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

June 8, 2015

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 May 2015 Operations, Maintenance, and Monitoring Report

Dear Mr. Welling:

Ecology and Environment Engineering, P.C. (EEEPC) is pleased to provide the May 2015 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</u>. The full analytical reports along with QA/QC information will be retained by EEEPC. The site utility information is provided at <u>Attachment C</u>.

In review of the on-site treatment system operations, monitoring and maintenance for May 2015, 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 Attachment A for 5/4/15, 5/18/15, and 6/2/15.
- 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 317,968 gallons (<u>Table 1</u>) for May 2015.
- The air stripper exhaust was found to be leaking problem and repaired.
- The bag filter was changed as needed during the operation period.
- Pumping well PW-7 remains off during the reporting period due to continued observation of the "pilot bioremediation injection program.
- Pumping well PW-3 and PW-6 remains off due to the maintenance problems. To be repaired in May- June 2015.

- The winter vent cover over main treatment door was removed for the spring and summer season.
- The surface of PZ-1B was damaged due to winter condition. OW-B had corroded inner ring. To be repaired in May-June 2015. The compliance samples were taken on May 14, 2015 (Attachment B) and the preliminary analytical results were received from SAI on May 26, 2015. The results indicated achievement of the effluent discharge criteria requirements in the site specific SPDES Equivalency Permit (Table 2).
- The analytical summary results of May 26, 2015 revealed the total volatile organic contaminant concentrations of the influent to be 700 μg/L or 700 ppb. In review of the effluent concentrations the results were 0.0 μg/L or 0.0 ppb. The summary of influent and effluent contaminant concentrations for the May 2015 sampling is presented in <u>Table 1</u>
- The Mr. C's treatment system based on the total monthly flows removed 1.86 lbs. of targeted contaminants from the groundwater below the site in the month of May 2015 and the cleanup effectiveness was 100%. The calculations and data for the month are presented in <u>Table 3</u>.
- Piezometer readings were taken on May 20, 2015.

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 of -1.95 inches of water column over the reporting month of May 2015.
- The systems remain operational at the 1st Presbyterian Church. The church has EEEPC's contact information in case some 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.
- Remedial construction of the SSDS units began on January 19, 2015. In February, work on the construction of the SSDS units was completed at 586 Main Street (Country Cupboard), 594 Main Street (East Aurora Outfitters) and the 16 Paine Avenue (Boys and Girls Club). The 591 Main Street location is being discussed with the building owner since extensive remodeling is going on within the building. Discussion needed with property owner to finalize the SSDS construction. Property owner has been difficult to contact, but will continue to pursue.
- 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.

Status of Bioremediation Direct Push Injection Work

- The Final Summary Report for the Mr. C's Dry Cleaners Site Enhanced Bioremediation and Bio-augmentation Pilot Study was issued to NYSDEC on January 20, 2015.
- No further work is anticipated until review of the recommendations is performed by NYSDEC.
- Additional review of the recommendations in the summary report to be evaluated with the remedial site optimization (RSO) program.

Soil Vapor Intrusion Investigation Program (Phase 3)

- The Phase 3 SVII work for the 2014-2015 heating season report is to be issued to NYSDEC / NYSDOH in June.
- One last property was sampled and investigated in May for inclusion in the SVII report to be issued in June 2015.

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 2014 Annual Long-term Groundwater Monitoring Well Report was issued to NYSDEC on January 16, 2015.

Periodic Review Report (PRR)

- The 2014 Periodic Review Report was issued to NYSDEC on January 30, 2015.
- Comments received from NYSDEC PM regarding the acceptance of the recommendations of the 2014 PRR on March 26, 2015.

Mr. C's Energy Usage Information

• A copy of the site utility costs from the Mr. C's remedial operations for January through May 2015 is provided as <u>Attachment C.</u>

Mr. William Welling, Project Manager June 8, 2015 Page 4 of 4

If you have questions regarding the May 2015 OM&M report summary, please do not hesitate to contact me at 716-684-8060.

Very Truly Yours,

Ecology and Environment Engineering, P. C.

Wichoel H. Steffan Michael G. Steffan Project Manager

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

D. Iyer, IEG – w/attachments

CTF-10C3074.0011.03

Attachment A IEG Weekly Inspection Reports May 2015

Including:

05/4/15

05/18/15

06/02/15

NYSDEC Site #9-15-157

OM&M: SITE INSPECTION FORM

DATE:	4-May-1	5	ACTIVITIES:	Site Inspection	on			-
INSPEC	TION PERSONNEL:	R. Allen		OTHER PERSO	NNEL:	No colors agreed considerable to the		
WEATH	ER CONDITIONS:	Partly cloudy, war	m	9 NOW HOME AND HOME SEED AND LINE SEED	Miles Andre Mark Word School Salved Miles Games Sensi	OUTSIDE TEMPE	RATURE (° F):	70
ARE W	ELL PUMPS OPERA		YES:	NO:	<u>√</u> 1	f "NO", provide expl	anation below	,
		OFF due to maintena	ance problems.	······································	······································			
	PW-/ is OFF due to	injection operation. PROVI	DE WATER LEV	EL READINGS O	N CONTROL PANE		····	·
RW-1	ON:	off: √	6 ft	PW-5	ON:	off: √	6	ft
PW-2	ON:	off:√	5_ft	PW-6	ON:	off:	65507	 _ft
PW-3	on:	OFF:	13_ft	PW-7	ON:	OFF:	14	_ft
PW-4	ON:	0FF:	7ft	PW-8	ON:	off:√	5	_ft
	EQUA	LIZATION TANK:	3ft	Last Ala	arm D/T/Condition:	4/22/15 Air Stripper Lo	ow Level	
	NOTES:							
INFLL	ENT FLOW RATE:	40	gpm	INFLUENT TOTA	ALIZER READING_	8,271,43	3.0	gallons
SE	QUESTERING AGEI	NT DRUM LEVEL:	19 inches	(x 1.7=)	AMOUNT OF A	GENT REMAINING:	32	_gallons
s	EQUESTERING AG	ENT FEED RATE:	ml/min		METERING	PUMP PRESSURE:	3.0	_psi
		at hims many short hims been book found table move sound .	Тор	Bottom		Тор	Bottom	
	BAG FILTER PRE	SSURES:	LEFT: <u>0</u>	psi	RIGHT: _	10 - 6	0	_psi
INFL	JENT FEED PUMP II	N USE: #1	<u>√</u> #2	INI	FLUENT PUMP PR	ESSURE:	6	_psi
AIR S	STRIPPER BLOWER	R IN USE: #1	√ #2		AIR STRIPPER PRI	ESSURE:	30.0	in. H₂O
AIR STR	IPPER DIFFERENTI	IAL PRESSURE:	0.25	in. H₂O	DISCHARGE PRI		oken	in. H₂O
EFFLUE	NT PUMP IN USE:	#1	#2 √	EFFLUEN	T FEED PUMP PRI	ESSURE:	9.0	psi
EFFLU	ENT FLOW RATE:	140 gpm	EFFLUENT	TOTALIZER REA	DING:77	,910,519	499090	gallons
ARE BU	ILDING HEATERS I	N USE? YES:	NO:			INSIDE TEMPER	 RATURE (° F): 	85
IS SU	MP PUMP IN USE:	YES:	NO:	ARE ANY LE	AKS PRESENT?	YES:	NO:	
WATER	R LEVEL IN SUMP:	7.5 in.	TREATMENT B	UILDING CLEAN	& ORGANIZED?	YES:√	NO:	

