

VIA ELECTRONIC MAIL

Tom D. Antonoff

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January 15, 2020

Mr. Aaron Fischer
Remedial Bureau B
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway – 12th Floor
Albany, New York 12233-7016

Subject: Monthly Progress Report

GE Main Plant (Site No. 4-47-004)

Schenectady, New York

Dear Aaron:

Pursuant to Section III of the Order on Consent and Administrative Settlement (Index No. A4-0562-0806) regarding General Electric Company's (GE's) Main Plant in Schenectady, New York, please find attached the Monthly Progress Report covering December 2019. As always, please call me if you have any questions.

Sincerely,

Tom D. Antonoff Senior Project Manager

Attachment

cc: Stephanie Selmer, NYSDOH (via email)

Ben Conlon, Esq., NYSDEC (via email)

Damian Foti, GE (via email) Eric Merrifield, GE (via email) Angelica Todd, GE (via email)

Matt Sausville, Ramboll (via email)

Paul Hare, Ramboll (via email)

MONTHLY PROGRESS REPORT

Order on Consent and Administrative Settlement (Index No. A4-0562-0806) GE Main Plant (Site No. 4-47-004) Schenectady, New York

Month Covered: December 2019

I. Actions Taken During Month:

- The Monthly Progress Report (MPR) was submitted to the New York State Departments of Environmental Conservation and Health (NYSDEC and NYSDOH, respectively) on or before December 15, 2019 (or the next business day if on a weekend or holiday).
- O'Brien & Gere Engineers, Inc. (OBG, a Ramboll company) continued operation, maintenance and monitoring (OM&M) of the Seep Collection and Treatment System (SCTS) throughout the month. OBG performed weekly sampling events on December 4, 11, 18 and 23, 2019. System information was collected and recorded during each site visit on operations log sheets, which are attached.
- OBG completed well sampling for the annual groundwater monitoring program on December 9, 2019.
- OBG completed the fourth quarter Shallow Groundwater Treatment System (SGTS) performance monitoring event on December 4, 5, 6 and 9, 2019.
- OBG completed the fourth quarter Polychlorinated Biphenyl (PCB) Minimization Work Plan sampling on December 11, 2019.
- OBG completed the fourth quarter light non-aqueous phase liquid (LNAPL) gauging and recovery event on December 17 and 18, 2019. Approximately 264 ounces of LNAPL was recovered. The LNAPL gauging and recovery measurement data sheet is attached.
- OBG completed the 2019 Agronomic Cover System Inspection Report. The report is attached. This report will also be included as an appendix to the 2019 Annual OM&M Report.
- GE continued working with NYSDEC's real estate group to draft the site's environmental covenant. The preparation of a site plan is pending approval from NYSDEC real estate group. Note that the Final Engineering Report cannot be submitted until (a) NYSDEC approves the Construction Completion Reports (CCRs) and (b) the environmental covenant is finalized and executed

II. Analytical and Other Results Obtained During Month:

- Weekly analytical results are attached for the samples collected from the SCTS on December 4, 11, 18 and 23, 2019.
- Analytical results are attached for the fourth quarter SGTS samples and the annual groundwater and surface water samples collected from December 4, 5, 6 and 9, 2019.

III. Deliverables Submitted or Approved During Month:

• OBG submitted the 2018 Annual OM&M Report to NYSDEC on December 20, 2019.

IV. Actions Scheduled for Following Month:

- GE will submit this MPR to NYSDEC and NYSDOH on or before January 15, 2020 (or the following business day if on a weekend or holiday).
- OBG will continue OM&M of the SCTS, including weekly effluent sampling.

V. Anticipated Delays and Mitigative Measures:

• None in December 2019.

VI. Proposed or Approved Modifications:

• None in December 2019.

VII. Citizen Participation Activities:

• None in December 2019.

Attachments



PARAMETER	UNITS	EQUIPMENT TA	G DESCRIPTION	DATE: TIME: INITIALS:	17/00	1800	1408	1400
SEEP COLLECTION PUMP STATIONS (S	EEP 1 - 4, SEEP S	AND SEEP 6)		I	10	10		7.0
SEEP 1 - 4 PUMP RUN	Y/N	P-100A	SEEP 1-4 P-STATION PUMP		Yes	V.es	yes	Ves
SEEP 5 PUMP RUN	Y/N	P-100B	SEEP 5 P-STATION PUMP		Ves	Ves	101	Ves
SEEP 6 PUMP RUN	Y/N	P-100C	SEEP 6 P-STATION PUMP		NB	1/1	NO	1/0
INFLUENT TANK (T-101)					710	700	,,,,	NO
FLOW METER - 100A (FM-A)	GPM	FQIT-100A	S1-4 IN-FLOW		21,25	19.8	26.1	20.3
FLOW METER - 100B (FM-B)	GPM	FQIT-100B	S5 IN-FLOW		43.82	42.75	43	39,8
FLOW METER - 100C (FM-C)	GPM	FQIT-100C	S6 IN-FLOW			-	-	_
FLOW METER - 101	GPM	FQIT-101	INF TK OUT-FLOW		33./	32.8	36.8	39.1
FLOW METER - 100A	TOTAL	FQIT-100A	S1-4 IN-FLOW		1497411	7 15 112,610	15.147,206	15 178.12.
FLOW METER - 100B	TOTAL	FQIT-100B	S5 IN-FLOW		2.016,104	2.97 875	2 118,177	2.136 018
FLOW METER - 100C	TOTAL	FQIT-100C	S6 IN-FLOW	1	640044	140044	140044	640,044
FLOW METER - 101	TOTAL	FQIT-101	INF TK OUT-FLOW		549, 9/1	5717,990	5.226.142	5,827,45
BLOWER RUNNING	Y/N	B-101	INF TK BLOWER		1/01/60	1/01	Vel	Vel
BLOWER PRESSURE	PSI	PI-101	INF TK BLOWER PRESS.		13	132'	3 000	200
VFD RATE	Hz	B-101	INF TK BLOWER VFD		DHZ	A 1-	50 PSI	3051
INF. PUMP A RUNNING	Y/N	P-101A	PUMP TO CLARIF.		1/2	1/0	No	No
VFD RATE	Hz	P-101A	PUMP TO CLARIF. VFD		100	No	700	-
INF PUMP PRESSURE	PSI	PI-101A	PI FOR INF. PUMP	1.			_	-
INF. PUMP B RUNNING	Y/N	P-101B	PUMP TO CLARIF.		1	1/0	ale	1.
VFD RATE	Hz	P-101B	PUMP TO CLARIF. VFD	-	NO	NO	N6	NO
	PSI	PI-101B	PI FOR INF. PUMP	-		_	_	
INF PUMP PRESSURE		- 3			7	210	00	200
INF Ph	SU	AIT-101	pH FOR INF, WATER	-	7.52	1.97	7.58	7.53
pH Probe checked	Y/N	AIT-101	pH Probe at influent tank	-	Yes	yes	yes	Yes
pH Probe clean (1X/week min)	Y/N	AIT-101	pH Probe at influent tank	_	Yes	Y.es	y. lis	Yes
NF TANK LEVEL	inwc	T-101	LEVEL TRANSMIT.		60.1	55.76	25.00	33.91
RECIRC PUMP RUNNING	Y/N	P-102	IN TK RECIRC PUMP		yes	yes	yes	yes
VFD RATE	Hz	P-102	IN TK RECIRC VFD		30H2	30HZ	35 Hz	3542
CAUSTIC PUMP RUNNING	Y/N	P-201	IN TK CAUSTIC ASS		Ves	yes	yes	xes.
CAUSTIC TANK LEVEL	GAL	T-201	IN TK CAUSTIC		65gal/34	1 6/00//3	56,1/29	50 al/20
CAUSTIC USAGE	GAL	T-201	CAUSTIC USAGE		4gal	4 gal	Gal	Egal
CAUSTIC USAGE	тот	T-201	CAUSTIC USAGE		_	-	_	-
CLARIFIER SYSTEM (T-103B)		C TYAALS	1					
FLASH MIX TANK MIXER RUN.	Y/N	M-102	COAG MIXER		yes	Yes	yes	Yes
COAGULANT PUMP RUNNING	Y/N	P-202	COAG PUMP		Ves	Yes	yes,	Yes
COAGULANT LEVEL	% Full	T-202	COAG TANK	1	4 29gal //6	"72gal/38"	70yal/37	4 67/
COAGULANT DOSE RATE	mg/l	FE-202	COAG FLOW TO TANK		16 seg/L	16mg/L	Kng/L	16 ng/L
FLOC TANK MIXER RUNNING	Y/N	M-103A	FLOC MIXER		121	Ves	Yes	Ves
FLOCCULANT PUMP RUNNING	Y/N	P-203	FLOC PUMP		Ves	Ves	Ked	Ves
FLOC LEVEL	% Full	T-203	FLOC TANK LEVEL		92 1/1	164 11	V" 14 11	1/1/11

PARAMETER	UNITS	EQUIPMENT TAG	DESCRIPTION	DATE:	11/22/19	12/2/19	12/3/19	12/9/19
				TIME: INITIALS:	118	180	T.B	74.60
FLOCCULANT DOSE RATE	GPM	FE-203	DILUTED FLOC TO FLOC MIX TK		1.00	0.80	,75	,75
CLARIFIER RAKE MIXER RUN.	Y/N	M-103B	CLARIFIER MIXER		Ves	Ves	Ves	Yes
CLARIFIER SLUDGE PUMP RUN.	Y/N	P-103	SLUDGE PUMP TO GEOTUBE		1/21	Ves	Yes	Ves
AIR COMPRESSOR RUNNING	Y/N	C-302	SLUDGE PUMP POWER		Vel	Ves	Yes	Ves
AIR COMPRESSOR PRESSURE	PSI	PI-302	AIR COMP. PRESSURE		140	135	146	146
CLARIFIER EFF TANK LEVEL	FEET	T-104	GRAVITY TANK POST CLAR.		2	3	3/2	2/254
CLARIFIER EFF PUMP A RUN	Y/N	P-104A	PUMP TO FILTRATION		Yes	Ves	Vel	V.o.A
VFD RATE	Hz	P-104A	PUMP RATE TO FILTRATION		38	38	35	35Hz
CLARIFIER EFF. PUMP PRESSURE	PSI	PI-104A	PUMP PRESSURE TO FILT.		4/1	46	40	38
CLARIFIER EFF PUMP B RUN	Y/N	P-104B	PUMP TO FILTRATION		No	NO	NO	No
VFD RATE	Hz	P-104B	PUMP RATE TO FILTRATION		-	-	-	-
CLARIFIER EFF. PUMP PRESSURE	PSI	PI-104B	PUMP PRESSURE TO FILT,		-	-	_	-
GEOTUBE SYSTEM								
GEOTUBE CONTAINER 1 LEVEL	EST.	G-101	GEOTUBE DEWATERING BOX		100 %	100/4	Pick up	Deap of A
GEOTUBE CONTAINER 2 LEVEL	EST.	G-102	GEOTUBE DEWATERING BOX		42	45	48	55%
GEOTUBE DISPOSAL	Y/N	G-101/G-102	GEOTUBE DEWATERING BOX		No	NO	NO	NO
GEOTUBE DISPOSAL QTY	TON	G-101/G-102	WEIGHT OF MATERIAL DISPOSED		_	-	-	_
POLYMER PUMP RUNNING	Y/N	P-205	POLY ADD TO SLUDGE		Yes	Yes	Yes	ves
POLYMER DOSE	GPM	FE-205	POLY FLOW TO SLUDGE		341	.341	1.341	.34/
POLYMER TANK LEVEL	% Full	T-205	POLYMER LEVEL IN TANK		6"	811	7"	11"
FILTRATION SYSTEM					1			
SAND FILTER A IN-USE	Y/N	TA-105A	SAND FILTER		Yes	Yes	yes	Ves
SAND FILTER A BACKWASH	Y/N	TA-105A	SAND FILTER		Yes	Jes	yes	Ves
INLET PRESSURE	PSI	PI-105A/PI-703	INLET PRESSURE TO SAND	1	30	30	30	33
OUTLET PRESSURE	PSI	PDSH-105A	OUTLET PRESS, TO BAG FIL.		18	12	16	18
PRESSURE DIFFERENTIAL	PSI	PDSH-105A	PRESSURE DIFFERNTIAL		12	13	14	15
SAND FILTER B IN-USE	Y/N	TA-105B	SAND FILTER		Yes	1.18	yes	Ves
SAND FILTER B BACKWASH	Y/N	TA-105B	SAND FILTER		Yes	Jes	1 ses	Ves
INLET PRESSURE	PSI	PI-105B/PI-703	INLET PRESSURE TO SAND		30	32	131	35
OUTLET PRESSURE	PSI	PDSH-105B	OUTLET PRESS. TO BAG FIL.		18	18	18	19
PRESSURE DIFFERENTIAL	PSI	PDSH-105B	PRESSURE DIFFERNTIAL		12	14	13	16
BAG FILTER 701 IN-USE	Y/N	F-701A	10, 5 and 1 MICRON BAG FILTER		NO	NO	NB	No
INLET PRESSURE	PSI	PI-701A	INLET PRESSURE IN BF		-	_	-	_
OUTLET PRESSURE	PSI	PI-704	OUTLET PRESSURE IN BF		-	-	-	_
PRESSURE DIFFERENTIAL	PSI	PDSH-701A	PRESSURE DIFFERNTIAL		-	_	-	-
BAG CHANGES	Y/N	F-701A	BAG FILTER		No	NO	NO	N.O
BAG FILTER 702 IN-USE	Y/N	F-702A	10, 5 and 1 MICRON BAG FILTER		No	NO	NO	NO
INLET PRESSURE	PSI	PI-702A	INLET PRESSURE IN BF		-	-	_	7
				-	_			7
OUTLET PRESSURE	PSI	PI-704	OUTLET PRESSURE IN BF			-		1-1

G

* Ready to Ship.

