert-butyl ether (MTBE)			
Methyl acetate			
Tetrachloroethene (PCE)	·		
Toluene			
Trichloroethene (TCE)			
Carbon Disulfide			
1,1,2 Trichloro-1,2,2-trifluororethane			
2-Hexanone			
4-Methyl-2-pentanone			
Cyclohexane			
trans-1,2-dichloroethene			
Chlorobenzene			
Methylcyclohexane			
Ethylbenzene			
Methyl acetate			
Vinyl Chloride			
Total Xylenes			
• The 1 st progress monitoring			
sampling of the groundwater wells			
associated with the "pilot"			
bioaugmentation program was			
performed on July 1-2, 2013.	0.0	0.00	

Notes:

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

3. "DJ" or "J" indicates an estimated value below the practical quantitation limit but above the method detection limit.

4. Non-detect values are assumed to be equal to zero for calculation of monthly average concentrations.

5. "D" indicates the compound concentration was obtained form a secondary dilution analysis.6. Acetone was not detected in the influent sample above the MDL but detected in the effluent sample. It is not a contaminant of concern for the Mr. C's site.

* Detection Limits (<10) and (<50)

** Detection Limits (<1) and (<5)

*** Contaminants of Concern only

<u>Attachment A</u> IEG Summary of Field Activities August 2016

Mr. C's CLEANERS OM&M

SUMMARY OF FIELD ACTIVITIES BY IEG - 8/2016

DATE	ΑCTIVITY
2-Aug	End of month summaries. OM&M office work.
7-Aug	Inspect and drain SVE systems as needed. Inspect Peizometers.
16-Aug	Inspect and drain SVE systems as needed. Respond to AutoDialer alarm. Inspect Piezometers.
23-Aug	Inspect and drain SVE systems as needed. Inspect Peizometers.
29-Aug	Inspect and drain SVE systems as needed. Inspect Peizometers.

Mr. C's CLEANERS OM&M STATUS OF FIELD ACTIVITIES BY IEG - 8/2016

ACTIVITY	DESCRIPTION	COMPLETION DATE/STATUS	
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	
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	
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	
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 Leaking Ball Valve	Influent ball valve east of EQ Tank drips. Inspect/clean & replace if necessary.	in progress	
PZ-1B has damage	PZ-2B has surface concrete damage from severe winter conditions this year. Repair chipped concrete with epoxy material.	in progress	
Redux usage rapidly increased	The rate of Redux usage increased rapidly during the past several months despite turning the Jesco Pump settings to their lowest levels. Clean pump and test. Adjust clamps on Redux line. Replace pump if necessary.	in progress	
Reduce Influent Pump Rate	Pump runs to increase the Air Sparging time inside the Air Stripper		
Add Air Sparging System	Lab Tests have shown high levels of VOCs. Try adding an Air Sparging system to the sump box of the Air Stripper to increase the treatment of the effluent.	in progress	
South Wall should be sealed	South Wall of Treatment Room has leaked into the neighboring unit several times when there have been water related problems. Trim wall insullation matting to reduce moisture retension. Seal base of wall with silicone caulking.	in progress	
SVE Fan pipe collects water	The SVE Fan pipe on Building 586 collects water. There is a plug just below the fan to drain water out of the horizontal section of the pipe. Inspect system and make corrections to prevent the pipe from filling with water.	in progress	
Repair PZ-4B	Inner ring of piezometer was severely damaged by Town's snowplow truck. Talked to Town - they will address problem in Spring. Inner ring must be replaced.	in progress	
Remove Piezometer Lock	Somepiezometers have padlocks on there riser caps which are defective or no longer have keys. Some of the caps are too tight to put back on the riser properly after removal. Identify problem piezometers (MPI-9SR, MPI-13BR). Remove lock.	May-16	
Broken Bolt on PZ-7D	The bolt on this peizometer was bent and then broken by plow trucks during the winter. Tap damaged bracket threads and replace bolt.	Jul-16	
EE-4 Paved Over	During the Aug 2016 paving of the north half of the parking lot, Piezometer EE-4 was covered. Locate piezometer and remove asphalt to expose it.	in progress	

of Aug 2016

ELECTRICAL BOX REPAIR		Sep-09		Sep-09		Jul 09, Sep 09		Apr-13
ELEC		Ň		Ŵ		ס ר־ 		
CLEAN OUT & INSPECT ELECTRICAL	BOX	Nov-11	Nov 11, Sep 15	Sep 09, Nov 11	Jan-12	Aug 09, Sep 09, Sep 15		Apr 13, Aug 15
PUMP OUT WELL		Aug-09	Aug-09	Jul 09, Sep 09		Aug-09	Aug 09, May 10, Aug 11	Aug 09, May 10, Aug 11
REPLACE ANEROID BELLOWS						Aug 15		Aug 15
REPLACE		Sep 09, Dec 11	Dec 11, Sep 15	Dec 11, Mar 08, Sep 08	Jan 12, Sep 08	Sep 09, Sep 15		
CLEAN & INSPECT	May 10, Jan 12, Oct 15	Nov 11, May 10, Apr 13 Dec 15	Aug 09, Nov 11, Oct 15	May 10, Nov 11, Oct 15	Mar 11, Oct 15	Aug 09, Jul 12, Dec 12, Apr 13, Aug 15	Oct 10, Aug 11, Jul 12, Dec 12, Aug 15	May 10, Aug 11, Jul 12, Dec 12, Apr 13, Aug 15
CHECK VALVE						Aug 15	Aug 15	Aug 15
HORIZONTA L PIPE		Sep-15	Sep-15			Jul 12, Nov 12, Sep 15	Jul 12, Nov 12	Pipe 8/09, Jul 12, Sep 15
INNER RING				Aug 13				
PITLESS ADAPTER			Repair adapter			Replaced Aug 15	Replaced Aug 15	Replaced Aug 15
REPAIR	May 10, Nov 08			Sep-13				
REPLACED	Feb 08, Jan 12	Jul 08, Apr 13 Dec 15	Jul 08, Dec 11, Oct 15	Dec 07, Jan 12	Jul 08, Jan 12	Jun 08, Jul 09, Aug 12, Nov 12, Sep 15	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, Oct 15	Jun 08, Aug 09, May 10, Apr 13, Sep 15	Jun 08, Aug 09, May 10, Sep 15	Dec 07, May 08, Sep 09, May 10, Jan 12, Oct 15	Jan 12, May 08, Oct 15	Jun 08, Jul 09, Jul 12, Nov 12, Aug 15	Jun 08, Jul 09, May 10, Oct 10, Aug 11, Mar 12, Jul 12, Nov 12, Aug 15	Jun 08, Aug 09, May 10, Aug 11, Jul 12, Dec 12, Aug 15
٩	RW - 1	PW - 2	PW - 3	PW - 4	PW - 5	PW - 6	7 - Wq	PW - 8

Mr. C's CLEANERS OM&M SUMMARY OF WATER PUMP MAINTENANCE BY IEG - 2016

as of Aug 2016

Mr. C's CLEANERS OM&M SUMMARY OF WATER PUMP STATUS - 2016

٩	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 NEEDS CHECK TRANSDUCE VALVE R INSPECTION INSPECTION	NEEDS NEW TRANSDUCE R	NEEDS ANEROID BELLOWS	NEEDS U.E. CLEANE D	NEEDS U.E. REPAIR
RW-1	ON	ON	PZ-1B		YES				ON	ON	ON	ON	YES - bolts
PW-2	ON	ON N	ON		ON				ON		ON	ON	YES - bolts
PW-3	ON	ON N	ON						ON		ON	ON	ON
PW-4	ON	ON N	PZ-4B						ON		ON	ON	YES - Asphalt patch
PW-5	ON	Q	Q		YES				ON			NO	ON
9-W4	ON	Q	QN				ON		ON	NO	ON	NO	DONE
PW-7	YES	Q	N		ON		ON		ON	NO		NO	ON
PW-8	NO	Q	ON		ON		ON		ON	NO	NO	NO	NO

<u>Attachment B</u> Summary of Site Utility Costs and Projections January to December 2016

Mr. C's Dry Cleaners Site - Remedial Treatment Utility Costs	ters Site - Re	medial Treatme	nt Utility Costs								ATTAC	ATTACHMENT B
NYSDEC Work Assignment #10C3074.0010.07	ssignment #	10C3074.0010.0	2					Utility Budget:		Electric:	\$25,300.00	
12 Months of System Operation and Maintenance	stem Operation	on and Mainten	ance							Telephone:	\$540.00	
August 2016 Report	ort									Gas	\$1,120.00	Annual
Gas, Telephone, and Electric	Electric									Total:	\$26,960.00	
Utility Provider	Account #	E&E Cost Center	Description	Jan-2016	Feb-2016	Mar-2016	Apr-2016	May-2016	Jun-2016			
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			Totals	\$ 645.92 \$	\$ 766.30	\$ 324.77 \$	\$ 186.42	\$ 212.82	\$ 180.56			
				Jul-2016	Aug-2016	Sep-2016	Oct-2016	Nov-2016	Dec-2016			Ave. /Month
			Mr. C's Electric Costs	\$ 175.96 \$	\$ 194.31	\$ 20.42					69	280.65
			Mr. C's Natural Gas Costs	\$21.17							69	28.97
			Totals	\$197.13	\$ 194.31	\$ 20.42 \$	- - - -	s - s	\$ -		\$	309.62
			Electric - Mr. C's		\$2,525.83	-	Notes:					
			Natural Gas - Mr. C's		\$ 202.82		100	Overbilled natural gas costs - no charges	gas costs - no c	charges		
	Grano	1 Total - NYSE&G/Natior	Grand Total - NYSE&G/National Fuel Gas Costs To Date	\$	2,728.65			Estimated Reading		\$ 333.44	in red -adjusted billing	illing
Phone												
Utility Provider	Phone #	E&E Cost Center	Location Description	Jan-2016	Feb-2016	Mar-2016	Apr-2016	May-2016	Jun-2016			
Verizon	716-652-0094	EN-003229-0001-03TTO	Mr. C's Telephone Costs	\$ 36.01 \$	\$ 36.16	\$ 36.16 \$	\$ 36.16	\$ 40.86				
Account #												
716 652 0094 416 26 2												
				Jul-2016	Aug-2016	Sep-2016	Oct-2016	Nov-2016	Dec-2016			Ave./Month
		EN-003229-0001-03TTO									<u>v</u>	37.07
		Veri	Verizon Costs to Date - Mr. C's		185.35							
		Grand Total A	Grand Total All Utilities To Date	÷	2,914.00							
									-			
	•											
المحمد المحمد المحمد بلغان المحمد المحمد المحمد المحمد المحمد المحمد المحمد									-			

Mr. C's Dry Cleaners Site - Remedial Treatment Utility Costs Mr. C's Dry Cleaners Site - Remedial Treatment Utility Costs AttrAction NYSDEC Work Assignment #11 I2 Months of System Operation and Maintenance Budget Remaining: Electr: \$22,774.17 12 Months of System Operation and Maintenance Attraction and Maintenance Seases \$22,774.17 Attraction and Maintenance August 2016 Report Attraction and Maintenance Seases Seases \$22,774.17 Attraction and Maintenance August 2016 Report Attraction and Maintenance Seases Seases \$22,774.17 Attraction and Maintenance August 2016 Report Attraction and Maintenance Seases Se										
Budget Remaining: Electric: \$22,774.17 Cabacity Talephone: \$354.65 2apacity Comments: 6as \$317.18 27% Very mild writer.very little snow. 170tal: \$24,046.00 9.7% System Studiown Total: \$24,046.00 0.0% System Studiown 1004 \$24,046.00 0.0% System Studiown 0.0% System Studiown 0.0% System Studiown 0.0% 0.0% System Studiown	Mr. C's Dry Clean	ers Site - Re	medial Treatmen	nt Utility Costs						ATTACHMENT B
Cabacity Comments: Telephone: 9.7% Very mild writer - v	NYSDEC Work A	ssignment #1					Budget Remaining:	Electric:		
Catuactive Comments: Comments: Catuactive	12 Months of Sys	tem Operatic	on and Maintena	nce				Telephone:	\$354.65	
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S 28.97 1 S 37.07 1 1 S 37.66 1 1	Aqway Electric									
\$ 37.07 \$ 37.66.69 times 12 Month Estimate	Mr. C's Gas									
\$ 346.69 times 12 Month Estimate	Mr. C's Telephone									
	Ave. Utility Cost Total			12 Month Estimate	\$4.507.00					

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October 11, 2016

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 # 915157 September 2016 Operations, Maintenance, and Monitoring Report

Dear Mr. Welling:

Ecology and Environment Engineering, P.C. (EEEPC) is pleased to provide the September 2016 Operations, Maintenance, and Monitoring (OM&M) Report for the Mr. C's Dry Cleaners Site, NYSDEC Site # 915157, located in the Village of East Aurora, New York. A summary of field activities prepared by EEEPC's subcontractor, Iyer Environmental Group, PLLC (IEG), is provided in <u>Attachment A</u>. The site utility information is provided in <u>Attachment B</u>.

Per your request, the Mr. C's treatment system has been shutdown since February 4, 2016. The revised RSO was submitted September 23, 2016. Per our conversations, restart of the treatment system is expected the second week of October 2016. IEG will review the pumping systems and the treatment operations before startup.

No influent/effluent samples were performed during this time as a result of the treatment system shutdown. Monthly water depth measurements are taken at the site's groundwater monitoring wells, piezometers, and pumping wells during this shutdown period by IEG. Groundwater sampling was performed by EEEPC from April 25-May 2, 2016 to evaluate the potential for rebound of the volatile organic compounds around the Mr. C's site. The 2016 Groundwater Report was issued on June 16, 2016.

In review of the on-site treatment system operations, monitoring and maintenance for September 2016, EEEPC offers the following comments and highlights:

Operational Summary

Mr. C's Site – Remedial Operations and Maintenance Information

- The September 2016 summary of field activities performed between 9/3/2016 and 9/27/2016 from IEG are provided as <u>Attachment A</u>.
- Drain SVE system at Country Cottage and inspect piezometers.

Mr. William Welling, Project Manager October 11, 2016 Page 2 of 3

Mr. C's Site - Remedial Operations and Maintenance Information (con't.)

• Performed repairs on PZ-1B, PZ-6A and PZ-6B.

Subslab Depressurization Systems (SSDS).

- Property owner at 27 Whaley Ave. (David Dubois) has not returned EEEPC's calls for inspection of the SSDS unit. EEEPC will continue to contact to obtain access for inspection.
- SSDS installation design at 31 Paine Street is currently in process.
- Discussion of new SSDS unit installation at 23 Paine Street is in progress. EEEPC needs to re-issue letter of determination of SSDS from NYSDOH to the new property owner. The new property owner of 23 Paine Street house as of November 2015 is David Dubois.

Status of Bioremediation Direct Push Injection Work.

- Additional review of the recommendations in the summary report to be evaluated with the Remedial Site Optimization (RSO) program.
- The Final RSO was issued to NYSDEC on September 23, 2016.

Soil Vapor Intrusion Investigation Program (2016)

• Discuss new property locations with NYSDEC / NYSDOH for SVII work in 2016.

Site Management Plan

- EEEPC submitted the updated/revised SMP to NYSDEC and NYSDEC Region 9 on March 2, 2015.
- This is an active site document, so future revisions will be performed once major changes to the management of the site are required after optimization evaluation is performed.

Annual Long-term Groundwater Monitoring Well Report

- Report of 2015 annual Groundwater results was issued to NYSDEC on December 21, 2015.
- The 2016 Groundwater sampling/analytical results report was submitted on June 16, 2016.
- Review with the NYSDEC PM if another groundwater sampling / analytical for fall 2016 was necessary. This was discussed and will not be necessary to perform at this time.

Periodic Review Report (PRR)

• 2016 PRP starting to be prepared.

Mr. William Welling, Project Manager October 11, 2016 Page 3 of 3

If you have questions regarding the September 2016 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 J. Steffon

Michael G. Steffan Project Manager

cc: D. Szymanski, Region 9, NYSDEC - Buffalo w/ attachments D. Iyer, IEG – w/attachments CTF - 10C3074.0011.07

Table 1 Mr. C's Dry Cleaners Site Remediation Site #915157 System Operation and Management

	Up-time	ime			VUC Removal	
	Reporting	Operational	Treated Effluent	Influent VOCs	Effluent	VOCs Removed
Month	Hours	Up-time	(gallon)	(µg/L)	VOCs(µg/L)	(lbs.)
(Up-time from 9/5/02 to 01/04/16)	111,949.50	95.23%	128,814,819	NA	NA	1,614.16
January 4, 2016 - February 1, 2016	672	100.00%	305,578	692.0	0.0	1.76
February 1, 2016 - February 29, 2016	0	0.00%	0	0.0	0.0	0.00
March 1, 2016 - March 31, 2016	0	0.00%	0	0.0	0.0	0.00
April 1, 2016 - April 30, 2016	0	%00'0	0	0.0	0.0	0.00
April 31, 2016 - June 1, 2016	0	%00.0	0	0.0	0.0	0.00
June 1, 2016 - June 27, 2016	0	0.00%	0	0.0	0.0	0.00
June 27, 2016 - July 31, 2016	0	%00.0	0	0.0	0.0	0.00
July 31, 2016 - September 3, 2016	0	0.00%	0	0.0	0.0	0.00
September 3, 2016 - September 27, 2016	0	0.00%	0	0.0	0.0	0.00
				-		
Tatal in 2016	672.00	1 00	305 578	607 00	UU U	1 76

1,615.93 1.76 0.00 NA 692.00 NA 129,120,397.00 305,578 1.00 0.95 112,621.50 672.00 Total in 2016 Total from startup

NOTES:

- 1. Up-time based as percentage of total reporting hours.
- 2. Treatment system operated by the Tyree Organization Ltd. from 9/02 9/03.
- 3. Treatment system operated by O&M Enterprises Inc. from 10/03 7/07.
- 4. Treatment system operated by Iver Environmental Group from 7/07 to present.
- 5.VOC removal calculations are based on monthly water samples and assumes samples are representative of the entire reporting period.
 - 6. VOC removal calculations assume that non-detect values = 0 ug/L.
 - 7. Total VOCs summations include estimated "J" values. 8. VOC removal calculations are based on effluent totalizer readings.
- 9."Influent VOCs" and "Effluent VOCs" values given above is the summation of values for individual compounds given in monthly analytical reports.
 - 10. Unit conversion: 1 pound = 453.5924 grams, 1 gallon = 3.785 liters
 - 11. Formula for the VOC removal calculation:
- $(VOCs_{hiltuent} VOCs_{Efluent})(ug/L) \cdot (1g/10^{6}ug) \cdot (1 lb/453.5924 g) \cdot (Monthly process water)(gal) \cdot (3.785 L/gallon)$
 - 12. Using the 2/2/16 analytical results.

Table 2Mr. C's Dry Cleaners Site RemediationSite #915157Effluent Discharge Criteria & Analytical Compliance Results

			September - Effluent Analytical Values -
Parameter/Analyte	Daily Maximum ¹ N/A	Units	Compliance No Sampling Performed
Flow (Average)		gpd	No Sampling Ferformed
pH 1,1 Dichloroethene	<u>6.0 - 9.0</u> 10	standard units	
1,1 Dichloroethane	10	μg/L μg/L	
cis-1,2-dichloroethene	10	μg/L μg/L	
Trichloroethene	10	μg/L	
Tetrachloroethene	10	μg/L	
Vinyl Chloride	10	μg/L	
Benzene	5	μg/L	
Ethylbenzene	5	μg/L	
Methylene Chloride	10	μg/L	
1,1,1 Trichloroethane	10	μg/L	
Toluene	5	μg/L	
Methyl-t-Butyl Ether (MTBE)	NA	ug/L	
o-Xylene ²	5	μg/L	
m, p-Xylene ²	10	μg/L	
Total Xylenes	NA	ug/L	
Iron, total	600	μg/L	No Sampling Performed
Aluminum	4,000	μg/L	
Copper	48	μg/L	
Lead	11	μg/L	
Manganese	2,000	μg/L	
Silver	100	μg/L	
Vanadium	28	μg/L	
Zinc	230	μg/L	
Total Dissolved Solids	850	mg/L	
Total Suspended Solids	20	mg/L	
Hardness	N/A	mg/L	
Cyanide, Free	10	μg/L	

NOTES:

1. "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: No treatment system operations in September 2016.
- 7. "J" indicates 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.
- 10. "NS" indicates that the parameter analysis was not sampled.

40 Indicates non-compliance with the NYSDEC effluent discharge requirements NR Indicates Not Reported by Lab

Table 3 Mr. C's Dry Cleaners Site Remediation NYSDEC Site #915157 September 2016 VOC Analytical Summary

	Based on	the September Effluent Ana	lytical Results
	Influent	Effluent	Cleanup
Compound	Concentration	1* Concentration**	Efficiency***
	(ug/L)	(ug/L)	(%)
Acetone	No Sampling P	erformed in September 2016	
Benzene			
2-Butanone			
cis-1, 2-Dichloroethene			
Chloroform			
Chloromethane			
Methylene chloride			
Methyl tert-butyl ether (MTBE)			
Methyl acetate			
Tetrachloroethene (PCE)			
Toluene			
Trichloroethene (TCE)			
Carbon Disulfide			
1,1,2 Trichloro-1,2,2-trifluororethane			
2-Hexanone			
4-Methyl-2-pentanone			
Cyclohexane			
trans-1,2-dichloroethene			
Chlorobenzene			
Methylcyclohexane			
Ethylbenzene			
Methyl acetate			
Vinyl Chloride			
Total Xylenes			
• The 1 st progress monitoring			
sampling of the groundwater wells			
associated with the "pilot"			
bioaugmentation program was			
performed on July 1-2, 2013.	0.0	0.00	

Notes:

1. "NA" = Not applicable

2. "U" = Compound analyzed, but was not detected. Detection limit in parentheses.

3. "DJ" or "J" indicates an estimated value below the practical quantitation limit but above the method detection limit.

4. Non-detect values are assumed to be equal to zero for calculation of monthly average concentrations.
5. "D" indicates the compound concentration was obtained form a secondary dilution analysis.

6. Acetone was not detected in the influent sample above the MDL but detected in the effluent sample. It is not a contaminant of concern for the Mr. C's site.

* Detection Limits (<10) and (<50)

** Detection Limits (<1) and (<5)

*** Contaminants of Concern only

<u>Attachment A</u> IEG Summary of Field Activities September 2016

Mr. C's CLEANERS OM&M

SUMMARY OF FIELD ACTIVITIES BY IEG - 9/2016

DATE	ACTIVITY
7-Sep	Inspect and drain SVE systems as needed. Inspect Peizometers.
8-Sep	End of month summaries. OM&M office work.
13-Sep	Inspect and drain SVE systems as needed. Inspect Peizometers. Swept spruce cones and needles off of Library Parking Lot.
14-Sep	Research maintenance project. Drop off materials.
15-Sep	Get supplies. Drop off materials. Repair PZ-1B.
16-Sep	Get supplies. Drop off tools and materials. Repair PZ-6A and PZ-6B.
19-Sep	Inspect and drain SVE systems as needed. Inspect Peizometers. Get supplies. OM&M office work. Instal braces on Effluent Pipe.
22-Sep	OM&M office work
27-Sep	Inspect and drain SVE systems as needed. Inspect Peizometers. OM&M office work.

Mr. C's CLEANERS OM&M STATUS OF FIELD ACTIVITIES BY IEG - 9/2016

ACTIVITY	DESCRIPTION	COMPLETION DATE/STATUS
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.	Sep-16
PZ-1B has damage	PZ-2B has surface concrete damage from severe winter conditions this year. Repair chipped concrete with epoxy material.	Sep-16
PZ-6A and PZ-6B have concrete damage	PZ-6A and PZ-6B have concrete damage from snowplowing. Repair damaged concrete with epoxy material.	Sep-16
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
Inspect and clean Manholes	Inspect manholes near operating pumps. Pump out water in manholes and clean out remaining sediment and other material.	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
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 and patch as needed (short term). Replace housings (long term).	in progress
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 Leaking Ball Valve	Influent ball valve east of EQ Tank drips. Inspect/clean & replace if necessary.	in progress
Redux usage rapidly increased	The rate of Redux usage increased rapidly during the past several months despite turning the Jesco Pump settings to their lowest levels. Clean pump and test. Adjust clamps on Redux line. Replace pump if necessary.	in progress
Reduce Influent Pump Rate	Lab Tests have shown high levels of VOCs. Try lengthening the time that the Influent Pump runs to increase the Air Sparging time inside the Air Stripper	in progress
Add Air Sparging System	Lab Tests have shown high levels of VOCs. Try adding an Air Sparging system to the sump box of the Air Stripper to increase the treatment of the effluent.	in progress
South Wall should be sealed	South Wall of Treatment Room has leaked into the neighboring unit several times when there have been water related problems. Trim wall insullation matting to reduce moisture retension. Seal base of wall with silicone caulking.	in progress
SVE Fan pipe collects water	The SVE Fan pipe on Building 586 collects water. There is a plug just below the fan to drain water out of the horizontal section of the pipe. Inspect system and make corrections to prevent the pipe from filling with water.	in progress
Repair PZ-4B	Inner ring of piezometer was severely damaged by Town's snowplow truck. Talked to Town - they will address problem in Spring. Inner ring must be replaced.	in progress
EE-4 Paved Over	During the Aug 2016 paving of the north half of the parking lot, Piezometer EE-4 was covered. Locate piezometer and remove asphalt to expose it.	in progress
Product in PZ-7D	During Winter 2016 Piezometer Readings product was found in PZ-7D. Remove product to prevent spread.	in progress
nstal Liquid Containment Trench	Southeast section of Treatment Room experienced several water leaks in the past. A shallow trench will be cut into floor slab to direct slow leaks into sump box.	in progress