NYSDEC Site #90150157

SITE INSPECTION FORM

								<u> </u>	May-15
SAMPLES COLLECTED?	YES:	NO:	$\sqrt{}$ Time of Sampling	1	pН	Turbidity	Temp.	Sp. Cond.	
AIR STRIPPER INFLU	IENT:					··········			
AIR STRIPPER EFFLU	IENT:								
IS THERE EVIDENCE			SM OF WELLS: ? ES INSPECTED?	YES:	√	NO: NO:	√		
	WERE ELEC	CTRICAL BOX	ES INSPECTED?	YES:	V	NO:			
IS WATER PRESENT IN .	ANY MANHOI	LES OR ELEC	TRICAL BOXES?	YES:		NO:	1	•	
If yes	s, provide man	hole/electric bo	x ID and description o	any corre	ctive meas	ures below:			
PZ-1B has surface concrete dama	age from winte	er conditions. C	W-B has corroded inn	er ring.					
			194						
		S	UBSLAB SYS	TEM					
MANOMETER:	1.8 in. WC	FLOW		east		cfm = 0.05	x fpm (3" F	PVC)	
INCLUDE R Remarks: Air Stripper ex			Y OTHER SYSTEM M.	AINTENAM	NCE PERF	FORMED ON	MR. C's S	SITE	
Other Actions: Changed Bag	Filters.								
***************************************			AGWAY						
Remarks: Site is empty	of materials a	nd has been g	graded and graveled.						
								······································	
Other Actions:					,,			**************************************	
						•			

NYSDEC Site #9-15-157

OM&M: SITE INSPECTION FORM

DATE:	18-May-	15		ACT	IVITIES:	Site Inspe	ection					
INSPEC	TION PERSONNEL	:	R. Allen			OTHER PE	RSONNEL:					
WEATH	ER CONDITIONS:	Cloudy, v	warm				t word from what were area in	. — — — — —	OUTSIDE	E TEMPE	RATURE (° F)	<u>75</u>
ARE WE	ELL PUMPS OPERA			YES:		_ NO: _	√	İ	lf "NO", pro	vide expl	anation belov	v
	PW-3 and PW-6 an				roblems.							
	PW-7 is OFF due to	o injection			TERLEV	EL READING	S ON CONT	TROL PANI				
D)4/ 4	ONL	OFF:	√ √	5			ON:	INOL I AN	OFF:	V	4	
RW-1	ON:	-	\			PW-5	•		_	<u> </u>		_ ft
PW-2	ON:	OFF:_	<u> </u>		ft	PW-6	ON:	.1	OFF:	<u>v</u>	65507	_ft
PW-3	ON:	OFF:		12	ft	PW-7	ON:	<u> </u>	OFF:		14	_ft
PW-4	ON:	OFF:	<u>√</u> -	4	ft	PW-8	ON:		OFF:		5	_ft
	EQUA	ALIZATION	TANK: _	4	ft	La	st Alarm D/T/	Condition:	5/9/17 Air S	tripper Lo	w Level	
	NOTES:								-			
INFLU	ENT FLOW RATE:		0		gpm	INFLUENT	TOTALIZER	READING	8	,465,95	51.0	_gallons
SE	QUESTERING AGE	NT DRUM L	.EVEL: _	1	inches	(x :	1.7=) AMC	OUNT OF A	AGENT REM	IAINING:	2	_gallons
S	EQUESTERING AG	ENT FEED	RATE:		ml/min		1	METERING	PUMP PRE	SSURE:	3.0	_psi
					Тор	Bottom				Тор	Bottom	
	BAG FILTER PRE	SSURES:		LEFT:	0	0 p	si	RIGHT:	· ·	8 - 7	0	_psi
INFLU	IENT FEED PUMP I	N USE:	#1	√	#2		INFLUENT	PUMP PR	ESSURE:		6	psi
AIR S	STRIPPER BLOWE	R IN USE:	#1	√	#2		AIR STE	RIPPER PR	ESSURE:		35.0	in. H ₂ O
	IPPER DIFFERENT				 17	in. H ₂ O			ESSURE:		roken	in. H ₂ O
EFFLUE	NT PUMP IN USE:	#1_		#2	√	- EFFL	UENT FEED	PUMP PR	PESSURE: _		8.0	_psi
EFFLU	ENT FLOW RATE:	139	gpm	EF	FLUENT	TOTALIZER	READING:	78	3,065,79	3	656990	gallons
ARE BU	ILDING HEATERS	N USE?	YES: _		NO:	<u>√</u>			INSIDE	TEMPE	RATURE (° F):	88
IS SU	MP PUMP IN USE:	YES:	<u> </u>	NO:		ARE AN	Y LEAKS PI	RESENT?	YES:	1	NO	-
WATER	R LEVEL IN SUMP:	6.5 i	n.	TREA	TMENT B	UILDING CL	EAN & ORG	ANIZED?	YES:	1	. NO	:

NYSDEC Site #90150157 SITE INSPECTION FORM

				18-May-15
SAMPLES COLLECTED? YES: NO: Sample ID Time of Sampling	рН	Turbidity	Temp.	Sp. Cond.
AIR STRIPPER INFLUENT:				
AIR STRIPPER EFFLUENT:				
IS THERE EVIDENCE OF TAMPERING/VANDALISM OF WELLS: ? YES:	.1	-	1	
WERE MANHOLES INSPECTED? YES:	<u> </u>	-		
WERE ELECTRICAL BOXES INSPECTED? YES:	<u> </u>	NO:		
IS WATER PRESENT IN ANY MANHOLES OR ELECTRICAL BOXES? YES:	γ	NO:		
If yes, provide manhole/electric box ID and description of any correction PZ-1B has surface concrete damage from winter conditions. OW-B has corroded inner ring.	tive measi	ures below:		
PZ-1B has surface concrete damage from winter conditions. Ovv-b has corrolled inner mig.				
SUBSLAB SYSTEM				
MANOMETER: 1.8 in. WC west east N (Fan Inlet) FLOW (fpm): FLOW (cfm): VACUUM GAUGE (in WC) VACUUM GAUGE (in WC)	NOTES:	cfm = 0.05	x fpm (3" F	VVC)
INCLUDE REMARKS & DESCRIBE ANY OTHER SYSTEM MAINTENANCE Remarks: Air Stripper exhaust has slow drip from elbow.	CE PERF	ORMED ON	MR. C's S	TITE
Other Actions: Redux system emptied 55 gal drum in (2) days. Turned OFF system.				·
Painted ID numbers on MWs.				
Changed bag filters.				
		 	-,	
AGWAY				-
Remarks: Site is empty of materials and has been graded and graveled.				
		,		
Other Actions: Removed tube from MW-7 to facilitate peizometer readings.				
		·····		, married to the contract of t

NYSDEC Site #9-15-157

OM&M: SITE INSPECTION FORM

DATE:	2-Jun-	15		AC	TIVITIES:	Site Inspe	ction					
INSPEC	TION PERSONNEL	-	R. Allen	·····		OTHER PE	RSONNEL:					
WEATH	ER CONDITIONS:	Cloudy,	cool					_	OUTSIDI	E TEMPEI	RATURE (° F)	: 52
ARE W	ELL PUMPS OPERA				problems.	_ NO: _	√		If "NO", pro	vide expl	anation belov	v
	PW-7 is OFF due	o injection	operation	١.					-			
			PRO	VIDE W	ATER LEV	EL READING	S ON CON	TROL PAN	IEL			
RW-1	ON:	OFF:	<u>√</u> _	7	_ft	P W -5	ON:		OFF:		7	ft
PW-2	ON:	OFF:	√	5	_ft	PW-6	ON:		OFF:	√	65507	_ft
PW-3	on:	OFF:		13	_ft	PW-7	ON:	√	OFF:		14	_ft
PW-4	ON:	OFF:	√	7	_ft	PW-8	ON:	· · · · · · · · · · · · · · · · · · ·	OFF:	√	5	_ft
	EQU	ALIZATION	TANK:	5	_ft	Las	st Alarm D/T	/Condition:	5/21/15 Air	Stripper Lo	ow Level	
	NOTES:											
INFLU	IENT FLOW RATE:		44	ļ	gpm	INFLUENT	TOTALIZER	READING	<u> </u>	3,684,21	8.0	_ gallons
SE	QUESTERING AGE	NT DRUM	LEVEL: _	30	inches	(x 1	.7=) AM	OUNT OF	AGENT REN	AINING:	51	_gallons
s	EQUESTERING AG	ENT FEED	RATE:		ml/min			METERING	9 PUMP PRE	SSURE:	3.0	_psi
					Тор	Bottom	natai anati kanti kacin malii ka			Тор	Bottom	
	BAG FILTER PRE	SSURES:		LEFT:	0	0 p	si	RIGHT:		7	0	_ psi
INFL	JENT FEED PUMP	IN USE:	#1	√	#2		INFLUEN	T PUMP PI	RESSURE:		6	_ psi
AIR :	STRIPPER BLOWE	R IN USE:	#1	√	#2		AIR ST	RIPPER PI	RESSURE:	4	43.0	in. H₂O
	IPPER DIFFERENT				-	in. H ₂ O			RESSURE:		oken	in. H₂O
EFFLUE	ENT PUMP IN USE:	 #1		#2		EFFL	UENT FEEL	 D PUMP PI	: RESSURE:		9.0	psi
	ENT FLOW RATE:		gpm			- TOTALIZER I			8,228,4 8	7		O gallons
ADE DI	U DING HEATERS	IN 11852	YES:					NA NAME AND POST COME OF		 - <i>TEMPE</i>	 RATURE (° F).	: 84
	ILDING HEATERS											
is su	MP PUMP IN USE:	YES:	√	NO:	***************************************	ARE AN	Y LEAKS P	RESENT?	YES:	√	NO	*
WATER	R LEVEL IN SUMP:	7.0	in.	TRE	ATMENT B	UILDING CLI	EAN & ORG	ANIZED?	YES:	√	NO	:

NYSDEC Site #90150157 SITE INSPECTION FORM

										2-Jun-15
SAMPLES CO	LLECTED?	YES:	NO: Sample ID	√ Time of Sam	pling	Hq	Turbidity	Temp.	Sp. Cond.	
			•			•	-	-	•	
AIR S	STRIPPER II	VFLUENT:		WC-2-7-4-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7						
AIR S	TRIPPER EI	FFLUENT:							CH KAND 2000 MINU SAND SAND SAND	
IS TH	IERE EVIDE	NCE OF TAMP	ERING/VANDAL	ISM OF WELLS: ?	YES	:	NO:	$\sqrt{}$		
				LES INSPECTED?		.1	-		-	
		WERE E		XES INSPECTED?					-	
IS WATE	R PRESEN			CTRICAL BOXES?			– NO:	,	-	
				ox ID and description			_		-	
PZ-1B has surfa				OW-B has corrode	-					
				man and sold since short sold room when their	N SOUTH RANGE GOVERN STREET SANSON SANSON	Addition to the second second second				
				SUBSLAB SY	YSTEM_					
MANO	METER:	1.9 in.\	wc	west	east	NOTES:	cfm = 0.05	x fpm (3" F	PVC)	
(Fan In	ılet)		FLOV	N (fpm):		_				
		\/A/		N (cfm):		_		***************************************		
		VAC	CUUM GAUGE (i	n wc) 		- 				
	INCLU	DE REMARKS	& DESCRIBE AN	IY OTHER SYSTE	M MAINTENA	NCE PER	FORMED ON	MR. C's S	SITE	
Remarks:	Air Strippe	er exhaust has	slow drip from	elbow						
Other Actions	: Swept sp	ruce needles o	off of Library Park	king Lot around w	rell groups P\	N-6 and P	W-7.			
				-						
							The body of the second	VALUE AND	***************************************	

,										
				AGWA					/	
Remarks:	Site is em	pty of material	s and has been	graded and grave	eled.					
Other Actions	:									
America (1975)										