SCTP OMM ChecklistR3.xlsx

c.b

OPERATIONS LOG SHEET ENHANCED SEEP COLLECTION SYSTEM GENERAL ELECTRIC MAIN PLANT SCHENECTADY, NEW YORK

BAG CHANGE			G DESCRIPTION	DATE: TIME:	11/2/1/19	142/19	14/14/00	147119
BAG CHANGE				INITIALS:	7.8	7.3	1,3	7.8
And Chartoc	Y/N	F-702A	BAG FILTER		NO	No	NO	NO
CARBON FILTER 1 IN-USE	Y/N	TA-106A	CARBON FILTER	100	Ves	Ves	Yes	Yes
CARBON FILTER 1 BACKWASH	Y/N	TA-106A	CARBON FILTER		NO	NO	NO	NO
INLET PRESSURE	PSI	PI-106A	INLET PRESSURE FROM BF		5	5	5	5
OUTLET PRESSURE	PSI	PI-106B	OUTLET PRESS. TO EFF-TK		.9	8	2	8
PRESSURE DIFFERENTIAL	PSI		PRESSURE DIFFERNTIAL		.4	3	. 2	3
CARBON FILTER 2 IN-USE	Y/N	TA-106B	CARBON FILTER		Ves	Ves	Yes	Vel:
CARBON FILTER 2 BACKWASH	Y/N	TA-106B	CARBON FILTER		1/10	NO	NO	NO
NLET PRESSURE	PSI	PI-106B	INLET PRESSURE FROM BF	100	5	5	5	5
OUTLET PRESSURE	PSI		OUTLET PRESS. TO EFF-TK		10	9	10	9
PRESSURE DIFFERENTIAL	PSI		PRESSURE DIFFERNTIAL		.5	4	5	y
BACKWASH PUMP A RUN	Y/N	P-305A	BACKWASH PUMP TO FILT.		A/D	No	NO	No
BACKWASH PRESSURE	PSI	PI-305A	BACKWASH PRESSURE			-		
BACKWASH PUMP B RUN	Y/N	P-305B	BACKWASH PUMP TO FILT.		VAL	Yes	Vas	Ves
BACKWASH PRESSURE	PSI	PI-30BA	BACKWASH PRESSURE		190	90	25	90
FFLUENT AND FINAL HOLDING TANK (T-107 AND T-	401)			170		0	10
EFFLUENT FLOW METER	GPM	FQIT-107	FLOW RATE FROM FILTERS		143,59	43.39	42.19	43.1
FF. FLOW METER TOTAL	тот.	FQIT-107	TOTAL FLOW		3 924 348	4,112,697	4.161.636	4265 171
FFLUENT TANK LEVEL	inwc	T-107	TANK LEVEL		75.40	94,94	14.4	92.63
OH METER	SU	AIT-107	EFF. pH		8.42	839	8.43	0 24
DISSOLVED OXYGEN (DOM-107)	DO	AIT-107A	EFF.DO READING		12	.02	,02	02
URBIDITY (TBM-107)	NTU	AIT-107B	EFF. TURBIDITY		.47	,47,	,46	.46
INAL HOLIDING TANK LEVEL	FEET	T-401	FH TK LEVEL	10 1	34	2.47	.3	187
RRIG. PUMP RUNNING	Y/N	P-401	IRRIGATION SYSTEM		NA	ALO	NO	NO
/FD RATE	Hz	P-401	IRRIGATION SYSTEM	1 1	-	7	-	_
GRAVITY OUTFALL IN-USE	Y/N	OF-101	OUTFALL TO POENTIC KILL		Yes	Yes	1.	1/01
BUILDING SYSTEM COMPONENTS					120	700	1 10	14.00
XHAUST FAN NW IN-USE	Y/N	EF-1	EXHAUST FANS		No	No	NB	No
XHAUST FAN NE IN-USE	Y/N	EF-2	EXHAUST FANS		NO	No	NO	112
BUILDING HEATERS IN-USE	Y/N	UH-1-8	HEATERS		1/23	Ve	Vel	
BUILDING TEMPERATURE	DEG. F		BLDG. TEMP		1710	19.	14.	75.
OVERHEAD DOOR SW OPER.	Y/N		OVERHEAD DOOR		Ves	Yes	YU	V 28
OVERHEAD DOOR NE OPER.	Y/N		OVERHEAD DOOR		101	108	ves	1/ 0
OVERHEAD DOOR SE OPER.	Y/N		OVERHEAD DOOR		Vest	2/18	Ves	y es
Wilson Will In the Sta	Y/N		REMOTE TELEMETRY SYS		111	101	11.1	yes
SLDG CONT SYS OPERATIONAL	,,,,				Ves	VLA	100	Ves



PARAMETER	UNITS	EQUIPMENT TAG	DESCRIPTION	DATE: TIME:	12/5/19	12/10/19	14/1/19	12116119
				INITIALS:	4.16	4:3	7.3	13:00 E.T.
SEEP COLLECTION PUMP STATIONS (SEEP SEEP 1 - 4 PUMP RUN	Y/N	P-100A	SEEP 1-4 P-STATION PUMP		1./ 0	1.		Vac
	1		A.T. W. S. V. S. L. W. A. C. P. C.	_	Yes	y es	yes	yes
SEEP 5 PUMP RUN	Y/N	P-100B	SEEP 5 P-STATION PUMP		Yes	yes	yes	yes
SEEP 6 PUMP RUN	Y/N	P-100C	SEEP 6 P-STATION PUMP		NO	NO	NO	NO
NFLUENT TANK (T-101)	200				100		a	01.13
FLOW METER - 100A (FM-A)	GPM	FQIT-100A	51-4 IN-FLOW	_	19.5	19.8	20,51	21.13
FLOW METER - 100B (FM-B)	GPM	FQIT-100B	S5 IN-FLOW		38.9	35.7	35.46	36.01
FLOW METER - 100C (FM-C)	GPM	FQIT-100C	S6 IN-FLOW		_	_		_
FLOW METER - 101	GPM	FQIT-101	INF TK OUT-FLOW		37.5	41.2	38.2	37.2
FLOW METER - 100A	TOTAL	FQIT-100A	S1-4 IN-FLOW		15202,649	15,341,890	15372.305	15,517,665
FLOW METER - 100B	TOTAL	FQIT-100B	S5 IN-FLOW		1150, 836	2,350,962	1.256.533	2,355,22
FLOW METER - 100C	TOTAL	FQIT-100C	S6 IN-FLOW		640 044	141.844	14.044	640,045
FLOW METER - 101	TOTAL	FQIT-101	INF TK OUT-FLOW		5019,04	6 82 842	6,154,343	6,814,761
BLOWER RUNNING	Y/N	B-101	INF TK BLOWER		Y.U.	Vel	Val	1-e 5
BLOWER PRESSURE	PSI	PI-101	INF TK BLOWER PRESS.		3 05,	3psi	3081	5 05
VFD RATE	Hz	B-101	INF TK BLOWER VFD		50 KZ	3061	SOHZ	50 HZ
NF. PUMP A RUNNING	Y/N	P-101A	PUMP TO CLARIF.		NO	1	NO	
VFD RATE	Hz	P-101A	PUMP TO CLARIF. VFD		NO	NO	70	~
INF PUMP PRESSURE	PSI	PI-101A	PI FOR INF. PUMP					
A Seed of the Seed	Y/N	P-101B	PUMP TO CLARIF.	-	414	1.	1/1	
NF. PUMP B RUNNING		P-101B	PUMP TO CLARIF. VFD	-	NO	NO	NO	~0
VFD RATE	Hz		NAME OF THE OWNER OWNER OF THE OWNER OWNE					-,
NF PUMP PRESSURE	PSI	PI-101B	PI FOR INF. PUMP	-			- 1	-
NF Ph	SU	AIT-101	pH FOR INF. WATER	_	7.58	7.64	7.42	7.50
pH Probe checked	Y/N	AIT-101	pH Probe at influent tank		y w	yes	yes	Yes
pH Probe clean (1X/week min)	Y/N	AIT-101	pH Probe at influent tank		Yes	yes	NO	NO
NF TANK LEVEL	inwc	T-101	LEVEL TRANSMIT.		29.84	64,1	35.87	78.01
RECIRC PUMP RUNNING	Y/N	P-102	IN TK RECIRC PUMP	100	V-RJ	VU	yes	yes
VFD RATE	Hz	P-102	IN TK RECIRC VFD		135HZ	35Hz	35 Hz	3042
CAUSTIC PUMP RUNNING	Y/N	P-201	IN TK CAUSTIC ADD	/	Yes	Ves	Kes	Tes
CAUSTIC TANK LEVEL	gal	T-201	IN TK CAUSTIC ADD	. (35ml	6	324m	119
CAUSTIC USAGE	GAL	T-201	CAUSTIC USAGE	1	45al/24"	52gal/27"	68/125	48/255
CAUSTIC USAGE	тот	T-201	CAUSTIC USAGE		5 as	28cal	5901	1154
CLARIFIER SYSTEM (T-103B)								
FLASH MIX TANK MIXER RUN.	Y/N	M-102	COAG MIXER		Yes	Yes	yes	463
COAGULANT PUMP RUNNING	Y/N	P-202	COAG PUMP		YUS	yes.	" Ves	405
COAGULANT LEVEL	% Full	T-202	COAG TANK		66gal /35	520//303	55/1/29/4	4584/25
COAGULANT DOSE RATE	mg/l	FE-202	COAG FLOW TO TANK	1	16nd/c	16mg/L	Kingle	16 mg/L
FLOC TANK MIXER RUNNING	Y/N	M-103A	FLOC MIXER		Yes	Ves	Ves	Yes
LOCCULANT PUMP RUNNING	Y/N	P-203	FLOC PUMP		VI	Yes	Yes	Y29
LOC LEVEL	% Full	T-203	FLOC TANK LEVEL		-2 1/11	- 1103/	11/17/ 1/3	55-1/9.

OBG | THERE'S A WAY Adoled 35 gal of Caustin

PAGE 1 of 3 SCTP DMM ChecklistR3.xlsx

PARAMETER	UNITS	EQUIPMENT TAG	DESCRIPTION	DATE:	12/5/19	12/19/19	12/11/19	12/16/19
				TIME: INITIALS:	12/00	1380	1.3	13:00 E.T.
FLOCCULANT DOSE RATE	GPM	FE-203	DILUTED FLOC TO FLOC MIX TK		.75	.75	.75	.75
CLARIFIER RAKE MIXER RUN.	Y/N	M-103B	CLARIFIER MIXER		Ves	ves	Vel	Yes
CLARIFIER SLUDGE PUMP RUN.	Y/N	P-103	SLUDGE PUMP TO GEOTUBE		1/01	ves	Ves	105
AIR COMPRESSOR RUNNING	Y/N	C-302	SLUDGE PUMP POWER		111	Ves	Ves	yes
AIR COMPRESSOR PRESSURE	PSI	PI-302	AIR COMP. PRESSURE		140	140	140 ps:	140 051
CLARIFIER EFF TANK LEVEL	FEET	T-104	GRAVITY TANK POST CLAR.		34	2 84	24	3.5 FT.
CLARIFIER EFF PUMP A RUN	Y/N	P-104A	PUMP TO FILTRATION		Vel	Ves	Yes	Yes
VFD RATE	Hz	P-104A	PUMP RATE TO FILTRATION		2011-	35 Hz	35Hz	35 Hz
CLARIFIER EFF. PUMP PRESSURE	PSI	PI-104A	PUMP PRESSURE TO FILT.		35/2	0.		40 Psi
CLARIFIER EFF PUMP B RUN	Y/N	P-104B	PUMP TO FILTRATION		34 051	NO	30 psi	NO
VFD RATE	Hz	P-104B	PUMP RATE TO FILTRATION		NO	700	NO	
CLARIFIER EFF. PUMP PRESSURE	PSI	PI-104B	PUMP PRESSURE TO FILT.					-
GEOTUBE SYSTEM	131	11-1040	POMP PRESSORE TO FIEL.					
GEOTUBE CONTAINER 1 LEVEL	EST.	G-101	GEOTUBE DEWATERING BOX		0%	5%	5%	15 %
GEOTUBE CONTAINER 2 LEVEL	EST.	G-102	GEOTUBE DEWATERING BOX		10%	20%	25%	75%
GEOTUBE DISPOSAL	Y/N	G-101/G-102	GEOTUBE DEWATERING BOX		Val.	B. Lot 1/2	NA	NO
GEOTUBE DISPOSAL QTY	TON	G-101/G-102	WEIGHT OF MATERIAL DISPOSED		10	1	_	_
POLYMER PUMP RUNNING	Y/N	P-205	POLY ADD TO SLUDGE		Ves		Vel	V
POLYMER DOSE	GPM	FE-205	POLY FLOW TO SLUDGE		1341	345	345	.345
POLYMER TANK LEVEL	% Full	T-205	POLYMER LEVEL IN TANK		8"	1111	9"	9"
FILTRATION SYSTEM	1,112.22			-	10	//		1.
SAND FILTER A IN-USE	Y/N	TA-105A	SAND FILTER		Vei	Yes	Yes	4-e5
SAND FILTER A BACKWASH	Y/N	TA-105A	SAND FILTER		Val	Ves	Va	405
INLET PRESSURE	PSI	PI-105A/PI-703	INLET PRESSURE TO SAND		25	28	24	33
OUTLET PRESSURE	PSI	PDSH-105A	OUTLET PRESS. TO BAG FIL.		18	20	10	11
PRESSURE DIFFERENTIAL	PSI	PDSH-105A	PRESSURE DIFFERNTIAL		1	8	14	22
SAND FILTER B IN-USE	Y/N	TA-105B	SAND FILTER		Yes	Vel	Vel	4.05
SAND FILTER B BACKWASH	Y/N	TA-105B	SAND FILTER		Vel	Vel	1/4/	Yes
INLET PRESSURE	PSI	PI-105B/PI-703	INLET PRESSURE TO SAND		25	29	28	38
OUTLET PRESSURE	PSI	PDSH-105B	OUTLET PRESS. TO BAG FIL.		20	20	20	17
PRESSURE DIFFERENTIAL	PSI	PDSH-105B	PRESSURE DIFFERNTIAL		-	9	8	21
BAG FILTER 701 IN-USE	Y/N	F-701A	10, 5 and 1 MICRON BAG FILTER		No	NO	NO	10
INLET PRESSURE	PSI	PI-701A	INLET PRESSURE IN BF		7-	-	_	-
OUTLET PRESSURE	PSI	PI-704	OUTLET PRESSURE IN BF		_	-	-	_
PRESSURE DIFFERENTIAL	PSI	PDSH-701A	PRESSURE DIFFERNTIAL		-		_	-
BAG CHANGES	Y/N	F-701A	BAG FILTER		No	No	NO	~0
BAG FILTER 702 IN-USE	Y/N	F-702A	10, 5 and 1 MICRON BAG FILTER		NO	NO		179.3
INLET PRESSURE	PSI	PI-702A	INLET PRESSURE IN BF		-	_	NO	~~
OUTLET PRESSURE	PSI	PI-704	OUTLET PRESSURE IN BF		-	-	4	_
		20.5.5.5						