Mr. C's CLEANERS OM&M SUMMARY OF WATER PUMP MAINTENANCE BY IEG - 2016

as of Sep 2016

0		r	T	r	T	r	1		I
as of Sep 2016	ELECTRICAL BOX REPAIR		Sep-09		Sep-09		Jul 09, Sep 09		Apr-13
	CLEAN OUT & INSPECT ELECTRICAL BOX		Nov-11	Nov 11, Sep 15	Sep 09, Nov 11	Jan-12	Aug 09, Sep 09, Sep 15		Apr 13, Aug 15
	REPLACE ANEROID BELLOWS				· ·		Aug 15		Aug 15
	PIEZOMETERS	PZ-1B repaired Sep 16			PZ-4B replaced Sep 16		PZ-6A, PZ-6C repaired Sep 16		
	PUMP OUT WELL		60-bnY	Aug-09	Jul 09, Sep 09		Aug-09	Aug 09, May 10, Aug 11	Aug 09, May 10, Aug 11
	REPLACE TRANSDUCE R		Sep 09, Dec 11	Aug 09, Nov 11, Oct 15	Dec 11, Mar 08, Sep 08	Jan 12, Sep 08	Sep 09, Sep 15		
	CLEAN & INSPECT TRANSDUCE R	May 10, Jan 12, Oct 15	Nov 11, May 10, Apr 13 Dec 15	Aug 09, Nov 11, Oct 15	May 10, Nov 11, Oct 15,	Mar 11, Oct 15	Aug 09, Jul 12, Dec 12, Apr 13, Aug 15	Oct 10, Aug 11, Jul 12, Dec 12, Aug 15	May 10, Aug 11, Jul 12, Dec 12, Apr 13, Aug 15
	CHECK VALVE						Aug 15	Aug 15	Aug 15
	HORIZONTAL PIPE		Sep-15	Sep-15			Jul 12, Nov 12, Sep 15	Jul 12, Nov 12	Pipe 8/09, Jul 12, Sep 15
	INNER RING				Aug 13				
	PITLESS ADAPTER			Repair adapter			Repiaced Aug 15	Replaced Aug 15	Replaced Aug 15
	REPAIR PUMP	May 10, Nov 08			Sep-13				
	REPLACED PUMP	Feb 08, Jan 12	Jul 08, Apr 13 Dec 15	Jul 08, Dec 11, Oct 15	Dec 07, Jan 12	Jul 08, Jan 12	Jun 08, Jul 09, Aug 12, Nov 12, Sep 15	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, Oct 15	Jun 08, Aug 09, May 10, Apr 13, Sep 15	Jun 08, Aug 09, May 10, Sep 15	Dec 07, May 08, Sep 09, May 10, Jan 12, Oct 15	Jan 12, May 08, Oct 15	Jun 08, Jul 09, Jul 12, Nov 12, Aug 15	Jun 08, Jul 09, May 10, Oct 10, Aug 11, Mar 12, Jul 12, Nov 12, Aug 15	Jun 08, Aug 09, May 10, Aug 11, Jul 12, Dec 12, Aug 15
	£	RW - 1	PW - 2	PW - 3	PW - 4	PW - 5	9 - Wd	7 - WQ	PW - 8

as of Sep 2016

SUMMARY OF WATER PUMP STATUS - 2016

Mr. C's CLEANERS OM&M

YES - bolts YES - bolts NEEDS U.E. Repair YES -Asphalt patch DONE g g 2 2 NEEDS U.E. CLEANED g g g 9 2 8 2 **9** g NEEDS ANEROID BELLOWS g g g g 8 g NEEDS NEW TRANSDUCER Q g g g NEEDS TRANSDUCER INSPECTION g g g g g g g g INSPECTION NEEDS CHECK VALVE NEEDS HORIZONTAL LINE PURGE g g g PITLESS ADAPTER NEEDS WELL CLEAN-OUT YES YES 0N N g g NEEDS P.A. OR PIPE PZ-1B NEEDS NEW INNER RING g g g g g g g NEEDS NEEDS CLEANING & NEW INSPECTION PUMP NEEDS g g g g g g g YES YES 8 2 g g 2 g PW-5 PW-8 PW-2 PW-3 PW-4 PW-6 PW-7 RW-1 ₽

<u>Attachment B</u> Summary of Site Utility Costs and Projections January to December 2016

NYSDEC Work Assignment #10C3074.0010.07 12 Months of System Operation and Maintenance September 2016 Report September 2016 Report September 2016 Report Gas. Telephone, and Electric Description New York State Ed. [101-0310-422 b001-031T0 Mr. C's Electric Costs New York State Ed. [75-311-11-016900-18 New York State Ed. [75-311-11-01690 New York State Ed. [75-310-140 New York State Ed. [75-311-140	Ition Ition Electric Costs S Natural Gas Costs S Electric Costs S Ition Totals Ition Ition Ition Totals Ition Ition Ition Ition	Jan-2016 Jan-2016 \$ 577.59 \$ 68.33 \$ 645.92 \$ 175.96 \$ 175.96 \$ 175.96 \$ 32.17	Feb-2016 762.15			Utility Budget:	jet:	Electric: Telephone:	\$25,300.00 \$540.00	
of System Operation and Maint 2016 Report and Electric E&E Cost Center Account # E&E Cost Center 76-311-11-015900-18 Phone # 76-311-11-015900-18 EN-003229-0001-0371 76-311-11-015900-18 EN-003229-0001-0371 76-311-11-015900-18 EN-003229-0001-0371 76-515 EN-003229-0001-0371 716-552-0094 EA-003229-0001-0371 2 Phone # E&E Cost Center 776-552-0094 EN-003229-0001-0371 2 EN-003229-0001-0371 716-552-0094 EN-003229-0001-0371	tion Electric Costs Natural Gas Costs Electric Costs Natural Gas Costs Natural Gas Costs Natural Gas Mr. C's I Gas Costs To Date I Gas Costs To Date Telephone Costs	Jan-2016 577.59 68.33 68.33 68.33 11-2016 175.96 175.96	32.15					Telephone:	\$540 00	
2016 Report e, and Electric b, and Electric E&E Cost Center Account # E&E Cost Center 76-311-11-015900-18 F9-315-01-0371 5819628-05 5819628-05 5819628-05 5819628-05 5819628-05 5819628-05 59 50 50 50 50 50 50 50 50 50 50 50 50 50		Jan-2016 577.59 68.33 68.33 68.33 101-2016 175.96 175.96 321.17	32.15						00.0404	
e, and Electric E&E Cost Center Account # EAE Cost Center 1001-0310-422 EN-003229-0001-0311 5819628-05 EN-003229-0001-0311 5819628-05 EN-003229-0001-0311 7716-652-0094 FAE Cost Center 2 EN-003229-0001-0311 2 EAE Cost Center		Jan-2016 577.59 68.33 68.33 68.33 141-2016 175.96 175.96 321.17	32.15					Gas	\$1,120.00	
Account # E&E Cost Center 1001-0310-422 EN-003229-0001-0311 76-311-11-015900-18 EN-003229-0001-0311 5819528-05 EN-003229-0001-0311 5819528-05 EN-003229-0001-0311 716-652-0094 EAE Cost Center 716-652-0094 EN-003229-0001-0311 2 EN-003229-0001-0311 2 EAE Cost Center 716-652-0094 EN-003229-0001-0311 6 EAE Cost Center 716-652-0094 EN-003229-0001-0311		Jan-2016 577.59 68.33 68.33 68.33 101-2016 175.96 321.17	32.15					Total:	\$26,960.00	
1001-0310-422 EN-003229-0001-0311 76-311-11-015900-18 EN-003229-0001-0311 5819628-05 EN-003229-0001-0311 5819628-05 EN-003229-0001-0311 710-652 Cand Total - NYSE&G/N 7116-652-0094 EN-003229-0001-0311 7116-652-0094 EN-003229-0001-0311 7116-652-0094 EN-003229-0001-0311 7116-652-0094 EN-003229-0001-0311		577.59 68.33 68.33 68.33 645.92 Jui-2016 175.96 7175.96		Mar-2016	Apr-2016	May-2016	Jun-2016			
76-311-11-015900-18 FN-003229-0001-0371 5819628-05 EN-003229-0001-0371 Grand Total - NYSE&G/N 716-652-0094 EN-003229-0001-0371 716-652-0094 EN-003229-0001-0371 6 Cost Center 716-652-0094 EN-003229-0001-0371 6 Cost Center 716-652-0094 EN-003229-0001-0371		68.33 645.92 Jul-2016 175.96 \$21.17		\$ 265.95	\$ 177.66	\$ 188.45	\$163.34			
5819628-05 EN-003229-0001-03T1 5819628-05 EN-003229-0001-03T1 Grand Total - NYSE&G/N 716-652-0094 716-652-0094 EN-003229-0001-03T1 716-652-0094 EN-003229-0001-03T1 716-652-0094 EN-003229-0001-03T1 716-652-0094 EN-003229-0001-03T1		68.33 645.92 Jul-2016 175.96 \$21.17								
Chanter Control Phone # E&E Cost Center 716-652-0094 EN-003229-0001-0371 716-652-0094 EN-003229-0001-0371 716-657-0094 EN-003229-0001-0371 716-7 EN-003229-0001-0371 716-7 EN-003229-0001-0371 716-7 EN-003229-0001-0371		645.92 Jul-2016 175.96 \$21.17	4.15	\$ 58.82 \$	\$ 8.76	\$ 24.37	\$17.22			
Grand Total - NYSE&G/N Grand Total - NYSE&G/N 716-652-0094 EN-003229-0001-0311		Jul-2016 175.96 \$21.17	766.30	\$ 324.77	\$ 186.42	\$ 212.82	\$ 180.56			
Grand Total - NYSE&G/N Grand Total - NYSE&G/N 716-652-0094 FN-003229-0001-03T1 716-652-0094 EN-003229-0001-03T1 Grand Tot		175.96 \$21.17	Aug-2016	Sep-2016	Oct-2016	Nov-2016	Dec-2016			Ave. /Month
Grand Total - NYSE&G/N Grand Total - NYSE&G/N 716-652-0094 716-652-0001-0371 716-552-0001-0371 6		\$21.17	94.31	N	\$ 198.23				~	
Grand Total - NYSE&G/N Grand Total - NYSE&G/N Phone # E&E Cost Center 716-652-0094 EN-003229-0001-0371 716-657 EN-003229-0001-0371 716-657 EN-003229-0001-0371		\$21.17								
Grand Total - NYSE&G/N Grand Total - NYSE&G/N Phone # E&E 716-652-0094 EN-003229-0001-0311 716-652-0094 EN-003229-0001-0311 6rand Tot Grand Tot	المسالم المسلمة المسلم الم								\$	28.97
Grand Total - NYSE&G/N Phone # E&E Cost Center 716-652-0094 EN-003229-0001-0311 716-61001-0311 EN-003229-0001-0311 716-61001-0311 EN-003229-0001-0311 716-61001-0311 EN-003229-0001-0311 716-61001-0311 EN-003229-0001-0311 716-6101 EN-003229-0001-0311 716-6101 EN-003229-0001-0311 716-6101 EN-003229-0001-0311 716-6101 EN-003229-0001-0311 716-6101 EN-003229-0001-0311 716-6101 EN-003229-0001-0311		\$197.13 \$	194.31	\$ 20.42	\$ 198.23	- \$	•		\$	301.38
Grand Total - NYSE&G/N Grand Total - NYSE&G/N Phone # E&E Cost Center 716-652-0094 EN-003229-0001-0371 716-100000000000000000000000000000000000			\$2,724.06	-	Notes:					
Grand Total - NYSE&G/N Phone # E&E Cost Center 716-652-0094 EN-003229-0001-0371 2 Find Tot 6 Grand Tot		\$	202.82		I	Overbilled natur	Overbilled natural gas costs - no charges	charges		
Phone # E&E Cost Center 716-652-0094 EN-003229-0001-0311 2 EN-003229-0001-0311 Cand Tot EN-003229-0001-0311		\$	2,926.88			Estimated Reading	ding	\$ 333.44	in red -adjusted billing	illing
Phone # E&E Cost Center 716-652-0094 EN-003229-0001-0311 2 EN-003229-0001-0311 2 EN-003229-0001-0311 3 EN-003229-0001-0311 6 EN-003229-0001-0311 7 EN-003229-0001-0311 6 EN-003229-0001-0311										
Z EN-003229-0001-0311 EN-003229-0001-0311 EN-003229-0001-0311		Jan-2016	Feb-2016	Mar-2016	Apr-2016	May-2016	Jun-2016			
2 EN-003229-0001-0371	/	\$ 36.01 \$	36.16	\$ 36.16	\$ 36.16	\$ 40.86	69			
2 EN-0001-0317 Grand Tot	<u> </u>					-			<u> </u>	
EN-003229-0001-0311										
Ver Crand Total /		Jul-2016	Aug-2016	Sep-2016	Oct-2016	Nov-2016	Dec-2016			Ave./Month
Ver Ver Grand Total /		\$ 37.21 \$	21.09					1	U	
Ver Grand Total /									<u></u>	
Ver Grand Total /			30,080							
Grand Total	Verizon Costs to Date - Mr. C's	A	280.06							
	Grand Total All Utilities To Date	\$	3,206.94							
	-					~				
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							-		
Mr. C's Dry Cleaners Site - Remedial Treatment Utility Costs	rs Site - Reı	medial Treatmer	nt Utility Costs						ATTACHMENT B
NYSDEC Work Assignment #11	ignment #1	~				Budget Remaining:	Electric:	\$22,575.94	
12 Months of System Operation and Maintenance	am Operatio	on and Maintena	nce				Telephone:	\$259.94	
September 2016 Report	sport						Gas	\$917.18	
	Optimum Operating Hours	Actual Operating Hours	11n-time Percentage	Canadity	Commondary.			400 <u>1</u> 10 00	
aniianv-16	672	679		0 707	Very mild winter very little conver-		1 0181.	an.cc/,cz¢	
February-16	0	0	0.00.001	0.0%	Very IIIIU WIIRE - Very IIIIE SIIUW.				
March-16	> 0		0.00%	0.0%	System Shirtdown				
April-16	0	0	0.00%	0.0%	System Shutdown				
May-16	0	0	0.00%	0.0%	System Shutdown				
June-16	0	0	0.00%	0.0%	System Shutdown				
July-16	0	0	0.00%	0.0%	System Shutdown				
August-16	0	0	0.00%	0.0%	System Shutdown				
September-16	0	0	0.00%	0.0%	System Shutdown				
October-16 November-16	0	0	0.00%	0.0%	System Shutdown				
December-16			10//IO#			•			
Totals to Date	672	672	100.00%						
Pretrem capacity is based on minuted operating groundwater hows from the eight installed pumps from 9/02. Evaluated on total gallons discharged for monthly operating time. Maximum pump discharges calculated as an average of 78 gpm as the total for all 8 pumps at the site if all pumps operate 100%. With the exception of groundwater pump RW-1, all others run on a batch basis.	il operating groundwa ed as an average of 7.	er nows from the eight installs 8 gpm as the total for all 8 pun	or pumps from 9/02. Evaluated	on total gallons disc ate 100%. With the (total gallons discharged for monthly operating time. 100%. With the exception of groundwater pump RW-	-1, all others run on a batch basis.			
Monthly Average Costs	its								
Mr. C's Electric \$	5 272.41								
Agway Electric \$									
Mr. C's Telephone \$									
Ave. Utility Cost Total \$	336.39	times	12 Month Estimate	\$4,373.04					

ecology and environment engineering, p.c.

International Specialists in the Environment

BUFFALO CORPORATE CENTER 368 Pleasant View Drive Lancaster, New York 14086 Tel: (716) 684-8060, Fax: (716) 684-0844

November 10, 2016

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 # 915157 October 2016 Operations, Maintenance, and Monitoring Report

Dear Mr. Welling:

Ecology and Environment Engineering, P.C. (EEEPC) is pleased to provide the October 2016 Operations, Maintenance, and Monitoring (OM&M) Report for the Mr. C's Dry Cleaners Site, NYSDEC Site # 915157, located in the Village of East Aurora, New York. A summary of field activities prepared by EEEPC's subcontractor, Iyer Environmental Group, PLLC (IEG), is provided in <u>Attachment A</u>. The treatment system was re-actived as a result of the recommendations of the remedial Site Optimization plan. Selected pages from the individual analytical data package prepared by Spectrum Analytical Inc. (SAI), Warwick, Rhode Island are provided as <u>Attachment B</u>. The site utility information is provided in <u>Attachment C</u>.

Per your request, the Mr. C's treatment system has been shutdown since February 4, 2016. The revised RSO was submitted September 23, 2016. Per our conversations, restart of the treatment system was restarted October 6, 2016. IEG performed review the pumping systems and the treatment operations before startup. As a result of the final RSO document, a proposed pulsing plan was submitted to NYSDEC on October 31, 2016. The written plan was developed to optimize the system through a schedule phased and pulsed operations to confirm that asymptotic groundwater conditions have been met to support treatment system shutdown.

Influent/effluent samples were taken on October 26, 2016. Monthly water depth measurements are taken at the site's groundwater monitoring wells, piezometers, and pumping wells during October by IEG (Attachment A).

Groundwater sampling was performed by EEEPC from April 25-May 2, 2016 to evaluate the potential for rebound of the volatile organic compounds around the Mr. C's site. The 2016 Groundwater Report was issued on June 16, 2016.

Mr. William Welling, Project Manager November 10, 2016 Page 2 of 3

In review of the on-site treatment system operations, monitoring and maintenance for September 2016, EEEPC offers the following comments and highlights:

Operational Summary

- The monthly checklists for system inspections from IEG are provided as Attachment A for 10/6/16, 10/17/16, and 10/31/16.
- Based on inspection reports prepared by IEG, the remedial treatment system for the period above had a 100% operational up-time (Table 1) and the treatment of contaminated groundwater during that period totaling of 259,917 gallons (Table 1) for October 2016.
- The compliance samples were taken on October 26, 2016 (Attachment B) and the preliminary analytical results were received from SAI on November 2, 2016. The results indicated effluent discharges are in compliance with the SPDES Equivalency permit requirements. The results are provided in the Table 2.
- The analytical summary results of the October 2016 samples revealed the total volatile organic contaminant concentrations of the influent to be 498 μ g/L or 498 ppb. In review of the effluent concentrations the results were 12.2 μ g/L or 12.2 ppb. The summary of influent and effluent contaminant concentrations for the October 2016 sampling is presented in Table 1.
 - The Mr. C's treatment system based on the total monthly flows removed 1.05 lbs. of targeted contaminants from the groundwater below the site in the month of October 2016 and the cleanup effectiveness was 97.5%. The calculations and data for the month are presented in Table 3.

Mr. C's Site – Remedial Operations and Maintenance Information

- The October 2016 summary of field activities performed between 10/6/2016 and 10/31/2016 from IEG are provided as <u>Attachment A</u>.
- Performed repairs on concrete pads around some of the pumping wells.
- Performed maintenance on slow leaking after restart on the bag filter unit and the air stripper trays.
- Cleaned and inspected the pumping wells pumps in anticipation of system startup.
- Drained condensate from two of the active SVE systems.

Subslab Depressurization Systems (SSDS).

- Property owner at 27 Whaley Ave. (David Dubois) has not returned EEEPC's calls for inspection of the SSDS unit. EEEPC will continue to contact to obtain access for inspection.
- SSDS installation design at 31 Paine Street is currently in process.
- Discussion of new SSDS unit installation at 23 Paine Street is in progress. EEEPC needs to re-issue letter of determination of SSDS from NYSDOH to the new property owner. The new property owner of 23 Paine Street house as of November 2015 is David Dubois.

Mr. William Welling, Project Manager November 10, 2016 Page 3 of 3

Status of Bioremediation Direct Push Injection Work.

- Additional review of the recommendations in the summary report to be evaluated with the Remedial Site Optimization (RSO) program.
- The Final RSO was issued to NYSDEC on September 23, 2016.

Soil Vapor Intrusion Investigation Program (2016)

• Discuss new property locations with NYSDEC / NYSDOH for SVII work in 2016.

Site Management Plan

- EEEPC submitted the updated/revised SMP to NYSDEC and NYSDEC Region 9 on March 2, 2015.
- This is an active site document, so future revisions will be performed once major changes to the management of the site are required after optimization evaluation is performed.

Annual Long-term Groundwater Monitoring Well Report

- Report of 2015 annual Groundwater results was issued to NYSDEC on December 21, 2015.
- The 2016 Groundwater sampling/analytical results report was submitted on June 16, 2016.
- Review with the NYSDEC PM if another groundwater sampling / analytical for fall 2016 was necessary. This was discussed and will not be necessary to perform at this time.

Periodic Review Report (PRR)

• 2016 PRP starting to be prepared for submittal in January 2017.

If you have questions regarding the October 2016 OM&M report summary, please do not hesitate to contact me at 716-684-8060.

Very Truly Yours, Ecology and Environment Engineering, P. C.

P. Steffan

Michael G. Steffan Project Manager

cc: D. Szymanski, Region 9, NYSDEC - Buffalo w/ attachments
 D. Iyer, IEG – w/attachments
 CTF - 10C3074.0011.07

Table 1Mr. C's Dry Cleaners Site RemediationSite #915157System Operation and Management

	Up-time	time			VOC Removal	
	Reporting	Operational	Treated Effluent	Influent VOCs	Effluent	VOCs Removed
Month	Hours	Up-time	(gallon)	(µg/L)	VOCs(µg/L)	(lbs.)
(Up-time from 9/5/02 to 01/04/16)	111,949.50	95.23%	128,814,819	NA	NA	1,614.16
January 4, 2016 - February 1, 2016	672	100.00%	305,578	692.0	0.0	1.76
February 1, 2016 - February 29, 2016	0	0.00%	0	0.0	0.0	0.00
March 1, 2016 - March 31, 2016	0	0.00%	. 0	0.0	0.0	0.00
April 1, 2016 - April 30, 2016	0	0.00%	0	0.0	0.0	0.00
April 31, 2016 - June 1, 2016	0	0.00%	0	0.0	0.0	0.00
June 1, 2016 - June 27, 2016	0	0.00%	0	0.0	0.0	0.00
June 27, 2016 - July 31, 2016	0	0.00%	0	0.0	0.0	0.00
July 31, 2016 - September 3, 2016	0	0.00%	0	0.0	0.0	0.00
September 3, 2016 - September 27, 2016	0	0.00%	0	0.0	0.0	0.00
October 6, 2016 - October 31, 2016	600	100.00%	259,917	498.0	12.2	1.05
Total in 2016	1,272.00	1.00	565,495	1,190.00	12.20	2.81

NOTES:

1.616.98

NA

Ň

129,380,314.00

0.95

113,221.50

Total from startup

1. Up-time based as percentage of total reporting hours.

2. Treatment system operated by the Tyree Organization Ltd. from 9/02 - 9/03.

3. Treatment system operated by O&M Enterprises Inc. from 10/03 - 7/07.

4. Treatment system operated by Iyer Environmental Group from 7/07 to present.

5.VOC removal calculations are based on monthly water samples and assumes samples are representative of the entire reporting period.

6. VOC removal calculations assume that non-detect values = 0 ug/L.

7.Total VOCs summations include estimated "J" values. 8.VOC removal calculations are based on effluent totalizer readings.

9."Influent VOCs" and "Effluent VOCs" values given above is the summation of values for individual compounds given in monthly analytical reports.

10. Unit conversion: 1 pound = 453.5924 grams, 1 gallon = 3.785 liters

11. Formula for the VOC removal calculation:

 $(VOCs_{hiftnent} - VOCs_{Effluent})(ug/L) \cdot (1g/10^{6} ug) \cdot (1 lb/453.5924 g) \cdot (Monthly process water)(gal) \cdot (3.785 L/gallon)$ 12. Using the 2/2/16 analytical results.

Table 2 Mr. C's Dry Cleaners Site Remediation Site #915157 Effluent Discharge Criteria & Analytical Compliance Results

			October - Effluent Analytical Values -
Parameter/Analyte	Daily Maximum ¹	Units	Compliance
Flow (Average)	N/A	gpd	10,397
pH	6.0 - 9.0	standard units	7.50
1,1 Dichloroethene	10	μg/L	ND
1,1 Dichloroethane	10	μg/L	ND
cis-1,2-dichloroethene	10	μg/L	4.00
Trichloroethene	10	μg/L	ND
Tetrachloroethene	10	μg/L	5.00
Vinyl Chloride	10	μg/L	ND
Benzene	5	μg/L	ND
Ethylbenzene	- 5	μg/L	ND
Methylene Chloride	10	μg/L	ND
1,1,1 Trichloroethane	10	μg/L	ND
Toluene	5	μg/L	ND
Methyl-t-Butyl Ether (MTBE)	NA	ug/L	ND
o-Xylene ²	5	μg/L	ND
m, p-Xylene ²	. 10	μg/L	ND
Total Xylenes	NA	ug/L	ND
Iron, total ⁹	600	μg/L	
Aluminum ⁹	4,000	μg/L	
Copper ⁹	48	μg/L	
Lead ⁹	11	μg/L	
Manganese ⁹	2,000	μg/L	
Silver ⁹	100	μg/L	
Vanadium ⁹	28	μg/L	
Zinc ⁹	230	μg/L	
Total Dissolved Solids ⁹	850	mg/L	
Total Suspended Solids ⁹	20	mg/L	
Hardness	N/A	mg/L	330
Cyanide, Free ⁹	10	μg/L	

NOTES:

1. "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: October 6 October 31, 2016 10,397 gallons per day.
- 7. "J" indicates 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.
- 10. "NS" indicates that the parameter analysis was not sampled.

40 Indicates non-compliance with the NYSDEC effluent discharge requirements NR Indicates Not Reported by Lab

Table 3 Mr. C's Dry Cleaners Site Remediation NYSDEC Site #915157 **October 2016 VOC Analytical Summary**

	Ba	sed on the	October Efflu	ent Analyt	ical Results
	Influ	ent	Efflue	ent	Cleanup
Compound	Concent	ration*	Concentra	ation**	Efficiency***
-	(ug/	L)	(ug/]	L)	(%)
Acetone	ND (<20)	U	3.2	J	NA
Benzene	ND (<4.0)	U	ND (<1.0)	U	NA
2-Butanone	10	J	ND (<5.0)	U	NA
cis-1, 2-Dichloroethene	160		4.0		97.50%
Chloroform	ND (<4.0)	U	ND (<1.0)	U	NA
Chloromethane	ND (<4.0)	U	ND (<1.0)	U	NA
Methylene chloride	ND (<4.0)	U	ND (<1.0)	U	NA
Methyl tert-butyl ether (MTBE)	ND (<4.0)	U	ND (<1.0)	U	NA
Methyl acetate	ND (<4.0)	U	ND (<1.0)	U	NA
Tetrachloroethene (PCE)	280		5.0	U	98.20%
Toluene	ND (<4.0)	U	ND (<1.0)	U	NA
Trichloroethene (TCE)	23.0		ND (<1.0)	U	100.00%
Carbon Disulfide	ND (<4.0)	U	ND (<1.0)	U	NA
1,1,2 Trichloro-1,2,2-trifluororethane	ND (<4.0)	· U	ND (<1.0)	U	NA
2-Hexanone	ND (<20)	U	ND (<5.0)	U	NA
4-Methyl-2-pentanone	ND (<20)	U	ND (<5.0)	U	NA
Cyclohexane	ND (<4.0)	U	ND (<1.0)	U	NA
trans-1,2-dichloroethene	ND (<4.0)	U	ND (<1.0)	U	NA
Chlorobenzene	ND (<4.0)	U	ND (<1.0)	U	NA
Methylcyclohexane	ND (<4.0)	U	ND (<1.0)	U	NA
Ethylbenzene	ND (<4.0)	U	ND (<1.0)	U	NA
Methyl acetate	ND (<4.0)	U	ND (<1.0)	U	NA
Vinyl Chloride	25		ND (<1.0)	U	100.00%
Total Xylenes	ND (<4.0)	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.	498.0		12.20		97.50%

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.

5. "D" indicates the compound concentration was obtained form a secondary dilution analysis.

6. Acetone was not detected in the influent sample above the MDL but detected in the effluent sample. It is not a contaminant of concern for the Mr. C's site.