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

OM&M: PIEZOMETER WATER LEVEL LOG

Date:	20-N	lay-15	Measuremer	its taken by:	<u> </u>	l. Allen	
RW-1	18.80 ft	Comments:		PW-5	15.30 ft	Comments:	
PZ-1A	10.39 ft	Comments:		PZ-5A	9.94 ft	Comments:	
PZ-1B	10.16 ft	Comments:		PZ-5B	10.07 ft	Comments:	4
PZ-1C	11.31 ft	Comments:		PZ-5C	9.69 ft	Comments:	Action and the control of the contro
PZ-1D	11.45 ft	Comments:		PZ-5D	10.46 ft	Comments:	
PW-2	15.97 ft	Comments:		PW-6	ft	Comments:	Injection fluid
PZ-2A	10.07 ft	Comments:		PZ-6A	11.07 ft	Comments:	
PZ-2B	10.44 ft	Comments:		PZ-6B	10.93 ft	Comments:	
PZ-2C	9.89 ft	Comments:		PZ-6C	11.15 ft	Comments:	
MW-7	ft	Comments:	Tube in riser	PZ-6D	10.97 ft	Comments:	Shown as RW-2 on map
PW-3	10.50 ft	Comments:		PW-7	ft	Comments:	Injection fluid
PZ-3A	10.53 ft	Comments:		MPI-6S	ft	Comments:	Injection fluid
PZ-3B	10.63 ft	Comments:		PZ-7B	10.73 ft	Comments:	
PZ-3C	11.08 ft	Comments:		OW-B	10.65 ft	Comments:	
PZ-3D	10.62 ft	Comments:		PZ-7D	ft	Comments:	Injection fluid
PW-4	16.70 ft	Comments:		PW-8	19.10 ft	Comments:	
PZ-4A	10.45 ft	Comments:		PZ-8A	7.72 ft	Comments:	
PZ-4B	10.10 ft	Comments:		PZ-8B	7.63 ft	Comments:	
PZ-4C	ft	Comments:	sealed over	PZ-8C	7.24 ft	Comments:	
PZ-4D	9.72 ft	Comments:		PZ-8D	7.38 ft	Comments:	

	P	UMPS IN OPERATION	DURING MEASUREMENTS
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 V

Mr. C's CLEANERS OM&M

SUMMARY OF FIELD ACTIVITIES BY IEG - 5/2015

DATE	ACTIVITY
4-May	OM&M Weekly Inspection.
5-May	End of month summaries and expenses
9-Мау	Reinstall loose rubber port on Air Stripper. Changed bag filters.
11-May	OM&M office work. Weekly Inspection. Swept spruce needles off of Library Parking Lot.
12-May	OM&M Office work.
14-May	OM&M Sampling
18-May	OM&M Weekly Inspection and office work. Paint ID numbers on MWs.
20-May	Piezometer Readings
21-May	Changed bag filters. MW-7 - remove sampling tube.
22-May	OM&M Office work
26-Мау	OM&M Weekly Inspection. Filled (3) Redux drums with a mix of diluted Redux.
27-May	OM&M Office work

Mr. C's CLEANERS OM&M STATUS OF FIELD ACTIVITIES BY IEG - 5/2015

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
Replace Air Stripper Exhaust	Present Air Stripper exhaust is very heavy and leaks moisture. Replace with lighter system.	in progress
PW-7 pitless adapter	Pitless adapter does not seal well. Repair or replacer pitless adapter	in progress
PW-8 pitless adapter	Pitless adapter feels brokent/does not seal well. Repair/replace pitless adapter	in progress
PW-6 pumping into itself	Water enters well when well pump is running. Suspect faulty check valve. Test and repair as needed.	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-2B has surface concrete damage from severe winter conditions this year. Repair chipped concrete with epoxy material.	in progress
	The rate of Redux usage increased rapidly during the past month despite turning the Jesco Pump settings to their lowest levels. Clean pump and test. Adjust clamps on Redux line.	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
MW OW-B is corroded through	The inner ring of this piezometer has corroded through. Repair the hole or replace inner ring.	in progress
	Gas Company turned our gas meter off because Treatment Room was not using any. Diagnose gas heater and repair as necessary.	Feb-15
	Riser heaved up over the winter and is pushing up top cover. Cut riser down and refit top cover.	Apr-15
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

Mr. C's CLEANERS OM&M

SUMMARY OF WATER PUMP MAINTENANCE BY IEG - 2015

2	A R								
as or iviay zu lo	ELECTRICAL BOX REPAIR		Sep-09		60-des		Jul 09, Sep 09		Apr-13
	CLEAN OUT & INSPECT ELECTRICAL BOX		Nov-11	Nov-11	Sep 09, Nov 11	Jan-12	Aug 09, Sep 09		Apr-13
	PUMP OUT WELL		Aug-09	Aug-09	Jul 09, Sep 09		Aug-09	Aug 09, May 10, Aug 11	Aug 09, May 10, Aug 11
	REPLACE REPAIR TRANSDUCER TRANSDUCER				Sep-08	Sep-09	Jun-08	Jun-08	
	·		Sep 09, Dec 11	Dec 11	Dec 11, Mar 08, Sep 08	Jan 12, Sep 08	Sep-09		
	CLEAN & INSPECT TRANSDUCER	May 10, Jan 12	Nov 11, May 10, Apr 13	Aug 09, Nov 11	May 10, Nov 11	Mar-11	Aug 09, Jul 12, Dec 12, Apr 13	Oct 10, Aug 11, Mar 12, Jul 12, Dec 12	May 10, Aug 11, Jul 12, Dec 12, Apr 13
	CHECK VALVE								
	HORIZONTA L PIPE						Jul 12, Nov 12	Jul 12, Nov 12	Pipe 8/09, Jul 12
	INNER		-		Aug 13				
	PITLESS ADAPTER			Repair adapter					
	REPAIR PUMP	May 10, Nov 08			Sep-13				
	REPLACED PUMP	Feb 08, Jan 12	Jul 08, Apr 13	Jui 08, Dec 11	Dec 07, Jan 12	Jul 08, Jan 12	Jun 08, Jul 09, Aug 12, Nov 12	Nov 07, Jul 09, Oct 10, Nov 12	Jul 08, Sep 09, Aug 11, Dec 12
	CLEAN & INSPECT PUMP	Jan 08, May 10, Jan 12	Jun 08, Aug 09, May 10, Apr 13	Jun 08, Aug 09, May 10	Dec 07, May 08, Sep 09, May 10, Jan 12	Jan 12, May 08	Jun 08, Jul 09, Jul 12, Nov 12	Jun 08, Jul 09, May 10, Oct 10, Aug 11, Mar 12, Jul 12, Nov 12	Jun 08, Aug 09, May 10, Aug 11, Jui 12, Dec 12
	Q	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 - 2015

as of May 2015

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

Attachment B Analytical Report from Spectrum Analytical Laboratories

Analytical Data Package Work Order ID: P0858 Sampled by IEG: May 14,2015 Received by Lab: May 15, 2015 Date of Final Report: May 26, 2015

Report Date: 26-May-15 12:49



✓ Final Report Re-Issued Report Revised Report

Laboratory Report

Ecology and Environment Engineering P.C.