PARAMETER	UNITS	EQUIPMENT TAG	DESCRIPTION	DATE:	145/19	12/10/17	12/1/19	13:06
				TIME: INITIALS:	7.3	7.8	T.B	E.T.
BAG CHANGE	Y/N	F-702A	BAG FILTER		No	No	NO	NO
CARBON FILTER 1 IN-USE	Y/N	TA-106A	CARBON FILTER		V.es	Yes	Yes	Yes
CARBON FILTER 1 BACKWASH	Y/N	TA-106A	CARBON FILTER		NO	Yes	NO	NO
INLET PRESSURE	PSI	PI-106A	INLET PRESSURE FROM BF		5	4	5	5
OUTLET PRESSURE	PSI	PI-106B	OUTLET PRESS. TO EFF-TK		6	5	10	9
PRESSURE DIFFERENTIAL	PSI		PRESSURE DIFFERNTIAL		4	1	4	4
CARBON FILTER 2 IN-USE	Y/N	TA-106B	CARBON FILTER		Wal	Ves	Vos	Yes
CARBON FILTER 2 BACKWASH	Y/N	TA-106B	CARBON FILTER		110	Val	NO	NO
INLET PRESSURE	PSI	PI-106B	INLET PRESSURE FROM BF		-	14	5	.5
OUTLET PRESSURE	PSI		OUTLET PRESS. TO EFF-TK		2	5	10	10
PRESSURE DIFFERENTIAL	PSI		PRESSURE DIFFERNTIAL		2	1	-5	5
BACKWASH PUMP A RUN	Y/N	P-305A	BACKWASH PUMP TO FILT.		1/0	No	No	
BACKWASH PRESSURE	PSI	PI-305A	BACKWASH PRESSURE		NO	NO		NO
7.7.2.3.4.3.4.7.	Y/N	P-305B	BACKWASH PUMP TO FILT.		1.1	.1.1	11.1	101
BACKWASH PUMP B RUN			223		yes	yes.	0.	Yes
BACKWASH PRESSURE EFFLUENT AND FINAL HOLDING TANK	PSI (T-107 AND T-	PI-30BA	BACKWASH PRESSURE		95	40 psi	85 ps.	90 Psi
EFFLUENT FLOW METER	GPM	FQIT-107	FLOW RATE FROM FILTERS		42 6	38.9	48.9	40.36
EFF. FLOW METER TOTAL	тот.	FQIT-107	TOTAL FLOW		4 241144	4,435,492	4,477.660	5,974,68
EFFLUENT TANK LEVEL	inwc	T-107	TANK LEVEL		9191	95,24	91/2	102.32
pH METER	su	AIT-107	EFF. pH		751	8.04	7.68	7.65
DISSOLVED OXYGEN (DOM-107)	DO	AIT-107A	EFF.DO READING		1.0	,02	.02	.02
TURBIDITY (TBM-107)	NTU	AIT-107B	EFF. TURBIDITY		.02	41	111	.46
FINAL HOLIDING TANK LEVEL	FEET	T-401	FH TK LEVEL		176	1At	146	2'
	- 1		IRRIGATION SYSTEM	-	311	11.	1/2	7.00
IRRIG. PUMP RUNNING	Y/N	P-401	Committee of the commit		No	NO	NO	NO
VFD RATE	Hz	P-401	OUTFALL TO POENTIC KILL		1/01	1.1	Val	Yes
GRAVITY OUTFALL IN-USE	Y/N	OF-101	OUTFALL TO POENTIC KILL		yes	yes	pes	19
EXHAUST FAN NW IN-USE	Y/N	EF-1	EXHAUST FANS		No	NO	NO	NO
EXHAUST FAN NE IN-USE	Y/N	EF-2	EXHAUST FANS		No	NO	NO	~0
BUILDING HEATERS IN-USE	Y/N	UH-1-8	HEATERS		Vel	Yes	Kes	Yes
BUILDING TEMPERATURE	DEG. F		BLDG. TEMP		71	2	73	72
OVERHEAD DOOR SW OPER.	Y/N		OVERHEAD DOOR		Vel	Val	Ves	Yes
OVERHEAD DOOR NE OPER.	Y/N		OVERHEAD DOOR		1/.1	108	101	3,75
OVERHEAD DOOR SE OPER.	Y/N		OVERHEAD DOOR		Yels	700	1100	Y 25
BLDG CONT SYS OPERATIONAL	Y/N		REMOTE TELEMETRY SYS		Yes	yes	yes	Yes
GENERAL COMMENTS	Y/N		WEINIOTE TELEWIETKT 313		y es	yes	yes	1-7

PARAMETER	UNITS	EQUIPMENT TAG	DESCRIPTION	DATE: TIME:	1200	10/20/19	14:15	12100
SEEP COLLECTION PUMP STATIONS (SEE	1 - A STEC	E AND SEED CL		INITIALS:	1518	4.3	14'15 E.T.	12100 E.T.
SEEP 1 - 4 PUMP RUN	Y/N	P-100A	SEEP 1-4 P-STATION PUMP				Yes	M.
SEEP 5 PUMP RUN	Y/N	P-100B	Truck Control and	-	yes	yes	4	Yes
		5 - 5 V. W - 1	SEEP 5 P-STATION PUMP	_	Yus	Yes	res	yes
SEEP 6 PUMP RUN	Y/N	P-100C	SEEP 6 P-STATION PUMP		No	No	NO	NO
FLOW METER - 100A (FM-A)	GPM	FQIT-100A	S1-4 IN-FLOW		1001	629	21.82	22.11
FLOW METER - 100B (FM-B)	GPM	FQIT-100B	S5 IN-FLOW		23.7	226		
FLOW METER - 100C (FM-C)	GPM	FQIT-100C	S6 IN-FLOW	-	38.7	3/./	33.23	31.55
	P				7	204	110 5	21 00
FLOW METER - 101	GPM	FQIT-101	INF TK OUT-FLOW	_	28.8	3%.T	40.5	36.99
FLOW METER - 100A	TOTAL	FQIT-100A	S1-4 IN-FLOW		15,579,536	15,642,611	15,738,731	15,861,113
LOW METER - 100B	TOTAL	FQIT-100B	S5 IN-FLOW		395, 935	2,438,468	2,505,510	2,591, 188
LOW METER - 100C	TOTAL	FQIT-100C	S6 IN-FLOW		640,045	640,645	640,045	640,045
LOW METER - 101	TOTAL	FQIT-101	INF TK OUT-FLOW		6.508,907	6,612,496	6,769,984	6,970,955
BLOWER RUNNING	Y/N	B-101	INF TK BLOWER		Yes	Yes	Yes	Yes
BLOWER PRESSURE	PSI	PI-101	INF TK BLOWER PRESS.		5psi	5031	5 PS'	5 PS;
/FD RATE	Hz	B-101	INF TK BLOWER VFD		50Hz	SOHZ	50 Hz.	50 Hz
NF. PUMP A RUNNING O. S	Y/N	P-101A	PUMP TO CLARIF.		No	NO	NO	NO
/FD RATE	Hz	P-101A	PUMP TO CLARIF. VFD		740	_	_	-
NF PUMP PRESSURE	PSI	PI-101A	PI FOR INF. PUMP		-			_
NF. PUMP B RUNNING P.S	Y/N	P-101B	PUMP TO CLARIF.		1/0	No	110	NO
/FD RATE	Hz	P-101B	PUMP TO CLARIF. VFD		No	~	~0	
NF PUMP PRESSURE	PSI	PI-101B	PI FOR INF. PUMP		-	_	-	_
NF Ph	SU	AIT-101	pH FOR INF. WATER		1000	211	7-7	2110
oH Probe checked	Y/N		Total Control of the	-	7.53	1.61	7.52	7.47
		AIT-101	pH Probe at influent tank	_	yes	yes	Yes	Yes
oH Probe clean (1X/week min)	Y/N	AIT-101	pH Probe at influent tank		NO	NO	NO	Yes
NF TANK LEVEL	inwc	T-101	LEVEL TRANSMIT.		60.7	36.2	74.14	79.29
RECIRC PUMP RUNNING	Y/N	P-102	IN TK RECIRC PUMP	y y	135HZ	yes.	yes	yes
/FD RATE	Hz	P-102	IN TK RECIRC VFD		35/12	35Hz	_ 35 Hz	35 Hz
CAUSTIC PUMP RUNNING	Y/N	P-201	IN TK CAUSTIC ADD		Yes	Les	Yes	yes
CAUSTIC TANK LEVEL	gal	T-201	IN TK CAUSTIC ADD		4200	0	67 90 E.T	0
CAUSTIC USAGE	GAL	T-201	CAUSTIC USAGE		842/143"	78ad/40/2	678 at /35.2	57gal /29.7
AUSTIC USAGE	тот	T-201	CAUSTIC USAGE		62/	Gard	ligal	10 801
CLARIFIER SYSTEM (T-103B)						g	.	10 0-11
LASH MIX TANK MIXER RUN.	Y/N	M-102	COAG MIXER		yes	yes	425	res
OAGULANT PUMP RUNNING	Y/N	P-202	COAG PUMP		Ved	ves	Yes	res
OAGULANT LEVEL	% Full	T-202	COAG TANK		43gal/2311	400al/21"	34001/1825	70801/275
COAGULANT DOSE RATE	mg/l	FE-202	COAG FLOW TO TANK		16 mu/4	1601/1	16 mall	16 mg/L
LOC TANK MIXER RUNNING	Y/N	M-103A	FLOC MIXER		V	Yes	Yes	yes
LOCCULANT PUMP RUNNING	Y/N	P-203	FLOC PUMP		1/01	6	405	Yes
LOC LEVEL	% Full	T-203	FLOC TANK LEVEL	-	111.	1/2/1	101	10)

PAGE 1 of 3

PARAMETER	UNITS	EQUIPMENT TAG	DESCRIPTION	DATE: TIME:	12/18/19	12/20/19	14:15	12/27/21
				INITIALS:	4.8	7.3	E.7.	E. T.
FLOCCULANT DOSE RATE	GPM	FE-203	DILUTED FLOC TO FLOC MIX TK		.60	1.00g/c	1.0	1.0
CLARIFIER RAKE MIXER RUN.	Y/N	M-103B	CLARIFIER MIXER		Ves	ves	Y. E.S	Yes
CLARIFIER SLUDGE PUMP RUN.	Y/N	P-103	SLUDGE PUMP TO GEOTUBE		VII	vel	4-05	yes
AIR COMPRESSOR RUNNING	Y/N	C-302	SLUDGE PUMP POWER		VII	Ves	4.65	4.25
AIR COMPRESSOR PRESSURE	PSI	PI-302	AIR COMP. PRESSURE		140051	140	170	150
CLARIFIER EFF TANK LEVEL	FEET	T-104	GRAVITY TANK POST CLAR.		327	34+	3.5'	3'
CLARIFIER EFF PUMP A RUN	Y/N	P-104A	PUMP TO FILTRATION		Vel	Vei	Yes	Yes
VFD RATE	Hz	P-104A	PUMP RATE TO FILTRATION		35Hz	25	35	35
CLARIFIER EFF. PUMP PRESSURE	PSI	PI-104A	PUMP PRESSURE TO FILT.		35/12	26 '	21.000	
CLARIFIER EFF PUMP B RUN	Y/N	P-104B	PUMP TO FILTRATION	1	40 PS1	3905;	38 Psi	36 PSi
VFD RATE	Hz	P-104B	PUMP RATE TO FILTRATION	-	No	100	NO	_
				-	-			
CLARIFIER EFF. PUMP PRESSURE GEOTUBE SYSTEM	PSI	PI-104B	PUMP PRESSURE TO FILT.					
GEOTUBE CONTAINER 1 LEVEL	EST.	G-101	GEOTUBE DEWATERING BOX		18%	20	25%	30%
GEOTUBE CONTAINER 2 LEVEL	EST.	` G-102	GEOTUBE DEWATERING BOX		75%	020%	65%	60%
GEOTUBE DISPOSAL	Y/N	G-101/G-102	GEOTUBE DEWATERING BOX		No	No	NO	20
GEOTUBE DISPOSAL QTY	TON	G-101/G-102	WEIGHT OF MATERIAL DISPOSED	0	-	_	-	_
POLYMER PUMP RUNNING	Y/N	P-205	POLY ADD TO SLUDGE		V.I	ves	Yes	Yes
POLYMER DOSE	GPM	FE-205	POLY FLOW TO SLUDGE	-	.345			
POLYMER TANK LEVEL	% Full	T-205	POLYMER LEVEL IN TANK	-	393	1.587	.503 \ \ \ \ ''	*506
FILTRATION SYSTEM	70 Full	1-203	POETWIER EEVEE IN TANK		1 //	//	-	10
SAND FILTER A IN-USE	Y/N	TA-105A	SAND FILTER		Yes	Yes	Tes	yes
SAND FILTER A BACKWASH	Y/N	TA-105A	SAND FILTER		No	was	Yes	yes
INLET PRESSURE	PSI	PI-105A/PI-703	INLET PRESSURE TO SAND	7	30	30	30	32
OUTLET PRESSURE	PSI	PDSH-105A	OUTLET PRESS. TO BAG FIL.		10	10	10	12
PRESSURE DIFFERENTIAL	PSI	PDSH-105A	PRESSURE DIFFERNTIAL		20	20	20	20
SAND FILTER B IN-USE	Y/N	TA-105B	SAND FILTER	-	1/1/		705	Yes
SAND FILTER B BACKWASH	Y/N	TA-105B	SAND FILTER		yes.	ils		yes
INLET PRESSURE	PSI	PI-105B/PI-703	INLET PRESSURE TO SAND		No		7.e.s	
OUTLET PRESSURE	PSI	PDSH-105B	OUTLET PRESS. TO BAG FIL.	-	30	30	12	32
PRESSURE DIFFERENTIAL	PSI	PDSH-105B	PRESSURE DIFFERNTIAL	-	16	10	18	
		330333		-	20	20		18
BAG FILTER 701 IN-USE	Y/N	F-701A	10, 5 and 1 MICRON BAG FILTER		No	No	~0	NO
OUTLET PRESSURE	PSI	PI-701A	INLET PRESSURE IN BF		-	-		
OUTLET PRESSURE	PSI	PI-704	OUTLET PRESSURE IN BF	-	-			
PRESSURE DIFFERENTIAL	PSI	PDSH-701A	PRESSURE DIFFERNTIAL	-	-	_		1
BAG CHANGES	Y/N	F-701A	BAG FILTER		NO	NO	NO	NO
BAG FILTER 702 IN-USE	Y/N	F-702A	10, 5 and 1 MICRON BAG FILTER		NO	NO	~0	20
INLET PRESSURE	PSI	PI-702A	INLET PRESSURE IN BF					
OUTLET PRESSURE	PSI	PI-704	OUTLET PRESSURE IN BF		-		_	-
PRESSURE DIFFERENTIAL	PSI	PDSH-702A	PRESSURE DIFFERNTIAL		_			-

OBG | THERESAWA Dewater going good.