* Detection Limits (<10) and (<50)

** Detection Limits (<1) and (<5)

*** Contaminants of Concern only

<u>Attachment A</u> IEG Summary of Field Activities October 2016

10/6/16

10/17/16

10/31/16

MR. C's DRY CLEANERS SITE NYSDEC Site #9-15-157 OM&M: SITE INSPECTION FORM

DATE:	6-Oct-16	ACT	IVITIES: Site	Inspection		-		
INSPEC	TION PERSONNEL:	R. Allen, D. lyer	отн	ER PERSONNE	L:			
WEATHE	R CONDITIONS: Partly	cloudy, warm				OUTSIDE TEMPER	ATURE (° F):	73
	LL PUMPS OPERATING IN PW-4 does not turn ON.	I AUTO: YES:		NO:	If "I	NO", provide expla	anation below	
-		PROVIDE WA	TER LEVEL RE	ADINGS ON CO	ONTROL PANEL			
RW-1	ON: <u>√</u> OF	F:	ft I	PW-5 O	n:√	OFF:		ft
PW-2	ON: OF	F:	ft I	PW-6 O	N:√	OFF:		ft
PW-3	ON:∕OF	F:	ft I	PW-7 O	N:	OFF:		ft
PW-4	ON: OF	F:	ft I	PW-8 O	N:	OFF:		ft
	EQUALIZATI NOTES:	ON TANK:	ft	Last Alarm D	D/T/Condition: <u>CC</u>	DE; 03, 12		
INFLU	ENT FLOW RATE:	0	gpm INFL		ER READING	11,955,8	25	
SEG	QUESTERING AGENT DRU	M LEVEL: 33	inches	(x 1.7=) A	MOUNT OF AGE	ENT REMAINING:	55	gallons
si	EQUESTERING AGENT FE	ED RATE:	ml/min			IMP PRESSURE:		psi
	BAG FILTER PRESSURES	S: LEFT:	• •	tom)psi	RIGHT:	Тор 5	Bottom 0	psi
INFLU	ENT FEED PUMP IN USE:	#1 <u></u>	#2	INFLUE	ENT PUMP PRES	SURE:	<u> </u>	
AIR S	TRIPPER BLOWER IN USI	⊑: #1 <u>√</u>	#2	AIR S	STRIPPER PRES	SURE:1	0.0	in. H₂O
AIR STR	IPPER DIFFERENTIAL PRE	ESSURE:	in. H	2 0 DI S	SCHARGE PRES	SURE:3	3.20	in. H₂O
AIR FLO	W: 1700 fpm	X 1.4 =	2380 CFM	105° 	'F 			
EFFLUE	NT PUMP IN USE:	#1 #2_	\checkmark	EFFLUENT FE	ED PUMP PRES	SURE:	9	psi
EFFLUE	ENT FLOW RATE:	gpm EF	FLUENT TOTA	LIZER READING	9: 80,8	32,291	444740	gallons
ARE BU	ILDING HEATERS IN USE?	YES:	NO:	<u>√</u>		INSIDE TEMPER	ATURE (° F):	
IS SUI	MP PUMP IN USE: YE	s: <u>√</u> no:_	A	RE ANY LEAKS	PRESENT?	YES:√	NO:	
WATER	LEVEL IN SUMP: 5.0	in	TMENT BUILDI	NG CLEAN & OI	RGANIZED?	YES:	NO:	

.

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

								6-Oct-16
SAMPLES COLLECTED? YES:	NO:	√ Time of Samplin	3	рH	Turbidity	Temp.	Sp. Cond.	
			2		·,			
AIR STRIPPER INFLUENT:	admans for hills about our base for alls is a first and							
AIR STRIPPER EFFLUENT:								
IS THERE EVIDENCE OF TAMP	PERING/VANDALI	SM OF WELLS: ?	YES:		NO:			
	WERE MANHOL	ES INSPECTED?	YES:					
WERE E	ELECTRICAL BOX	'ES INSPECTED?	YES:	\checkmark	NO:			
IS WATER PRESENT IN ANY MAN	HOLES OR ELEC	TRICAL BOXES?	YES:		NO:			
lf yes, provide r	manhole/electric bo	ox ID and description o	f any correctiv	ve meas	ures below:			
PZ-4B was replaced by the Town of Aurora.								
	3	UBSLAB SYS						
MANOMETER:1.5 in.	wc	west	east No	OTES:	cfm = 0.05 :	c fpm (3" P	VC)	
(Fan Iniet)	FLOW	/ (fpm):						·
		/ (cfm):						
	CUUM GAUGE (in	WC)						
INCLUDE REMARKS		YOIHERSYSIEMM	AINTENANC	E PERF	ORMED ON	MR. US S	IIE	
Remarks: Started System on Oct	6							
Left Bag Filter - slow lea	ak through bottom	n of housing. Air Stri	oper - (5) slo	w leak	s			
Other Actions: Mixed (3) drums of 1:3 I	Redux / Water.							

	AGWAY
Remarks:	Site is empty of materials and has been graded and graveled.
<u></u>	
Other Action	IS:

MR. C's DRY CLEANERS SITE NYSDEC Site #9-15-157 OM&M: SITE INSPECTION FORM

DATE: 17-Oct-16	ACTIVITIES:	Site Inspection		
INSPECTION PERSONNEL: R	. Allen	OTHER PERSONNEL:		
WEATHER CONDITIONS: Cloudy, da	rizzle, warm		OUTSIDE TEMPERATURE (° F)	70
ARE WELL PUMPS OPERATING IN AUT PW-7 is OFF due to injection o		NO:	If "NO", provide explanation below	,
PW-4 is OFF due to maintenan	ce problem			
	PROVIDE WATER LEVE	EL READINGS ON CONTROL PAN	EL	
RW-1 ON: OFF:	3ft	PW-5 ON:	OFF: <u>√</u> 5	_ft
PW-2 ON: OFF:	3ft	PW-6 ON:	OFF: <u>√</u> 5	_ft
PW-3 ON: OFF:	5ft	PW-7 ON:	off: <u>√</u> 12	_ft
PW-4 ON: OFF:	-28 _ft	PW-8 ON:	OFF: <u>√</u> 4	_ft
EQUALIZATION T	CANK: 4 ft	Last Alarm D/T/Condition:	10/17/16 PW-2 Overload	
INFLUENT FLOW RATE:	<u>5</u> gpm	INFLUENT TOTALIZER READING	12,027,695	_gallons
SEQUESTERING AGENT DRUM LE	EVEL: 26 inches	(x 1.7=) AMOUNT OF	AGENT REMAINING:44	gallons
SEQUESTERING AGENT FEED R	RATE:ml/min	METERING	OPUMP PRESSURE: 4.0	_psi
BAG FILTER PRESSURES:	Тор LEFT:0	Bottom 0 psi RIGHT:	Top Bottom 6 - 8 0	_psi
INFLUENT FEED PUMP IN USE:	#1 <u> </u>	INFLUENT PUMP PF	RESSURE:7	_psi
AIR STRIPPER BLOWER IN USE:	#1 <u>√</u> #2	AIR STRIPPER PF	RESSURE:23.0	_in. H₂O
AIR STRIPPER DIFFERENTIAL PRESSU	IRE: broken	in. H ₂ O DISCHARGE PR	RESSURE: 1.90	_in. H₂O
AIR FLOW : 1350 fpm X *	1.4 = 1890	CFM		
EFFLUENT PUMP IN USE: #1	#2_√	EFFLUENT FEED PUMP PR	RESSURE:9	_psi
EFFLUENT FLOW RATE:gr	om EFFLUENT 1	TOTALIZER READING: 80),889,185 502490	gallons
ARE BUILDING HEATERS IN USE?	YES: NO:		INSIDE TEMPERATURE (° F):	78
IS SUMP PUMP IN USE: YES:	_√NO:	ARE ANY LEAKS PRESENT?	YES: NO	
WATER LEVEL IN SUMP: 6.0 in	. TREATMENT BU	UILDING CLEAN & ORGANIZED?	YES: NO	

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

									17-Oct-16
SAMPLES COLLECTED?	YES	6: NO: Sample ID	 Time of Sar	npling	рН	Turbidity	Temp.	Sp. Cond.	
AIR STRIPPER IN	VFLUENT								
AIR STRIPPER EF	FFLUENT	:							
IS THERE EVIDE			ISM OF WELLS:	? YES	 s:		√	,	
	10		LES INSPECTED						
	WE	RE ELECTRICAL BO			s: √	– . NO:			
IS WATER PRESEN	T IN ANY	MANHOLES OR ELEC	CTRICAL BOXES	\$? YES	s:√	NO:		х	
	lf yes, pro	vide manhole/electric b	ox ID and descrip	ition of any cor	rective mea	- sures below:	-		
PZ-4D inner ring is corroded	and collar	psing.				÷			
,									
		· {	SUBSLAB S	SYSTEM					
MANOMETER:	1.5	in. WC	west	east	NOTES:	cfm = 0.05	x fpm (3" F	vVC)	
(Fan Inlet)			N (fpm):						
		FLOV VACUUM GAUGE (i	W (cfm): n WC) 1.34	1.37	<u>.</u>				
INCLU	DE REMA	RKS & DESCRIBE AN	IY OTHER SYST	EM MAINTEN	ANCE PERI	FORMED ON	IMR. C's S	SITE	
Remarks:									
Two Air S	stripper flo	oat fittings have slow	drip leaks.						
Other Actions: Adjust Jes	sco Pumj	o to: Left 3.0; Right 3.	0.						
Drained (2) SVE S	ystems as needed: lit	tle condensate						
Emptied	some de	ecanted Air Stripper	sump box draii	ned water int	to floor sur	np box.			
						· .			

	AGWAY	
Remarks:	Site is empty of materials and has been graded and graveled.	
Other Action	s:	

MR. C's DRY CLEANERS SITE NYSDEC Site #9-15-157 OM&M: SITE INSPECTION FORM

DATE:	31-Oct-16	ACTIVITIES:	Site Inspection		
INSPEC	TION PERSONNEL:	R. Allen	OTHER PERSONNEL:		
WEATH	ER CONDITIONS: Partly cl	oudy, cool		OUTSIDE TEMPER	RATURE (° F):35
	ELL PUMPS OPERATING IN A		NO:	lf "NO", provide expla	anation below
	PW-7 is OFF due to injection	operation			
		PROVIDE WATER LEV	/EL READINGS ON CONTRO	L PANEL	
RW-1	ON: OFF:	7ft	PW-5 ON:	OFF:√	ft
PW-2	ON: OFF:	3_ft	PW-6 ON:	OFF:√	ft
PW-3	ON: OFF:	5_ft	PW-7 ON:	<u>√</u> OFF:	13ft
PW-4	ON: OFF:	4 ft	PW-8 ON:	OFF:√	6 ft
	EQUALIZATION	<i>TANK:</i> <u>3</u> ft	Last Alarm D/T/Con	dition: 10/31/16 PW-2 Overlo	pad
INFLU	ENT FLOW RATE:	0 gpm	INFLUENT TOTALIZER REA	ADING 12,236,4	179 gallons
SEG	QUESTERING AGENT DRUM	LEVEL: 8 inches	(x 1.7=) AMOUN	IT OF AGENT REMAINING:	13.5 gallons
SI	EQUESTERING AGENT FEED	RATE:ml/min	MET	ERING PUMP PRESSURE:	4.0 psi
ang Kanada dapatén dikana jelantu d		•	Bottom	Top	Bottom
	BAG FILTER PRESSURES:	LEFT: <u>10 - 0</u>	U psi RiG	ынт: <u>19 - 7</u>	psi
INFLU	IENT FEED PUMP IN USE:	#1 <u>√</u> #/	2 INFLUENT PU	IMP PRESSURE:	psi
AIR S	STRIPPER BLOWER IN USE:	#1 <u>√</u> #2	2 AIR STRIPF	PER PRESSURE:	2 6.0 in. H ₂ O
AIR STR	IPPER DIFFERENTIAL PRESS	SURE: broken	_in.H ₂ O DISCHAR	GE PRESSURE:	1.80 in. H ₂ O
AIR FLO	W: <u>1350</u> fpm X	1.4 =	<u>)</u> cfm		
EFFLUE	NT PUMP IN USE: #1	 #2√_	EFFLUENT FEED PU	IMP PRESSURE:	9psi
EFFLUI	ENT FLOW RATE: 138	gpm <i>EFFLUENT</i>	TOTALIZER READING:	81,056,073	672320 gallons
ARE BU	ILDING HEATERS IN USE?	YES:√NO	·	INSIDE TEMPER	RATURE (° F): 67
ıs sui	MP PUMP IN USE: YES:	√NO:	ARE ANY LEAKS PRES	ENT? YES:√	NO:
WATER	LEVEL IN SUMP: 5.5	in. TREATMENT I	BUILDING CLEAN & ORGANI	ZED? YES:	NO:

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

			3	1-Oct-16
SAMPLES COLLECTED? YES: NO: Sample ID Time of Sampling	3	рН	Turbidity Temp. Sp. Cond.	
AIR STRIPPER INFLUENT:				
AIR STRIPPER EFFLUENT:				-
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:			-
If yes, provide manhole/electric box ID and description o	f any corre	ctive meas	sures below:	
PZ-4D inner ring is corroded and collapsing.				
SUBSLAB SYS	ГЕМ			
MANOMETER: 14 in WC west	east	NOTES	cfm = 0.05 x fnm (3" PVC)	
MANOMETER: <u>1.4</u> in. WC west (Fan Inlet) FLOW (fpm):	east	NOTES:	cfm = 0.05 x fpm (3" PVC)	
	east	NOTES:	cfm = 0.05 x fpm (3" PVC)	· · · ·
(Fan Inlet) FLOW (fpm):	east	NOTES:	cfm = 0.05 x fpm (3" PVC)	
(Fan Inlet) FLOW (fpm): FLOW (cfm): VACUUM GAUGE (in WC)				
(Fan Inlet) FLOW (fpm): FLOW (cfm): VACUUM GAUGE (in WC)				
(Fan Inlet) FLOW (fpm): FLOW (cfm): VACUUM GAUGE (in WC) INCLUDE REMARKS & DESCRIBE ANY OTHER SYSTEM M Remarks: Two Air Stripper float fittings have slow drip leaks.				
(Fan Inlet) FLOW (fpm): FLOW (cfm): VACUUM GAUGE (in WC) INCLUDE REMARKS & DESCRIBE ANY OTHER SYSTEM M Remarks: Two Air Stripper float fittings have slow drip leaks. Effluent Pipe has (2) slow drip leaks near EQ Tank.				
(Fan Inlet) FLOW (fpm): FLOW (cfm): VACUUM GAUGE (in WC) INCLUDE REMARKS & DESCRIBE ANY OTHER SYSTEM M Remarks: Two Air Stripper float fittings have slow drip leaks.				
(Fan Inlet) FLOW (fpm): FLOW (cfm): VACUUM GAUGE (in WC) INCLUDE REMARKS & DESCRIBE ANY OTHER SYSTEM M Remarks: Two Air Stripper float fittings have slow drip leaks. Effluent Pipe has (2) slow drip leaks near EQ Tank.				
(Fan Inlet) FLOW (fpm): FLOW (cfm): FLOW (cfm): VACUUM GAUGE (in WC) Include REMARKS & DESCRIBE ANY OTHER SYSTEM M Remarks: Two Air Stripper float fittings have slow drip leaks. Effluent Pipe has (2) slow drip leaks near EQ Tank. Other Actions: Drained (2) SVE Systems as needed: little condensate				
(Fan Inlet) FLOW (fpm): FLOW (cfm): FLOW (cfm): VACUUM GAUGE (in WC) Include REMARKS & DESCRIBE ANY OTHER SYSTEM M Remarks: Two Air Stripper float fittings have slow drip leaks. Effluent Pipe has (2) slow drip leaks near EQ Tank. Other Actions: Drained (2) SVE Systems as needed: little condensate				

	AGWAY	······································
Remarks:	Site is empty of materials and has been graded and graveled.	
Other Action	ns:	

MR. C'S DRY CLEANERS SITE NYSDEC Site #9-15-157 OM&M: PIEZOMETER WATER LEVEL LOG

Date:

Oct 18-19, 2016

Measurements taken by:

R. Allen

RW-1	19.10 ft		PW-5	15.50 ft
PZ-1A	12.33 ft		PZ-5A	11.63 ft
PZ-1B	12.08 ft		PZ-5B	11.68 ft
PZ-1C	13.21 ft		PZ-5C	11.29 ft
PZ-1D	13.37 ft		PZ-5D	12.05 ft
PW-2	14.80 ft		PW-6	18.10 ft
PZ-2A	11.87 ft		PZ-6A	12.56 ft
Z-2B	12.21 ft		PZ-6B	12.42 ft
PZ-2C	11.68 ft		PZ-6C	12.70 ft
۸M-2	ft	Auto parked over	PZ-6D	12.42 ft
PW-3	15.80 ft		PW-7	12.00 ft
Z-3A	12.36 ft	· · · · · · · · · · · · · · · · · · ·	MPI-6S	12.46 ft
Z-3B	12.49 ft		PZ-7B	12.25 ft
Z-3C	12.88 ft		OW-B	11.88 ft
2-3D	12.37 ft		PZ-7D	ft
νW-4	11.60 ft		PW-8	20.20 ft
PZ-4A	12.68 ft	2014 W	PZ-8A	9.20 ft
PZ-4B	11.67 ft	a na na sana na kara ka kara na ana Mereka kara sa sa kara ka kara ka kara ka	PZ-8B	9.13 ft
PZ-4C	ft	Sealed Over	PZ-8C	8.79 ft
PZ-4D	11.35 ft		PZ-8D	8.95 ft

OTHER WELLS											
EE-1	Sealed over	ft	MPI-1S	11.32	ft	MPI-7IR	12.07	ft	ESI-3	12.08	ft
EE-2	12.95	ft	MPI-2SR	12.14	ft	MPI-8SR	10.80	ft	ESI-6	11.13	ft
EE-3	11.60	ft	MPI-3S	11.08	ft	MPI-9SR	10.31	ft	ESI-2R	14.10	ft
EE-4	Sealed over	ft	MPI-4S	8.83	ft	MPI-13BR	10.22	ft	ESI-5R	8.97	ft
MW-8	12.17	ft	MPI-4I	12.13	ft	MPI-14BR	11.14	ft			
MW-11	10.84	ft	MPI-5S	12.79	ft	MPI-15B	10.77	ft			

COMMENTS:	PZ-4D inner ring is corroded and collapsing						
	Need soil for PW-8						



1. PZ-4B showing snowplow damage to inner ring



3. Air Stripper showing epoxy repairs on corroded areas



5. Liquid Containment Trench along south wall of Treatment Room



2. PZ-4B after Town of Aurora installed replacement road box



4. Air Stripper effluent fitting showing epoxy repairs



6. Liquid Containment Trench at southeast corner of the Treatment Room

TREATMENT SYSTEM OM&M October 2016



SYSTEM REPAIR PHOTOS 1 of 1

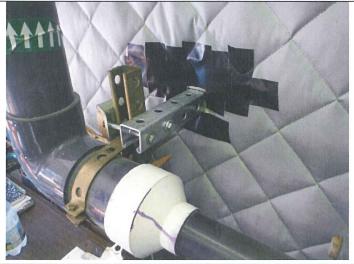
Mr. C's Dry Cleaners Site, East Aurora, NY



1. PZ-1B showing concrete damage from winter conditions



3. PZ-6A after snowplow damage repair with MG-KRETE



5. Close up of middle brace installed on the Effluent Pipe



2. PZ-1B after concrete repair with MG-KRETE



4. PZ-6C after snowplow damage repair with MG-KRETE



6. Overview showing all three braces on the Effluent Pipe

TREATMENT SYSTEM OM&M September 2016



SYSTEM REPAIR PHOTOS 1 of 1

Mr. C's Dry Cleaners Site, East Aurora, NY

<u>Attachment B</u> Analytical Report from Spectrum Analytical Laboratories

Analytical Data Package Work Order ID: R00985 Sampled by IEG: October 26, 2016

Client: Ecology and Environment Engineering P.C. Client Sample ID: INFLUENT Lab ID: R0985-01

Project:Mr. C's Dry CleaningCollection Date:10/26/2016 10:00

	Result Qual	RL Units	DF Date Analyzed	Batch ID
Analyses	Kesut Qui		Di Duccishuryzeu	
SW846 8260C VOC by GC-MS				SW8260_W
Dichlorodifluoromethane	ND	4.0 ug/L	4 10/31/2016 18:04	85753
Chloromethane	ND	4.0 ug/L	4 10/31/2016 18:04	85753
Vinyl chloride	25	4.0 ug/L	4 10/31/2016 18:04	85753
Bromomethane	ND	4.0 ug/L	4 10/31/2016 18:04	85753
Chloroethane	ND	4.0 ug/L	4 10/31/2016 18:04	85753
Trichlorofluoromethane	ND	4.0 ug/L	4 10/31/2016 18:04	85753
1,1-Dichloroethene	ND	4.0 ug/L	4 10/31/2016 18:04	85753
Acetone	ND	20 ug/L	4 10/31/2016 18:04	85753
Carbon disulfide	ND	4.0 ug/L	4 10/31/2016 18:04	85753
Methylene chloride	ND	4.0 ug/L	4 10/31/2016 18:04	85753
trans-1,2-Dichloroethene	ND	4.0 ug/L	4 10/31/2016 18:04	85753
Methyl tert-butyl ether	ND	4.0 ug/L	4 10/31/2016 18:04	85753
1,1-Dichloroethane	ND	4.0 ug/L	4 10/31/2016 18:04	85753
2-Butanone	10 J	20 ug/L	4 10/31/2016 18:04	85753
cis-1,2-Dichloroethene	160	4.0 ug/L	4 10/31/2016 18:04	85753
Chloroform	ND	4.0 ug/L	4 10/31/2016 18:04	85753
1,1,1-Trichloroethane	ND	4.0 ug/L	4 10/31/2016 18:04	85753
Carbon tetrachloride	ND	4.0 ug/L	4 10/31/2016 18:04	85753
1,2-Dichloroethane	ND	4.0 ug/L	4 10/31/2016 18:04	85753
Benzene	ND	4.0 ug/L	4 10/31/2016 18:04	85753
Trichloroethene	23	4.0 ug/L	4 10/31/2016 18:04	85753
1,2-Dichloropropane	ND	4.0 ug/L	4 10/31/2016 18:04	85753
Bromodichloromethane	ND	4.0 ug/L	4 10/31/2016 18:04	85753
cis-1,3-Dichloropropene	ND	4.0 ug/L	4 10/31/2016 18:04	85753
4-Methyl-2-pentanone	ND	20 ug/L	4 10/31/2016 18:04	85753
Toluene	ND	4.0 ug/L	4 10/31/2016 18:04	85753
trans-1,3-Dichloropropene	ND	4.0 ug/L	4 10/31/2016 18:04	85753
1,1,2-Trichloroethane	ND	4.0 ug/L	4 10/31/2016 18:04	85753
Tetrachloroethene	280	4.0 ug/L	4 10/31/2016 18:04	85753
2-Hexanone	ND	20 ug/L	4 10/31/2016 18:04	85753
Dibromochloromethane	ND	4.0 ug/L	4 10/31/2016 18:04	85753
1,2-Dibromoethane	ND	4.0 ug/L	4 10/31/2016 18:04	85753
Chlorobenzene	ND	4.0 ug/L	4 10/31/2016 18:04	85753
Ethylbenzene	ND	4.0 ug/L	4 10/31/2016 18:04	85753
Xylene (Total)	ND	4.0 ug/L	4 10/31/2016 18:04	85753
Styrene	ND	4.0 ug/L	4 10/31/2016 18:04	85753
Bromoform	ND	4.0 ug/L	4 10/31/2016 18:04	85753
isopropyibenzene	ND	4.0 ug/L	4 10/31/2016 18:04	85753

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation 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

11/02/2016

Client: Ecology and Environment Engineering P.C. Client Sample ID: INFLUENT Lab ID: R0985-01

Project:Mr. C's Dry CleaningCollection Date:10/26/2016 10:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8260C VOC by GC-MS				SW8260_W
1,1,2,2-Tetrachloroethane	ND	4.0 ug/L	4 10/31/2016 18:04	85753
1,3-Dichlorobenzene	ND	4.0 ug/L	4 10/31/2016 18:04	85753
1,4-Dichlorobenzene	ND	4.0 ug/L	4 10/31/2016 18:04	85753
1,2-Dichlorobenzene	ND	4.0 ug/L	4 10/31/2016 18:04	85753
1,2-Dibromo-3-chloropropane	ND	4.0 ug/L	4 10/31/2016 18:04	85753
1,2,4-Trichlorobenzene	ND	4.0 ug/L	4 10/31/2016 18:04	85753
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	4.0 ug/L	4 10/31/2016 18:04	85753
Cyclohexane	ND	4.0 ug/L	4 10/31/2016 18:04	85753
Methyl acetate	ND	4.0 ug/L	4 10/31/2016 18:04	85753
Methylcyclohexane	ND	4.0 ug/L	4 10/31/2016 18:04	85753
Surrogate: Dibromofluoromethane	103	85-115 %REC	4 10/31/2016 18:04	85753
Surrogate: 1,2-Dichloroethane-d4	101	70-120 %REC	4 10/31/2016 18:04	85753
Surrogate: Toluene-d8	97.9	85-120 %REC	4 10/31/2016 18:04	85753
Surrogate: Bromofluorobenzene	98.6	75-120 %REC	4 10/31/2016 18:04	85753

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation 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

11/02/2016

Client: Ecology and Environment Engineering P.C. Client Sample ID: EFFLUENT Lab ID: R0985-02

Project:Mr. C's Dry CleaningCollection Date:10/26/2016 10:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8260C VOC by GC-MS			·	SW8260_W
Dichlorodifluoromethane	ND	1.0 ug/L	1 10/31/2016 17:40	85753
Chloromethane	ND	1.0 ug/L	1 10/31/2016 17:40	85753
Vinyl chloride	ND	1.0 ug/L	1 10/31/2016 17:40	85753
Bromomethane	ND	1.0 ug/L	1 10/31/2016 17:40	85753
Chloroethane	ND	1.0 ug/L	1 10/31/2016 17:40	85753
Trichlorofluoromethane	ND	1.0 ug/L	1 10/31/2016 17:40	85753
1,1-Dichloroethene	ND	1.0 ug/L	1 10/31/2016 17:40	85753
Acetone	3.2 J	5.0 ug/L	1 10/31/2016 17:40	85753
Carbon disulfide	ND	1.0 ug/L	1 10/31/2016 17:40	85753
Methylene chloride	ND	1.0 ug/L	1 10/31/2016 17:40	85753
trans-1,2-Dichloroethene	ND	1.0 ug/L	1 10/31/2016 17:40	85753
Methyl tert-butyl ether	ND	1.0 ug/L	1 10/31/2016 17:40	85753
1,1-Dichloroethane	ND	1.0 ug/L	1 10/31/2016 17:40	85753
2-Butanone	ND	5.0 ug/L	1 10/31/2016 17:40	85753
cis-1,2-Dichloroethene	4.0	1.0 ug/L	1 10/31/2016 17:40	85753
Chloroform	ND	1.0 ug/L	1 10/31/2016 17:40	85753
1,1,1-Trichloroethane	ND	1.0 ug/L	1 10/31/2016 17:40	85753
Carbon tetrachloride	ND	1.0 ug/L	1 10/31/2016 17:40	85753
1,2-Dichloroethane	ND	1.0 ug/L	1 10/31/2016 17:40	85753
Benzene	ND	1.0 ug/L	1 10/31/2016 17:40	85753
Trichloroethene	ND	1.0 ug/L	1 10/31/2016 17:40	85753
1,2-Dichloropropane	ND	1.0 ug/L	1 10/31/2016 17:40	85753
Bromodichloromethane	ND	1.0 ug/L	1 10/31/2016 17:40	85753
cis-1,3-Dichloropropene	ND	1.0 ug/L	1 10/31/2016 17:40	85753
4-Methyl-2-pentanone	ND	5.0 ug/L	1 10/31/2016 17:40	85753
Toluene	ND	1.0 ug/L	1 10/31/2016 17:40	85753
trans-1,3-Dichloropropene	ND	1.0 ug/L	1 10/31/2016 17:40	85753
1,1,2-Trichloroethane	ND	1.0 ug/L	1 10/31/2016 17:40	85753
Tetrachloroethene	5.0	1.0 ug/L	1 10/31/2016 17:40	85753
2-Hexanone	ND	5.0 ug/L	1 10/31/2016 17:40	85753
Dibromochloromethane	ND	1.0 ug/L	1 10/31/2016 17:40	85753
1,2-Dibromoethane	ND	1.0 ug/L	1 10/31/2016 17:40	85753
Chlorobenzene	ND	1.0 ug/L	1 10/31/2016 17:40	85753
Ethylbenzene	ND	1.0 ug/L	1 10/31/2016 17:40	85753
Xylene (Total)	ND	1.0 ug/L	1 10/31/2016 17:40	85753
Styrene	ND	1.0 ug/L	1 10/31/2016 17:40	85753
Bromotorm	ND	1.0 ug/L	1 10/31/2016 17:40	85753
lsopropylbenzene.	ND	1.0 ug/L	1 10/31/2016 17:40	85753