368 Pleasant View Drive

Lancaster, NY 14086

Work Order: P0858

Project: Mr. C's Dry Cleaning Project #: 10C3074.0011.03

Attn: Michael Steffan

Laboratory ID	Client Sample ID	<u>Matrix</u>	Date Sampled	Date Received
P0858-01	INFLUENT	Aqueous	14-May-15 11:30	15-May-15 09:41
P0858-02	EFFLUENT	Aqueous	14-May-15 11:30	15-May-15 09:41

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

All applicable NELAC or USEPA CLP requirments have been meet.

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

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

N/A Department of Defense Connecticut PH-0153 Delaware N/A Florida E87664 Maine 2007037 Massachusetts M-RI907 New Hampshire 2631 RI001 New Jersey New York 11522 Rhode Island LAI00301 USDA P330-08-00023 USEPA - ISM EP-W-09-039 EP-W-11-033 USEPA - SOM





Authorized by:

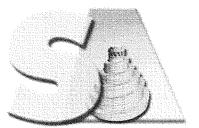
Yihai Ding Laboratory Director Sample Transmittal Documentation

P0858

Condition upox receipt: Custody Seals: 🗋 Present 📋 Intact 📋 Broken 🗆 Ambient , 🖒 Iced 🗀 Refrigerated 🗂 DIVOA Frozen · All TATs subject to laboratory approval. State-specific reporting standards: Min. 24-hour notification needed for rushes. QA/QC Reporting Notes: QA/QC Reporting Level B.E.mail to my ste Han O' ene. com ☐ Level IV Samples disposed of after 60 days unless otherwise instructed. □ Level II TAT. Ind icate Date Needed: Sta Special Handling: かくらい State: D Other Oxt Pleace another □ Level III □ Level I 1 X C P T T 4 (PS Location: East Avord Mr Cs List preservative code below: EDD Format N Kingstown, RI 02852 Analyses: 12×646 Camp Avenue DY RECORD (401) 732-3400 Site Name: Project No.: Sampler(s): 10C2 10 $Temp^{\circ}C$ Time: ☐ 8405 Benjamin Road, Ste A 17:00 # of Plastic Containers: 7=CH₃OH CHAIN OF CUSTO Tampa, FL 33634 # of Clear Glass (813) 888-9507 RQN: # of Amber Glass 7 Date: 6=Ascorbic Acid a faiV AOV to # N 05/15 3 3 <u>い</u> E 3 U F Matrix U Ø Lype Ø Ø ڰ (O Invoice To: ☐ 11 Almgren Drive P.O. No.: Agawam, MA 01001 5=NaOH Time (413) 789-9018 DW=Drinking Water GW=Groundwater WW=Wastewater SL=Sludge A=Air Received by: 10=H₃PO₄ 4=HNO₃ Date: 684-8060 C=Composite 14086 Mike Stether 2=HCI 3=H₂SO₄O=Oil SW= Surface Water SO=Soil 9= Deionized Water TEP DEN FFFLUENT Pleasontrie NULLOUN に引きる SPECTRUM ANALYTICAL, INC. WFLUENT アドルの可入 Sample Id: Featuring HANIBAL TECHNOLOGY G=Grab 山水山 7(6) Relinguished by $1=Na_2S2O_3$ ancaster 8= NaHSO₄ Telephone #: Project Mgr. 368 Report To: Lab Id: S วี X1 =P0858 Page 3 of 38

Revised Feb 2013

www.spectrum-analytical.com



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

* Volatiles *

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

EPA	SAMPLE	NO.	
INFL	JENT		

Lab Name: SPECTRUM ANALYTICAL, IN	IC.	Contract:	
Lab Code: MITKEM Case No.:	P0858	Mod. Ref No.:	SDG No.: SP0858
Matrix: (SOIL/SED/WATER) WATER		Lab Sample ID:	P0858-01A
Sample wt/vol: 5.00 (g/mL)	ML	Lab File ID:	V8D9871.D
Level: (TRACE/LOW/MED) LOW		Date Received:	05/15/2015
% Moisture: not dec.		Date Analyzed:	05/20/2015
GC Column: DB-624 ID:	0.25 (mm)	Dilution Factor:	5.0
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
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	14	
74-83-9	Bromomethane	5.0	Ū
75-00-3	Chloroethane	5.0	Ū
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	Ū
67-64-1	Acetone	25	Ū
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	3.0	J
75-34-3	1,1-Dichloroethane	5.0	Ū
78-93-3	2-Butanone	25	Ū
156-59-2	cis-1,2-Dichloroethene	300	
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
71-43-2	Benzene	5.0	U
79-01-6	Trichloroethene	23	
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	25	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	Ū
79-00-5	1,1,2-Trichloroethane	5.0	Ū
127-18-4	Tetrachloroethene	360	
591-78-6	2-Hexanone	25	Ū
124-48-1	Dibromochloromethane	5.0	Ü
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	Xylene (Total)	5.0	Ū

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

	EPA	SAMPLE	NO.	
	INFLU	ENT		
ı				

Lab Name:	ab Name: SPECTRUM ANALYTICAL, INC			Contract:	
Lab Code:	MITKEM	Case No.:	P0858	Mod. Ref No.:	SDG No.: SP0858
Matrix: (SO	IL/SED/WATEF	R) WATER		Lab Sample ID:	P0858-01A
Sample wt/v	ol: 5.	00 (g/mL)	ML	Lab File ID:	V8D9871.D
Level: (TRA	CE/LOW/MED)	LOW		Date Received:	05/15/2015
% Moisture:	not dec.			Date Analyzed:	05/20/2015
GC Column:	DB-624	ID:	0.25 (m	m) Dilution Factor:	5.0
Soil Extrac	t Volume: _		(u	L) Soil Aliquot Vol	ume:(uL)
Purge Volum	e: 5.0		(m	L)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-42-5	Styrene	5.0	Ü
75-25-2	Bromoform	5.0	Ū
98-82-8	Isopropylbenzene	5.0	Ū
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	ū
120-82-1	1,2,4-Trichlorobenzene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
79-20-9	Methyl acetate	5.0	U
108-87-2	Methylcyclohexane	5.0	U