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PARAMETER	UNITS	EQUIPMENT TAG	DESCRIPTION	DATE: TIME:	12/18/19	12/80/19	12/23/19	12/27/19
				INITIALS:	9.13	7.3	14:15	E.T.
BAG CHANGE	Y/N	F-702A	BAG FILTER		No	NO	NO	100
CARBON FILTER 1 IN-USE	Y/N	TA-106A	CARBON FILTER		Yes	yes	yes	yes
CARBON FILTER 1 BACKWASH	Y/N	TA-106A	CARBON FILTER		No	NO	NO	NO
INLET PRESSURE	PSI	PI-106A	INLET PRESSURE FROM BF		5	5	5	5
OUTLET PRESSURE	PSI	PI-106B	OUTLET PRESS. TO EFF-TK		10	10	10	10
PRESSURE DIFFERENTIAL	PSI		PRESSURE DIFFERNTIAL		-5	-5	-5	-5
CARBON FILTER 2 IN-USE	Y/N	TA-106B	CARBON FILTER		Ved	Jus	yes	yes
CARBON FILTER 2 BACKWASH	Y/N	TA-106B	CARBON FILTER	1	No	NO	NO	20
INLET PRESSURE	PSI	PI-106B	INLET PRESSURE FROM BF		5	5	5	5
OUTLET PRESSURE	PSI		OUTLET PRESS. TO EFF-TK		16	10	10	10
PRESSURE DIFFERENTIAL	PSI		PRESSURE DIFFERNTIAL		-5	-5	-5	-5
BACKWASH PUMP A RUN	Y/N	P-305A	BACKWASH PUMP TO FILT.		No	No	NO	NO
BACKWASH PRESSURE	PSI	PI-305A	BACKWASH PRESSURE		700	_	_	_
BACKWASH PUMP B RUN	Y/N	P-305B	BACKWASH PUMP TO FILT.		Val	Ves	Yes	Yes
BACKWASH PRESSURE	PSI	PI-30BA	BACKWASH PRESSURE		9000	ba '	9085	90 Psi
EFFLUENT AND FINAL HOLDING TANK	(T-107 AND T-	401)			10 /51	187 ps1	1075	10 73,
EFFLUENT FLOW METER	GPM	FQIT-107	FLOW RATE FROM FILTERS		46,19	45.9	44.64	34.82
EFF. FLOW METER TOTAL	тот.	FQIT-107	TOTAL FLOW	4	772,264	4.858,009	4,988,876	
EFFLUENT TANK LEVEL	inwc	T-107	TANK LEVEL		101.7	98.26	89.77	83-41
pH METER	su	AIT-107	EFF. pH		7.76	7.81	7.72	7.68
DISSOLVED OXYGEN (DOM-107)	DO	AIT-107A	EFF.DO READING		.00	.02	.62	.07
TURBIDITY (TBM-107)	NTU	AIT-107B	EFF. TURBIDITY		.41	17	. 46	. 46
FINAL HOLIDING TANK LEVEL	FEET	T-401	FH TK LEVEL		3.4+	2-101	z'	2'
IRRIG. PUMP RUNNING	Y/N	P-401	IRRIGATION SYSTEM		No	114	NO	NO
VFD RATE	Hz	P-401	IRRIGATION SYSTEM		-	W 0	_	_
GRAVITY OUTFALL IN-USE	Y/N	OF-101	OUTFALL TO POENTIC KILL		Ves	Yes	Yes	Yes
BUILDING SYSTEM COMPONENTS					Y	Jus	P	19
EXHAUST FAN NW IN-USE	Y/N	EF-1	EXHAUST FANS		No	NO	NO	~0
EXHAUST FAN NE IN-USE	Y/N	EF-2	EXHAUST FANS		No	NO	NO	NO
BUILDING HEATERS IN-USE	Y/N	UH-1-8	HEATERS		Ves	ves	4.25	Yes
BUILDING TEMPERATURE	DEG. F		BLDG. TEMP		72.	70°	740	72"
OVERHEAD DOOR SW OPER.	Y/N		OVERHEAD DOOR		Vel	Yes	yes	res
OVERHEAD DOOR NE OPER.	Y/N		OVERHEAD DOOR	-	Vel	Yes	Y-25	yes
OVERHEAD DOOR SE OPER.	Y/N		OVERHEAD DOOR		ves	Vel	105	yes
BLDG CONT SYS OPERATIONAL	Y/N		REMOTE TELEMETRY SYS		World	1101	4.05	Yes
GENERAL COMMENTS					1/10	1	12'	10)



PARAMETER	UNITS	EQUIPMENT TAG	DESCRIPTION	DATE: TIME:	12/31/19	1/2/2020	1/3/2028	1/6/202
				INITIALS:	E.T.	F.B	7.3	7.8
SEEP COLLECTION PUMP STATIONS (SEI SEEP 1 - 4 PUMP RUN	Y/N	P-100A	SEEP 1-4 P-STATION PUMP					
		1 2 2 2			Yes	yes	Yes	yes
SEEP 5 PUMP RUN	Y/N	P-100B	SEEP 5 P-STATION PUMP	_	Tes	yes	yes	yes
SEEP 6 PUMP RUN	Y/N	P-100C	SEEP 6 P-STATION PUMP		Yes	NO	NO	NO
INFLUENT TANK (T-101) FLOW METER - 100A (FM-A)	GPM	FQIT-100A	51-4 IN-FLOW		24.45	04/	24.0	/
FLOW METER - 100B (FM-B)	GPM	2200510	S5 IN-FLOW	-	The second second	24.6		29
FLOW METER - 100C (FM-C)	GPM	FQIT-100C	S6 IN-FLOW	-	30.49	29.1	25.8	20.8
And The Party of t	1			-	44.73	-	6	6
FLOW METER - 101	GPM	FQIT-101	INF TK OUT-FLOW	_	52.23	44.5	7/.26	47.30
FLOW METER - 100A	TOTAL	FQIT-100A	S1-4 IN-FLOW		15,989,760	16,054,999	16,088, 758	16,197,414
FLOW METER - 100B	TOTAL	FQIT-100B	S5 IN-FLOW		2,690,860	2,745,909	2,773,685	2,866,5
FLOW METER - 100C	TOTAL	FQIT-100C	S6 IN-FLOW		642,304	43. 540	643,997	646,106
FLOW METER - 101	TOTAL	FQIT-101	INF TK OUT-FLOW		7,189,424	7.306,784	7.366, 814	7,564,65
BLOWER RUNNING	Y/N	B-101	INF TK BLOWER		yes	Ves	Vel	Ved
BLOWER PRESSURE	PSI	PI-101	INF TK BLOWER PRESS.		5.5	5.5	5.0	- 1
VFD RATE	Hz	B-101	INF TK BLOWER VFD				58 Hz	5.0
NF Ph	su	- V.A.	pH FOR INF. WATER		50 Hz	SOHZ	7,45	50 12
oH Probe checked					7.45	7.45	1110	1.91
	Y/N	AIT-101	pH Probe at influent tank		yes	yes	y as	yes
oH Probe clean (1X/week min)	Y/N	AIT-101	pH Probe at influent tank		NO	NO	yells	NO
NF TANK LEVEL	inwc	T-101	LEVEL TRANSMIT.		90.45	44.0	75.53	59.4
RECIRC PUMP RUNNING	Y/N	P-102	IN TK RECIRC PUMP		yes	Yes	yes	Yes
/FD RATE	Hz	P-102	IN TK RECIRC VFD		50 Hz	50Hz	50H2	50HZ
CAUSTIC PUMP RUNNING	Y/N	. P-201	IN TK CAUSTIC ADD		Yes	Vel	ved	Ves
CAUSTIC TANK LEVEL	ι	T-201	IN TK CAUSTIC ADD		13911	21-	1	4
CAUSTIC USAGE	GAL	T-201	CAUSTIC USAGE		4200/22"	Den 1/4,"	76ga/ /391/	10.1/22
CAUSTIC USAGE	тот	T-201	CAUSTIC USAGE		15	00901/12	regar join	12019
CLARIFIER SYSTEM (T-103B)						1030	7 gal	12.94
LASH MIX TANK MIXER RUN.	Y/N	M-102	COAG MIXER		Yes	Vel	yes	res
COAGULANT PUMP RUNNING	Y/N	P-202	COAG PUMP		yes	1	Ves	Vas
COAGULANT LEVEL	% Full	T-202	COAG TANK		62 gal /3325	52.1/2/11	es 1/30"	19.1/2/11
COAGULANT DOSE RATE	mg/l	FE-202	COAG FLOW TO TANK		16 20/1	11/1	11/1/1	11/1/1
LOC TANK MIXER RUNNING	Y/N	M-103A	FLOC MIXER		1000	16mg/2	/ ang/c	1/11
LOCCULANT PUMP RUNNING	Y/N	P-203	FLOC PUMP		403	yes	yes	y es
A CANON SERVICES					425	yes "	yes .	yes
LOC LEVEL	% Full	T-203	FLOC TANK LEVEL		784/13.5"	790/13/2	6/29/ /12/2	" sgal /9/2
LOCCULANT DOSE RATE	GPM	FE-203	DILUTED FLOC TO FLOC MIX TK		1.0	1.5	1.5	1.5
CLARIFIER RAKE MIXER RUN.	Y/N	M-103B	CLARIFIER MIXER		yes	yes	yes	Yes
CLARIFIER SLUDGE PUMP RUN.	Y/N	P-103	SLUDGE PUMP TO GEOTUBE		Yes '	Yes	Yes	ves
AIR COMPRESSOR RUNNING	Y/N	C-302	SLUDGE PUMP POWER		yes	Kes	Val	110

11

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PAGE 1 of 3 SCTP OV M ChecklistR3 xlsx