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation 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

Client: Ecology and Environment Engineering P.C. Client Sample ID: EFFLUENT Lab ID: R0985-02

Project: Mr. C's Dry Cleaning Collection Date: 10/26/2016 10:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8260C VOC by GC-MS				SW8260_W
1,1,2,2-Tetrachloroethane	ND	1.0 ug/L	1 10/31/2016 17:40	85753
1,3-Dichlorobenzene	ND	1.0 ug/L	1 10/31/2016 17:40	85753
1,4-Dichlorobenzene	ND	1.0 ug/L	1 10/31/2016 17:40	85753
1,2-Dichlorobenzene	ND	1.0 ug/L	1 10/31/2016 17:40	85753
1,2-Dibromo-3-chloropropane	ND	1.0 ug/L	1 10/31/2016 17:40	85753
1,2,4-Trichlorobenzene	ND	1.0 ug/L	1 10/31/2016 17:40	85753
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0 ug/L	1 10/31/2016 17:40	85753
Cyclohexane	ND	1.0 ug/L	1 10/31/2016 17:40	85753
Methyl acetate	ND	1.0 ug/L	1 10/31/2016 17:40	85753
Methylcyclohexane	ND	1.0 ug/L	1 10/31/2016 17:40	85753
Surrogate: Dibromofluoromethane	103	85-115 %REC	1 10/31/2016 17:40	85753
Surrogate: 1,2-Dichloroethane-d4	102	70-120 %REC	1 10/31/2016 17:40	85753
Surrogate: Toluene-d8	94.0	85-120 %REC	1 10/31/2016 17:40	85753
Surrogate: Bromofluorobenzene	95.2	75-120 %REC	1 10/31/2016 17:40	85753

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation 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

11/02/2016

11/02/2016

Client:	Ecology and Environment Engineering P.C.		
Client Sample ID:	INFLUENT	Project:	Mr. C's Dry Cleaning
Lab ID:	R0985-01	Collection Date:	10/26/2016 10:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SM 4500 H+ B pH VALUE				SM4500_H+
pH	7.4	1.0 S.U.	1 10/27/2016 12:50	R96790
The pH value was measured at the temperature of	18	C	1 10/27/2016 12:50	R96790

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation 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

11/02/2016

Client:	Ecology and Environment Engineering P.C.	
Client Sample ID:	EFFLUENT	Proje
Lab ID:	R0985-02	Collection Da

Project: Mr. C's Dry Cleaning Collection Date: 10/26/2016 10:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SM 4500 H+ B pH VALUE				SM4500_H+
pH	7.5	1.0 S.U.	1 10/27/2016 12:53	R96790
The pH value was measured at the temperature of	17	С	1 10/27/2016 12:53	R96790

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation 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

1	1/	02	n	n	1	6
- 1	1/(141	12	υ.	Ľ	υ

Client:	Ecology and Environment Engineering P.C.		
Client Sample ID:	INFLUENT	Project:	Mr. C's Dry Cleaning
Lab ID:	R0985-01	Collection Date:	10/26/2016 10:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SM 2340B HARDNESS by Calculation				SM2340_W
Hardness, Ca/Mg (As CaCO3)	320	4.0 mg/L CaCO3	1 10/28/2016 16:00	85741

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation 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

11/02/2016

Client:	Ecology and Environment Engineering P.C.	
Client Sample ID:	EFFLUENT	
Lab ID:	R0985-02	Col

Project:Mr. C's Dry CleaningCollection Date:10/26/2016 10:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SM 2340B HARDNESS by Calculation				SM2340_W
Hardness, Ca/Mg (As CaCO3)	330	4.0 mg/L CaCO3	1 10/28/2016 16:03	85741

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation 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

<u>Attachment C</u> Summary of Site Utility Costs and Projections January to December 2016

ATTACHMENT C	\$25,300.00	\$540.00	\$1,120.00	\$26,960.00						Ave. /Month	\$ 319.03	\$ 27.11	\$ 346.15			in red -adjusted billing						Ave./Month	\$ 37.16	-										-
*	Electric: \$25	Telephone: \$	Gas \$1												arges	333.44																		
		Te	Ö		Jun-2016	\$163.34		\$17.22	180.56	Dec-2016					jas costs - no ch	\$ }		Jun-2016	36.41			Dec-2016							-					
	Utility Budget:				May-2016	\$ 188.45		\$ 24.37	\$ 212.82 \$	Nov-2016			\$ - \$		Overbilled natural gas costs - no charges	Estimated Reading		May-2016	\$ 40.86 \$			Nov-2016												
					Apr-2016	\$ 177.66		\$ 8.76	\$ 186.42	Oct-2016	\$ 486.70		\$ 486.70	Notes:			ļ	Apr-2016	\$ 36.16			Oct-2016												
					Mar-2016	\$ 265.95		\$ 58.82		Sep-2016	\$ 198.23	 \$ 20.79	\$ 219.02	_				Mar-2016	\$ 36.16			Sep-2016												
					Feb-2016	762.15		4.15	766.30	Aug-2016	14.31	20.42	214.73	\$3,190.34	244.03	3,434.37		Feb-2016	36.16			Aug-2016	38.32	 297.31	3,731.68									
					Jan-2016	\$ 577.59 \$		\$ 68.33 \$	\$ 645.92 \$	Jui-2016	\$ 175.96 \$	 \$21.17 \$	\$197.13 \$		\$	s		Jan-2016	\$ 36.01 \$			Jul-2016	\$ 37.23 \$	\$	æ									
t ounty costs		nce			Description	Mr. C's Electric Costs		Mr. C's Natural Gas Costs	Totals		Mr. C's Electric Costs	Mr. C's Natural Gas Costs	Totals	Electric - Mr. C's	Natural Gas - Mr. C's	Grand Total - NYSE&G/National Fuel Gas Costs To Date		Location Description	Mr. C's Telephone Costs	H				Verizon Costs to Date - Mr. C's	Grand Total All Utilities To Date									
	0C3074.0010.07	n and Maintena			E&E Cost Center	EN-003229-0001-03TTO		EN-003229-0001-03TTO			6	_				Fotal - NYSE&G/Nationa		E&E Cost Center	EN-003229-0001-03TTO				EN-003229-0001-03TTO	Veriz	Grand Total Al									
	signment #1	em Operatio	ort		#	1001-0310-422	76-311-11-015900-18	5819628-05								Grand 1		Phone #	716-652-0094															
MILLO & DI Y CIERITEIS DILE - NEILIEULAI ITEALITEILLULIILY CUSIS	NYSDEC Work Assignment #10C3074.0010.07	12 Months of System Operation and Maintenance	October 2016 Report	Gas, Telephone, and Electric	Utility Provider	New York State E&G	New York State E&G										Phone	vider	Verizon	Account #	716 652 0094 416 26 2												-	

Mr. C's Dry Cleaners Site - Remedial Treatment Utility Costs	s Site - Ren	nedial Treatmen	t Utility Costs					ATTACHMENT C	ENT C
NYSDEC Work Assignment #11	gnment #1					Budget Remaining:	Electric:	\$22,109.66	
12 Months of System Operation and Maintenance	m Operatio	n and Maintenar	nce				Telephone:	\$242.69	
October 2016 Report	ť						Gas	\$875.97	
C	Optimum Operating Hours	Actual Onerating Hours	In-fime Percentage		-				
anuary-16	679				Vocumid window vocuments:		Total:	\$23,228.32	
February-16	30	0	0.00%	0.0%	Svstem Shutdown				
March-16	0	0	0.00%		System Shutdown				
April-16	0	0	0.00%		System Shutdown				
May-16	0	0	0.00%		System Shutdown				
June-16	0	0	0.00%	0.0%	System Shutdown				
Aug-10		-	%0000		System Shutdown				
September-16			0.00%		System Shutdown				
October-16	600.	600	100.00%		Clear - warm				
November-16			i0//\IC#						
December-16			10/AIC#						
Totals to Date	1272	1272	100.00%						
Percent Capacity is based on initial operating groundwater flows from the eloht installed pumps from 9/02. Evaluated on	operating groundwate	ar flows from the elaht installed	d pumps from 9/02. Evaluated or	l total callons disc	total gallons discharged for monthly operating time				
Maximum pump discharges calculated as an average of 78 gpm as the total for all 8 pumps at the site if all pumps operate	d as an average of 78	gpm as the total for all 8 pum	ps at the site if all pumps operat		100%. With the exception of groundwater pump RW-1, all others run on a batch basis.	1, all others run on a batch basis.			
Monthly Average Costs	S								
		· · · · · · · · · · · · · · · · · · ·							
Mr. C's Electric \$	319.03								
Agway Electric \$								-	
Mr. C's Gas \$	27.11								
Mr. C's Telephone \$	37.16								
Ave. Utility Cost Total \$	383.31	times	12 Month Estimate	\$4,983.06					

ecology and environment engineering, p.c.

International Specialists in the Environment

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BUFFALO CORPORATE CENTER 368 Pleasant View Drive Lancaster, New York 14086 Tel: (716) 684-8060, Fax: (716) 684-0844

December 9, 2016

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 # 915157 November 2016 Operations, Maintenance, and Monitoring Report

Dear Mr. Welling:

Ecology and Environment Engineering, P.C. (EEEPC) is pleased to provide the November 2016 Operations, Maintenance, and Monitoring (OM&M) Report for the Mr. C's Dry Cleaners Site, NYSDEC Site # 915157, located in the Village of East Aurora, New York. A summary of field activities prepared by EEEPC's subcontractor, Iyer Environmental Group, PLLC (IEG), is provided in <u>Attachment A</u>. The treatment system was re-actived as a result of the recommendations of the remedial Site Optimization plan in October 2016. Selected pages from the individual analytical data package prepared by Spectrum Analytical Inc. (SAI), Warwick, Rhode Island are provided as <u>Attachment B</u>. The site utility information is provided in <u>Attachment C</u>.

Per your request, the Mr. C's treatment system has been shutdown since February 4, 2016. The revised RSO was submitted September 23, 2016. Per our conversations, restart of the treatment system was restarted October 6, 2016. IEG performed review the pumping systems and the treatment operations before startup. As a result of the final RSO document, a proposed pulsing plan was submitted to NYSDEC on October 31, 2016. The proposed pulsing plan was revised and resubmitted after NYSDEC comments on November 23, 2016. The plan was approved by NYSDEC on December 6, 2016. The written plan was developed to optimize the system through a schedule phased and pulsed operations to confirm that asymptotic groundwater conditions have been met in accordance with the DER 10 requirements to support treatment system shutdown.

Influent/effluent samples were taken on December 5, 2016. Monthly water depth measurements are taken at the site's groundwater monitoring wells, piezometers, and pumping wells during November by IEG (Attachment A).

Groundwater sampling was performed by EEEPC from April 25-May 2, 2016 to evaluate the potential for rebound of the volatile organic compounds around the Mr. C's site. The 2016 Groundwater Report was issued on June 16, 2016.

Mr. William Welling, Project Manager December 9, 2016 Page 2 of 4

In review of the on-site treatment system operations, monitoring and maintenance for November 2016, EEEPC offers the following comments and highlights:

Operational Summary

- The monthly checklists for system inspections from IEG are provided as Attachment A for 10/31/16, 11/14/16, 11/28/16, and 10/31/16.
- Based on inspection reports prepared by IEG, the remedial treatment system for the period above had a 100% operational up-time (Table 1) and the treatment of contaminated groundwater during that period totaling of 447,513 gallons (Table 1) for November 2016.
- The compliance samples were taken on December 5, 2016 (Attachment B) and the preliminary analytical results were received from SAI on December 8, 2016. The results indicated effluent discharges are in compliance with the SPDES Equivalency permit requirements. The results are provided in the Table 2.
- The analytical summary results of the November 2016 samples revealed the total volatile organic contaminant concentrations of the influent to be 580 μ g/L or 580 ppb. In review of the effluent concentrations the results were 4.10 μ g/L or 4.10 ppb. The summary of influent and effluent contaminant concentrations for the November 2016 sampling is presented in Table 1.
- The Mr. C's treatment system based on the total monthly flows removed 2.15 lbs. of targeted contaminants from the groundwater below the site in the month of November 2016 and the cleanup effectiveness was 99.3%. The calculations and data for the month are presented in Table 3.

Mr. C's Site – Remedial Operations and Maintenance Information

- The November 2016 summary of field activities performed between 10/31/2016 and 12/5/2016 from IEG are provided as <u>Attachment A</u>.
- Performed repairs on concrete pads around some of the pumping wells.
- Performed maintenance on slow leaking after restart on the bag filter unit and the air stripper trays.
- Cleaned and inspected the pumping wells pumps in anticipation of system startup.

Subslab Depressurization Systems (SSDS).

- Property owner at 27 Whaley Ave. (David Dubois) has not returned EEEPC's calls for inspection of the SSDS unit, EEEPC will continue to contact to obtain access for inspection.
- Drained the condensate from the SSDS units from the Country Cottage (586 Main Street unit 4) and in Treatment Room unit.
- SSDS installation design at 31 Paine Street is currently in process.

Mr. William Welling, Project Manager December 9, 2016 Page 3 of 4

Subslab Depressurization Systems (SSDS)- (Con't.).

• Discussion of new SSDS unit installation at 23 Paine Street is in progress. EEEPC needs to re-issue letter of determination of SSDS from NYSDOH to the new property owner. The new property owner of 23 Paine Street house as of November 2015 is David Dubois.

Status of Bioremediation Direct Push Injection Work.

- Additional review of the recommendations in the summary report to be evaluated with the Remedial Site Optimization (RSO) program.
- The Final RSO was issued to NYSDEC on September 23, 2016.
- Revised Pulsing Plan issued on November 23, 2016 and approved on December 6, 2016.

Soil Vapor Intrusion Investigation Program (2016)

• Discuss new property locations with NYSDEC / NYSDOH for SVII work in 2016.

Site Management Plan

- EEEPC submitted the updated/revised SMP to NYSDEC and NYSDEC Region 9 on March 2, 2015.
- This is an active site document, so future revisions will be performed once major changes to the management of the site are required after optimization evaluation is performed.

Annual Long-term Groundwater Monitoring Well Report

- Report of 2015 annual Groundwater results was issued to NYSDEC on December 21, 2015.
- The 2016 Groundwater sampling/analytical results report was submitted on June 16, 2016.
- Review with the NYSDEC PM if another groundwater sampling / analytical for fall 2016 was necessary. This was discussed and will not be necessary to perform at this time.

Periodic Review Report (PRR)

• 2016 PRR being prepared for submittal in January 2017. Forms received from NYSDEC on November 18, 2016.

Mr. William Welling, Project Manager December 9, 2016 Page 4 of 4

If you have questions regarding the November 2016 OM&M report summary, please do not hesitate to contact me at 716-684-8060.

Very Truly Yours, Ecology and Environment Engineering, P. C.

Thehae

Michael G. Steffan Project Manager

cc: D. Szymanski, Region 9, NYSDEC - Buffalo w/ attachments D. Iyer, IEG – w/attachments CTF - 10C3074.0011.07 Table 1Mr. C's Dry Cleaners Site RemediationSite #915157System Operation and Management

	I-dU	Up-time			VOC Removal	
	Reporting	Operational	Treated Effluent	Influent VOCs	Effluent	VOCs Removed
Month	Hours	Up-time	(gallon)	(µg/L)	VOCs(µg/L)	(lbs.)
(Up-time from 9/5/02 to 01/04/16)	111,949.50	95.23%	128,814,819	NA	NA	1,614.16
January 4, 2016 - February 1, 2016	672	100.00%	305,578	692.0	0.0	1.76
February 1, 2016 - February 29, 2016	0	0.00%	0	0.0	0.0	0.00
March 1, 2016 - March 31, 2016	0	0.00%	0	0.0	0.0	0.00
April 1, 2016 - April 30, 2016	0	0.00%	0	0.0	0.0	0.00
April 31, 2016 - June 1, 2016	0	0.00%	0	0.0	0.0	0.00
June 1, 2016 - June 27, 2016	0	0.00%	0	0.0	0.0	0.00
June 27, 2016 - July 31, 2016	0	0.00%	0	0.0	0.0	0.00
July 31, 2016 - September 3, 2016	0	0.00%	0	0.0	0.0	0.00
September 3, 2016 - September 27, 2016	0	0.00%	0	0.0	0.0	0.00
October 6, 2016 - October 31, 2016	600	100.00%	259,917	498.0	12.2	1.05
October 31, 2016 - December 5, 2016	840	100.00%	447,513	580.0	4.1	2.15
Total in 2016	2,112.00	1.00	1,013,008	1,770.00	16.30	4.96
					4	

NOTES:

I. Up-time based as percentage of total reporting hours.

1,619.13

ΝA

NA

129.827.827.00

0.95

114,061.50

Total from startup

2. Treatment system operated by the Tyree Organization Ltd. from 9/02 - 9/03.

3. Treatment system operated by O&M Enterprises Inc. from 10/03 - 7/07.

4. Treatment system operated by Iver Environmental Group from 7/07 to present.

5.VOC removal calculations are based on monthly water samples and assumes samples are representative of the entire reporting period.

6. VOC removal calculations assume that non-detect values = 0 ug/L.

7. Total VOCs summations include estimated "J" values.

8. VOC removal calculations are based on effluent totalizer readings.

9."Influent VOCs" and "Effluent VOCs" values given above is the summation of values for individual compounds given in monthly analytical reports. 10. Unit conversion: 1 pound = 453.5924 grams, 1 gallon = 3.785 liters

10. Only conversion: 1 pound - 4.55.574 grains, 1 gallon - 5.11. Formula for the VOC removal calculation:

 $(VOCs_{hfluent} - VOCs_{effluent})(ug/L) \cdot (1g/10^{6} ug) \cdot (1 lb/453.5924 g) \cdot (Monthly process water)(gal) \cdot (3.785 L/gallon)$

12. Using the 2/2/16 analytical results.

Table 2Mr. C's Dry Cleaners Site RemediationSite #915157Effluent Discharge Criteria & Analytical Compliance Results

Parameter/Analyte	Daily Maximum ¹	Units	November - Effluent Analytical Values - Compliance
Flow (Average)	N/A	gpd	12,786
pH	6.0 - 9.0	standard units	8.10
1,1 Dichloroethene	10	μg/L	ND
1,1 Dichloroethane	10	μg/L	ND
cis-1,2-dichloroethene	10	μg/L	2.20
Trichloroethene	10	μg/L	ND
Tetrachloroethene	10	μg/L	1.90
Vinyl Chloride	10	μg/L	ND
Benzene	5	μg/L	ND
Ethylbenzene	5	μg/L	ND
Methylene Chloride	10	μg/L	ND
1,1,1 Trichloroethane	10	μg/L	ND
Toluene	5	μg/L	ND
Methyl-t-Butyl Ether (MTBE)	NA	ug/L	ND
o-Xylene ²	5	μg/L	ND
m, p-Xylene ²	10	μg/L	ND
Total Xylenes	NA	ug/L	ND
Iron, total ⁹	600	μg/L	
Aluminum ⁹	4,000	μg/L	
Copper ⁹	48	μg/L	
Lead ⁹	11	μg/L	
Manganese ⁹	2,000	μg/L	
Silver ⁹	100	μg/L	
Vanadium ⁹	28	μg/L	
Zinc ⁹	230	μg/L	
Total Dissolved Solids ⁹	850	mg/L	
Total Suspended Solids ⁹	20	mg/L	
Hardness	N/A	mg/L	360
Cyanide, Free ⁹	10	μg/L	

NOTES:

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1. "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: October 31 December 5, 2016 10,397 gallons per day.
- 7. "J" indicates 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.

10. "NS" indicates that the parameter analysis was not sampled.

40 Indicates non-compliance with the NYSDEC effluent discharge requirements NR Indicates Not Reported by Lab

Table 3 Mr. C's Dry Cleaners Site Remediation NYSDEC Site #915157 November 2016 VOC Analytical Summary

	Base	ed on the N	ovember Efflu	ent Analy	tical Results
	Influ	ent	Efflue	ent	Cleanup
Compound	Concent	ration*	Concentra	tion**	Efficiency***
	(ug/	L)	(ug/I	L)	(%)
Acetone	ND (<20)	U	ND (<5.0)	Ŭ	NA
Benzene	ND (<4.0)	U	ND (<1.0)	U	NA
2-Butanone	ND (<20)	U	ND (<5.0)	U	NA
cis-1, 2-Dichloroethene	210		2.2		99.00%
Chloroform	ND (<4.0)	U	ND (<1.0)	U	NA
Chloromethane	ND (<4.0)	U	ND (<1.0)	U	NA
Methylene chloride	ND (<4.0)	U	ND (<1.0)	U	NA
Methyl tert-butyl ether (MTBE)	ND (<4.0)	U	ND (<1.0)	U	NA
Methyl acetate	ND (<4.0)	U	ND (<1.0)	U	NA
Tetrachloroethene (PCE)	310		1.9		99.40%
Toluene	ND (<4.0)	U	ND (<1.0)	U	NA
Trichloroethene (TCE)	46.0		ND (<1.0)	U	100.00%
Carbon Disulfide	ND (<4.0)	U	ND (<1.0)	U	NA
1,1,2 Trichloro-1,2,2-trifluororethane	ND (<4.0)	U	ND (<1.0)	U	NA
2-Hexanone	ND (<20)	U	ND (<5.0)	U	NA
4-Methyl-2-pentanone	ND (<20)	U	ND (<5.0)	U	NA
Cyclohexane	ND (<4.0)	U	ND (<1.0)	U	NA
trans-1,2-dichloroethene	ND (<4.0)	U	ND (<1.0)	U	NA
Chlorobenzene	ND (<4.0)	U	ND (<1.0)	U	NA
Methylcyclohexane	ND (<4.0)	U	ND (<1.0)	U	NA
Ethylbenzene	ND (<4.0)	U	ND (<1.0)	U	NA
Methyl acetate	ND (<4.0)	U	ND (<1.0)	U	NA
Vinyl Chloride	14		ND (<1.0)	U	100.00%
Total Xylenes	ND (<4.0)	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.	580.0		4.10		99.30%

Notes:

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

3. "DJ" or "J" indicates an estimated value below the practical quantitation limit but above the method detection limit.

4. Non-detect values are assumed to be equal to zero for calculation of monthly average concentrations.

5. "D" indicates the compound concentration was obtained form a secondary dilution analysis.

6. Acetone was not detected in the influent sample above the MDL but detected in the effluent sample. It is not a contaminant of concern for the Mr. C's site.