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

	EPA	SAMPLE	NO.	
E	CFFLU	ENT		Marco Marco
ı				
SPROME				

Lab Name: SPECTRUM ANALY		TICAL, IN	IC.		Contract:	·	***************************************
Lab Code: MITK	EM (Case No.:	P0858		Mod. Ref No.:	SDG No.: SP0858	
Matrix: (SOIL/S	SED/WATER)	WATER			Lab Sample ID:	P0858-02A	
Sample wt/vol:	5.00) (g/mL)	ML		Lab File ID:	V8D9870.D	
Level: (TRACE/I	OW/MED) I	OM			Date Received:	05/15/2015	
% Moisture: not	dec.				Date Analyzed:	05/20/2015	
GC Column: DB-	624	ID:	0.25	(mm)	Dilution Factor:	1.0	
Soil Extract Vo	lume:			(uL)	Soil Aliquot Vol	ume:	(uL)
Purge Volume:	5.0			(mL)			

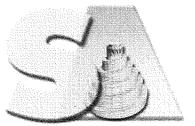
CAS NO.	COMPOSIND	CONCENTRATION UNITS:	
	COMPOUND	(ug/L or ug/Kg) UG/L	Q Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	Ū
156-59-2	cis-1,2-Dichloroethene	1.0	Ū
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	Ū
56-23-5	Carbon tetrachloride	1.0	Ū
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	Ū
79-01-6	Trichloroethene	1.0	Ū
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	Ū
10061-01-5	cis-1,3-Dichloropropene	1.0	Ū
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	1.0	Ū
591-78-6	2-Hexanone	5.0	Ū
124-48-1	Dibromochloromethane	1.0	Ū
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	Ū
1330-20-7	Xylene (Total)	1.0	Ū

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

	EPA	SAMPLE	NO.
F	CFFLU	ENT	
and the same of th			

ab Name: SPECTRUM ANALYTICAL, INC.				Contract:			
Lab Code: MITKEM	C:	ase No.:	P0858		Mod. Ref No.:	SDG No.: SP0858	
Matrix: (SOIL/SED	/WATER)	WATER			Lab Sample ID:	P0858-02A	
Sample wt/vol:	5.00	(g/mL)	ML		Lab File ID:	V8D9870.D	
Level: (TRACE/LOW	/MED) Lo	WC			Date Received:	05/15/2015	
% Moisture: not d	ec				Date Analyzed:	05/20/2015	
GC Column: DB-62	4	ID:	0.25	(mm)	Dilution Factor:	1.0	
Soil Extract Volu	me:			(uL)	Soil Aliquot Vol	ume:	(uL)
Purge Volume: 5.)			(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	Ū
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	Ū
79-20-9	Methyl acetate	1.0	Ū
108-87-2	Methylcyclohexane	1.0	Ū



SPECTRUM ANALYTICAL, INC. Featuring HANIBAL TECHNOLOGY

* Wet Chemistry *

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

05/22/2015

Client: Ecology and Environment Engineering P.C.

Client Sample ID: INFLUENT

Project: Mr. C's Dry Cleaning

Lab ID: P0858-01 Collection Date: 05/14/15 11:30

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SM 2340B HARDNESS by Calculation Hardness, Ca/Mg (As CaCO3)	360	4.0 mg/L CaCO3	1 05/19/2015 8:33	SM2340_W 82134
SM 4500 H+ B pH VALUE		•		SM4500_H+
рH	7.1	1.0 S.U.	1 05/15/2015 10:30	R89418

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

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

05/22/2015

Client: Ecology and Environment Engineering P.C.

Client Sample ID: EFFLUENT

Project: Mr. C's Dry Cleaning

Lab ID: P0858-02 Collection Date: 05/14/15 11:30

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SM 2340B HARDNESS by Calculation Hardness, Ca/Mg (As CaCO3)	370	4.0 mg/L CaCO3	1 05/19/2015 8:37	SM2340_W 82134
SM 4500 H+ B pH VALUE	•	40.00		SM4500_H+
рН	8.1	1.0 S.U.	1 05/15/2015 10:35	R894

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

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

	Up-1	Up-time		_	VOC Removal	
	Keporting	Operational	Treated Effluent		Effluent	VOCs Removed
Month	Hours	Up-time	(gallon)	(μg/L)	VOCs(µg/L)	(lbs.)
(Up-time from 9/5/02 to 12/29/14)	103,429.50	95.97%	124,813,504	NA	NA	1,591.46
December 29, 2014 - February 4, 2015	888	100.00%	400,228	818	8	2.71
February 4, 2015 - March 3, 2015	648	100.00%	278,328	857	16	1.95
March 3, 2015 - March 30, 2015	648	100.00%	316,184	938	11	2.45
March 30, 2015 - May 4, 2015	840	100.00%	426,516	683	4.3	2.42
May 4, 2015 - June 2, 2015	969	100.00%	317,968	700	0	1.86
			- 1			
						And the second s

Total in 2015	3,720.00	1.00	1,739,224	3,995.80	38.92	11.38
Total from startup	107,149.50	5.96	126,552,728.00	NA	NA	1,602.84

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 alculations assume that non-
- 7.Total VOCs summations include estimated "J" values. 8.VOC removal alculations 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 Efficient) (ug/L) · (1g/10 6 ug) · (1 lb/453.5924 g) · (Monthly process water)(gal) · (3.785 L/gallon)

Table 2 Mr. C's Dry Cleaners Site Remediation Site #915157

Effluent Discharge Criteria & Analytical Compliance Results

Parameter/Analyte	Daily Maximum ¹	Units	May 26, 2015 - Effluent Analytical Values - Compliance
Flow (Average)	N/A	gpd	10,964
Ph	6.0 - 9.0	standard units	8.10
1,1 Dichloroethene	10	μg/L	ND(<1.0)
1,1 Dichloroethane	10	μg/L	ND(<1.0)
cis-1,2-dichloroethene	10	μg/L	ND(<1.0)
Trichloroethene	10	μg/L	ND(<1.0)
Tetrachloroethene	10	μg/L	ND(<1.0)
Vinyl Chloride	10	μg/L	ND(<1.0)
Benzene	5	μg/L	ND(<1.0)
Ethylbenzene	5	μg/L	ND(<1.0)
Methylene Chloride	10	μg/L	ND(<1.0) ND(<1.0)
1,1,1 Trichloroethane Toluene	10	μg/L	ND(<1.0) ND(<1.0)
Methyl-t-Butyl Ether (MTBE)	NA NA	μg/L ug/L	ND(<1.0)
o-Xylene ²	5	μg/L ,	NA
m, p-Xylene ²	10	μg/L	NA
Total Xylenes	NA NA	ug/L	ND(<1.0)
Iron, total	600	μg/L	NA ⁹
Aluminum	4,000	μg/L	NA ⁹
Copper	48	μg/L	NA ⁹
Lead	11	μg/L	NA ⁹
Manganese	2,000	μg/L	NA ⁹
Silver	100	μg/L	NA ⁹
Vanadium	28	μg/L	NA ⁹
Zinc	230	μg/L	NA ⁹
Total Dissolved Solids	850	mg/L	NA ⁹
Total Suspended Solids	20	mg/L	NA ⁹
Hardness	N/A	mg/L	370
Cyanide, Free	10	μg/L	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: May 4th, 2015 through June 2nd, 2015, Total gallons: 317,968 divided by 29 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.