PARAMETER	UNITS	EQUIPMENT TAG	DESCRIPTION	DATE: TIME:	12/31/19	1/2/2020	1/3/2028	1/6/2020
				INITIALS:	12:00 E.T.	7.3	7.2	-K
AIR COMPRESSOR PRESSURE	PSI	PI-302	AIR COMP. PRESSURE		170	170	170	170
CLARIFIER EFF TANK LEVEL	FEET	T-104	GRAVITY TANK POST CLAR.		2.8'	3#	344	2.54
CLARIFIER EFF PUMP A RUN	Y/N	P-104A	PUMP TO FILTRATION		Yes	Yes	YU	Yes
VFD RATE	Hz	P-104A	PUMP RATE TO FILTRATION		3542	35 Hz	35 N2	35
CLARIFIER EFF. PUMP PRESSURE	PSI	PI-104A	PUMP PRESSURE TO FILT.		3504	38 ps;	40	40
CLARIFIER EFF PUMP B RUN	Y/N	P-104B	PUMP TO FILTRATION		~0	N6	No	NO
VFD RATE	Hz	P-104B	PUMP RATE TO FILTRATION		_	-	-	-
CLARIFIER EFF. PUMP PRESSURE	PSI	PI-104B	PUMP PRESSURE TO FILT.			_	_	-
GEOTUBE SYSTEM	1.77							
GEOTUBE CONTAINER 1 LEVEL	EST.	G-101	GEOTUBE DEWATERING BOX		35%	40%	40%.	40%
GEOTUBE CONTAINER 2 LEVEL	EST.	G-102	GEOTUBE DEWATERING BOX		60%	60%	65%	70%.
GEOTUBE DISPOSAL	Y/N	G-101/G-102	GEOTUBE DEWATERING BOX		~0	No	No	NO
GEOTUBE DISPOSAL QTY	TON	G-101/G-102	WEIGHT OF MATERIAL DISPOSED		_	_	_	_
POLYMER PUMP RUNNING	Y/N	P-205	POLY ADD TO SLUDGE		yes	Ves	VII	Vel
POLYMER DOSE	GPM	FE-205	POLY FLOW TO SLUDGE		. 560	.576	.568	1610
POLYMER TANK LEVEL	% Full	T-205	POLYMER LEVEL IN TANK		9"	1111	7"	1111
FILTRATION SYSTEM								"
SAND FILTER A IN-USE	Y/N	TA-105A	SAND FILTER		Yes	Ves	Ves	ves
SAND FILTER A BACKWASH	Y/N	TA-105A	SAND FILTER		NO	yes.	yes '	Ves
INLET PRESSURE	PSI	PI-105A/PI-703	INLET PRESSURE TO SAND		32	32	32	28
OUTLET PRESSURE	PSI	PDSH-105A	OUTLET PRESS. TO BAG FIL.		12	18	20	20
PRESSURE DIFFERENTIAL	PSI	PDSH-105A	PRESSURE DIFFERNTIAL		20	14	12	P
SAND FILTER B IN-USE	Y/N	TA-105B	SAND FILTER		yes	Vel	vel	Ves
SAND FILTER B BACKWASH	Y/N	TA-105B	SAND FILTER		~0	Yes	1111	1111
INLET PRESSURE	PSI	PI-105B/PI-703	INLET PRESSURE TO SAND		32	32	37	30
OUTLET PRESSURE	PSI	PDSH-105B	OUTLET PRESS. TO BAG FIL.		14	20	22	29
PRESSURE DIFFERENTIAL	PSI	PDSH-105B	PRESSURE DIFFERNTIAL		18	12	15	1
BAG FILTER 701 IN-USE	Y/N	F-701A	10, 5 and 1 MICRON BAG FILTER		NO	No	No	NO
INLET PRESSURE	PSI	PI-701A	INLET PRESSURE IN BF		_	_	_	-
OUTLET PRESSURE	PSI	PI-704	OUTLET PRESSURE IN BF		-		_	-
PRESSURE DIFFERENTIAL	PSI	PDSH-701A	PRESSURE DIFFERNTIAL		_	_		-
BAG CHANGES	Y/N	F-701A	BAG FILTER		_	_		-
BAG FILTER 702 IN-USE	Y/N	F-702A	10, 5 and 1 MICRON BAG FILTER		NO	16	No	11.
INLET PRESSURE	PSI	PI-702A	INLET PRESSURE IN BF		_	NO	7	NO
OUTLET PRESSURE	PSI	PI-704	OUTLET PRESSURE IN BF			-	_	100
PRESSURE DIFFERENTIAL	PSI	PDSH-702A	PRESSURE DIFFERNTIAL		_	-	-	_
The state of the s		1 - 7 - 1	Time of			_		
BAG CHANGE	Y/N	F-702A	BAG FILTER					- 17.4



PARAMETER	UNITS	EQUIPMENT TAG	DESCRIPTION	DATE: TIME:	12/31/19	1/2/2026	1030	1/6/20
				INITIALS:	E.T.	TR	7.13	7.8
CARBON FILTER 1 IN-USE	Y/N	TA-106A	CARBON FILTER		Yes	yes	Yes	Yes
CARBON FILTER 1 BACKWASH	Y/N	TA-106A	CARBON FILTER		NO	NO	yes	ves.
NLET PRESSURE	PSI	PI-106A	INLET PRESSURE FROM BF		5	5	5	5
DUTLET PRESSURE	PSI	PI-106B	OUTLET PRESS. TO EFF-TK		10	10	6	5
PRESSURE DIFFERENTIAL	PSI		PRESSURE DIFFERNTIAL		-5	5	1	B
CARBON FILTER 2 IN-USE	Y/N	TA-106B	CARBON FILTER		Yes	Ves	Ves	Ves
CARBON FILTER 2 BACKWASH	Y/N	TA-106B	CARBON FILTER		NO	NO	Yes	/uel
NLET PRESSURE	PSI	PI-106B	INLET PRESSURE FROM BF		5	5	5	15
DUTLET PRESSURE	PSI		OUTLET PRESS. TO EFF-TK	-	10	10	8	6
PRESSURE DIFFERENTIAL	PSI		PRESSURE DIFFERNTIAL		-5	5	3	1
BACKWASH PUMP A RUN	Y/N	P-305A	BACKWASH PUMP TO FILT.		NO	NO	No	NO
BACKWASH PRESSURE	PSI	PI-305A	BACKWASH PRESSURE		-	_	-	
BACKWASH PUMP B RUN	Y/N	P-305B	BACKWASH PUMP TO FILT.		NO	No	Ve	Yes
BACKWASH PRESSURE	PSI	PI-30BA	BACKWASH PRESSURE		-	-	100 001	11000
FFLUENT AND FINAL HOLDING TANK	(T-107 AND T-4	01)					PSI	
FFLUENT FLOW METER	GPM	FQIT-107	FLOW RATE FROM FILTERS		44.29	44,5	44.3	50.9
FF. FLOW METER TOTAL	тот.	FQIT-107	TOTAL FLOW		5,333,925	5,430,310	5,478,858	5,639,6
FFLUENT TANK LEVEL	inwc	T-107	TANK LEVEL		76.03	101.1	106.6	90.9
DH METER	SU	AIT-107	EFF. pH		7.74	7.73	7.71	7.68
DISSOLVED OXYGEN (DOM-107)	DO	AIT-107A	EFF.DO READING		.28	5.96	5.20	8.28
TURBIDITY (TBM-107)	NTU	AIT-1078	EFF. TURBIDITY		.46	,46	.46	146
FINAL HOLIDING TANK LEVEL	FEET	T-401	FH TK LEVEL		2'	24+	3 PT	2 At
RRIG. PUMP RUNNING	Y/N	P-401	IRRIGATION SYSTEM		~0	NO	No	1/0
/FD RATE	Hz	P-401	IRRIGATION SYSTEM		-	-	-	-
GRAVITY OUTFALL IN-USE	Y/N	OF-101	OUTFALL TO POENTIC KILL		Yes	Yes	Ves	Yes
BUILDING SYSTEM COMPONENTS							1	11
EXHAUST FAN NW IN-USE	Y/N	EF-1	EXHAUST FANS		NO	No	No	NO
EXHAUST FAN NE IN-USE	Y/N	EF-2	EXHAUST FANS		NO	NO	No	No
BUILDING HEATERS IN-USE	Y/N	UH-1-8	HEATERS		Yes	Yes	Kas	yes
BUILDING TEMPERATURE	DEG. F		BLDG. TEMP		72°	73'	72	172
OVERHEAD DOOR SW OPER.	Y/N		OVERHEAD DOOR		Yes	Yel	Yes	Yes
OVERHEAD DOOR NE OPER.	Y/N		OVERHEAD DOOR		Yes	Yes	Ves	yes
OVERHEAD DOOR SE OPER.	Y/N		OVERHEAD DOOR		725	YU	yes	Ves
BLDG CONT SYS OPERATIONAL	Y/N		REMOTE TELEMETRY SYS		tes	Ves	VIII	Ves
GENERAL COMMENTS			1		1-1	1	you	- Java





Project: GE MAIN PLANT FACILITY WEEKLY

Pace Project No.: 70114135

Date: 12/13/2019 12:57 PM

Sample: EFFLUENT	Lab ID: 701	14135001	Collected: 12/04/1	9 15:00	Received: 12	/05/19 10:55 M	latrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua	
608.3 GCSV PCB LOW	Analytical Meth	nod: EPA 60	08.3 Preparation Met	hod: EF	PA 608.3				
PCB-1016 (Aroclor 1016)	<0.065	ug/L	0.065	1	12/05/19 20:34	12/06/19 12:20	12674-11-2		
PCB-1221 (Aroclor 1221)	<0.065	ug/L	0.065	1	12/05/19 20:34	12/06/19 12:20	11104-28-2		
PCB-1232 (Aroclor 1232)	< 0.065	ug/L	0.065	1	12/05/19 20:34	12/06/19 12:20	11141-16-5		
PCB-1242 (Aroclor 1242)	< 0.065	ug/L	0.065	1	12/05/19 20:34	12/06/19 12:20	53469-21-9		
PCB-1248 (Aroclor 1248)	< 0.065	ug/L	0.065	1	12/05/19 20:34	12/06/19 12:20	12672-29-6		
PCB-1254 (Aroclor 1254)	< 0.065	ug/L	0.065	1	12/05/19 20:34	12/06/19 12:20	11097-69-1		
PCB-1260 (Aroclor 1260)	< 0.065	ug/L	0.065	1	12/05/19 20:34	12/06/19 12:20	11096-82-5		
PCB, Total Surrogates	<0.065	ug/L	0.065	1	12/05/19 20:34	12/06/19 12:20	1336-36-3		
Tetrachloro-m-xylene (S)	36	%	10-149	1	12/05/19 20:34	12/06/19 12:20	877-09-8		
Decachlorobiphenyl (S)	74	%	10-149	1		12/06/19 12:20			
200.7 Metals, Total	Analytical Meth	nod: EPA 20	00.7 Preparation Met	hod: EF	PA 200.7				
Aluminum	<200	ug/L	200	1	12/12/19 09:20	12/12/19 20:18	7429-90-5		
Iron	<100	ug/L	100	1	12/12/19 09:20	12/12/19 20:18	7439-89-6		
Lead	<5.0	ug/L	5.0	1	12/12/19 09:20	12/12/19 20:18	7439-92-1		
5210B BOD, 5 day	Analytical Meth	nod: SM22	5210B Preparation N	Method:	SM22 5210B				
BOD, 5 day	<2.0	mg/L	2.0	1	12/05/19 16:58	12/10/19 11:46			
5210B cBOD, 5 day	Analytical Meth	nod: SM22	5210B Preparation N	/lethod:	SM22 5210B				
Carbonaceous BOD, 5 day	<2.0	mg/L	2.0	1	12/05/19 16:58	12/10/19 11:44			
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	1.5	mg/L	0.10	1	12/12/19 09:19	12/12/19 16:51	7727-37-9		



Project: GE MAIN PLANT FACILITY WEEKLY

Pace Project No.: 70114135

Date: 12/13/2019 12:57 PM

Sample: EFFLUENT	Lab ID: 701	14135002	Collected: 12/04/1	9 13:40	Received: 12	2/05/19 10:55	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624.1 Volatile Organics	Analytical Met	hod: EPA 62	24.1					
Benzene	<1.0	ug/L	1.0	1		12/09/19 17:03	3 71-43-2	
Chlorobenzene	1.0	ug/L	1.0	1		12/09/19 17:03	3 108-90-7	
Ethylbenzene	<1.0	ug/L	1.0	1		12/09/19 17:03	3 100-41-4	
Toluene	<1.0	ug/L	1.0	1		12/09/19 17:03	3 108-88-3	
m&p-Xylene	<1.0	ug/L	1.0	1		12/09/19 17:03	3 179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		12/09/19 17:03	3 95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	103	%	79-124	1		12/09/19 17:03	3 460-00-4	
Toluene-d8 (S)	117	%	69-127	1		12/09/19 17:03	3 2037-26-5	
1,2-Dichloroethane-d4 (S)	101	%	68-153	1		12/09/19 17:03	3 17060-07-0	
2540C Total Dissolved Solids	Analytical Met	hod: SM22 2	2540C					
Total Dissolved Solids	652	mg/L	20.0	1		12/09/19 10:33	3	
2540D Total Suspended Solids	Analytical Met	nod: SM22 2	2540D					
Total Suspended Solids	<2.0	mg/L	2.0	1		12/09/19 15:15	5	



Project: GE MAIN PLANT FACILITY WEEKLY

Pace Project No.: 70114135

Date: 12/13/2019 12:57 PM

Sample: TRIP BLANK	Lab ID: 7011	14135003	Collected: 12/04/1	9 13:40	Received: 12	/05/19 10:55 I	Matrix: Water	•
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624.1 Volatile Organics	Analytical Meth	od: EPA 62	4.1					
Benzene	<1.0	ug/L	1.0	1		12/09/19 16:41	71-43-2	
Chlorobenzene	<1.0	ug/L	1.0	1		12/09/19 16:41	108-90-7	
Ethylbenzene	<1.0	ug/L	1.0	1		12/09/19 16:41	100-41-4	
Toluene	<1.0	ug/L	1.0	1		12/09/19 16:41	108-88-3	
m&p-Xylene	<1.0	ug/L	1.0	1		12/09/19 16:41	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		12/09/19 16:41	95-47-6	
Surrogates		_						
4-Bromofluorobenzene (S)	98	%	79-124	1		12/09/19 16:41	460-00-4	
Toluene-d8 (S)	112	%	69-127	1		12/09/19 16:41	2037-26-5	
1,2-Dichloroethane-d4 (S)	99	%	68-153	1		12/09/19 16:41	17060-07-0	