* Detection Limits (<10) and (<50)

** Detection Limits (<1) and (<5)

*** Contaminants of Concern only

<u>Attachment A</u> IEG Summary of Field Activities November 2016

10/31/16

11/14/16

11/28/16

12/5/16

MR. C's DRY CLEANERS SITE NYSDEC Site #9-15-157 OM&M: SITE INSPECTION FORM

DATE: 31-Oct-16	ACTIVITIES: Site Inspection	
INSPECTION PERSONNEL: R. Allen	OTHER PERSONNEL:	·
WEATHER CONDITIONS: Partiy cloudy, co	lol	OUTSIDE TEMPERATURE (° F): 35
ARE WELL PUMPS OPERATING IN AUTO:		"NO", provide explanation below
PW-7 is OFF due to injection operation		
PRO	VIDE WATER LEVEL READINGS ON CONTROL PANE	
RW-1 ON: OFF:	7_ft PW-5 ON:	OFF: <u>√</u> <u>5</u> ft
PW-2 ON: OFF:	3 ft PW-6 ON:	OFF: <u>√ 6</u> ft
PW-3 ON: OFF:	5_ft PW-7 ON:√	OFF: 13 ft
PW-4 ON: OFF:√	4_ft PW-8 ON:	OFF: <u>√ 6</u> ft
EQUALIZATION TANK:	3 ft Last Alarm D/T/Condition: 1	10/31/16 PW-2 Overload
INFLUENT FLOW RATE: 0	gpm INFLUENT TOTALIZER READING	12,236,479 gallons
	8 inches (x 1.7=) AMOUNT OF A	
SEQUESTERING AGENT FEED RATE:		PUMP PRESSURE: 4.0 psi
	 Top Bottom	Top Bottom
BAG FILTER PRESSURES:		
INFLUENT FEED PUMP IN USE: #1_		ESSURE:7psi
AIR STRIPPER BLOWER IN USE: #1_	#2 AIR STRIPPER PRI	ESSURE: 26.0 in. H ₂ O
AIR STRIPPER DIFFERENTIAL PRESSURE:	broken in. H ₂ O DISCHARGE PRE	ESSURE: 1.80 in. H ₂ O
	4000	
A <i>IR FLOW :</i> <u>1350</u> fpm X 1.4 =	1890 CFM	
AIR FLOW :1350 fpm X 1.4 = EFFLUENT PUMP IN USE: #1	1890 CFM #2	ESSURE:9psi
EFFLUENT PUMP IN USE: #1		
EFFLUENT PUMP IN USE: #1	#2 EFFLUENT FEED PUMP PRE EFFLUENT TOTALIZER READING:81	
EFFLUENT PUMP IN USE: #1	#2 EFFLUENT FEED PUMP PRE EFFLUENT TOTALIZER READING:81	,056,073 672320 gallons

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

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		Sa	mple ID	Time of Sampling	a	pН	Turbidity	Temp.	Sp. Cond.	
				·····	3	P	· - · - · - · - · ,			
AIR STRI	PPER INFLUENT	r:								_
AIR STRIF	PPER EFFLUENT	÷								_
IS THERE		TAMPERING/	VANDALISM	OF WELLS: ?	YES	;;	NO:			
		WERE	MANHOLES	INSPECTED?	YES				•	
	WE	ERE ELECTR	ICAL BOXES	INSPECTED?	YES	: √	NO:			
IS WATER P	RESENT IN ANY	MANHOLES	OR ELECTRI	CAL BOXES?	YES	:	 NO:		-	
					_		·····		-	
	lf yes, pro	ovide manhole	/electric box II) and description o	f any cor	rective mea	sures below:			
4D inner ring is c						rective mea:				
-4D inner ring is c				3 and description o						
MANOMET	orroded and colla		SUE	BSLAB SYS			 			
	orroded and colla	psing.	SUE FLOW (fr	BSLAB SYS west	ТЕМ			x fpm (3" F	PVC)	
MANOMET	orroded and colla	psing.	SUE	BSLAB SYS west fm):	ТЕМ				PVC)	
MANOMET	orroded and colla	psing.	FLOW (fp FLOW (ct	BSLAB SYS west fm):	ТЕМ			x fpm (3" F	2VC)	
MANOMET	ER: 1.4	in. WC	FLOW (fp FLOW (fg FLOW (cf SAUGE (in W(BSLAB SYS west fm):	TEM east	NOTES:				
(Fan Inlet)	ER: 1.4	psing. in. WC VACUUM (FLOW (fp FLOW (c FLOW (c GAUGE (in W CRIBE ANY O	west om): fm): C) THER SYSTEM M.	TEM east	NOTES:				
MANOMET (Fan Inlet) 	INCLUDE REMA	in. WC VACUUM (ARKS & DESC Dat fittings ha	FLOW (fp FLOW (cf GAUGE (in Wo CRIBE ANY O	west bm): fm): C) THER SYSTEM M. leaks.	TEM east	NOTES:				
MANOMET (Fan Inlet) emarks: Tv Ef	INCLUDE REMA vo Air Stripper flu	psing. in. WC VACUUM (NRKS & DESC pat fittings ha 2) slow drip [FLOW (fp FLOW (cd FLOW (cd CRIBE ANY O CRIBE ANY O Ive slow drip leaks near EC	west om):	TEM east	NOTES:				
MANOMET (Fan Inlet) emarks: Tv Ef ther Actions: Dr	INCLUDE REMA vo Air Stripper flu	in. WC VACUUM (ARKS & DESC Dat fittings ha (2) slow drip l Asystems as no	FLOW (fp FLOW (cf SAUGE (in Wo CRIBE ANY O ive slow drip leaks near EC eeded: little c	west m): fm): C) THER SYSTEM M. leaks. Q Tank. condensate	TEM east	NOTES:				

	AGWAY	
Remarks:	Site is empty of materials and has been graded and graveled.	
Other Action	s:	

MR. C'S DRY CLEANERS SITE NYSDEC Site #9-15-157 OM&M: SITE INSPECTION FORM

						Site Inspec					
INSPECT	TION PERSONN	EL:	R. Allen			OTHER PERS	ONNEL:				
WEATHE		: Partly clo	oudy, wa	rm				OUTSIL	DE TEMPE	RATURE (° F):	50
	LL PUMPS OPE PW-7 is OFF du					NO:		lf "NO", pr	ovide expl	anation below	1
-					<u> </u>			·····			
			PROV	IDE WA	TER LEV	EL READINGS	ON CONTRO	PANEL			
RW-1	ON:	OFF:	<u>√</u>	6	ft	PW-5	ON:	OFF:	√	5	_ft
PW-2	ON:	OFF:		7	ft	PW-6	ON:	OFF:	<u></u>	4	_ft
PW-3	ON:	OFF: _	<u>√</u>	7	ft	PW-7	ON:	√OFF:	<u> </u>		_ft
PW-4	ON:	OFF: _	_√	6	ft	PW-8	ON:	OFF:		3	_ft
ı	EG NOTES:	QUALIZATION	TANK:	4	ft	Last	Alarm D/T/Con	dition: <u>11/14/16</u> F	W-7 Overl	oad	
	ENT FLOW RAT	E:			gpm 			DING	12,401,		_gallons
	UESTERING A				ml/min			T OF AGENT RE ERING PUMP PR			_gallons _psi
SE		AGENT FEED	RATE:		ml/min Top	Bottom	MET.	ERING PUMP PR		4.0 Bottom	-
SE	QUESTERING /	AGENT FEED 	RATE:		ml/min Top 25 - 0	Bottom 0 psi	MET.	ERING PUMP PR	Top 31 - 8	4.0 Bottom 0	_psi
SE	BAG FILTER PI	AGENT FEED	RATE:	LEFT: _√	ml/min Top 25 - 0 #2	Bottom 0 psi	MET. RIG	ERING PUMP PR	Top 31 - 8	4.0 Bottom 0 7	_psi _psi _psi
SE INFLUI AIR S' AIR STRI	EQUESTERING J BAG FILTER PI ENT FEED PUM TRIPPER BLOW	AGENT FEED RESSURES: P IN USE: VER IN USE:	#1	LEFT: √ √ bro	ml/min <u>Top</u> <u>25 - 0</u> #2 #2 ken	Bottom 0 psi	MET. RIGI NFLUENT PU AIR STRIPP DISCHAR	ERING PUMP PR	2ESSURE: Top 31 - 8	4.0 Bottom 0 7 28.0	_psi _psi _psi _in. H ₂ O
SE INFLUI AIR S' AIR STRI AIR FLOU	BAG FILTER PI ENT FEED PUM TRIPPER BLOW PPER DIFFERE	AGENT FEED RESSURES: P IN USE: VER IN USE: NTIAL PRESS	RATE:	LEFT: √ √ bro	ml/min <u>Top</u> <u>25 - 0</u> #2 #2 <u>#2</u> <u>#2</u> <u>#2</u> <u>#2</u> <u>#2</u>	Bottom 0 psi	MET. RIG NFLUENT PU AIR STRIPP DISCHAR	ERING PUMP PR	2ESSURE: Top 31 - 8	4.0 Bottom 0 7 28.0	_psi _psi _psi _in. H ₂ O _in. H ₂ O
SE INFLUI AIR S' AIR STRI AIR FLOV EFFLUEN	EQUESTERING J BAG FILTER PI ENT FEED PUM TRIPPER BLOW PPER DIFFERE W :125	AGENT FEED RESSURES: P IN USE: VER IN USE: NTIAL PRESS 50 fpm X E: #1	#1	LEFT: √ √ bro #2	ml/min <u>Top</u> <u>25 - 0</u> #2 #2 ken <u>1750</u> √	Bottom 0 psi	MET RIG NFLUENT PU AIR STRIPP DISCHAR	ERING PUMP PR	2ESSURE: Top 31 - 8	4.0 Bottom 7 28.0 1.50	_psi _psi _psi _in. H ₂ O _in. H ₂ O
SE INFLUI AIR S AIR STRI AIR FLOU EFFLUE	EQUESTERING J BAG FILTER PI ENT FEED PUM TRIPPER BLOW PPER DIFFERE W :125	AGENT FEED RESSURES: P IN USE: VER IN USE: NTIAL PRESS 0 fpm X E: #1 E: #1	#1	LEFT: √ √ bro #2 EF	ml/min <u>Top</u> <u>25 - 0</u> #2 #2 ken <u>1750</u> √	Bottom 0 psi 	MET RIG NFLUENT PU AIR STRIPP DISCHAR	ERING PUMP PR HT: MP PRESSURE: ER PRESSURE: GE PRESSURE: MP PRESSURE: 81,235,91	2ESSURE: Top 31 - 8 	4.0 Bottom 7 28.0 1.50	_psi _psi _psi _in. H ₂ O _in. H ₂ O _psi
SE INFLUI AIR STRI AIR STRI AIR FLOV EFFLUE ARE BUI	QUESTERING J BAG FILTER PI ENT FEED PUM TRIPPER BLOW PPER DIFFERE W : 125 NT PUMP IN USI	AGENT FEED RESSURES: P IN USE: VER IN USE: NTIAL PRESS 50 fpm X E: #1 E: #1 E: 140 s RS IN USE?	RATE:	LEFT: √ √ bro #2 EF	ml/min <u>Top</u> <u>25 - 0</u> #2 #2 <u>#2</u> #2 #2 #2 #2 #2 #2 #2 #2 #2 #2	Bottom 0 psi 	MET RIG NFLUENT PU AIR STRIPP DISCHAR ENT FEED PU	ERING PUMP PR HT: MP PRESSURE: ER PRESSURE: GE PRESSURE: MP PRESSURE: 81,235,91	RESSURE: Top 31 - 8 79 DE TEMPEI 	4.0 Bottom 0 7 28.0 1.50 9 855340	_psi _psi _in. H ₂ O _in. H ₂ O _psi _gallons

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

AMPLES COLLECTED?		of Sampling	pН	Turbidity	Temp.	Sp. Cond.
AIR STRIPPER I						
AIR STRIPPER E						
IS THERE EVIDE	NCE OF TAMPERING/VANDALISM OF WEI	LLS: ? YES	s:	NO:	\checkmark	
	WERE MANHOLES INSPEC	CTED? YES	:√	NO:		
	WERE ELECTRICAL BOXES INSPEC	CTED? YES	:√	NO:		
IS WATER PRESEN	T IN ANY MANHOLES OR ELECTRICAL BO	DXES? YES	5:	NO:		
	If yes, provide manhole/electric box ID and de	escription of any cor	rective mea	sures below:		
Z-4D inner ring is corroded	and collapsing.					
Z-4D inner ring is corroded						
`	SUBSLA	B SYSTEM				
MANOMETER:	SUBSLA	B SYSTEM	NOTES:		<pre> fpm (3" P </pre>	
	SUBSLA	B SYSTEM	NOTES:	cfm = 0.05 >	< fpm (3" P	
		B SYSTEM	NOTES:		< fpm (3" P	VC)
MANOMETER: (Fan Inlet)	SUBSLA 1.4in. WC FLOW (fpm): FLOW (cfm): VACUUM GAUGE (in WC)	B SYSTEM				
MANOMETER: (Fan Inlet) 	SUBSLA 	B SYSTEM				
MANOMETER: (Fan Inlet) 	SUBSLA 	B SYSTEM				
MANOMETER: (Fan Inlet) <u>INCLU</u> temarks: Two Air S Effluent F	SUBSLA 1.4 in. WC FLOW (fpm): FLOW (cfm): FLOW (cfm): VACUUM GAUGE (in WC) DE REMARKS & DESCRIBE ANY OTHER S Stripper float fittings have slow drip leaks. Pipe has (2) slow drip leaks near EQ Tank.	B SYSTEM				
MANOMETER: (Fan Inlet) <u>INCLU</u> temarks: Two Air S Effluent F	SUBSLA 	B SYSTEM				
MANOMETER: (Fan Inlet) <u>INCLU</u> Remarks: Two Air S Effluent F Other Actions: Treatmen	SUBSLA 1.4 in. WC FLOW (fpm): FLOW (cfm): FLOW (cfm): VACUUM GAUGE (in WC) DE REMARKS & DESCRIBE ANY OTHER S Stripper float fittings have slow drip leaks. Pipe has (2) slow drip leaks near EQ Tank.	B SYSTEM				

	AGWAY
Remarks:	Site is empty of materials and has been graded and graveled.
Other Action	s:

MR. C's DRY CLEANERS SITE NYSDEC Site #9-15-157 OM&M: SITE INSPECTION FORM

		28-N	ov-16	_	ACTIVI	IES: Site insp	ection				
INSPEC	STIO	N PERSON	NEL:	R. Aller	1	OTHER PE	RSONNEL:				
WEATH			s: Partiy o	loudy, co	ool			OUTSIDE	TEMPERA	TURE (° F)	: 40
							\checkmark		vide explan	ation below	N
	PW	-7 is OFF (fue to mainter	nance prot	blem						
				PRC		R LEVEL READIN	GS ON CONTROL	PANEL			
RW-1	I	ON:	OFF	: <u>√</u>	<u> </u>	PW-5	ON:	OFF:	√	7	_ft
PW-2	ž	ON:	OFF	:√	ft	PW-6	ON:	OFF:		7	ft
PW-3	3	ON:	OFF	·	ft	PW-7	on:	OFF: _		13	ft
PW-4	ı	ON:	OFF	:	<u>3</u> ft	PW-8	ON:	OFF: _		7	_ft
		I	EQUALIZATIO	N TANK:	ft	La	ast Alarm D/T/Condit	ion: <u>11/28/16 PV</u>	V-2 Overload	1	
	NO	TES:									
				-			1.7=) AMOUNT				
	SEQU		GENI FEE	DRAIE: _		min Bottom		RING PUMP PRE			_psi
	BA	G FILTER	PRESSURES:			· ,	psi RIGH1	ſ:	^{Тор} 24 - 8	Bottom 0	_psi
INFL	UEN	T FEED PU	IMP IN USE:	#1_		#2	INFLUENT PUM	P PRESSURE:		7	_psi
AIR	STRI										
		PPER BLU	WER IN USE:	· #1_	\checkmark	#2	AIR STRIPPEI	R PRESSURE:	35	5.0	_in. H ₂ O
AIR STR	RIPPI			~			AIR STRIPPEI DISCHARGI	-			_
AIR STF AIR FLC		ER DIFFEF		SSURE:	broke	nin. H₂O	DISCHARG	= E PRESSURE: _	0.7	70	_
AIR FLC	ow :	ER DIFFEF 12 	RENTIAL PRES	SSURE:	broke	nin. H₂O 1680_СГМ		= PRESSURE: _	0.7	70	in. H ₂ O
AIR FLO	OW : ENT I	ER DIFFEF 12 PUMP IN U	RENTIAL PRES 200 fpm X 	SSURE: _ 1.4 = _ 1	broke	nin. H₂O 1680 сFM √ <i>EFFI</i>	DISCHARGI	= PRESSURE: _ 	0.7	70 9	in. H ₂ O
AIR FLC EFFLUE EFFLU	OW : ENT JENT	ER DIFFEF 12 PUMP IN U FLOW RA	RENTIAL PRES 200 fpm X 	SSURE:	broke	nin. H₂O 1680 cFM √EFFI VENT TOTALIZER	DISCHARGI	E PRESSURE: _ P PRESSURE: _ 81,412,03	0.7	9 3406	in. H ₂ O psi gallons
AIR FLC EFFLUE EFFLU ARE BC	OW : ENT JENT UILDI	ER DIFFEF 12 PUMP IN U FLOW RA	200 fpm X SE: #1 TE: 142 ERS IN USE?	SSURE:	#2	nin. H₂O 1680 cfm √Effi VENT TOTALIZER NO:	DISCHARGI	E PRESSURE: _ P PRESSURE: _ 81,412,030 INSIDE	0.7 6	9 3406	in. H ₂ O psi 0 gallons 70

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

									2	The second se
SAMPLES C	OLLECTED?	YES:	NC	b:√						
			Sample	ID Time of S	Sampling	pH	l Turbidi	y Temp.	Sp. Cond.	
AIR	STRIPPER I	NFLUENT:								-
AIR	STRIPPER E	FFLUENT:								-
 is тi	HERE EVIDE	NCE OF TAN	IPERING/VAND	DALISM OF WELL	.s: ?			 o: √]
			WERE MAN	IHOLES INSPECT	ED?	YES: 🗸	N):		
		WERE	ELECTRICAL	BOXES INSPECT	ED?	YES: √	 N(D:	_	
IS WAT	ER PRESEN	T IN ANY MA	NHOLES OR E	LECTRICAL BOX	ES?	YES:	N	o: √	_	
		If ves, provide	manhole/electr	ric box ID and desc	rintion of any	corrective m	easures belov	v:	-	
2-4D inner rir	ng is corroded	l and collapsin	g							
Z-4D inner rir	ng is corroded	l and collapsin	g.							
Z-4D inner rir	ng is corroded	and collapsin	g	SUBSLAB						
				SUBSLAB	SYSTEN		S : cfm = 0.0			
	OMETER:	l and collapsin		SUBSLAB	SYSTEN		S : <u>cfm = 0.0</u>)5 x fpm (3"	PVC)	
 MAN0	OMETER:	ir		SUBSLAB we LOW (fpm): LOW (cfm):	SYSTEN		S: _cfm = 0.0	95 x fpm (3"	PVC)	
 MANG	OMETER:	ir		SUBSLAB we LOW (fpm): LOW (cfm):	SYSTEN		S : <u>cfm = 0.0</u>)5 x fpm (3"	PVC)	
 MAN0	OMETER: Inlet)	ir	I. WC Fi Fi ACUUM GAUG	SUBSLAB we LOW (fpm): LOW (cfm):	SYSTEI	t NOTE				
MAN((Fan l	OMETER: Inlet)		I. WC Fi Fi ACUUM GAUG	SUBSLAB We LOW (fpm): LOW (cfm): E (in WC) E ANY OTHER SY	SYSTEI	t NOTE				
MAN((Fan l	OMETER: Inlet) 	ir	. WC FI ACUUM GAUG S & DESCRIBE	SUBSLAB We LOW (fpm): LOW (cfm): E (in WC) E ANY OTHER SY	SYSTEM eas	t NOTE		DN MR. C's	SITE	
MANG (Fan I	OMETER: Inlet) One Air S 		I. WC FI ACUUM GAUG S & DESCRIBE fitting has slow low drip leaks	SUBSLAB we LOW (fpm): LOW (cfm): E (in WC) E ANY OTHER SYN d drip leak.	SYSTEM	t NOTE	ERFORMED	DN MR. C's	SITE	
MANG (Fan I	OMETER: Inlet) 		I. WC FI ACUUM GAUG S & DESCRIBE fitting has slow low drip leaks	SUBSLAE we LOW (fpm): LOW (cfm): E (in WC) ANY OTHER SY drip leak. near EQ Tank. ned condensate	SYSTEM	t NOTE	ERFORMED	DN MR. C's	SITE	
MANG (Fan I	OMETER: Inlet) 		I. WC FI ACUUM GAUG S & DESCRIBE fitting has slow low drip leaks System - drained o	SUBSLAE we LOW (fpm): LOW (cfm): E (in WC) ANY OTHER SY drip leak. near EQ Tank. ned condensate	SYSTEM		ERFORMED	DN MR. C's	SITE	

	AGWAY	
Remarks:	Site is empty of materials and has been graded and graveled.	
Other Action	IS:	

MR. C's DRY CLEANERS SITE NYSDEC Site #9-15-157 OM&M: SITE INSPECTION FORM

		ec-16		ACT	IVITIES:	Site Inspect	tion				
INSPECT	ION PERSO	NNEL:	R. Alle	n		_OTHER PERS	ONNEL:				
WEATHE		NS: <u>Cloud</u>	dy, cool					OUTSIDE	TEMPER	ATURE (° F):
ARE WEL	L PUMPS C	PERATING I	N AUTO:	YES:		NO:	√	if "NO", prov	/ide expla	nation belo	w
-	W-/ IS OFF	due to main	tenance pro	biem							
			PR	OVIDE WA	TER LEV	EL READINGS	ON CONTROL P	PANEL			
RW- 1	ON:	√ oi	FF:	5	ft	PW-5	ON:	OFF:		5	_ft
PW-2	ON:	0	FF: <u>/</u>	3	ft	PW-6	ON:	OFF:		5	ft
PW-3	ON:	0	FF:	6	ft	PW-7	on:√	OFF:		13	ft
PW-4	ON:	√ oi	FF:	3	ft	PW-8	ON:	OFF:		7	ft
		EQUALIZAT	ION TANK:	3	ft	Last	Alarm D/T/Conditi	on: <u>12/5/16</u> PW-	2 Overload	d	
~	NOTES:										
INFLUE		ATE:		10	gpm			ING1	2,791,6	14	gallons
000										7	
SEQ	UESTERING	GAGENT DRU	JM LEVEL:	4	inches	(x 1.7	=) AMOUNT (OF AGENT REM	AINING: _	/	_gallons
						(x 1.7		DF AGENT REM	-		_gallons _psi
SE:	QUESTERIN		EED RATE:		ml/min Top	Bottom	METER	NG PUMP PRE			_
SE	QUESTERIN BAG FILTER	IG AGENT FE	EED RATE:		ml/min Top 0	Bottom 0 psi	METER	NG PUMP PRE	SSURE: _	4.0 Bottom 0	psi
SE 	QUESTERIN BAG FILTEF	IG AGENT FE	EED RATE: S: #1	LEFT: 	ml/min Top 0 #2	Bottom 0 psi	METER	NNG PUMP PRE	SSURE:	4.0 Bottom 0 7	psi psi psi psi
SE INFLUE	QUESTERIN BAG FILTEF ENT FEED P	IG AGENT FE	EED RATE: S: #1 EE: #1	LEFT: √	ml/min Top 0 #2	Bottom psi / /	METER RIGHT	PRESSURE:	SSURE: Top 7 4	4.0 Bottom 0 7 1.0	psi psi psi psi
SE INFLUE	QUESTERIN BAG FILTER ENT FEED P TRIPPER BL	IG AGENT FE	EED RATE: S: #1 E: #1 ESSURE:		ml/min Top 0 #2 #2 ken	Bottom 0 psi 2 / 2 / 2 / 2 /	METER RIGHT NFLUENT PUMF	PRESSURE:	SSURE: Top 7 4	4.0 Bottom 0 7 1.0	psi psi psi psi
SE INFLUE AIR ST AIR STRIF AIR FLOW	QUESTERIN BAG FILTER ENT FEED P TRIPPER BL PPER DIFFE	IG AGENT FE	EED RATE: S: #1 EE: #1 ESSURE: X 1.4 =		ml/min Top 0 #2 #2 ken 1260	Bottom 0 psi 2 / 2 in. H ₂ O 0 CFM	METER RIGHT NFLUENT PUMF AIR STRIPPER DISCHARGE	PRESSURE:	SSURE: Top 7 4	4.0 Bottom 0 7 1.0 .30	psi psi psi in. H ₂ O in. H ₂ O
SE INFLUE AIR ST AIR STRIF AIR FLOW EFFLUEN	QUESTERIN BAG FILTEF ENT FEED P TRIPPER BL PPER DIFFE V :	IG AGENT FE R PRESSURE UMP IN USE: OWER IN US RENTIAL PR 900 fpm USE:	EED RATE: S: #1 EE: #1 EESSURE: X 1.4 = #1 	LEFT: 	mi/min Top 0 #2 #2 ken 1260 √	Bottom 0 psi 2 2 2 in. H ₂ O 0 CFM EFFLUE	METER RIGHT NFLUENT PUMF	PRESSURE:	SSURE:	4.0 Bottom 0 7 1.0 .30	psi psi psi in. H ₂ O in. H ₂ O
SE INFLUE AIR ST AIR STRIF AIR FLOW EFFLUEN EFFLUE	QUESTERIN BAG FILTEF ENT FEED P TRIPPER BL PPER DIFFE V : IT PUMP IN NT FLOW R	IG AGENT FE R PRESSURE UMP IN USE: OWER IN US RENTIAL PR 900 fpm USE:	ED RATE: S: #1 E: #1 ESSURE: X 1.4 = #1 gpm	LEFT: 	mi/min Top 0 #2 #2 ken 1260 √	Bottom 0 psi 2 / 2	METER RIGHT NFLUENT PUMF AIR STRIPPER DISCHARGE	PRESSURE: PRESSURE: PRESSURE: PRESSURE: PRESSURE: PRESSURE: 81,503,586	SSURE:	4.0 Bottom 0 7 1.0 .30 10 12672	psi psi psi in. H ₂ O in. H ₂ O
SEA INFLUE INFLUE AIR STRIF AIR STRIF AIR FLOM EFFLUEN EFFLUEN ARE BUIL	QUESTERIN BAG FILTER ENT FEED P TRIPPER DIFFE V : IT PUMP IN NT FLOW R LDING HEAT	IG AGENT FE R PRESSURE UMP IN USE: OWER IN US RENTIAL PR 900 fpm USE: ATE: 140	ED RATE: #1 E: #1 ESSURE: X 1.4 = #1 gpm ? YES:	LEFT: 	ml/min Top 0 #2 #2 ken 1260 √ FLUENT NO:	Bottom 0 psi 2 / 2 _	METER RIGHT NFLUENT PUMF AIR STRIPPER DISCHARGE	PRESSURE:	SSURE:	4.0 Bottom 0 7 1.0 .30 10 12672	psi psi psi in. H ₂ O in. H ₂ O in. H ₂ O psi gallons 67

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

		Sample ID	Time of Sampling		рН	Turbidity	Temp.	Sp. Cond.	
AIR STRIPPE	R INFLUENT:	INF	2:30 PM		7.50	4.74	13.3	1903	
AIR STRIPPER	EFFLUENT:	EFF	2:30 PM		8.52	3.22	13.9	1979	
IS THERE EVI	DENCE OF TAMPI	ERING/VANDALISI	M OF WELLS: ?	YES:		NO:	<u> </u>		
		WERE MANHOLE	S INSPECTED?	YES:	<u> </u>	NO:			
	WERE EI	LECTRICAL BOXE	S INSPECTED?	YES:	٦	NO:			
IS WATER PRES	ENT IN ANY MANH	IOLES OR ELECTI	RICAL BOXES?	YES:		NO:			J
	• •	anhole/electric box	(ID and description of	any correc	ctive meas	ures below:			
·	• •		ID and description of		ctive meas				
·	• •	SU		EM			< fpm (3" P\		
Z-4D inner ring is corroc	ied and collapsing.	SU vc FLOW (JBSLAB SYST west (fpm):	EM			< fpm (3" P\	/C)	·
2-4D inner ring is corroc	ied and collapsing.	SU vc FLOW (FLOW (JBSLAB SYST west (fpm):	EM			< fpm (3" P\	/C)	·
2-4D inner ring is corroc MANOMETER: (Fan Inlet)	<u>led and collapsing.</u>	SU VC FLOW (FLOW (SUUM GAUGE (in V	UBSLAB SYST west (fpm): (cfm): WC)	east	NOTES:				
2-4D inner ring is corroc MANOMETER: (Fan Iniet)	<u>1.5</u> in. VAC	SU VC FLOW (FLOW (SUUM GAUGE (in V <i>B DESCRIBE ANY</i>	UBSLAB SYST west (fpm):	east	NOTES:				· · · · · · · · · · · · · · · · · · ·
2-4D inner ring is corroc MANOMETER: (Fan Inlet) 	<u>1.5</u> in. V <u>UDE REMARKS &</u>	SU FLOW (FLOW (UUM GAUGE (in V <i>DESCRIBE ANY</i> ng has slow drip le	JBSLAB SYST west (fpm): (cfm): WC) OTHER SYSTEM MA leak.	east	NOTES:				
2-4D inner ring is corroc MANOMETER: (Fan Iniet) [temarks: One Ai Effluen	<u>1.5</u> in. V <u>UDE REMARKS &</u> r Stripper float fitti t Pipe has (2) slow	SU FLOW (FLOW (CUUM GAUGE (in W CUUM GAUGE (in W) CUUM GAUGE (in W CUUM GAUGE (in W) CUUM GAUGE (in W)	JBSLAB SYST west (fpm): (cfm): WC) OTHER SYSTEM MA leak. EQ Tank.	east	NOTES:				
2-4D inner ring is corroc MANOMETER: (Fan Inlet) 	<u>1.5</u> in. V <u>UDE REMARKS &</u> r Stripper float fitti t Pipe has (2) slow	SU FLOW (FLOW (CUUM GAUGE (in W CUUM GAUGE (in W) CUUM GAUGE (in W CUUM GAUGE (in W) CUUM GAUGE (in W)	JBSLAB SYST west (fpm): (cfm): WC) OTHER SYSTEM MA leak. EQ Tank.	east	NOTES:				

	AGWAY
Remarks:	Site is empty of materials and has been graded and graveled.
Other Actions	•

Page 2 of 6

Mr. C's CLEANERS OM&M

SUMMARY OF FIELD ACTIVITIES BY IEG - 11/2016

DATE	ΑCΤΙVΙΤΥ
1-Nov	Change Bag Filters. Get Supplies.
2-Nov	End of month summaries. OM&M office work.
7-Nov	OM&M Weekly Inspection. Inspect and drain SVE Systems as needed. Instal larger SVE condensate jug. Sweep Library Parking Lot around well groups. Cut debris trench around Library Parking Lot.
10-Nov	PW-5 - inspect, clean and test. Get Supplies.
11-Nov	PW-7 - inspect, clean and test. Sweep Library Parking Lot around well groups.
14-Nov	OM&M Weekly Inspection. Inspect and drain SVE Systems as needed.
16-Nov	Inspect and drain SVE systems as needed. Change bag filters.
18-Nov	Check system
21-Nov	OM&M Weekly Inspection. Inspect and drain SVE Systems as needed.
22-Nov	Piezometer Readings.
26-Nov	Check system
28-Nov	OM&M Weekly Inspection. Inspect and drain SVE Systems as needed.
30-Nov	Piezometer Readings.