Table 3 Mr. C's Dry Cleaners Site Remediation NYSDEC Site #915157

	Bas	sed on the	05/26/15 Efflu	ent Analyt	ical Results
	Influ	ent	Efflu	ent	Cleanup
Compound	Concenti	ration*	Concentr	ation**	Efficiency***
	(ug/	L)	(ug/	$\mathbf{L})$.	(%)
Acetone	ND (<25)	U	ND (<5.0)	U	NA
Benzene	ND (<5)	U	ND (<1.0)	U	NA
2-Butanone	ND (<5)	U	ND (<5.0)	U	NA
cis-1, 2-Dichloroethene	300		ND (<1.0)	U	100.00%
Chloroform	ND (<5)	U	ND (<1.0)	U	NA
Methylene chloride	ND (<4)	U	ND (<1.0)	U	NA
Methyl tert-butyl ether (MTBE)	3	J	ND (<1.0)	U	NA
Methyl acetate	ND (<5)	U	ND (<1.0)	U	NA
Tetrachloroethene (PCE)	360.0		ND (<1.0)	U	100.00%
Toluene	ND (<5)	U	ND (<1.0)	U	NA
Trichloroethene (TCE)	23.0		ND (<1.0)	U	100.00%
Carbon Disulfide	ND (<5)	U	ND (<1.0)	U	NA
1,1,2 Trichloro-1,2,2-trifluororethane	ND (<5)	U	ND (<1.0)	U	NA
2-Hexanone	ND (<25)	U	ND (<5.0)	U	NA
4-Methyl-2-penatone	ND (<25)	U	ND (<5.0)	U	NA
Cyclohexane	ND (<5)	U	ND (<1.0)	U	NA
trans-1,2-dichloroethene	ND (<5)	U	ND (<1.0)	U	NA
Chlorobenzene	ND (<5)	U	ND (<1.0)	U	NA
Methylcyclohexane	ND (<5)	U	ND (<1.0)	U	NA
Ethylbenzene	ND (<5)	U	ND (<1.0)	U	NA
Methyl acetate	ND (<5)	U	ND (<1.0)	U	NA
Vinyl Chloride	14		ND (<1.0)	U	100.00%
Total Xylenes	ND (<5)	U	ND (<1.0)	U	NA

associated with "pilot" the bioaugmentation program performed on July 1-2, 2013.

700.0 0.00 100.00%

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

Attachment C Summary of Site Utility Costs and Projections January to December 2015