Project: GE MAIN PLANT FACILITY 12/11

Pace Project No.: 70115058

Date: 12/23/2019 11:55 AM

Sample: EFFLUENT	Lab ID: 701	15058001	Collected: 12/11/1	9 14:40	Received: 12	2/12/19 10:50 N	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
608.3 GCSV PCB LOW	Analytical Meth	nod: EPA 60	08.3 Preparation Met	hod: EF	PA 608.3			
PCB-1016 (Aroclor 1016)	<0.065	ug/L	0.065	1	12/12/19 21:25	12/12/19 23:56	12674-11-2	
PCB-1221 (Aroclor 1221)	< 0.065	ug/L	0.065	1	12/12/19 21:25	12/12/19 23:56	11104-28-2	
PCB-1232 (Aroclor 1232)	< 0.065	ug/L	0.065	1	12/12/19 21:25	12/12/19 23:56	11141-16-5	
PCB-1242 (Aroclor 1242)	< 0.065	ug/L	0.065	1	12/12/19 21:25	12/12/19 23:56	53469-21-9	
PCB-1248 (Aroclor 1248)	< 0.065	ug/L	0.065	1	12/12/19 21:25	12/12/19 23:56	12672-29-6	
PCB-1254 (Aroclor 1254)	< 0.065	ug/L	0.065	1	12/12/19 21:25	12/12/19 23:56	11097-69-1	
PCB-1260 (Aroclor 1260)	< 0.065	ug/L	0.065	1	12/12/19 21:25	12/12/19 23:56	11096-82-5	
PCB, Total	<0.065	ug/L	0.065	1	12/12/19 21:25	12/12/19 23:56	1336-36-3	
Surrogates Tetrachloro-m-xylene (S)	58	%	10-149	1	12/12/19 21:25	12/12/19 23:56	877-09-8	C2
Decachlorobiphenyl (S)	87	%	10-149	1	12/12/19 21:25	12/12/19 23:56	2051-24-3	C2
200.7 Metals, Total	Analytical Meth	nod: EPA 20	00.7 Preparation Met	hod: EF	PA 200.7			
Aluminum	<200	ug/L	200	1	12/17/19 11:23	12/17/19 23:41	7429-90-5	
Iron	132	ug/L	100	1	12/17/19 11:23	12/17/19 23:41	7439-89-6	
Lead	<5.0	ug/L	5.0	1	12/17/19 11:23	12/17/19 23:41	7439-92-1	
5210B BOD, 5 day	Analytical Meth	nod: SM22	5210B Preparation N	/lethod:	SM22 5210B			
BOD, 5 day	<2.0	mg/L	2.0	1	12/13/19 12:31	12/18/19 11:25		
5210B cBOD, 5 day	Analytical Meth	nod: SM22	5210B Preparation N	/lethod:	SM22 5210B			
Carbonaceous BOD, 5 day	<2.0	mg/L	2.0	1	12/13/19 12:30	12/18/19 11:23		
351.2 Total Kjeldahl Nitrogen	Analytical Meth	nod: EPA 3	51.2 Preparation Met	hod: EF	PA 351.2			
Nitrogen, Kjeldahl, Total	1.9	mg/L	0.10	1	12/19/19 09:33	12/19/19 17:09	7727-37-9	



Project: GE MAIN PLANT FACILITY 12/11

Pace Project No.: 70115058

Date: 12/23/2019 11:55 AM

Sample: EFFLUENT	Lab ID: 701	15058002	Collected: 12/11/1	9 13:00	Received: 12/12/19 10:50	Matrix: Water
Parameters	Results	Units	Report Limit	DF	Prepared Analyze	d CAS No. Qua
624.1 Volatile Organics	Analytical Meth	nod: EPA 62	24.1			
Benzene	<1.0	ug/L	1.0	1	12/13/19 19	:14 71-43-2
Chlorobenzene	<1.0	ug/L	1.0	1	12/13/19 19	:14 108-90-7
Ethylbenzene	<1.0	ug/L	1.0	1	12/13/19 19	:14 100-41-4
Toluene	<1.0	ug/L	1.0	1	12/13/19 19	:14 108-88-3
m&p-Xylene	<1.0	ug/L	1.0	1	12/13/19 19	:14 179601-23-1
o-Xylene	<1.0	ug/L	1.0	1	12/13/19 19	:14 95-47-6
Surrogates						
4-Bromofluorobenzene (S)	94	%	79-124	1	12/13/19 19	:14 460-00-4
Toluene-d8 (S)	104	%	69-127	1	12/13/19 19	:14 2037-26-5
1,2-Dichloroethane-d4 (S)	107	%	68-153	1	12/13/19 19	:14 17060-07-0
2540C Total Dissolved Solids	Analytical Meth	nod: SM22	2540C			
Total Dissolved Solids	630	mg/L	20.0	1	12/16/19 09	:40
2540D Total Suspended Solids	Analytical Meth	nod: SM22	2540D			
Total Suspended Solids	<2.0	mg/L	2.0	1	12/16/19 15	:31



Project: GE MAIN PLANT FACILITY 12/11

Pace Project No.: 70115058

Date: 12/23/2019 11:55 AM

Sample: TRIP BLANK	Lab ID: 701	15058003	Collected: 12/11/1	9 13:00	Received: 12	2/12/19 10:50 N	/latrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624.1 Volatile Organics	Analytical Meth	nod: EPA 624.	.1					
Benzene	<1.0	ug/L	1.0	1		12/13/19 18:52	71-43-2	
Chlorobenzene	<1.0	ug/L	1.0	1		12/13/19 18:52	108-90-7	
Ethylbenzene	<1.0	ug/L	1.0	1		12/13/19 18:52	100-41-4	
Toluene	<1.0	ug/L	1.0	1		12/13/19 18:52	108-88-3	
m&p-Xylene	<1.0	ug/L	1.0	1		12/13/19 18:52	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		12/13/19 18:52	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	93	%	79-124	1		12/13/19 18:52	460-00-4	
Toluene-d8 (S)	107	%	69-127	1		12/13/19 18:52	2037-26-5	
1,2-Dichloroethane-d4 (S)	103	%	68-153	1		12/13/19 18:52	17060-07-0	



Project: GE MAIN PLANT FACILITY 12/18

Pace Project No.: 70115957

Date: 12/27/2019 05:49 PM

Parameters Results Units Report Limit DF Prepared Analyzed CAS 608.3 GCSV PCB LOW Analytical Method: EPA 608.3 Preparation Method: EPA 608.3 PCB-1016 (Aroclor 1016) <0.065 ug/L 0.065 1 12/19/19 21:47 12/20/19 12:07 12674 PCB-1221 (Aroclor 1221) <0.065 ug/L 0.065 1 12/19/19 21:47 12/20/19 12:07 11104 PCB-1232 (Aroclor 1232) <0.065 ug/L 0.065 1 12/19/19 21:47 12/20/19 12:07 11141 PCB-1242 (Aroclor 1242) <0.065 ug/L 0.065 1 12/19/19 21:47 12/20/19 12:07 53465 PCB-1248 (Aroclor 1248) <0.065 ug/L 0.065 1 12/19/19 21:47 12/20/19 12:07 12672 PCB-1254 (Aroclor 1254) <0.065 ug/L 0.065 1 12/19/19 21:47 12/20/19 12:07 11097 PCB-1260 (Aroclor 1260) <0.065 ug/L 0.065 1 12/19/19 21:47 12/20/19 12:07 11096	S No. Qua
PCB-1016 (Aroclor 1016) value of the probability o	
PCB-1221 (Aroclor 1221) <0.065 ug/L 0.065 1 12/19/19 21:47 12/20/19 12:07 11104 PCB-1232 (Aroclor 1232) <0.065	
PCB-1232 (Aroclor 1232) <0.065 ug/L 0.065 1 12/19/19 21:47 12/20/19 12:07 11141 PCB-1242 (Aroclor 1242) <0.065	4-11-2
PCB-1242 (Aroclor 1242) <0.065 ug/L 0.065 1 12/19/19 21:47 12/20/19 12:07 53469 PCB-1248 (Aroclor 1248) <0.065	1-28-2
PCB-1248 (Aroclor 1248)	l-16-5
PCB-1254 (Aroclor 1254) <0.065 ug/L 0.065 1 12/19/19 21:47 12/20/19 12:07 11097	9-21-9
3	2-29-6
PCB-1260 (Aroclor 1260) <0.065 ug/L 0.065 1 12/19/19 21:47 12/20/19 12:07 11096	7-69-1
	3-82-5
PCB, Total <0.065 ug/L 0.065 1 12/19/19 21:47 12/20/19 12:07 1336-	-36-3
Surrogates	
Tetrachloro-m-xylene (S) 54 % 10-149 1 12/19/19 21:47 12/20/19 12:07 877-0)9-8
Decachlorobiphenyl (S) 81 % 10-149 1 12/19/19 21:47 12/20/19 12:07 2051-	·24-3
200.7 Metals, Total Analytical Method: EPA 200.7 Preparation Method: EPA 200.7	
Aluminum <200 ug/L 200 1 12/23/19 12:00 12/27/19 13:11 7429-	-90-5
Iron 196 ug/L 100 1 12/23/19 12:00 12/27/19 13:11 7439-	-89-6
Lead <5.0 ug/L 5.0 1 12/23/19 12:00 12/27/19 13:11 7439-	-92-1
5210B BOD, 5 day Analytical Method: SM22 5210B Preparation Method: SM22 5210B	
BOD, 5 day 3.2 mg/L 2.0 1 12/19/19 18:01 12/24/19 13:21	
5210B cBOD, 5 day Analytical Method: SM22 5210B Preparation Method: SM22 5210B	
Carbonaceous BOD, 5 day 2.9 mg/L 2.0 1 12/19/19 18:12 12/24/19 13:19	
351.2 Total Kjeldahl Nitrogen Analytical Method: EPA 351.2 Preparation Method: EPA 351.2	
Nitrogen, Kjeldahl, Total 2.1 mg/L 0.10 1 12/26/19 08:48 12/26/19 16:30 7727-	07.0



Project: GE MAIN PLANT FACILITY 12/18

Pace Project No.: 70115957

Date: 12/27/2019 05:49 PM

Sample: EFFLUENT	Lab ID: 701	15957002	Collected: 12/18/1	9 14:30	Received: 12	2/19/19 11:15	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624.1 Volatile Organics	Analytical Met	hod: EPA 624.	1					
Benzene	<1.0	ug/L	1.0	1		12/19/19 18:12	2 71-43-2	
Chlorobenzene	<1.0	ug/L	1.0	1		12/19/19 18:12	2 108-90-7	
Ethylbenzene	<1.0	ug/L	1.0	1		12/19/19 18:12	2 100-41-4	
Toluene	<1.0	ug/L	1.0	1		12/19/19 18:12	2 108-88-3	
m&p-Xylene	<1.0	ug/L	1.0	1		12/19/19 18:12	2 179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		12/19/19 18:12	2 95-47-6	
Surrogates 4-Bromofluorobenzene (S)	96	%	79-124	1		12/19/19 18:1:	2 460-00-4	
Toluene-d8 (S)	103	%	69-127	1		12/19/19 18:12	2 2037-26-5	
1,2-Dichloroethane-d4 (S)	104	%	68-153	1		12/19/19 18:12	2 17060-07-0	
2540C Total Dissolved Solids	Analytical Met	hod: SM22 254	40C					
Total Dissolved Solids	674	mg/L	20.0	1		12/23/19 09:1	7	
2540D Total Suspended Solids	Analytical Met	hod: SM22 254	40D					
Total Suspended Solids	<2.0	mg/L	2.0	1		12/24/19 11:38	3	



Project: GE MAIN PLANT FACILITY 12/18

Pace Project No.: 70115957

Date: 12/27/2019 05:49 PM

Sample: TRIP BLANK	Lab ID: 701	15957003	Collected: 12/18/1	19 10:00	Received: 12	2/19/19 11:15	Matrix: Water	•
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624.1 Volatile Organics	Analytical Meth	nod: EPA 624	1.1					
Benzene	<1.0	ug/L	1.0	1		12/19/19 17:50	71-43-2	
Chlorobenzene	<1.0	ug/L	1.0	1		12/19/19 17:50	108-90-7	
Ethylbenzene	<1.0	ug/L	1.0	1		12/19/19 17:50	100-41-4	
Toluene	<1.0	ug/L	1.0	1		12/19/19 17:50	108-88-3	
m&p-Xylene	<1.0	ug/L	1.0	1		12/19/19 17:50	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		12/19/19 17:50	95-47-6	
Surrogates		•						
4-Bromofluorobenzene (S)	101	%	79-124	1		12/19/19 17:50	460-00-4	
Toluene-d8 (S)	106	%	69-127	1		12/19/19 17:50	2037-26-5	
1,2-Dichloroethane-d4 (S)	99	%	68-153	1		12/19/19 17:50	17060-07-0	



Project: GE MIAN PLANT FACILITY 12/23

Pace Project No.: 70116400

Date: 01/02/2020 05:42 PM

Parameters	Results	Units	D (11. %					
			Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
08.3 GCSV PCB LOW	Analytical Meth	od: EPA 60	08.3 Preparation Met	hod: EP	A 608.3			
CB-1016 (Aroclor 1016)	<0.065	ug/L	0.065	1	12/26/19 18:04	12/27/19 19:18	12674-11-2	
CB-1221 (Aroclor 1221)	<0.065	ug/L	0.065	1	12/26/19 18:04	12/27/19 19:18	11104-28-2	
CB-1232 (Aroclor 1232)	<0.065	ug/L	0.065	1	12/26/19 18:04	12/27/19 19:18	11141-16-5	
CB-1242 (Aroclor 1242)	<0.065	ug/L	0.065	1	12/26/19 18:04	12/27/19 19:18	53469-21-9	
CB-1248 (Aroclor 1248)	< 0.065	ug/L	0.065	1	12/26/19 18:04	12/27/19 19:18	12672-29-6	
CB-1254 (Aroclor 1254)	<0.065	ug/L	0.065	1	12/26/19 18:04	12/27/19 19:18	11097-69-1	
CB-1260 (Aroclor 1260)	< 0.065	ug/L	0.065	1	12/26/19 18:04	12/27/19 19:18	11096-82-5	
CB, Total	<0.065	ug/L	0.065	1	12/26/19 18:04	12/27/19 19:18	1336-36-3	
Surrogates								
etrachloro-m-xylene (S)	59	%	10-149	1		12/27/19 19:18		C2
ecachlorobiphenyl (S)	68	%	10-149	1	12/26/19 18:04	12/27/19 19:18	2051-24-3	
00.7 Metals, Total	Analytical Meth	od: EPA 20	00.7 Preparation Met	hod: EP	A 200.7			
luminum	<200	ug/L	200	1	12/27/19 12:00	12/31/19 19:06	7429-90-5	
on	317	ug/L	100	1	12/27/19 12:00	12/31/19 19:06	7439-89-6	
ead	<5.0	ug/L	5.0	1	12/27/19 12:00	12/31/19 19:06	7439-92-1	
210B BOD, 5 day	Analytical Meth	od: SM22	5210B Preparation N	/lethod:	SM22 5210B			
OD, 5 day	<2.0	mg/L	2.0	1	12/24/19 16:55	12/29/19 10:26		
210B cBOD, 5 day	Analytical Meth	od: SM22	5210B Preparation N	/lethod:	SM22 5210B			
Carbonaceous BOD, 5 day	<2.0	mg/L	2.0	1	12/24/19 16:55	12/29/19 10:24		
51.2 Total Kjeldahl Nitrogen	Analytical Meth	od: EPA 35	51.2 Preparation Met	hod: EP	A 351.2			
litrogen, Kjeldahl, Total	2.0	mg/L	0.10	1	12/31/19 07:56	12/31/19 15:18	7727-37-9	