Mr. C's CLEANERS OM&M STATUS OF FIELD ACTIVITIES BY IEG - 11/2016

ACTIVITY	DESCRIPTION	COMPLETION DATE/STATUS
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.	Sep-16
Inspect and clean Manholes	Inspect manholes near operating pumps. Pump out water in manholes and clean out remaining sediment and other material.	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
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 and patch as needed (short term). Replace housings (long term).	in progress
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 Leaking Ball Valve	Influent ball valve east of EQ Tank drips. Inspect/clean & replace if necessary.	in progress
PZ-1B has damage	PZ-2B has surface concrete damage from severe winter conditions this year. Repair chipped concrete with epoxy material.	Sep-16
Redux usage rapidly increased	The rate of Redux usage increased rapidly during the past several months despite turning the Jesco Pump settings to their lowest levels. Clean pump and test. Adjust clamps on Redux line. Replace pump if necessary.	in progress
Reduce Influent Pump Rate	Lab Tests have shown high levels of VOCs. Try lengthening the time that the Influent Pump runs to increase the Air Sparging time inside the Air Stripper	in progress
Add Air Sparging System	Lab Tests have shown high levels of VOCs. Try adding an Air Sparging system to the sump box of the Air Stripper to increase the treatment of the effluent.	in progress
South Wall should be sealed	South Wall of Treatment Room has leaked into the neighboring unit several times when there have been water related problems. Trim wall insullation matting to reduce moisture retension. Seal base of wall with silicone caulking.	in progress
SVE Fan pipe collects water	The SVE Fan pipe on Building 586 collects water. There is a plug just below the fan to drain water out of the horizontal section of the pipe. Inspect system and make corrections to prevent the pipe from filling with water.	in progress
Repair PZ-4B	Inner ring of piezometer was severely damaged by Town's snowplow truck. Talked to Town - they will address problem in Spring. Inner ring must be replaced.	Oct-16
EE-4 Paved Over	During the Aug 2016 paving of the north half of the parking lot, Piezometer EE-4 was covered. Locate piezometer and remove asphalt to expose it.	in progress
Product in PZ-7D	During Winter 2016 Piezometer Readings product was found in PZ-7D. Remove product to prevent spread.	in progress
PZ-6A and PZ-6B have concrete damage	PZ-6A and PZ-6B have concrete damage from snowplowing. Repair damaged concrete with epoxy material.	Sep-16
nstal Liquid Containment Trench	Southeast section of Treatment Room experienced several water leaks in the past. A shallow trench should be cut into floor slab to direct slow leaks into sump box.	Oct-16
Air Stripper Leaks	Air Stripper leaked at several places when system was restarted. The unit is corroded in many areas. Find and seal leaks in corroded metal with epoxy. Seal leaks around rubber gaskets with caulk.	Oct-16
PW-4 Transducer does not read accurately	PanelView level for this well is not accurate. Inspect well to find and repair the problem with the transducer and / or wiring.	Oct-16
PZ-4D Inner Ring is corroded through	The inner ring of this piezometer is corroded through causing the box to slowly collapse. Replace the road box of this piezometer.	in progress
PW-2, PW-3 and PW-4 inspections	These well pumps were due for an inspection and cleaning. Pull well pumps up and clean transducers and pumps. Purge vertical pipes as needed.	Oct-16
PW-5 and PW-7 inspections	These well pumps were due for an inspection and cleaning. Pull well pumps up and clean transducers and pumps. Purge vertical pipes as needed.	Nov-16
PanelView False Alarm Record	The PanelView constantly records PW-2 OVERLOAD. The well pump runs fine and the Alarm Light on the Main Control Panel does not come on. Reset PanelView to correct for this constant record.	in progress

Mr. C's CLEANERS OM&M SUMMARY OF WATER PUMP MAINTENANCE BY IEG - 2016

as of Nov 2016

as ULINUV ZUTO	ELECTRICAL BOX REPAIR		Sep-09		Sep-09		Jul 09, Sep 09		Apr-13
	CLEAN OUT & INSPECT ELECTRICAL BOX		Nov-11	Nov 11, Sep 15	Sep 09, Nov 11, Oct 16	Jan-12	Aug 09, Sep 09, Sep 15		Apr 13, Aug 15
	REPLACE ANEROID BELLOWS				Oct 16		Aug 15		Aug 15
	PIEZOMETER S	PZ-1B repaired Sep 16			PZ-4B replaced Sep 16		PZ-6A, PZ-6C repaired Sep 16		
	PUMP OUT WELL		Aug-09	Aug-09	Jul 09, Sep 09		Aug-09	Aug 09, May 10, Aug 11	Aug 09, May 10, Aug 11
	REPLACE TRANSDUCE R		Sep 09, Dec 11	Dec 11, Sep 15	Dec 11, Mar 08, Sep 08	Jan 12, Sep 08	Sep 09, Sep 15		
	CLEAN & INSPECT TRANSDUCER	May 10, Jan 12, Oct 15	Nov 11, May 10, Apr 13 Dec 15, Oct 16	Aug 09, Nov 11, Oct 15, Oct 16	May 10, Nov 11, Oct 15, Oct 16	Mar 11, Oct 15, Nov 16	Aug 09, Jul 12, Dec 12, Apr 13, Aug 15	Oct 10, Aug 11, Mar 12, Jul 12, Dec 12, Aug 15, Nov 16	May 10, Aug 11, Jul 12, Dec 12, Apr 13, Aug 15
	CHECK VALVE						Aug 15	Aug 15	Aug 15
	INNER HORIZONTAL RING PIPE		Sep-15	Sep-15	Oct-16	Nav-16	Jul 12, Nov 12, Sep 15	Jul 12, Nov 12, Nov 16	Pipe 8/09, Jul 12, Sep 15
					Aug 13				
	PITLESS Adapter			Repair adapter			Replaced Aug 15	Replaced Aug 15	Replaced Aug 15
	REPAIR PUMP	May 10, Nov 08			Sep-13				
	REPLACED PUMP	Feb 08, Jan 12	Jul 08, Apr 13 Dec 15	Jul 08, Dec 11, Oct 15	Dec 07, Jan 12	Jul 08, Jan 12	Jun 08, Jul 09, Aug 12, Nov 12, Sep 15	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, Oct 15	Jun 08, Aug 09, May 10, Apr 13, Sep 15, Oct 16	Jun 08, Aug 09, May 10, Sep 15, Oct 16	Dec 07, May 08, Sep 09, May 10, Jan 12, Oct 15, Oct 16	Jan 12, May 08, Oct 15, Nov 16	Jun 08, Jul 09, Jul 12, Nov 12, Aug 15	Jun 08, Jul 09, May 10, Oct 10, Aug 11, Mar 12, Jul 12, Nov 12, Aug 15, Nov 11	Jun 08, Aug 09, May 10, Aug 11, Jul 12, Dec 12, Aug 15
	Q	RW - 1	PW - 2	PW - 3	PW - 4	PW - 5	PW - 6	7 - Wd	PW - 8

as of Nov 2016

SUMMARY OF WATER PUMP STATUS - 2016

Mr. C's CLEANERS OM&M

NEEDS U.E. YES -Asphalt REPAIR DONE YES -bolts YES -bolts patch g g g ð NEEDS U.E. CLEANE D g ð g g g g g g NEEDS BELLOWS g g g g g 2 NEEDS NEW TRANSDUCE g Q g g Q g g ۲ NEEDS TRANSDUCE R INSPECTION g 8 g g 92 g g g INSPECTION NEEDS CHECK VALVE NEEDS HORIZONTAL LINE PURGE g g g g g PITLESS ADAPTER NEEDS WELL CLEAN-OUT YES 0 N g g Î NEEDS P.A. Or PIPE NEEDS NEW INNER RING PZ-1B g g g g g g g NEED S NEW PUMP g g g g g 8 g NEEDS CLEANING & INSPECTION YES YES YES YES g 8 g g **RW-1** PW-2 PW-3 PW-5 PW-6 PW-7 PW-8 PW4 ≙

<u>Attachment B</u> Analytical Report from Spectrum Analytical Laboratories

Analytical Data Package Work Order ID: R1104 Sampled by IEG: December 5, 2016

Client: Ecology and Environment Engineering P.C. Client Sample ID: INFLUENT Lab ID: R1104-01

Project: Mr. C's Dry Cleaning Collection Date: 12/05/2016 15:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8260C VOC by GC-MS				SW8260_W
Dichlorodifluoromethane	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Chloromethane	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Vinyl chloride	14	4.0 ug/L	4 12/07/2016 21:30	85927
Bromomethane	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Chloroethane	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Trichlorofluoromethane	ND	4.0 ug/L	4 12/07/2016 21:30	85927
1,1-Dichloroethene	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Acetone	ND	20 ug/L	4 12/07/2016 21:30	85927
Carbon disulfide	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Methylene chloride	ND	4.0 ug/L	4 12/07/2016 21:30	85927
trans-1,2-Dichloroethene	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Methyl tert-butyl ether	ND	4.0 ug/L	4 12/07/2016 21:30	85927
1,1-Dichloroethane	ND	4.0 ug/L	4 12/07/2016 21:30	85927
2-Butanone	ND	20 ug/L	4 12/07/2016 21:30	85927
cis-1,2-Dichloroethene	210	4.0 ug/L	4 12/07/2016 21:30	85927
Chloroform	ND	4.0 ug/L	4 12/07/2016 21:30	85927
1,1,1-Trichloroethane	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Carbon tetrachloride	ND	4.0 ug/L	4 12/07/2016 21:30	85927
1,2-Dichloroethane	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Benzene	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Trichloroethene	46	4.0 ug/L	4 12/07/2016 21:30	85927
1,2-Dichloropropane	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Bromodichloromethane	ND	4.0 ug/L	4 12/07/2016 21:30	85927
cis-1,3-Dichloropropene	ND	4.0 ug/L	4 12/07/2016 21:30	85927
4-Methyl-2-pentanone	ND	20 ug/L	4 12/07/2016 21:30	85927
Toluene	ND	4.0 ug/L	4 12/07/2016 21:30	85927
trans-1,3-Dichloropropene	ND	4.0 ug/L	4 12/07/2016 21:30	85927
1,1,2-Trichloroethane	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Tetrachloroethene	310	4.0 ug/L	4 12/07/2016 21:30	85927
2-Hexanone	ND	20 ug/L	4 12/07/2016 21:30	85927
Dibromochloromethane	ND	4.0 ug/L	4 12/07/2016 21:30	85927
1,2-Dibromoethane	ND	4.0 ug/L.	4 12/07/2016 21:30	85927
Chlorobenzene	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Ethylbenzene	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Xylene (Total)	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Styrene	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Bromoform	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Isopropylbenzene	ND	4.0 ug/L	4 12/07/2016 21:30	85927

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation 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

12/08/2016

Client: Ecology and Environment Engineering P.C. Client Sample ID: INFLUENT Lab ID: R1104-01

Project: Mr. C's Dry Cleaning Collection Date: 12/05/2016 15:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8260C VOC by GC-MS				SW8260_W
1,1,2,2-Tetrachloroethane	ND	4.0 ug/L	4 12/07/2016 21:30	85927
1,3-Dichlorobenzene	ND	4.0 ug/L	4 12/07/2016 21:30	85927
1,4-Dichlorobenzene	ND	4.0 ug/L	4 12/07/2016 21:30	85927
1,2-Dichlorobenzene	ND	4.0 ug/L	4 12/07/2016 21:30	85927
1,2-Dibromo-3-chloropropane	ND	4.0 ug/L	4 12/07/2016 21:30	85927
1,2,4-Trichlorobenzene	ND	4.0 ug/L	4 12/07/2016 21:30	85927
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Cyclohexane	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Methyl acetate	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Methylcyclohexane	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Surrogate: Dibromofluoromethane	103	85-115 %REC	4 12/07/2016 21:30	85927
Surrogate: 1,2-Dichloroethane-d4	103	70-120 %REC	4 12/07/2016 21:30	85927
Surrogate: Toluene-d8	96.9	85-120 %REC	4 12/07/2016 21:30	85927
Surrogate: Bromofluorobenzene	94.0	75-120 %REC	412/07/2016 21:30	85927

Qualifiers: N

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation 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

12/08/2016

Client: Ecology and Environment Engineering P.C. Client Sample ID: EFFLUENT Lab ID: R1104-02

Project: Mr. C's Dry Cleaning Collection Date: 12/05/2016 15:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8260C VOC by GC-MS				SW8260_W
Dichlorodifluoromethane	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Chloromethane	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Vinyl chloride	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Bromomethane	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Chloroethane	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Trichlorofluoromethane	ND	1.0 ug/L	1 12/07/2016 19:26	85927
1,1-Dichloroethene	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Acetone	ND	5.0 ug/L	1 12/07/2016 19:26	85927
Carbon disulfide	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Methylene chloride	ND	1.0 ug/L	1 12/07/2016 19:26	85927
trans-1,2-Dichloroethene	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Methyl tert-butyl ether	ND	1.0 ug/L	1 12/07/2016 19:26	85927
1,1-Dichloroethane	ND	1.0 ug/L	1 12/07/2016 19:26	85927
2-Butanone	ND	5.0 ug/L	1 12/07/2016 19:26	85927
cis-1,2-Dichloroethene	2.2	1.0 ug/L	1 12/07/2016 19:26	85927
Chloroform	ND	1.0 ug/L	1 12/07/2016 19:26	85927
1,1,1-Trichloroethane	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Carbon tetrachloride	ND	1.0 ug/L	1 12/07/2016 19:26	85927
1,2-Dichloroethane	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Benzene	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Trichloroethene	ND	1.0 ug/L	1 12/07/2016 19:26	85927
1,2-Dichloropropane	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Bromodichloromethane	ND	1.0 ug/L	1 12/07/2016 19:26	85927
cis-1,3-Dichloropropene	ND	1.0 ug/L	1 12/07/2016 19:26	85927
4-Methyl-2-pentanone	ND	5.0 ug/L	1 12/07/2016 19:26	85927
Toluene	ND	1.0 ug/L	1 12/07/2016 19:26	85927
trans-1,3-Dichloropropene	ND	1.0 ug/L	1 12/07/2016 19:26	85927
1,1,2-Trichloroethane	ND ND	1.0 ug/L	1 12/07/2016 19:26	85927
Tetrachloroethene	1.9	1.0 ug/L	1 12/07/2016 19:26	85927
2-Hexanone	ND	5.0 ug/L	1 12/07/2016 19:26	85927
Dibromochloromethane	ND	1.0 ug/L	1 12/07/2016 19:26	85927
1,2-Dibromoethane	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Chlorobenzene	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Ethylbenzene	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Xylene (Total)	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Styrene	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Bromoform	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Isopropyibenzene	ND	1.0 ug/L	1 12/07/2016 19:26	85927

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation 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

Client:Ecology and Environment Engineering P.C.Client Sample ID:EFFLUENTLab ID:R1104-02

Project:Mr. C's Dry CleaningCollection Date:12/05/2016 15:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8260C VOC by GC-MS				SW8260_W
1,1,2,2-Tetrachloroethane	ND	1.0 ug/L	1 12/07/2016 19:26	85927
1,3-Dichlorobenzene	ND	1.0 ug/L	1 12/07/2016 19:26	85927
1,4-Dichlorobenzene	ND	1.0 ug/L	1 12/07/2016 19:26	85927
1,2-Dichlorobenzene	ND	1.0 ug/L	1 12/07/2016 19:26	85927
1,2-Dibromo-3-chloropropane	ND	1.0 ug/L	1 12/07/2016 19:26	85927
1,2,4-Trichlorobenzene	ND	1.0 ug/L	1 12/07/2016 19:26	85927
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Cyclohexane	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Methyl acetate	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Methylcyclohexane	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Surrogate: Dibromofluoromethane	98.9	85-115 %REC	1 12/07/2016 19:26	85927
Surrogate: 1,2-Dichloroethane-d4	97.6	70-120 %REC	1 12/07/2016 19:26	85927
Surrogate: Toluene-d8	101	85-120 %REC	1 12/07/2016 19:26	85927
Surrogate: Bromofluorobenzene	97.4	75-120 %REC	1 12/07/2016 19:26	85927

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation 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

pН

The pH value was measured at the temperature of

Client: Ecology and Environment Engineering P.C. Project: Mr. C's Dry Cleaning Client Sample ID: INFLUENT D Analys

7.9

20

Qualifiers:

J - Analyte detected below quanititation 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

SM 4500 H+ B pH VALUE				SM4500_H+
Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
Lab ID: R1104-01	Collec	tion Date: 12/05/20	016 15:00	

1.0 S.U.

С

12/08/2016

R97222

R97222

1 12/06/2016 10:10

1 12/06/2016 10:10

ND - Not Detected at the Reporting Limit

Client:	Ecology and Environment Engineering P.C.	
Client Sample ID:	EFFLUENT	
Lab ID:	R1104-02	Collect

Project: Mr. C's Dry Cleaning Collection Date: 12/05/2016 15:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SM 4500 H+ B pH VALUE				SM4500_H+
pH	8.1	1.0 S.U.	1 12/06/2016 10:13	R97222
The pH value was measured at the temperature of	20	С	1 12/06/2016 10:13	R97222

Qualifiers:	ND -	Not	Detect

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation 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

Analyses		Result Qual	KE Childs	<i>D1 D400</i> 111111, 100	Dutth 1D
		Pogult Qual	RL Units	DF Date Analyzed	Batch ID
Lab ID:	R1104-01	Collecti	on Date: 12/05/2010	5 15:00	
Client Sample ID:	INFLUENT		Project: Mr. C's Dr	y Cleaning	
Client:	<i></i>	-			

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation 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

Client: Ecology and Environment Engineering P.C. Client Sample ID: EFFLUENT Lab ID: R1104-02

Project: Mr. C's Dry Cleaning Collection Date: 12/05/2016 15:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SM 2340B HARDNESS by Calculation				SM2340_W
Hardness, Ca/Mg (As CaCO3)	360	4.0 mg/L CaCO3	1 12/07/2016 11:29	85920

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation 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

<u>Attachment C</u> Summary of Site Utility Costs and Projections January to December 2016

$ \begin{split} WINDSEE Work Assignment FOC-SUTA for (17) $	Mr. C's Dry Clear	ars Site - Re	medial Treatme	nt I Itility Costs									INFAIT C
$ = \frac{1}{10000000000000000000000000000000000$	NYSDEC Work A	ssignment #1	0C3074.0011.07						Utility Bud		Flectric:	\$25.300.00	
1 - 1 - 2016 Report - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	12 Months of Sys	stem Operatic	on and Maintena	ince		A A A A MUCH AND A A A A A A A A A A A A A A A A A A					Telephone:	\$540.00	
$ \frac{1}{10000000000000000000000000000000000$	November 2016	Report									Gas	\$1,120.00	
$ \begin{array}{ $	Gas, Telephone, and I	Electric	E&E Cost Center	Description	lan_2016	Eah.2016	Mar_2016	Anr-2016	Mav-2016	1.00-2016	Total:	\$26,960.00	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Mouri Varte Stata EP.C	11001 0310 122	EN 003270 0001 03TTO	Mr. C'a Flactria Carta	647 60	4 7 0	10190						
Holdsolp Succession Anomenia	New York State E&G	76-311-11-015900-18	0-100-00-077000-01		BC: 110		C6.002						
	National Fuel Gas	5819628-05	EN-003229-0001-03TTO	Mr. C's Natural Gas Costs	68.33		58.82						
				Totals	645.92	ليص	324.77			s			
					Jul-2016	Aug-2016	Sep-2016	Oct-2016	Nov-2016	Dec-2016			Ave. /Month
$ \begin{array}{ $				Mr. C's Electric Costs	175.96		198.23					\$ <u></u>	401.00
$ = \frac{1}{10} = \frac{1}{1$				Mr. C's Natural Gas Costs	17	21.09	20.79					••	29.17
	1			Totals			219.02					\$	430.16
$ \ \ \ \ \ \ \ \ \ \ \ \ \ $				Electric - Mr. C's		\$4,410.97							
$ \ \ \ \ \ \ \ \ \ \ \ \ \ $				Natural Gas - Mr. C's	\$	291.67			Overbilled natu	ral gas costs - no	charges		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		Grand	Total - NYSE&G/Nation	al Fuel Gas Costs To Date	\$	4,702.64			Estimated Rea	ding		in red -adjusted bi	ling
$ \ \ \ \ \ \ \ \ \ \ \ \ \ $	Phone												
	Utility Provider	Phone #	E&E Cost Center	Location Description	Jan-2016	Feb-2016	Mar-2016	Apr-2016	May-2016	Jun-2016			
$ \left(\begin{array}{c c c c c c c c c c c c c c c c c c c $	Verizon	716-652-0094	EN-003229-0001-03TTO	Mr. C's Telephone Costs	36.01	36.16	36.16			\$			
Outcoti Juitoti (Account #												
$ \begin{array}{ c c c c } \hline \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	716 652 0094 416 26 2												
1 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.32 36.					Jul-2016	Aug-2016	Sep-2016	Oct-2016	Nov-2016	Dec-2016			Ave./Month
			EN-003229-0001-03TTO		37.23	38.32						5	37.16
• •			Veri	zon Costs to Date - Mr. C's	\$	297.31							
φ													
		3	Grand Total A	II Utilities To Date	\$	4,999.95							
						-							
	r												
										-			
		-											

Percentage Capacity Comments: 0.00% 0.00% System Shutdown 0.00% 11.4% Clear- warm 0.00% 11.4% Clear- colder 0.00% 11.4% Image of the seconder 0.00% 11.4% Image of the seconder 0.00% 11.4% Image of the seconder	Mr. C's Dry Cleaners Site - Remedial Treatment Utility Costs NYSDEC Work Assignment #11 NYSDEC Work Assignment #11 12 Months of System Operation and Maintenance November 2016 Report Nation of System Operating Hours Up-time Percentage November 2016 Report Up-time Percentage Nation of System Operating Hours Up-time Percentage November 2016 Report Up-time Percentage March-16 672 612 100 00% March-16 672 612 100 00% March-16 0 0 0000% Musch-16 0 0 0000% <	tien tien tien tien tien tien tien tien
Jp-time Percentage Jp.000% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 100.00% #DIVI0!	Actual Operating Hours Up-time 672 0 0 672 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <	Operation and Maintenance Pport Actual Operating Hours Up-time 0 ptimum Operating Actual Operating Hours 0 672 672 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

ecology and environment engineering, p.c.



January 5, 2017

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 # 915157 December 2016 Operations, Maintenance, and Monitoring Report

Dear Mr. Welling:

Ecology and Environment Engineering, P.C. (EEEPC) is pleased to provide the November 2016 Operations, Maintenance, and Monitoring (OM&M) Report for the Mr. C's Dry Cleaners Site, NYSDEC Site # 915157, located in the Village of East Aurora, New York. A summary of field activities prepared by EEEPC's subcontractor, IYER Environmental Group, PLLC (IEG), is provided in <u>Attachment A</u>. The treatment system was re-actived as a result of the recommendations of the Remedial Site Optimization (RSO) plan in October 2016. Selected pages from the individual analytical data package prepared by Spectrum Analytical Inc. (SAI), Warwick, Rhode Island are provided as <u>Attachment B</u>. The site utility information is provided in <u>Attachment C</u>.

Per your request, the Mr. C's treatment system has been shutdown since February 4, 2016. The revised RSO was submitted September 23, 2016. Per our conversations, restart of the treatment system was restarted October 6, 2016. IEG performed review the pumping systems and the treatment operations before startup. As a result of the final RSO document, a proposed pulsing plan was submitted to NYSDEC on October 31, 2016. The proposed pulsing plan was revised and resubmitted after NYSDEC comments on November 23, 2016. The plan was approved by NYSDEC on December 6, 2016. The written plan was developed to optimize the system through a schedule phased and pulsed operations to confirm that asymptotic groundwater conditions have been met in accordance with the DER 10 requirements to support treatment system shutdown. The pulsed-pumping work plan was initialized in the field in December.

Influent/effluent samples were taken on December 5, 2016. Monthly water depth measurements are taken at the site's groundwater monitoring wells, piezometers, and pumping wells during December 2016 by IEG (Attachment A).

Groundwater sampling was performed by EEEPC from April 25-May 2, 2016 to evaluate the potential for rebound of the volatile organic compounds around the Mr. C's site. The 2016 Groundwater Report was issued on June 16, 2016.

Mr. William Welling, Project Manager January 5, 2017 Page 2 of 4

In review of the on-site treatment system operations, monitoring and maintenance for December 2016, EEEPC offers the following comments and highlights:

Operational Summary

- The monthly checklists for system inspections from IEG are provided as Attachment A for 12/5/16, 12/19/16, and 1/3/17.
- Based on inspection reports prepared by IEG, the remedial treatment system for the period above had a 100% operational up-time (Table 1) and the treatment of contaminated groundwater during that period totaling of 373,209 gallons (Table 1) for December 2016.
- The compliance samples were taken on December 5, 2016 (Attachment B) and the preliminary analytical results were received from SAI on December 8, 2016. The results indicated effluent discharges are in compliance with the SPDES Equivalency permit requirements. The results are provided in the Table 2.
- The analytical summary results of the December 2016 samples revealed the total volatile organic contaminant concentrations of the influent to be 580 μ g/L or 580 ppb. In review of the effluent concentrations the results were 4.10 μ g/L or 4.10 ppb. The summary of influent and effluent contaminant concentrations for the December 2016 sampling is presented in Table 1.
- The Mr. C's treatment system based on the total monthly flows removed 1.79 lbs. of targeted contaminants from the groundwater below the site in the month of December 2016 and the cleanup effectiveness was 99.3%. The calculations and data for the month are presented in Table 3.

Mr. C's Site – Remedial Operations and Maintenance Information

- The December 2016 summary of field activities performed between 12/5/2016 and 1/3/17 from IEG are provided as <u>Attachment A</u>.
- Drained the SSDS systems of condensate inside the Treatment building and the Country Cottage (586 Main Street, Suite 4). Condensate placed into the treatment system.
- Replaced the leading REDUX valve and line.

Subslab Depressurization Systems (SSDS).

- Property owner at 27 Whaley Ave. (David Dubois) has not returned EEEPC's calls for inspection of the SSDS unit. EEEPC will continue to contact to obtain access for inspection.
- Drained the condensate from the SSDS units from the Country Cottage (586 Main Street unit 4) and in Treatment Room unit.
- SSDS installation design at 31 Paine Street is currently in process.
- Discussion of new SSDS unit installation at 23 Paine Street is in progress. EEEPC needs to re-issue letter of determination of SSDS from NYSDOH to the new property owner. The new property owner of 23 Paine Street house as of November 2015 is David Dubois.

Mr. William Welling, Project Manager January 5, 2017 Page 3 of 4

Status of RSO and Pulsed Pumping Work Plan.