Mr. C's Dry Cleaners Site - Remedial Treatment Utility Costs	ers Site - Re	medial Treatme	nt Utility Costs								ATTAC	ATTACHMENT C
NYSDEC Work Assignment #10C3074.0010.03	ssignment #1	10C3074.0010.0	3					Utility Budget:	jet:	Electric:	\$25,300.00	
12 Months of System Operation and Maintenance	tem Operation	on and Mainten	ance							Telephone:	\$540.00	
May 2015 Report										Gas	\$1,120.00	- Constitution of the cons
Gas, Telephone, and Electric	lectric	() () () () () () () () () ()						Tive		Total:	\$26,960.00	
Utility Provider	Account #	E&E Cost Center	Description	Jan-2015	Feb-2015	Mar-2015	Apr-2015	May-2015	Jun-2015			
New York State E&G New York State E&G	1001-0310-422	EN-003229-0001-03TTO	Mr. C's Electric Costs	\$ 1,941.66	\$ 1,544.32		\$ 1,341.46	\$ 986.19				
National Fuel Gas	5819628-05	EN-003229-0001-03TTO	Mr. C's Natural Gas Costs				\$ 93.17	\$ 34.73				- Approximate Artis
			Totals \$	1,941.66	\$ 1,544.32	· ·	1,1	1,(<i>€</i>			
				Jul-2015	Aug-2015	Sep-2015	Oct-2015	Nov-2015	Dec-2015			Ave. /Month
			Mr. C's Electric Costs								ø.	1,453.41
			Mr. C's Natural Gas Costs	Y							· ·	63.95
			Totals	\$0.00	- *	. \$, S	, 99	- \$		s	1,5
			Electric - Mr. C's		\$5,813.63		Notes:					
			Natural Gas - Mr. C's		\$ 127.90			Overbilled natura	Overbilled natural gas costs - no charges	charges		
	Grand	Total - NYSE&G/Nation	Grand Total - NYSE&G/National Fuel Gas Costs To Date	\$	5,941.53			Estimated Reading	ling	\$ 333.44	in red -adjusted billing	illing
Phone			,									
Utility Provider	Phone #	E&E Cost Center	Location Description	Jan-2015	Feb-2015	Mar-2015	Apr-2015	May-2015	Jun-2015			
Verizon	716-652-0094	EN-003229-0001-03TTO	Mr. C's Telephone Costs		The state of the s							
Account #												
716 652 0094 416 26 2												
				Jul-2015	Aug-2015	Sep-2015	Oct-2015	Nov-2015	Dec-2015			Ave./Month
		EN-003229-0001-03TTO									S	г
		Veri	Verizon Costs to Date - Mr. C's				A CONTRACTOR AND A CONT					
		Grand Total A	Grand Total All Utilities To Date	S	5,941.53							
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NYSDEC Work Assignment #11 Budget Remaining: Electric: \$19,486.37 12 Months of System Operation and Maintenance Image: Control of System Operation and	ng: Electric: \$1 Telephone: Gas Total: \$2	time Percentage <u>Capacity</u> <u>Comments:</u> 100 00% 9 6% Cold and Snow 100.00% 9 5% Extremely Cold 100.00% 10.4% Cold & Hainy 100.00% 10.69% Warmer Temperatures. Nor #DIV/01 #DIV/
and Maintenance Telephone: Actual Operating Hours Up-time Percentage Capacity Comments: Gas Actual Operating Hours Up-time Percentage Capacity Cold and Snow Total: \$2 888 100.00% 9.6% Extremely Cold Total: \$2 648 100.00% 9.2% Extremely Cold Total: \$2 848 100.00% 9.2% Extremely Cold Total: \$2 848 100.00% 9.8% Spring time Hally Cold Hally Cold </th <th>Telephone: Gas Total: \$2</th> <th>time Percentage <u>Capacity</u> <u>Comments:</u> 100.00% 9.6% Cold and Snow 100.00% 92% Extremely Cold 100.00% 10.4% Cold & Rainy 100.00% 10.4% Volument Pemperatures. Non 100.00% 10.8% Warmer Temperatures. Non 100.00% 9.8% Spring time 100.00% 9.8% Spring time 100.00% 9.8% Spring time 100.00% 10.00% 9.8% Spring time 100.00% 10</th>	Telephone: Gas Total: \$2	time Percentage <u>Capacity</u> <u>Comments:</u> 100.00% 9.6% Cold and Snow 100.00% 92% Extremely Cold 100.00% 10.4% Cold & Rainy 100.00% 10.4% Volument Pemperatures. Non 100.00% 10.8% Warmer Temperatures. Non 100.00% 9.8% Spring time 100.00% 9.8% Spring time 100.00% 9.8% Spring time 100.00% 10.00% 9.8% Spring time 100.00% 10
Optimum Operating Actual Operating Hours Up-time Percentage Capacity Comments: Total: \$22	Gas Total: \$2	time Percentage <u>Capacity</u> <u>Comments:</u> 100 00% 96% 96% Extramely Cold and Snow 100:00% 12% Extramely Cold and Snow 100:00% 10.00% 10.8% Cold and Snow 100:00% 10.8% Cold and Snow 100:00% 10.8% Cold and Snow 100:00% 10.8% Spring time #DIV/01 #DIV/0
Optimum Operating Hours Up-time Percentage Capacity Comments: Factual Operating Hours Total: \$2* Hours 488 100.00% 9.5% Cold and Snow 100.00%	Total:	time Percentage <u>Capacity</u> <u>Comments:</u> 100.00% <u>9.6% Cold and Snow</u> 100.00% 9.2% Extramely Cold 100.00% 10.4% Cold & Hainy 100.00% 10.8% Warmer Temperatures. Non 100.00% 9.8% Spring time #DIV/OI #DI
Second Color	l Otal:	100.00% 9.6% Cold and Snow 100.00% 9.2% Extramely Cold 100.00% 9.2% Extramely Cold 100.00% 10.4% Cold & Hainy 100.00% 10.8% Warmer Temperatures. Nor 100.00% 9.8% Spring time #DIV/OI #DIV
648 648 100.00% 9.2% Count and your and you are a considered and you are a consi	9.2% Extremely Cold 10.4% Cold & Flainy 10.8% Warmer Temperatures. Normal Rain 9.8% Spring time 9.8% Spring time 9.8% With the exception of groundwater pump RW-1, all others run on a batch basis.	100.00% 100.00% 100.00% 100.00% 100.00% 100.40% 100.00% 100.
648 100,00% 10,4% Cold & Painy	10.4% Cold & Painy 10.9% Warmer Temperatures. Normal Pain 9.8% Spring time gallons discharged for monthly operating time. %. With the exception of groundwater pump RW-1, all others run on a batch basis.	100.00% 10.4% Cold & Rainy 100.00% 10.8% Warmer Temperatures. Non 100.00% 9.8% Spring time #DIV/01 #DIV/02. Evaluated on total gallons discharged for monthly operating site if all pumps operate 100%. With the exception of groundwater pun
696 696 100.00% 9.8% Spring time Find time Fin	9.8% Spring time	100.00% 10.3% Warmer remperatures. Non 100.00% 9.8% Spring time #DIV/OI #DIV/O
10/\O(# 10\text{IO}#	gallons discharged for monthly operating time.	#DIV/0(I #DI
	gallons discharged for monthly operating time.	#DIV/00 #DIV/0
	gallons discharged for monthly operating time.	#DIV/0: Evaluated on total gallons discharged for monthly operating site if all pumps operate 100%. With the exception of aroundwater pum
	gallons discharged for monthly operating time. %. With the exception of groundwater pump RW-1, all others run on a batch basis.	#DIV/00 #DIV/00 #DIV/00 100.00% from 9/02. Evaluated on total gallons discharged for monthly operating site if all pumps operate 100%. With the exception of aroundwater pum
	gallons discharged for monthly operating time.	#DIV/01 100.00% from 9/02. Evaluated on total gallons discharged for monthly operating site if all pumps operate 100%. With the exception of groundwater pum
	gallons discharged for monthly operating time. %. With the exception of groundwater pump RW-1, all others run on a batch basis.	100.00% from 9/02. Evaluated on total gallons discharged for monthly operating site if all pumss operate 100%. With the exception of aroundwater pun
Totals to Date 3720 3720 100.00%	gallons discharged for monthly operating time. %. With the exception of groundwater pump RW-1, all others run on a batch basis.	from 9/02. Evaluated on lotal gallons discharged for monthly operating site if all pumps operate 100%. With the exception of oroundwater pun
Percent Capacity is based on initial operating groundwater flows from the eight installed numbs from 9/02. Evaluated on total gallons discharged for monthly one-rating groundwater flows from the eight installed numbs from 9/02. Evaluated on total gallons discharged for monthly one-rating groundwater flows from the eight installed numbs from 9/02. Evaluated on total gallons discharged for monthly one-rating groundwater flows from the eight installed numbs from 9/02. Evaluated on total gallons discharged for monthly one-rating groundwater flows from the eight installed numbs from 9/02. Evaluated on total gallons discharged for monthly one-rating groundwater flows from the eight installed numbs from 9/02. Evaluated on the gallons discharged for monthly one-rating groundwater flows from 9/02. Evaluated on the gallons discharged for monthly one-rating groundwater flows from 9/02. Evaluated for monthly groundwater flows from 9/02. Evaluated for monthly groundwater flows from 9/02. Evaluated from 9/02. Evaluated for monthly groundwater flows from 9/02. Evaluated from 9/02. Evaluated for monthly groundwater flows from 9/02. Evaluated flows from 9/02. Evaluated flows from 9/02. Evaluated from 9/02. Evalu	%. With the exception of groundwater pump RW-1, all others run on a batch basis.	site if all pumps operate 100%. With the exception of groundwater pun
Maximum prump 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 promoters run on a hardy has is	מינים ביייים מינים	
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Monthly Average Costs		
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