Project: GE MIAN PLANT FACILITY 12/23

Pace Project No.: 70116400

Date: 01/02/2020 05:42 PM

Sample: EFFLUENT	Lab ID: 701	16400002	Collected: 12/23/1	9 15:15	Received: 12	/24/19 11:20 I	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624.1 Volatile Organics	Analytical Met	nod: EPA 62	4.1					
Benzene	<1.0	ug/L	1.0	1		12/27/19 21:14	1 71-43-2	
Chlorobenzene	3.5	ug/L	1.0	1		12/27/19 21:14	108-90-7	
Ethylbenzene	<1.0	ug/L	1.0	1		12/27/19 21:14	1 100-41-4	
Toluene	<1.0	ug/L	1.0	1		12/27/19 21:14	1 108-88-3	
m&p-Xylene	<1.0	ug/L	1.0	1		12/27/19 21:14	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		12/27/19 21:14	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	90	%	79-124	1		12/27/19 21:14	460-00-4	
Toluene-d8 (S)	122	%	69-127	1		12/27/19 21:14	1 2037-26-5	
1,2-Dichloroethane-d4 (S)	105	%	68-153	1		12/27/19 21:14	17060-07-0	
2540C Total Dissolved Solids	Analytical Met	nod: SM22 2	2540C					
Total Dissolved Solids	738	mg/L	20.0	1		12/27/19 13:38	3	
2540D Total Suspended Solids	Analytical Met	nod: SM22 2	2540D					
Total Suspended Solids	<2.0	mg/L	2.0	1		12/27/19 11:13	3	



Project: GE MIAN PLANT FACILITY 12/23

Pace Project No.: 70116400

Date: 01/02/2020 05:42 PM

Sample: TRIP BLANK	Lab ID: 701	164000 03 C	collected: 12/23/1	9 15:15	Received: 12	2/24/19 11:20 N	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624.1 Volatile Organics	Analytical Met	hod: EPA 624.1						
Benzene	<1.0	ug/L	1.0	1		12/27/19 21:36	71-43-2	
Chlorobenzene	<1.0	ug/L	1.0	1		12/27/19 21:36	108-90-7	
Ethylbenzene	<1.0	ug/L	1.0	1		12/27/19 21:36	100-41-4	
Toluene	<1.0	ug/L	1.0	1		12/27/19 21:36	108-88-3	
m&p-Xylene	<1.0	ug/L	1.0	1		12/27/19 21:36	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		12/27/19 21:36	95-47-6	
Surrogates		-						
4-Bromofluorobenzene (S)	87	%	79-124	1		12/27/19 21:36	460-00-4	
Toluene-d8 (S)	119	%	69-127	1		12/27/19 21:36	2037-26-5	
1,2-Dichloroethane-d4 (S)	103	%	68-153	1		12/27/19 21:36	17060-07-0	





ELLE Sample #: WW 1215503

2077620

GE-O'Brien & Gere, Inc.

Matrix: Surface Water

ELLE Group #:

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Sample Description: SW-4-120419 Grab Surface Water

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/05/2019 11:12 Collection Date/Time: 12/04/2019 13:15

SDG#: SMP18-01

CAT No.	Analysis Name		CAS Number	Result		Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260	C 25mL	ug/l		ug/l	ug/l	
		purge						
11996	Acetone	. •	67-64-1	N.D.		5.0	0.9	1
11996	Benzene		71-43-2	0.07 J		0.5	0.05	1
11996	2-Butanone		78-93-3	N.D.		5.0	0.6	1
11996	Chlorobenzene		108-90-7	0.2 J		0.5	0.06	1
11996	Chloroethane		75-00-3	0.1 J		0.5	0.07	1
11996	Cyclohexane		110-82-7	N.D.		0.5	0.05	1
11996	1,2-Dichlorobenzene		95-50-1	N.D.		0.5	0.06	1
11996	1,3-Dichlorobenzene		541-73-1	N.D.		0.5	0.06	1
11996	1,4-Dichlorobenzene		106-46-7	N.D.		0.5	0.07	1
11996	1,1-Dichloroethane		75-34-3	N.D.		0.5	0.07	1
11996	1,2-Dichloroethane		107-06-2	N.D.		0.5	0.05	1
11996	1,1-Dichloroethene		75-35-4	N.D.		0.5	0.06	1
11996	cis-1,2-Dichloroethene		156-59-2	0.07 J		0.5	0.05	1
11996	trans-1,2-Dichloroethene		156-60-5	N.D.		0.5	0.06	1
11996	1,2-Dichloroethene (Total)1	540-59-0	N.D.		1.0	0.1	1
11996	Ethylbenzene		100-41-4	0.5		0.5	0.06	1
11996	Isopropylbenzene		98-82-8	N.D.		0.5	0.05	1
11996	4-Methyl-2-Pentanone		108-10-1	N.D.		5.0	0.7	1
11996	Methylcyclohexane		108-87-2	N.D.		0.5	0.05	1
11996	Methylene Chloride		75-09-2	N.D.		0.5	0.07	1
11996	Tetrachloroethene		127-18-4	N.D.		0.5	0.06	1
11996	Toluene		108-88-3	2.5		0.5	0.07	1
11996	1,1,1-Trichloroethane		71-55-6	0.1 J		0.5	0.06	1
11996	Trichloroethene		79-01-6	N.D.		0.5	0.06	1
11996	Vinyl Chloride		75-01-4	N.D.		0.5	0.1	1
11996	Xylene (Total)		1330-20-7	2.9		1.0	0.2	1
		DOL(00D 475		//		/1		
	scellaneous	RSKSOP-175		ug/l		ug/l	ug/l	
07105	Ethane		74-84-0	1.1 J		5.0	1.0	1
07105	Ethene		74-85-1	N.D.		5.0	1.0	1
07105	Methane		74-82-8	100		5.0	3.0	1
Wet Ch	nemistry	EPA 300.0		mg/l		mg/l	mg/l	
00224	Chloride		16887-00-6	169		20.0	10.0	50
00368	Nitrate Nitrogen		14797-55-8	1.5		0.50	0.25	5
	Sample was analyzed within the 48 hour holding time; however the client requirement of analyzing a high and low standard with the sample was not done. Sample was repeated outside of the hold on 12/09/2019 with a result of 1.5 mg/l and with the client requirement of analyzing a high and low standard.							
00228	Sulfate		14808-79-8	36.3		5.0	1.5	5

^{*=}This limit was used in the evaluation of the final result



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Sample Description: SW-4-120419 Grab Surface Water

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/05/2019 11:12 Collection Date/Time: 12/04/2019 13:15

SDG#: SMP18-01

GE-O	'Brien &	Gere,	Inc.
	C	ш.	VALVAL 4 O.

ELLE Sample #: WW 1215503 ELLE Group #: 2077620 Matrix: Surface Water

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Wet Chemistry		SM 5310 C-2011	mg/l	mg/l	mg/l	
00273	Total Organic Carbon	n.a.	2.5	1.0	0.50	1
		SM 2320 B-2011	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	186	8.0	2.6	1
12149	Bicarbonate Alkalinity	n.a.	186	8.0	2.6	1

Sample Comments

State of New York Certification No. 10670

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H193401AA	12/06/2019 12:50	Don V Viray	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	H193401AA	12/06/2019 12:49	Don V Viray	1
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	193400002A	12/09/2019 14:54	Johanna C Kennedy	1
00224	Chloride	EPA 300.0	2	19339720117B	12/09/2019 15:34	Kevin Litwa	50
00368	Nitrate Nitrogen	EPA 300.0	1	19339720117B	12/05/2019 18:30	Samantha Faverio	5
00228	Sulfate	EPA 300.0	2	19339720117B	12/09/2019 15:16	Kevin Litwa	5
00273	Total Organic Carbon	SM 5310 C-2011	1	19345304501A	12/11/2019 13:43	Bethany Sandone	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19340003102A	12/06/2019 21:22	Jeremy L Bolf	1
12149	Bicarbonate Alkalinity	SM 2320 B-2011	1	19340003102A	12/06/2019 21:22	Jeremy L Bolf	1

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

^{*=}This limit was used in the evaluation of the final result



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Sample Description: SW-4-120419 Filtered Grab Surface Water

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/05/2019 11:12 Collection Date/Time: 12/04/2019 13:15

SDG#: SMP18-02

GE-O'Brien & Gere, Inc.

ELLE Sample #: WW 1215504 ELLE Group #: 2077620

Matrix: Surface Water

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Metals Dissolved		SW-846 6010D Rev.4, July 2014	mg/l	mg/l	mg/l	
01754	Iron	7439-89-6	0.307	0.200	0.0400	1

Sample Comments

State of New York Certification No. 10670 This sample was field filtered for dissolved metals.

	Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor		
01754	Iron	SW-846 6010D Rev.4, July 2014	1	193431404406	12/10/2019 12:33	Lisa J Cooke	1		
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	193431404406	12/10/2019 04:17	James L Mertz	1		



ELLE Sample #: WW 1215505

2077620

GE-O'Brien & Gere, Inc.

Matrix: Surface Water

ELLE Group #:

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Sample Description: SW-3-120419 Grab Surface Water

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/05/2019 11:12 Collection Date/Time: 12/04/2019 15:00

SDG#: SMP18-03

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor		
GC/MS	Volatiles	SW-846 8260C 25mL	ug/l	ug/l	ug/l			
		purge						
11996	Acetone	67-64-1	N.D.	5.0	0.9	1		
11996	Benzene	71-43-2	0.07 J	0.5	0.05	1		
11996	2-Butanone	78-93-3	N.D.	5.0	0.6	1		
11996	Chlorobenzene	108-90-7	0.08 J	0.5	0.06	1		
11996	Chloroethane	75-00-3	0.1 J	0.5	0.07	1		
11996	Cyclohexane	110-82-7	0.1 J	0.5	0.05	1		
11996	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	0.06	1		
11996	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	0.06	1		
11996	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	0.07	1		
11996	1,1-Dichloroethane	75-34-3	N.D.	0.5	0.07	1		
11996	1,2-Dichloroethane	107-06-2	N.D.	0.5	0.05	1		
11996	1,1-Dichloroethene	75-35-4	N.D.	0.5	0.06	1		
11996	cis-1,2-Dichloroethene	156-59-2	0.08 J	0.5	0.05	1		
11996	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	0.06	1		
11996	1,2-Dichloroethene (Total))1 540-59-0	N.D.	1.0	0.1	1		
11996	Ethylbenzene	100-41-4	0.7	0.5	0.06	1		
11996	Isopropylbenzene	98-82-8	N.D.	0.5	0.05	1		
11996	4-Methyl-2-Pentanone	108-10-1	N.D.	5.0	0.7	1		
11996	Methylcyclohexane	108-87-2	N.D.	0.5	0.05	1		
11996	Methylene Chloride	75-09-2	N.D.	0.5	0.07	1		
11996	Tetrachloroethene	127-18-4	N.D.	0.5	0.06	1		
11996	Toluene	108-88-3	3.2	0.5	0.07	1		
11996	1,1,1-Trichloroethane	71-55-6	0.2 J	0.5	0.06	1		
11996	Trichloroethene	79-01-6	N.D.	0.5	0.06	1		
11996	Vinyl Chloride	75-01-4	N.D.	0.5	0.1	1		
11996	Xylene (Total)	1330-20-7	3.7	1.0	0.2	1		
GC Mis	cellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l			
07105	Ethane	74-84-0	N.D.	5.0	1.0	1		
07105	Ethene	74-85-1	N.D.	5.0	1.0	1		
07105	Methane	74-82-8	39	5.0	3.0	1		
Wet Ch	emistry	EPA 300.0	mg/l	mg/l	mg/l			
00224	Chloride	16887-00-6	173	20.0	10.0	50		
00368	Nitrate Nitrogen	14797-55-8	1.6	0.50	0.25	5		
	Sample was analyzed within the 48 hour holding time; however the client requirement of analyzing a high and low standard with the sample was not done. Sample was repeated outside of the hold on 12/11/2019 with a result of 1.7 mg/l and with the client requirement of analyzing a high and low standard.							
00228	Sulfate	14808-79-8	38.9	5.0	1.5	5		

^{*=}This limit was used in the evaluation of the final result



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Sample Description: SW-3-120419 Grab Surface Water

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/05/2019 11:12 Collection Date/Time: 12/04/2019 15:00

SDG#: SMP18-03

GE	-0	'Brien	&	Gere,	Inc.	
		_	-			

ELLE Sample #: WW 1215505 ELLE Group #: 2077620

Matrix: Surface Water

CAT No.	Analysis Name	C	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Wet Chemistry		SM 5310 C-201	11	mg/l	mg/l	mg/l	
00273	Total Organic Carbon	n	ı.a.	2.4	1.0	0.50	1
		SM 2320 B-201	11	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n	ı.a.	180	8.0	2.6	1
12149	Bicarbonate Alkalinity	n	ı.a.	180	8.0	2.6	1

Sample Comments

State of New York Certification No. 10670

Laboratory Sample Analysis Record Method Trial# Batch# CAT **Analysis Name Analysis** Analyst Dilution **Date and Time** No. **Factor** 11996 VOCs 8260C SW-846 8260C 25mL 1 H193401AA 12/06/2019 13:11 Don V Viray purge 01163 GC/MS VOA Water Prep SW-846 5030C 1 H193401AA 12/06/2019 13:10 Don V Viray 1 07105 Methane, Ethane, Ethene RSKSOP-175 modified 193400002A 12/09/2019 15:12 Johanna C Kennedy 00224 Chloride EPA 300.0 2 19339720117B 12/11/2019 13:47 Samantha Faverio 50 00368 Nitrate Nitrogen EPA 300.0 19339720117B 12/05/2019 19:15 Samantha Faverio 5 00228 Sulfate EPA 300.0 2 19339720117B 12/11/2019 13:29 Samantha Faverio 5 Total Organic Carbon 00273 SM 5310 C-2011 1 19345304501A 12/11/2019 13:56 Bethany Sandone 1 12150 Total Alkalinity to pH 4.5 SM 2320 B-2011 19340003103B 12/06/2019 23:38 Jeremy L Bolf 1 1 12149 Bicarbonate Alkalinity SM 2320 B-2011 19340003103B 12/06/2019 23:38 Jeremy L Bolf 1

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

^{*=}This limit was used in the evaluation of the final result



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Sample Description: SW-3-120419 Filtered Grab Surface Water

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/05/2019 11:12 Collection Date/Time: 12/04/2019 15:00

SDG#: SMP18-04

GE-O'Brien & Gere, Inc.