- Additional review of the recommendations in the summary report to be evaluated with the Remedial Site Optimization (RSO) program.
- The Final RSO was issued to NYSDEC on September 23, 2016.
- Revised Pulsing Plan issued on November 23, 2016 and approved on December 6, 2016.
- The startup of the pulsed-pumping work plan was initiated in December 2016. After the January sample is taken in early January, the system will be shut down for four weeks then restarted and sampled. Phased sampling will be performed according to Table 3-1 in the approved work plan.

Soil Vapor Intrusion Investigation Program (2017)

• Discuss new property locations with NYSDEC / NYSDOH for SVII work in 2017.

Site Management Plan

- EEEPC submitted the updated/revised SMP to NYSDEC and NYSDEC Region 9 on March 2, 2015.
- This is an active site document, so future revisions will be performed once major changes to the management of the site are required after optimization evaluation is performed.

Annual Long-term Groundwater Monitoring Well Report

• Review with the NYSDEC PM if another groundwater sampling / analytical for fall 2016 was necessary. This was discussed and will not be necessary to perform at this time.

Periodic Review Report (PRR)

• 2016 PRR being prepared for submittal in January 2017. 2016 Forms received from NYSDEC on November 18, 2016.

Mr. William Welling, Project Manager January 5, 2017 Page 4 of 4

If you have questions regarding the December 2016 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 Steffor

Michael G. Steffan Project Manager

cc: D. Szymanski, Region 9, NYSDEC - Buffalo w/ attachments D. Iyer, IEG – w/attachments CTF - 10C3074.0011.07

Table 1 Mr. C's Dry Cleaners Site Remediation Site #915157 System Operation and Management

	Up-t	Up-time			VOC Removal	
	Reporting	Operational	Treated Effluent	Influent VOCs	Effluent	VOCs Removed
Month	Hours	Up-time	(gallon)	(µg/L)	VOCs(µg/L)	(lbs.)
(Up-time from 9/5/02 to 01/04/16)	111,949.50	95.23%	128,814,819	NA	NA	1,614.16
January 4, 2016 - February 1, 2016	672	100.00%	305,578	692.0	0.0	1.76
February 1, 2016 - February 29, 2016	0	0.00%	0	0.0	0.0	0.00
March 1, 2016 - March 31, 2016	0	0.00%	0	0.0	0.0	0.00
April 1, 2016 - April 30, 2016	0	0.00%	0	0.0	0.0	0.00
April 31, 2016 - June 1, 2016	0	0.00%	0	0.0	0.0	0.00
June 1, 2016 - June 27, 2016	0	0.00%	0	0.0	0.0	0.00
June 27, 2016 - July 31, 2016	0	0.00%	0	0.0	0.0	0.00
July 31, 2016 - September 3, 2016	0	0.00%	0	0.0	0.0	0.00
September 3, 2016 - September 27, 2016	0	0.00%	0	0.0	0.0	0.00
October 6, 2016 - October 31, 2016	600	100.00%	259,917	498.0	12.2	1.05
October 31, 2016 - December 5, 2016	840	100.00%	447,513	580.0	4.1	2.15
December 5, 2016 - January 3, 2017	696	100.00%	373,209	580.0	4.1	1.79
Total in 2016	2,808.00	1.00	1,386,217	2,350.00	20.40	6.75

NOTES:

1,620.92

NA

ΝA

130,201,036.00

0.95

114,757.50

Total from startup

1. Up-time based as percentage of total reporting hours.

2. Treatment system operated by the Tyree Organization Ltd. from 9/02 - 9/03.

3. Treatment system operated by O&M Enterprises Inc. from 10/03 - 7/07.

4. Treatment system operated by Iyer Environmental Group from 7/07 to present.

5. VOC removal calculations are based on monthly water samples and assumes samples are representative of the entire reporting period.

VOC removal calculations assume that non-detect values = 0 ug/L.
 7.Total VOCs summations include estimated "J" values.

8. VOC removal calculations are based on effluent totalizer readings.

9."Influent VOCs" and "Effluent VOCs" values given above is the summation of values for individual compounds given in monthly analytical reports.

10. Unit conversion: 1 pound = 453.5924 grams, 1 gallon = 3.785 liters

11. Formula for the VOC removal calculation: *more transmission:*

(VOCs Influent - VOCs Effluent)(ug/L) ·(1g/10⁶ ug) ·(1 lb/453.5924 g) ·(Monthly process water)(gal) ·(3.785 L/gallon) 12. Using the 2/2/16 analytical results.

Table 2 Mr. C's Dry Cleaners Site Remediation Site #915157 Effluent Discharge Criteria & Analytical Compliance Results

			December - Effluent Analytical Values -
Parameter/Analyte	Daily Maximum ¹	Units	Compliance
Flow (Average)	N/A	gpd	12,869
pH	6.0 - 9.0	standard units	8.10
1,1 Dichloroethene	10	μg/L	ND
1,1 Dichloroethane	10	μg/L	ND
cis-1,2-dichloroethene	10	μg/L	2.20
Trichloroethene	10	μg/L	ND
Tetrachloroethene	10	μg/L	1.90
Vinyl Chloride	10	μg/L	ND
Benzene	5	_ μg/L	ND
Ethylbenzene	5	μg/L	ND
Methylene Chloride	10	μg/L	ND
1,1,1 Trichloroethane	10	μg/L	ND
Toluene	5	μg/L	ND
Methyl-t-Butyl Ether (MTBE)	NA	ug/L	ND
o-Xylene ²	5	μg/L	ND
m, p-Xylene ²	10	μg/L	ND
Total Xylenes	NA	ug/L	ND
Iron, total ⁹	600	μg/L	
Aluminum ⁹	4,000	μg/L	
Copper ⁹	48	μg/L	
Lead ⁹	11	μg/L	
Manganese ⁹	2,000	μg/L	
Silver ⁹	100	μg/L	
Vanadium ⁹	28	μg/L	
Zinc ⁹	230	μg/L	
Total Dissolved Solids ⁹	850	mg/L	
Total Suspended Solids ⁹	20	mg/L	
Hardness	N/A	mg/L	360
Cyanide, Free ⁹	10	μg/L	

NOTES:

1. "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: October 31 December 5, 2016 12,869 gallons per day.
- 7. "J" indicates 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.
- 10. "NS" indicates that the parameter analysis was not sampled.

40 Indicates non-compliance with the NYSDEC effluent discharge requirements NR Indicates Not Reported by Lab

Table 3 Mr. C's Dry Cleaners Site Remediation NYSDEC Site #915157 **December 2016 VOC Analytical Summary**

	Base	ed on the D	ecember Effl	uent Analy	tical Results
	Influ	ent	Efflu	ent	Cleanup
Compound	Concent	ration*	Concentra	ation**	Efficiency***
-	(ug/	L)	(ug/]	L)	(%)
Acetone	ND (<20)	U	ND (<5.0)	U	NA
Benzene	ND (<4.0)	U	ND (<1.0)	U	NA
2-Butanone	ND (<20)	U	ND (<5.0)	U	NA
cis-1, 2-Dichloroethene	210		2.2		99.00%
Chloroform	ND (<4.0)	U	ND (<1.0)	U	NA
Chloromethane	ND (<4.0)	U	ND (<1.0)	U	NA
Methylene chloride	ND (<4.0)	U	ND (<1.0)	U	NA
Methyl tert-butyl ether (MTBE)	ND (<4.0)	U	ND (<1.0)	U	NA
Methyl acetate	ND (<4.0)	U	ND (<1.0)	U	NA
Tetrachloroethene (PCE)	310		1.9		99.40%
Toluene	ND (<4.0)	U	ND (<1.0)	U	NA
Trichloroethene (TCE)	46.0		ND (<1.0)	U	100.00%
Carbon Disulfide	ND (<4.0)	U	ND (<1.0)	U	NA
1,1,2 Trichloro-1,2,2-trifluororethane	ND (<4.0)	U	ND (<1.0)	U	NA
2-Hexanone	ND (<20)	U	ND (<5.0)	U	NA
4-Methyl-2-pentanone	ND (<20)	U	ND (<5.0)	U	NA
Cyclohexane	ND (<4.0)	U	ND (<1.0)	U	NA
trans-1,2-dichloroethene	ND (<4.0)	U	ND (<1.0)	U	NA
Chlorobenzene	ND (<4.0)	U	ND (<1.0)	U	NA
Methylcyclohexane	ND (<4.0)	U	ND (<1.0)	U	NA
Ethylbenzene	ND (<4.0)	U	ND (<1.0)	U	NA
Methyl acetate	ND (<4.0)	U	ND (<1.0)	U	NA
Vinyl Chloride	14		ND (<1.0)	U	100.00%
Total Xylenes	ND (<4.0)	U	ND (<1.0)	U	NA
 The 1st progress monitoring 					
sampling of the groundwater wells					
associated with the "pilot"					
bioaugmentation program was					
performed on July 1-2, 2013.	580.0		4.10		99.30%

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.

4. Non-detect values are assumed to be equal to zero for calculation of monthly average concentrations.

5. "D" indicates the compound concentration was obtained form a secondary dilution analysis.

6. Acetone was not detected in the influent sample above the MDL but detected in the effluent sample. It is not a contaminant of concern for the Mr. C's site.

* Detection Limits (<10) and (<50)

** Detection Limits (<1) and (<5)

*** Contaminants of Concern only

<u>Attachment A</u> IEG Summary of Field Activities December 2016

12/5/16

12/19/16

1/3/17

*

MR. C's DRY CLEANERS SITE NYSDEC Site #9-15-157 OM&M: SITE INSPECTION FORM

DATE:	5-Dec-1	16	ACTIVITIES:	Site Inspection				
INSPEC	TION PERSONNEL	. R. Allen		_OTHER PERSON	NEL:E	& E, Inc		
WEATHI	ER CONDITIONS:	Cloudy, cool		····		OUTSIDE TEMPEI	RATURE (° F):	0
ARE WE	ELL PUMPS OPERA	ATING IN AUTO: o maintenance probl	YES:		,	"NO", provide expl	anation below	
		PROV	/IDE WATER LEV	EL READINGS ON	CONTROL PANEI			
RW-1	on:√	OFF:	5_ft	PW-5	ON:	off:	5_ft	
PW-2	ON:	OFF:√	<u>3</u> ft	PW-6	ON:	off:√	ft	
PW-3	ON:	off:√	<u>6</u> ft	PW-7	on:√	OFF:	<u>13</u> ft	
PW-4	on:√	OFF:	<u>3</u> ft	PW-8	ON:	off:√	ft	
	EQU, NOTES:	ALIZATION TANK:	<u>3</u> ft	Last Alar	m D/T/Condition: 1	2/5/16 PW-2 Overloa	ad	
SE	QUESTERING AGE	10	4inches ml/min	(x 1.7=)	AMOUNT OF AC		7 gallo	
	BAG FILTER PRE		•	Bottom 0 psi	RIGHT:	Тор 7		
INFLU	JENT FEED PUMP	IN USE: #1	#2	INFL	UENT PUMP PRE	SSURE:	7psi	
AIR S	STRIPPER BLOWE	R IN USE: #1	√#2	A	IR STRIPPER PRE	SSURE:	41.0 in. H ₂	₂O
		TIAL PRESSURE:		-	DISCHARGE PRE	SSURE:	0 .30 in. H ₂	₂O
AIR FLO		fpm X 1.4 =						
		#1 140 gpm		-			10 psi 126720 gallor	ons
	ILDING HEATERS		NO:				RATURE (° F):	67
ıs su	MP PUMP IN USE:	YES:√	NO:	ARE ANY LEA	KS PRESENT?	YES:√	NO:	
WATER	R LEVEL IN SUMP:	<u>7.5</u> in.		BUILDING CLEAN &	ORGANIZED?	YES:√	NO:	

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

-

[Dec-16
SAMPLES CO	OLLECTED?	YES:√	NO:			14 600 600 9 00 1000 0				
			Sample ID	Time of Sampli	ng	pН	Turbidity	Temp.	Sp. Cond.	
AIR	STRIPPER INFLU	UENT:	INF	2:30 PM		7.50	4.74	13.3	1903	
AIR S	TRIPPER EFFLU	JENT:	<u>EFF</u>	2:30 PM		8.52	3.22	13.9	1979	
IS TH	IS THERE EVIDENCE OF TAMPERING/VANDALISM OF WELLS: ?						 NO:			
				ES INSPECTED?	YES:		NO:	<u> </u>		
		WERE ELEC	CTRICAL BOX	ES INSPECTED?	YES:		NO:			
IS WATE	ER PRESENT IN	ANY MANHOL	ES OR ELEC	TRICAL BOXES?	YES:		NO:			
	lf ye	s, provide mani	hole/electric bo	ox ID and description	of any corre	ctive meas	ures below:			
PZ-4D inner ring	g is corroded and	collapsing.		······································						
SUBSLAB SYSTEM										
			S	UBSLAB SYS	БТЕМ					
 MANO	METER:	1.5 in. WC	S	UBSLAB SYS		NOTES:	cfm = 0.05 x	د fpm (3" P		
MANO (Fan Ir		1.5 in. WC				NOTES:	cfm = 0.05 ;	(fpm (3" P)	√C)	
		<u>1.5</u> in. WC	FLOW	west		NOTES:	cfm = 0.05 x	(fpm (3" P)	√C)	
			FLOW	west / (fpm): / (cfm):		NOTES:	cfm = 0.05 >	(fpm (3" P)	VC)	
	niet)	VACUU	FLOW FLOW JM GAUGE (in	west / (fpm): / (cfm): wC)	east					
	niet)	VACUU	FLOW FLOW JM GAUGE (in	west / (fpm): / (cfm):	east					
	niet)	VACUU REMARKS & D	FLOW FLOW JM GAUGE (in <i>ESCRIBE AN</i>)	west / (fpm): / (cfm): wC) Y OTHER SYSTEM /	east					
(Fan Ir	nlet) INCLUDE R	VACUL REMARKS & D	FLOW FLOW JM GAUGE (in <u>ESCRIBE AN)</u> has slow drip	west / (fpm): / (cfm): / WC) Y OTHER SYSTEM /	east					
(Fan Ir 	INCLUDE R	VACUL REMARKS & D per float fitting has (2) slow d	FLOW FLOW IM GAUGE (in ESCRIBE AN) has slow drip rip leaks near	west / (fpm): / (cfm): wC) Y OTHER SYSTEM > leak. r EQ Tank.	east					
(Fan Ir 	INCLUDE R One Air Stripp Effluent Pipe I	VACUU REMARKS & D per float fitting has (2) slow d pom SVE Syste	FLOW FLOW IM GAUGE (in ESCRIBE AN) has slow drip rip leaks near em - drained d	west / (cfm): / (cfm): / wC) / OTHER SYSTEM / > leak. r EQ Tank. condensate	east					
(Fan Ir 	INCLUDE R One Air Stripp Effluent Pipe I	VACUU REMARKS & D per float fitting has (2) slow d pom SVE Syste	FLOW FLOW IM GAUGE (in ESCRIBE AN) has slow drip rip leaks near em - drained d	west / (cfm): / (cfm): / wC) / OTHER SYSTEM / > leak. r EQ Tank. condensate	east					
(Fan Ir 	INCLUDE R One Air Stripp Effluent Pipe I	VACUU REMARKS & D per float fitting has (2) slow d pom SVE Syste	FLOW FLOW IM GAUGE (in ESCRIBE AN) has slow drip rip leaks near em - drained d	west / (cfm): / (cfm): / wC) / OTHER SYSTEM / > leak. r EQ Tank. condensate	east					
(Fan Ir 	INCLUDE R One Air Stripp Effluent Pipe I	VACUU REMARKS & D per float fitting has (2) slow d pom SVE Syste	FLOW FLOW IM GAUGE (in ESCRIBE AN) has slow drip rip leaks near em - drained d	west / (cfm): / (cfm): / wC) / OTHER SYSTEM / > leak. r EQ Tank. condensate	east					

	AGWAY	
Remarks:	Site is empty of materials and has been graded and graveled.	
Other Action	15:	

MR. C's DRY CLEANERS SITE NYSDEC Site #9-15-157 OM&M: SITE INSPECTION FORM

DATE:	19-Dec	-16	ACTIVITIES:	Site Inspecti	on			
INSPEC	TION PERSONNEL	.: R. Allen		_OTHER PERSO	ONNEL:			
WEATH		Partly cloudy, co	ld			OUTSIDE TEMPE	RATURE (° F):	
	ELL PUMPS OPERA PW-7 is OFF due	A <i>TING IN AUTO:</i> to maintenance prob	YES:	NO:	<u>√</u> ı	f "NO", provide exp	lanation below	
		PRO	VIDE WATER LEV	EL READINGS C	ON CONTROL PANE			
- RW-1	ON:	OFF:√	6 ft	PW-5	ON:	OFF:	4	ft
PW-2	ON:	OFF:	7 ft	PW-6	ON:	off:√	6	ft
PW-3	ON:	OFF:√	<u>6</u> ft	PW-7	on:√	OFF:	13	ft
PW-4	ON:	OFF:	7_ft	PW-8	ON:	off:√	5	ft
	EQU NOTES:	ALIZATION TANK: _	<u>3</u> ft	Last A	larm D/T/Condition: _	12/19/16 PW-2 Over	load	
							at 1996 1996 1996 1996 1996 1996 1996	
INFLU	ENT FLOW RATE:	0	gpm	INFLUENT TOT	ALIZER READING	13,023,	028	gailons
		anne shuat balan dinin jatin jiyad anne yinit dinin musik i						
		ENT DRUM LEVEL: _						gallons
s:	EQUESTERING AC	GENT FEED RATE:			METERING	PUMP PRESSURE:		_psi
	BAG FILTER PRE	ESSURES:	•	Bottom	RIGHT:	Тор 7	1	psi
INFLU	IENT FEED PUMP					======================================		psi
AIR S	STRIPPER BLOWE	"R IN USE: #1	 √ #2	 !	AIR STRIPPER PR	ESSURE:	47.0	in. H ₂ O
AIR STR	PPER DIFFEREN	TIAL PRESSURE:						in. H ₂ O
AIR FLO	w: <u>750</u>	fpm X 1.4 =	1050	CFM				
EFFLUE	NT PUMP IN USE:	 #1	 #2 √	EFFLUE	NT FEED PUMP PRI	 ESSURE:		psi
		140 gpm		-		-		gallons
ARE BU	ILDING HEATERS	IN USE? YES:		·		INSIDE TEMPE	RATURE (° F):	68
IS SUI	MP PUMP IN USE:	YES: _√	NO:	ARE ANY L	EAKS PRESENT?	YES:√	NO:	
WATER	LEVEL IN SUMP:	<u>6.5</u> in.	TREATMENT B	UILDING CLEAN	I & ORGANIZED?	YES:√	NO:	

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

_

SAMPLES COLLECTE	D? YES		NO:			_ !!	Toola dia a	-	0- 0	
		Sam	ple ID	Time of Sampl	ng	рН	Turbidity	Temp.	Sp. Cond.	
AIR STRIPPER	INFLUENT.	:								_
AIR STRIPPER	EFFLUENT	:								_
IS THERE EVIL	ENCE OF T	AMPERING/V	ANDALIS	SM OF WELLS: ?	YES	3:	NO:	\checkmark		
		WERE N	NANHOL	ES INSPECTED?	YES	8:√	NO:			
	WE	RE ELECTRIC	AL BOX	ES INSPECTED?	YES	s: √	NO:			
IS WATER PRESE	NT IN ANY	MANHOLES C	R ELEC	TRICAL BOXES?	YE	s:	 NO:	1		
				ox ID and description		<u></u>				
	• • •			•	•		Sules below.			
Val 1000 1001 100 100 100 100 100 100 100				s and UEs are cover		-			-	
						9 70 .				
MANOMETER:	 1.4	in. WC					cfm = 0.05 ;	<pre>c fpm (3" F</pre>	·····	
			S	UBSLAB SY	STEM			< fpm (3" F	2VC)	
MANOMETER:		in. WC	S FLOW FLOW	UBSLAB SY: west / (fpm): / (cfm):	STEM			< fpm (3" F	PVC)	
MANOMETER:			S FLOW FLOW	UBSLAB SY: west / (fpm): / (cfm):	STEM			c fpm (3" F	VC)	
MANOMETER: (Fan Inlet)	1.4	_in. WC VACUUM GA	FLOW FLOW FLOW AUGE (in	UBSLAB SY west / (fpm): / (cfm): / (cfm): / wc)	east	NOTES:				
MANOMETER: (Fan Inlet) 	1.4	_ in. WC VACUUM GA RKS & DESCR	FLOW FLOW FLOW AUGE (in <i>RIBE ANY</i>	UBSLAB SY: west / (fpm): / (cfm): / (cfm): / wc) / wc)	east	NOTES:				
MANOMETER: (Fan Inlet) 	1.4 UDE REMAI Stripper flo	_ in. WC VACUUM GA RKS & DESCR	FLOW FLOW AUGE (in RIBE ANY slow drip	UBSLAB SY: west / (fpm): / (cfm): / (cfm): / (cfm): / (offm): / (offm	east	NOTES:				
MANOMETER: (Fan Inlet) 	1.4 	_ in. WC VACUUM GA RKS & DESCR pat fitting has s 2) slow drip lea	FLOW FLOW AUGE (in RIBE ANY slow drip aks near	West / (fpm): / (cfm): /	east	NOTES:				
MANOMETER: (Fan Inlet) 	1.4 	_ in. WC VACUUM GA RKS & DESCR pat fitting has s 2) slow drip lea	FLOW FLOW AUGE (in RIBE ANY slow drip aks near	West / (fpm): / (cfm): /	east	NOTES:				
MANOMETER: (Fan Inlet) 	1.4 UDE REMAN Stripper flo Pipe has (2 ent Room S	_ in. WC VACUUM GA RKS & DESCR pat fitting has s 2) slow drip lea	FLOW FLOW FLOW AUGE (in RIBE ANY slow drip aks near drained o	UBSLAB SY: west / (fpm): / (cfm): / (cfm): / (cfm): / (cfm): / (DEC) Y OTHER SYSTEM > leak. r EQ Tank. condensate	east	NOTES:				
MANOMETER: (Fan Inlet) (Fan Inlet) (Fan Inlet) (Incl (Incl (Incl (Incl (Incl (Incl (Incl (Incl (Incl (Incl (Incl (Incl (Incl (Incl (Incl (Incl (Incl (Incl (Incl (Incl (Incl (Incl (Incl (Incl (Incl (Incl (Incl (Incl (Incl (Incl (Incl (Incl (Incl (Incl (Incl (Incl (Incl (Incl))) (Incl (Incl (Incl))) (Incl (Incl)) (Incl (Incl)) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Incl) (Inc	 UDE REMAI Stripper flo Pipe has (2 ent Room S Iding SVE S	in. WC VACUUM GA RKS & DESCR pat fitting has s 2) slow drip lea SVE System - drain	FLOW FLOW FLOW AUGE (in RIBE ANY slow drip aks near drained o drained o	UBSLAB SY: west / (fpm): / (cfm): / (cfm): / (cfm): / (cfm): / (DEC) Y OTHER SYSTEM > leak. r EQ Tank. condensate	east MAINTEN	NOTES:	FORMED ON			

	AGWAY
Remarks:	Site is empty of materials and has been graded and graveled.
<u></u>	
Other Actions	8

MR. C's DRY CLEANERS SITE NYSDEC Site #9-15-157 OM&M: SITE INSPECTION FORM

DATE:	3-Jan-	17	ACTIVITIES:	Site Inspect	ion			
INSPEC	TION PERSONNEL	.: R. Alle	n	OTHER PERS	ONNEL:			
WEATH		Cloudy, rain, co	ol			OUTSIDE TEMPE	RATURE (° F):	43
ARE WE	ELL PUMPS OPER	A <i>TING IN AUTO:</i> to maintenance pro	YES:		1	f "NO", provide exp	anation below	
		PRO		EL READINGS		 L	******	
RW-1	ON:	OFF:√	ft	PW-5	ON:	off:√	5	_ft
PW-2	ON:	OFF:√	6ft	PW-6	ON:	OFF:√	6	_ft
PW-3	ON:	OFF:√	ft	PW-7	on:√	OFF:	14	ft
PW-4	ON:	OFF:√	ft	PW-8	ON:	off:√	5	ft
	EQU NOTES:	ALIZATION TANK:	<u>3</u> ft	Last A	Narm D/T/Condition:	1/3/2017 PW-2 Over	load	
INFLU	ENT FLOW RATE:		0gpm	INFLUENT TO	TALIZER READING	13,271,	972	_gallons
		ENT DRUM LEVEL:				GENT REMAINING: PUMP PRESSURE:		_gallons _psi
** *** *** *** *** *	BAG FILTER PRE		-	Bottom 0 psi	RIGHT:	_{Тор} 12 - 8	1	
INFLU	IENT FEED PUMP	IN USE: #1	√ #2	2 //	NFLUENT PUMP PR	ESSURE:	7	psi
AIR S	STRIPPER BLOWE	"R IN USE: #1	 #2	2	AIR STRIPPER PR	ESSURE:	46.0	in. H ₂ O
AIR STR	IPPER DIFFEREN	TIAL PRESSURE:	broken	_in. H₂O	DISCHARGE PR	ESSURE:	1.50	in. H ₂ O
AIR FLO	w: <u>550</u>	fpm X 1.4 =	770	CFM				
EFFLUE	NT PUMP IN USE:	#1	#2 <u>√</u>	EFFLUE	NT FEED PUMP PR	ESSURE:	10	psi
EFFLUE	ENT FLOW RATE:	gpm	EFFLUENT	TOTALIZER RE	ADING: 81	,876,795	501860	gallons
ARE BU	ILDING HEATERS	IN USE? YES:	NO:	:		INSIDE TEMPEI	RATURE (° F):	82
is sui	MP PUMP IN USE:	YES:√	NO:	ARE ANY L		YES:√	NO:	
WATER	LEVEL IN SUMP:	in.	TREATMENT B		N & ORGANIZED?	YES:√	NO:	

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

....

												3-Jan-
SAMPLES COLL	ECTED?	YES	:	NO:	\checkmark							
			Si	ample ID	Time	e of Sampli	ng	pН	Turbidity	Temp.	Sp. Cond.	
AIR STR	RIPPER IN	IFLUENT:			_							
AIR STR	IPPER EP	FLUENT:										
IS THEF	RE EVIDEI		AMPERING		SM OF W	 /ELLS: ?	YES		 NO:			
				E MANHOL			YES	1		,		
		WE	RE ELECTI	RICAL BOX	ES INSP	ECTED?	YES	√			-	
IS WATER	PRESENT	IN ANY I	MANHOLES	OR ELEC	TRICAL	BOXES?	YES	√	NO:		-	
	I	lf yes, prov	/ide manhole	e/electric bo	ox ID and	description	of any corr	ective mea	sures below:			
Z-4D inner ring is	corroded	and collap	sing.									
			******	S	UBSL	AB SYS	STEM					
MANOME (Fan Inlet		1.5	in. WC	EL OM	/ (fpm):	west	east	NOTES:	cfm = 0.05	x fpm (3" F	VC)	
(Fan mei	u)				/ (cfm): _			-	<u> </u>			
			VACUUM	GAUGE (in	· · -			-				
	INCLUE	DE REMAI	RKS & DES	CRIBE AN	Y OTHER	SYSTEM	MAINTENA	NCE PERI	FORMED ON	MR. C's S		
emarks: C	One Air St	tripper flo	at fitting ha	s slow drip	leak.							
E	Effluent Pi	pe has a	slow drip le	eak near E	Q Tank.							
Other Actions: T	Freatment	Room S	VE System	- little con	densate							
5	686 Buildi	ng SVE S	ystem - dra	ained cond	lensate							

	AGWAY
Remarks:	Site is empty of materials and has been graded and graveled.
Other Actions:	

Measurements taken by: Date: 24-Dec-16 R. Allen **RW-1** 18.20 ft Comments: PW-5 15.80 ft Comments: PZ-5A 10.97 ft PZ-1A 11.69 ft Comments: Comments: PZ-1B 11.45 ft PZ-5B 11.01 ft Comments: Comments: PZ-1C 12.43 ft Comments: PZ-5C 10.63 ft Comments: PZ-1D 12.72 ft PZ-5D 11.42 ft Comments: Comments: PW-2 16.40 ft Comments: PW-6 18.50 ft Comments: PZ-2A 11.18 ft PZ-6A 11.85 ft Comments: Comments: PZ-2B 11.52 ft Comments: PZ-6B 11.70 ft Comments: PZ-2C 11.03 ft Comments: PZ-6C 11.88 ft Comments: Shown as RW-2 on MW-7 11.52 ft Substitute for 2D PZ-6D 11.72 ft Comments: Comments: map PW-3 16.60 ft Comments: PW-7 11.20 ft Comments: PZ-3A 11.70 ft MPI-6S 11.52 ft Comments: Comments: PZ-3B 11.78 ft Comments: PZ-7B 11.51 ft Comments: OW-B 11.44 ft PZ-3C 12.28 ft Comments: Comments: Product in Well PZ-3D ----- ft Comments: Under snow pile PZ-7D ----- ft Comments: PW-4 PW-8 21.80 ft 20.70 ft Comments: Comments: PZ-8A 8.47 ft PZ-4A 11.94 ft Comments: Comments: PZ-4B 11.04 ft PZ-8B 8.40 ft Comments: Comments: PZ-8C PZ-4C sealed over 8.31 ft Comments: ----- ft Comments: PZ-4D 10.55 ft Comments: PZ-8D 8.19 ft Comments:

MR. C'S DRY CLEANERS SITE NYSDEC Site #9-15-157 OM&M: PIEZOMETER WATER LEVEL LOG

	PUMPS IN OPERATION DURING MEASUREMENTS								
RW-1 pump on?	Yes	√ No	PW-5 pump on? Yes \sqrt{No}						
PW-2 pump on?	Yes	 No	PW-6 pump on? Yes \sqrt{No}						
PW-3 pump on?	Yes	No	PW-7 pump on? Yes $$ No						
PW-4 pump on?	Yes	No	PW-8 pump on? Yes V						

Mr. C's CLEANERS OM&M

SUMMARY OF FIELD ACTIVITIES BY IEG - 12/2016

DATE	ΑCTIVITY
5-Dec	OM&M Weekly Inspection. End of Month Summaries. Get Supplies.
7-Dec	PW-7 - well repair. Notify IAE of broken trim / light over door. Get supplies.
8-Dec	Repair storage well pump. Clean vent screen over man door. Mixed (3) Redux drums. PW-7 - well repair. Instal vent insullation and cover.
12-Dec	OM&M Weekly Inspection. Inspect and drain SVE Systems as needed.
14-Dec	Inspect and drain SVE systems as needed. Change bag filters.
15-Dec	PW-7 - well repair. Design system to alleviate Redux siphoning.
16-Dec	Install Redux system solenoid. Get supplies.
19-Dec	OM&M Weekly Inspection. Inspect and drain SVE Systems as needed. Get supplies. Replace Redux line and valve.
20-Dec	Check system. OM&M office work.
23-Dec	Clear snow / ice off of piezometers.
24-Dec	Piezometer Readings.
28-Dec	OM&M Weekly Inspection. Inspect and drain SVE Systems as needed.
31-Dec	Check system. Inspect and drain SVE Systems as needed.

Mr. C's CLEANERS OM&M STATUS OF FIELD ACTIVITIES BY IEG - 12/2016

ACTIVITY	DESCRIPTION	COMPLETION DATE/STATUS
Instal Liquid Containment Trench	Southeast section of Treatment Room experienced several water leaks in the past. A shallow trench should be cut into floor slab to direct slow leaks into sump box.	Oct-16
Air Stripper Leaks	Air Stripper leaked at several places when system was restarted. The unit is corroded in many areas. Find and seal leaks in corroded metal with epoxy. Seal leaks around rubber gaskets with caulk.	Oct-16
PW-4 Transducer does not read accurately	PanelView level for this well is not accurate. Inspect well to find and repair the problem with the transducer and / or wiring.	Oct-16
Repair PZ-4B	Inner ring of piezometer was severely damaged by Town's snowplow truck. Talked to Town - they will address problem in Spring. Inner ring must be replaced.	Oct-16
PW-2, PW-3 and PW-4 inspections	These well pumps were due for an inspection and cleaning. Pull well pumps up and clean transducers and pumps. Purge vertical pipes as needed.	Oct-16
PW-5 and PW-7 inspections	These well pumps were due for an inspection and cleaning. Pull well pumps up and clean transducers and pumps. Purge vertical pipes as needed.	Nov-16
Redux usage rapidly increased	The rate of Redux usage increased rapidly during the past several months despite turning the Jesco Pump settings to their lowest levels. Clean pump and test. Adjust clamps on Redux line. Add solenoid to Redux line.	Dec-16
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
Inspect and clean Manholes	Inspect manholes near operating pumps. Pump out water in manholes and clean out remaining sediment and other material.	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
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 and patch as needed (short term). Replace housings (long term).	in progress
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 Leaking Ball Valve	Influent ball valve east of EQ Tank drips. Inspect/clean & replace if necessary.	in progress
Reduce Influent Pump Rate	Lab Tests have shown high levels of VOCs. Try lengthening the time that the Influent Pump runs to increase the Air Sparging time inside the Air Stripper	in progress
Add Air Sparging System	Lab Tests have shown high levels of VOCs. Try adding an Air Sparging system to the sump box of the Air Stripper to increase the treatment of the effluent.	in progress
South Wall should be sealed	South Wall of Treatment Room has leaked into the neighboring unit several times when there have been water related problems. Trim wall insullation matting to reduce moisture retension. Seal base of wall with silicone caulking.	in progress
SVE Fan pipe collects water	The SVE Fan pipe on Building 586 collects water. There is a plug just below the fan to drain water out of the horizontal section of the pipe. Inspect system and make corrections to prevent the pipe from filling with water.	in progress
EE-4 Paved Over	During the Aug 2016 paving of the north half of the parking lot, Piezometer EE-4 was covered. Locate piezometer and remove asphalt to expose it.	in progress
Product in PZ-7D	During Winter 2016 Piezometer Readings product was found in PZ-7D. Remove product to prevent spread.	in progress
PZ-4D Inner Ring is corroded through	The inner ring of this piezometer is corroded through causing the box to slowly collapse. Replace the road box of this piezometer.	in progress
PanelView False Alarm Record	The PanelView constantly records PW-2 OVERLOAD. The well pump runs fine and the Alarm Light on the Main Control Panel does not come on. Reset PanelView to correct for this constant record.	in progress
PW-6 and PW-8 inspections	These well pumps are due for an inspection and cleaning. Pull well pumps up and clean transducers and pumps. Purge vertical pipes as needed.	in progress
PW-7 does not operate	Troubleshoot and make repairs as needed.	in progress

16	- <u>1</u> K				1				
as of Dec 2016	ELECTRICAL BOX REPAIR		Sep-09		Sep-09		Jul 09, Sep 09		Apr-13
	CLEAN OUT & INSPECT ELECTRICAL BOX		Nov-11	Nov 11, Sep 15	Sep 09, Nov 11, Oct 16	Jan-12	Aug 09, Sep 09, Sep 15		Apr 13, Aug 15
	REPLACE ANEROID BELLOWS				Oct 16		Aug 15		Aug 15
	PIEZOMETER S	PZ-1B repaired Sep 16			PZ-4B replaced Sep 16		PZ-6A, PZ-6C repaired Sep 16		
	PUMP OUT WELL		Aug-09	60-9nA	Jul 09, Sep 09		Aug-09	Aug 09, May 10, Aug 11	Аиg 09, Мау 10, Аиg 11
	REPLACE TRANSDUCE R		Sep 09, Dec 11	Dec 11, Sep 15	Dec 11, Mar 08, Sep 08	Jan 12, Sep 08	Sep 09, Sep 15		
	CLEAN & INSPECT TRANSDUCER	May 10, Jan 12, Oct 15	Nov 11, May 10, Apr 13 Dec 15, Oct 16	Aug 09, Nov 11, Oct 15, Oct 16	May 10, Nov 11, Oct 15, Oct 16	Mar 11, Oct 15, Nov 16	Aug 09, Jul 12, Dec 12, Apr 13, Aug 15	Oct 10, Aug 11, Mar 12, Jul 12, Dec 12, Aug 15, Nov 16	May 10, Aug 11, Jul 12, Dec 12, Apr 13, Aug 15
	CHECK VALVE						Aug 15	Aug 15	Aug 15
	INNER HORIZONTAL RING PIPE		Sep-15	Sep-15	Oct-16	91-voN	Jul 12, Nov 12, Sep 15	Jul 12, Nov 12, Nov 16	Pipe 8/09, Jul 12, Sep 15
	INNER RING				Aug 13				
	REPAIR PITLESS PUMP ADAPTER			Repair adapter			Replaced Aug 15	Replaced Aug 15	Replaced Aug 15
	<u> </u>	May 10, Nov 08			Sep-13				
	REPLACED PUMP	Feb 08, Jan 12	Jul 08, Apr 13 Dec 15	Jul 08, Dec 11, Oct 15	Dec 07, Jan 12	Jul 08, Jan 12	Jun 08, Jul 09, Aug 12, Nov 12, Sep 15	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, Oct 15	Jun 08, Aug 09, May 10, Apr 13, Sep 15, Oct 16	Jun 08, Aug 09, May 10, Sep 15, Oct 16	Dec 07, May 08, Sep 09, May 10, Jan 12, Oct 15, Oct 16	Jan 12, May 08, Oct 15, Nov 16	Jun 08, Jul 09, Jul 12, Nov 12, Aug 15	Jun 08, Jul 09, May 10, Oct 10, Aug 11, Mar 12, Jul 12, Nov 12, Aug 15, Nov 11	Jun 08, Aug 09, May 10, Aug 11, Jul 12, Dec 12, Aug 15
	₽	RW - 1	PW - 2	PW - 3	PW - 4	PW - 5	PW - 6	7 - Wd	PW - 8

Mr. C's CLEANERS OM&M SUMMARY OF WATER PUMP MAINTENANCE BY IEG - 2016

as of Dec 2016

Mr. C'S CLEANERS OM&M SUMMARY OF WATER PUMP \$TATUS - 2016

₽	NEEDS CI FANING &	S S		NEEDS P A OR	NEEDS WELL		NEEDS	NEEDS CHECK	NEEDS TRANSDUCE	NEEDS NEW	DIETOMETEDS	NEEDS	NEEDS U.E.	NEEDS
	INSPECTION	PUMP	INNER RING	PIPE	CLEAN-OUT	ADAPTER	LINE PURGE	VALVE	R INSPECTION	R	FIEZOME LEKS	BELLOWS	CLEANE D	U.E. REPAIR
RW-1	YES	Q	PZ-1B		YES				ON	ON		ON	ON	YES - bolts
PW-2	0 N	0 Z	Q		ON				ON	NO		ON	ON N	YES - bolts
PW-3	ON	Q	ON						ON	ON		Q	Q	Q
PW-4	ON N	0 N	ON				ON		ON	Q	PZ-4D corroded	Q	Q	YES - Asphalt patch
PW-5	ON	N	ON		(N		ON		ON	ON			Q	0 N
PW-6	YES	N	ON				ON		ON	QN		Q	Q	DONE
7-W4	YES		ON		ON		ON		ON				Q	Q
PW-8	YES	ON N	ON		N		ON		ON	ON		Q	Q	Q

<u>Attachment B</u> Analytical Report from Spectrum Analytical Laboratories

Analytical Data Package Work Order ID: R1104 Sampled by IEG: December 5, 2016

Client: Ecology and Environment Engineering P.C. Client Sample ID: INFLUENT Lab ID: R1104-01

Project:Mr. C's Dry CleaningCollection Date:12/05/2016 15:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8260C VOC by GC-MS				SW8260_W
Dichlorodifluoromethane	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Chloromethane	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Vinyl chloride	14	4.0 ug/L	4 12/07/2016 21:30	85927
Bromomethane	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Chloroethane	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Trichlorofluoromethane	ND	4.0 ug/L	4 12/07/2016 21:30	85927
1,1-Dichloroethene	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Acetone	ND	20 ug/L	4 12/07/2016 21:30	85927
Carbon disulfide	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Methylene chloride	ND	4.0 ug/L	4 12/07/2016 21:30	85927
trans-1,2-Dichloroethene	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Methyl tert-butyl ether	ND	4.0 ug/L	4 12/07/2016 21:30	85927
1,1-Dichloroethane	ND	4.0 ug/L	4 12/07/2016 21:30	85927
2-Butanone	ND	20 ug/L	4 12/07/2016 21:30	85927
cis-1,2-Dichloroethene	210	4.0 ug/L	4 12/07/2016 21:30	85927
Chloroform	ND	4.0 ug/L	4 12/07/2016 21:30	85927
1,1,1-Trichloroethane	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Carbon tetrachloride	ND	4.0 ug/L	4 12/07/2016 21:30	85927
1,2-Dichloroethane	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Benzene	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Trichloroethene	46	4.0 ug/L	4 12/07/2016 21:30	85927
1,2-Dichloropropane	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Bromodichloromethane	ND	4.0 ug/L	4 12/07/2016 21:30	85927
cis-1,3-Dichloropropene	ND	4.0 ug/L	4 12/07/2016 21:30	85927
4-Methyl-2-pentanone	ND	20 ug/L	4 12/07/2016 21:30	85927
Toluene	ND	4.0 ug/L	4 12/07/2016 21:30	85927
trans-1,3-Dichloropropene	ND	4.0 ug/L	4 12/07/2016 21:30	85927
1,1,2-Trichloroethane	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Tetrachloroethene	310	4.0 ug/L	4 12/07/2016 21:30	85927
2-Hexanone	ND	20 ug/L	4 12/07/2016 21:30	85927
Dibromochloromethane	ND	4.0 ug/L	4 12/07/2016 21:30	85927
1,2-Dibromoethane	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Chlorobenzene	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Ethylbenzene	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Xylene (Total)	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Styrene	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Bromoform	ND	4.0 ug/L	4 12/07/2016 21:30	85927
lsopropylbenzene	ND	4.0 ug/L	4 12/07/2016 21:30	85927

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation 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

Client: Ecology and Environment Engineering P.C. Client Sample ID: INFLUENT Lab ID: R1104-01

Project:Mr. C's Dry CleaningCollection Date:12/05/2016 15:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8260C VOC by GC-MS				SW8260_W
1,1,2,2-Tetrachloroethane	ND	4.0 ug/L	4 12/07/2016 21:30	85927
1,3-Dichlorobenzene	ND	4.0 ug/L	4 12/07/2016 21:30	85927
1,4-Dichlorobenzene	ND	4.0 ug/L	4 12/07/2016 21:30	85927
1,2-Dichlorobenzene	ND	4.0 ug/L.	4 12/07/2016 21:30	85927
1,2-Dibromo-3-chloropropane	ND	4.0 ug/L	4 12/07/2016 21:30	85927
1,2,4-Trichlorobenzene	ND	4.0 ug/L	4 12/07/2016 21:30	85927
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Cyclohexane	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Methyl acetate	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Methylcyclohexane	ND	4.0 ug/L	4 12/07/2016 21:30	85927
Surrogate: Dibromofluoromethane	103	85-115 %REC	4 12/07/2016 21:30	85927
Surrogate: 1,2-Dichloroethane-d4	103	70-120 %REC	4 12/07/2016 21:30	85927
Surrogate: Toluene-d8	96.9	85-120 %REC	4 12/07/2016 21:30	85927
Surrogate: Bromofluorobenzene	94.0	75-120 %REC	4 12/07/2016 21:30	85927

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation 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

Client: Ecology and Environment Engineering P.C. Client Sample ID: EFFLUENT Lab ID: R1104-02

Project: Mr. C's Dry Cleaning Collection Date: 12/05/2016 15:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8260C VOC by GC-MS				SW8260_W
Dichlorodifluoromethane	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Chloromethane	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Vinyl chloride	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Bromomethane	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Chloroethane	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Trichlorofluoromethane	ND	1.0 ug/L	1 12/07/2016 19:26	85927
1,1-Dichloroethene	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Acetone	ND	5.0 ug/L	1 12/07/2016 19:26	85927
Carbon disulfide	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Methylene chloride	ND	1.0 ug/L	1 12/07/2016 19:26	85927
trans-1,2-Dichloroethene	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Methyl tert-butyl ether	ND	1.0 ug/L	1 12/07/2016 19:26	85927
1,1-Dichloroethane	ND	1.0 ug/L	1 12/07/2016 19:26	85927
2-Butanone	ND	5.0 ug/L	1 12/07/2016 19:26	85927
cis-1,2-Dichloroethene	2.2	1.0 ug/L	1 12/07/2016 19:26	85927
Chloroform	ND	1.0 ug/L	1 12/07/2016 19:26	85927
1,1,1-Trichloroethane	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Carbon tetrachloride	ND	1.0 ug/L	1 12/07/2016 19:26	85927
1,2-Dichloroethane	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Benzene	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Trichloroethene	ND	1.0 ug/L	1 12/07/2016 19:26	85927
1,2-Dichloropropane	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Bromodichloromethane	ND	1.0 ug/L	1 12/07/2016 19:26	85927
cis-1,3-Dichloropropene	ND	1.0 ug/L	1 12/07/2016 19:26	85927
4-Methyl-2-pentanone	ND	5.0 ug/L	1 12/07/2016 19:26	85927
Toluene	ND	1.0 ug/L	1 12/07/2016 19:26	85927
trans-1,3-Dichloropropene	ND	1.0 ug/L	1 12/07/2016 19:26	85927
1,1,2-Trichloroethane	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Tetrachloroethene	1.9	1.0 ug/L	1 12/07/2016 19:26	85927
2-Hexanone	ND	5.0 ug/L	1 12/07/2016 19:26	85927
Dibromochloromethane	ND	1.0 ug/L	1 12/07/2016 19:26	85927
1,2-Dibromoethane	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Chlorobenzene	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Ethylbenzene	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Xylene (Total)	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Styrene	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Bromoform	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Isopropylbenzene	ND	1.0 ug/L	1 12/07/2016 19:26	85927

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation 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

Client: Ecology and Environment Engineering P.C. Client Sample ID: EFFLUENT Lab ID: R1104-02

Project:Mr. C's Dry CleaningCollection Date:12/05/2016 15:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8260C VOC by GC-MS				SW8260_W
1,1,2,2-Tetrachloroethane	ND	1.0 ug/L	1 12/07/2016 19:26	85927
1,3-Dichlorobenzene	ND	1.0 ug/L	1 12/07/2016 19:26	85927
1,4-Dichlorobenzene	ND	1.0 ug/L	1 12/07/2016 19:26	85927
1,2-Dichlorobenzene	ND	1.0 ug/L	1 12/07/2016 19:26	85927
1,2-Dibromo-3-chloropropane	ND	1.0 ug/L	1 12/07/2016 19:26	85927
1,2,4-Trichlorobenzene	ND	1.0 ug/L	1 12/07/2016 19:26	85927
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Cyclohexane	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Methyl acetate	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Methylcyclohexane	ND	1.0 ug/L	1 12/07/2016 19:26	85927
Surrogate: Dibromofluoromethane	98.9	85-115 %REC	1 12/07/2016 19:26	85927
Surrogate: 1,2-Dichloroethane-d4	97.6	70-120 %REC	1 12/07/2016 19:26	85927
Surrogate: Toluene-d8	101	85-120 %REC	1 12/07/2016 19:26	85927
Surrogate: Bromofluorobenzene	97.4	75-120 %REC	1 12/07/2016 19:26	85927

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation 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

Client:	Ecology and Environment Engineering P.C.		
Client Sample ID:	INFLUENT	Project:	Mr. C's Dry Cleaning
Lab ID:	R1104-01	Collection Date:	12/05/2016 15:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SM 4500 H+ B pH VALUE				SM4500_H+
pH	7.9	1.0 S.U.	1 12/06/2016 10:10	R97222
The pH value was measured at the temperature of	20	С	1 12/06/2016 10:10	R97222

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation 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

Client:	Ecology and Environment Engineering P.C.		
Client Sample ID:	EFFLUENT	Project:	Mr. C's Dry Cleaning
Lab ID:	R1104-02	Collection Date:	12/05/2016 15:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SM 4500 H+ B pH VALUE				SM4500_H+
pН	8.1	1.0 S.U.	1 12/06/2016 10:13	R97222
The pH value was measured at the temperature of	20	С	1 12/06/2016 10:13	R97222

Qualifiers:	ND - Not Detected at the Reporting Limit
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J - Analyte detected below quanititation 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

Client Sample ID:	Ecology and Environment E INFLUENT R1104-01		Project: Mr. C's Dr ion Date: 12/05/201		
Analyses		Result Qual	RL Units	DF Date Analyzed	Batch ID
SM 2340B HARDI	NESS by Calculation				SM2340_W
Hardness, Ca/Mg (As Ca	CO3)	360	4.0 mg/L CaCO3	1 12/07/2016 11:26	85920

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation 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

	NESS by Calculation				SM2340 W
Analyses		Result Qual	RL Units	DF Date Analyzed	Batch ID
Lab ID:	R1104-02	Collect	ion Date: 12/05/20	016 15:00	
Client Sample ID:			Project: Mr. C's l		
	Ecology and Environment Eng	gineering P.C.			

360

SM 2340B -- HARDNESS by Calculation

Hardness, Ca/Mg (As CaCO3)

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

.

DF - Dilution Factor

Qualifiers:

- S Spike Recovery outside accepted recovery limits
- R RPD outside accepted recovery limits
- E Value above quantitation range
- RL Reporting Limit

12/08/2016

85920

1 12/07/2016 11:29

4.0 mg/L CaCO3

<u>Attachment C</u> Summary of Site Utility Costs and Projections January to December 2016

Mr. C's Dry Cleaners Site - Remedial Treatment Utility Costs	lers Site - Re	medial Treatme	nt Utility Costs								ATTAC	ATTACHMENT C
NYSDEC Work Assignment #10C3074.0011.07	ssignment #	10C3074.0011.0						Utility Budget:		Electric:	\$25,300.00	
12 Months of System Operation and Maintenance	stem Operatic	on and Mainten	ance						F	Telephone:	\$540.00	
December 2016 Report	Report								0	Gas	\$1,120.00	
Gas, Telephone, and Electric	Electric									Total:	\$26,960.00	
Utility Provider	Account #	EXE Cost Center	Description	Jan-2016	Feb-2016	Mar-2016	Apr-2016	May-2016	Jun-2016			
New York State E&G	1001-0310-422	EN-003229-0001-03TTO	Mr. C's Electric Costs	\$ 577.59 \$	762.15	\$ 265.95 \$	177.66	\$ 188.45	\$163.34			
New TOTA State E&G National Firel Cas	10-311-11-013900-18	EN 003228 0001 03TTO	Mr. Cie. Notitral Gae Coste	¢	24.1	ه دو ده ده	0 10	6 10 10	00 4 4 9 00			
				\$ 645.92	766.30	324.77	186.42					
				Jul-2		Sep-2016	Oct-2016	Nov-2016	Dec			Ave. /Month
			Mr. C's Electric Costs	\$ 175.96 \$	194.31	\$ 198.23 \$	486.70	\$ 1,220.63 \$			60	460.54
											•	
			Mr. C's Natural Gas Costs	\$21.17	21.09	\$ 20.79 \$	46.97	\$ 25.86 \$	77.15		\$	32.89
			Totals	\$197.13 \$	215.40	\$ 219.02 \$	533.67	\$ 1,246.49 \$	1,192.69		\$	493.43
			Electric - Mr. C's		\$5,526.51		Notes:					
			Natural Gas - Mr. C's	\$	394.68		I	Overbilled natural gas costs - no charges	gas costs - no c	charges		
-	Grand	I Total - NYSE&G/Natior	Grand Total - NYSE&G/National Fuel Gas Costs To Date	\$	5,921.19			Estimated Reading		\$ 333.44	in red -adjusted billing	Illing
Phone												
Utility Provider	Phone #	E&E Cost Center	Location Description	Jan-2016	Feb-2016	Mar-2016	Apr-2016	May-2016	Jun-2016			
Verizon	716-652-0094	EN-003229-0001-03TTO	Mr. C's Telephone Costs	\$ 36.01 \$	36.16	\$ 36.16 \$	36.16	\$ 40.86 \$	36.41			
Account #		t in the second s										
716 652 0094 416 26 2												
				Jul-2016	Aug-2016	Sep-2016	Oct-2016	Nov-2016	Dec-2016			Ave./Month
		EN-003229-0001-03TTO		\$ 37.23 \$	38.32	\$ 38.02 \$	37.98	\$ 37.75 \$	37.90		<u>v</u>	37.41
		Veri	Verizon Costs to Date - Mr. C's	S	448.96							
		Grand Total A	Grand Total All Utilities To Date	ся	6.370.15							
				-			A					
										-		

Mr. C's Dry Cleaners Site - Remedial Treatment Utility Costs	ers Site - Re	medial Treatmen	it Utility Costs					ATTACHMENT C	MENT C
NYSDEC Work Assignment #11	signment #1	~				Budget Remaining:	Electric:	\$19,773.49	
12 Months of System Operation and Maintenance	em Operatic	on and Maintena	nce				Telephone:	\$91.04	
December 2016 Report	eport						Gas .	\$725.32	
	Optimum Operating Hours	Actual Operating Hours	Up-time Percentage	Capacity	Comments:		Total:	\$20.589.85	
January-16	672	672	100.00%	9.7%	Very mild winter - very little snow.				
February-16	0	0	0.00%	%0.0	System Shutdown				
March-16		0	0.00%	0.0%	System Shutdown				
April-16		0	00.00%	0.0%	System Shutdown				
May-16		0	0.00%	0.0%	System Shutdown				
lal-anu	D o	0	0.00%	0.0%	System Shutdown				
	0		0.00%	0.0%	System Shutdown				
Santambar-16			%0000	0.070	System Strutdown				
October-16	800	600	0.00% 100.00%	a 2%	Systern Snurgown				
November-16	840	840	100.00%	11.4%	Clear- colder		-		
December-16	696	696	100.00%	11.5%	Cold and light snow				
Totals to Date	2808	2808	100.00%						
* Percent Capacity is based on initial operating groundwater flows from the eight installed pumps from 9/02. Evaluated on	ial operating groundwa	ater flows from the eight installe	d pumps from 9/02. Evaluated c		total gallons discharged for monthly operating time				
Maximum pump discharges calculated as an average of 78 gpm as the total for all 8 pumps at the site if all pumps operate 100%. With the exception of groundwater pump RW-1, all others run on a batch basis	ated as an average of	78 gpm as the total for all 8 pum	ips at the site if all pumps opera	te 100%. With the	exception of groundwater pump RV	V-1, all others run on a batch basis.			
Monthly Average Costs	sts								
Mr. C's Electric	\$ 460.54								
Agway Electric	-								
	\$ 37.41								
Ave. Utility Cost Total	\$ 530.85	times	12 Month Estimate	\$6,901.00					