ELLE Sample #: WW 1215506 ELLE Group #: 2077620

Matrix: Surface Water

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Metals Dissolved		SW-846 6010D Rev.4, July 2014	mg/l	mg/l	mg/l	
01754	Iron	7439-89-6	0.0535 J	0.200	0.0400	1

Sample Comments

State of New York Certification No. 10670 This sample was field filtered for dissolved metals.

	Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor		
01754	Iron	SW-846 6010D Rev.4, July 2014	1	193431404406	12/10/2019 12:39	Lisa J Cooke	1		
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	193431404406	12/10/2019 04:17	James L Mertz	1		

^{*=}This limit was used in the evaluation of the final result



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Sample Description: TB-09-120419 Water

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

 Submittal Date/Time:
 12/05/2019 11:12

 Collection Date/Time:
 12/04/2019

 SDG#:
 SMP18-05TB

GE-O'Brien & Gere, Inc.

ELLE Sample #: WW 1215507

ELLE Group #: 2077620

Matrix: Water

CAT No.	Analysis Name		CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 82600 purge	C 25mL	ug/l	ug/l	ug/l	
11996	Acetone		67-64-1	N.D.	5.0	0.9	1
11996	Benzene		71-43-2	N.D.	0.5	0.05	1
11996	2-Butanone		78-93-3	N.D.	5.0	0.6	1
11996	Chlorobenzene		108-90-7	N.D.	0.5	0.06	1
11996	Chloroethane		75-00-3	N.D.	0.5	0.07	1
11996	Cyclohexane		110-82-7	N.D.	0.5	0.05	1
11996	1,2-Dichlorobenzene		95-50-1	N.D.	0.5	0.06	1
11996	1,3-Dichlorobenzene		541-73-1	N.D.	0.5	0.06	1
11996	1,4-Dichlorobenzene		106-46-7	N.D.	0.5	0.07	1
11996	1,1-Dichloroethane		75-34-3	N.D.	0.5	0.07	1
11996	1,2-Dichloroethane		107-06-2	N.D.	0.5	0.05	1
11996	1,1-Dichloroethene		75-35-4	N.D.	0.5	0.06	1
11996	cis-1,2-Dichloroethene		156-59-2	N.D.	0.5	0.05	1
11996	trans-1,2-Dichloroethene		156-60-5	N.D.	0.5	0.06	1
11996	1,2-Dichloroethene (Total)1	540-59-0	N.D.	1.0	0.1	1
11996	Ethylbenzene		100-41-4	N.D.	0.5	0.06	1
11996	Isopropylbenzene		98-82-8	N.D.	0.5	0.05	1
11996	4-Methyl-2-Pentanone		108-10-1	N.D.	5.0	0.7	1
11996	Methylcyclohexane		108-87-2	N.D.	0.5	0.05	1
11996	Methylene Chloride		75-09-2	N.D.	0.5	0.07	1
11996	Tetrachloroethene		127-18-4	N.D.	0.5	0.06	1
11996	Toluene		108-88-3	N.D.	0.5	0.07	1
11996	1,1,1-Trichloroethane		71-55-6	N.D.	0.5	0.06	1
11996	Trichloroethene		79-01-6	N.D.	0.5	0.06	1
11996	Vinyl Chloride		75-01-4	N.D.	0.5	0.1	1
11996	Xylene (Total)		1330-20-7	N.D.	1.0	0.2	1

Sample Comments

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

	Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor		
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H193401AA	12/06/2019 12:28	Don V Viray	1		
01163	GC/MS VOA Water Prep	SW-846 5030C	1	H193401AA	12/06/2019 12:27	Don V Viray	1		

^{*=}This limit was used in the evaluation of the final result



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Sample Description: SW-5-120419 Grab Surface Water

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/05/2019 11:12 Collection Date/Time: 12/04/2019 10:40

SDG#: SMP18-06

GE-O'Brien & Gere, Inc.

ELLE Sample #: WW 1215509 ELLE Group #: 2077622

Matrix: Surface Water

CAT No.	Analysis Name		CAS Number	Resu	llt		imit of luantitation*	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260 purge	C 25mL	ug/l		u	g/l	ug/l	
11996	Acetone		67-64-1	N.D.		5	.0	0.9	1
11996	Benzene		71-43-2	N.D.		0	.5	0.05	1
11996	2-Butanone		78-93-3	N.D.		5	.0	0.6	1
11996	Chlorobenzene		108-90-7	0.2	J	0	.5	0.06	1
11996	Chloroethane		75-00-3	0.08	J	0	.5	0.07	1
11996	Cyclohexane		110-82-7	0.08	J	0	.5	0.05	1
11996	1,2-Dichlorobenzene		95-50-1	N.D.		0	.5	0.06	1
11996	1,3-Dichlorobenzene		541-73-1	N.D.		0	.5	0.06	1
11996	1,4-Dichlorobenzene		106-46-7	N.D.		0	.5	0.07	1
11996	1,1-Dichloroethane		75-34-3	N.D.		0	.5	0.07	1
11996	1,2-Dichloroethane		107-06-2	N.D.		0	.5	0.05	1
11996	1,1-Dichloroethene		75-35-4	N.D.		0	.5	0.06	1
11996	cis-1,2-Dichloroethene		156-59-2	0.06	J	0	.5	0.05	1
11996	trans-1,2-Dichloroethene		156-60-5	N.D.		0	.5	0.06	1
11996	1,2-Dichloroethene (Total)	1	540-59-0	N.D.		1	.0	0.1	1
11996	Ethylbenzene		100-41-4	0.4	J	0	.5	0.06	1
11996	Isopropylbenzene		98-82-8	N.D.		0	.5	0.05	1
11996	4-Methyl-2-Pentanone		108-10-1	N.D.		5	.0	0.7	1
11996	Methylcyclohexane		108-87-2	N.D.		0	.5	0.05	1
11996	Methylene Chloride		75-09-2	N.D.		0	.5	0.07	1
11996	Tetrachloroethene		127-18-4	N.D.		0	.5	0.06	1
11996	Toluene		108-88-3	1.7		0	.5	0.07	1
11996	1,1,1-Trichloroethane		71-55-6	0.1	J	0	.5	0.06	1
11996	Trichloroethene		79-01-6	N.D.		0	.5	0.06	1
11996	Vinyl Chloride		75-01-4	N.D.		0	.5	0.1	1
11996	Xylene (Total)		1330-20-7	1.9		1	.0	0.2	1

Sample Comments

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

	Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor		
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H193401AA	12/06/2019 13:33	Don V Viray	1		
01163	GC/MS VOA Water Prep	SW-846 5030C	1	H193401AA	12/06/2019 13:32	Don V Viray	1		

^{*=}This limit was used in the evaluation of the final result



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Sample Description: SW-2-120419 Grab Surface Water

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/05/2019 11:12 Collection Date/Time: 12/04/2019 11:50

SDG#: SMP18-07

GE-O'Brien & Gere, Inc.

ELLE Sample #: WW 1215510 ELLE Group #: 2077622

Matrix: Surface Water

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260C 25mL purge	ug/l	ug/l	ug/l	
11996	Acetone	67-64-1	N.D.	5.0	0.9	1
11996	Benzene	71-43-2	N.D.	0.5	0.05	1
11996	2-Butanone	78-93-3	N.D.	5.0	0.6	1
11996	Chlorobenzene	108-90-7	N.D.	0.5	0.06	1
11996	Chloroethane	75-00-3	N.D.	0.5	0.07	1
11996	Cyclohexane	110-82-7	0.07 J	0.5	0.05	1
11996	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	0.06	1
11996	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	0.06	1
11996	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	0.07	1
11996	1,1-Dichloroethane	75-34-3	N.D.	0.5	0.07	1
11996	1,2-Dichloroethane	107-06-2	N.D.	0.5	0.05	1
11996	1,1-Dichloroethene	75-35-4	N.D.	0.5	0.06	1
11996	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	0.05	1
11996	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	0.06	1
11996	1,2-Dichloroethene (Total)	540-59-0	N.D.	1.0	0.1	1
11996	Ethylbenzene	100-41-4	N.D.	0.5	0.06	1
11996	Isopropylbenzene	98-82-8	N.D.	0.5	0.05	1
11996	4-Methyl-2-Pentanone	108-10-1	N.D.	5.0	0.7	1
11996	Methylcyclohexane	108-87-2	N.D.	0.5	0.05	1
11996	Methylene Chloride	75-09-2	N.D.	0.5	0.07	1
11996	Tetrachloroethene	127-18-4	N.D.	0.5	0.06	1
11996	Toluene	108-88-3	N.D.	0.5	0.07	1
11996	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	0.06	1
11996	Trichloroethene	79-01-6	N.D.	0.5	0.06	1
11996	Vinyl Chloride	75-01-4	N.D.	0.5	0.1	1
11996	Xylene (Total)	1330-20-7	N.D.	1.0	0.2	1

Sample Comments

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

	Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor		
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H193401AA	12/06/2019 13:55	Don V Viray	1		
01163	GC/MS VOA Water Prep	SW-846 5030C	1	H193401AA	12/06/2019 13:54	Don V Viray	1		

^{*=}This limit was used in the evaluation of the final result



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Sample Description: DM-433G-120419 Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/05/2019 11:12 Collection Date/Time: 12/04/2019 13:50

SDG#: SMP18-08

ELLE Sample #:	GW 1215511
ELLE Group #:	2077622

Matrix: Groundwater

GE-O'Brien & Gere, Inc.

CAT No.	Analysis Name		CAS Number	Result		imit of uantitation*	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 82600	C 25mL	ug/l	u	g/l	ug/l	
11996	Acetone	purge	67-64-1	1.6 J	_	.0	0.9	1
11996	Benzene		71-43-2	1.6 J N.D.		.0 .5	0.9	1
11996	2-Butanone		71-43-2 78-93-3	N.D.		.5 .0	0.05	1
11996	Chlorobenzene		108-90-7	N.D.		.0 .5	0.06	-
11996	Chlorobenzene							1
11996			75-00-3	N.D. N.D.		.5 .5	0.07	1
	Cyclohexane		110-82-7 95-50-1				0.05	1
11996	1,2-Dichlorobenzene			N.D.		.5	0.06	1 1
11996 11996	1,3-Dichlorobenzene		541-73-1 106-46-7	N.D.		.5	0.06	•
	1,4-Dichlorobenzene			N.D.		.5	0.07	1
11996	1,1-Dichloroethane		75-34-3	8.0		.5	0.07	1
11996	1,2-Dichloroethane		107-06-2	0.1 J		.5	0.05	1
11996	1,1-Dichloroethene		75-35-4	4.9		.5	0.06	1
11996	cis-1,2-Dichloroethene		156-59-2	58		.0	0.5	10
11996	trans-1,2-Dichloroethene		156-60-5	10		.5	0.06	1
11996	1,2-Dichloroethene (Total	•	540-59-0	66	1		1.1	10
11996	Ethylbenzene		100-41-4	N.D.		.5	0.06	1
11996	Isopropylbenzene		98-82-8	N.D.	0	.5	0.05	1
11996	4-Methyl-2-Pentanone		108-10-1	N.D.	5	.0	0.7	1
11996	Methylcyclohexane		108-87-2	N.D.	0	.5	0.05	1
11996	Methylene Chloride		75-09-2	N.D.	0	.5	0.07	1
11996	Tetrachloroethene		127-18-4	N.D.	0	.5	0.06	1
11996	Toluene		108-88-3	N.D.	0	.5	0.07	1
11996	1,1,1-Trichloroethane		71-55-6	N.D.	0	.5	0.06	1
11996	Trichloroethene		79-01-6	0.1 J	0	.5	0.06	1
11996	Vinyl Chloride		75-01-4	7.1	0	.5	0.1	1
11996	Xylene (Total)		1330-20-7	N.D.	1	.0	0.2	1

Sample Comments

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

	Laboratory Sample Analysis Record									
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor			
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H193401AA	12/06/2019 14:17	Don V Viray	1			
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H193423AA	12/09/2019 00:30	Don V Viray	10			
01163	GC/MS VOA Water Prep	SW-846 5030C	1	H193401AA	12/06/2019 14:16	Don V Viray	1			

^{*=}This limit was used in the evaluation of the final result



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Sample Description: DM-433G-120419 Grab Groundwater

General Electric Schenectady Main Plant

GE Schenectady Main Plant

Submittal Date/Time: 12/05/2019 11:12 Collection Date/Time: 12/04/2019 13:50

SDG#: SMP18-08

Project Name:

GE-O'Brien & Gere, Inc.

ELLE Sample #: GW 1215511 ELLE Group #: 2077622

Matrix: Groundwater

Lai	oora	tory	Sam	ple	Ana	lysis	Reco	ď
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CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030C	2	H193423AA	12/09/2019 00:29	Don V Viray	10



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Sample Description: P-10R-120419 Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/05/2019 11:12 Collection Date/Time: 12/04/2019 14:15

SDG#: SMP18-09

GE-O'Brien	ጲ	Gere	Inc
GE-C Dileii	α	GCIC.	IIIC.

ELLE Sample #: GW 1215512 ELLE Group #: 2077622

Matrix: Groundwater

CAT No.	Analysis Name	CAS Numbe	er Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260C 25mL purge	ug/l	ug/l	ug/l	
11996	Acetone	67-64-1	2.7 J	5.0	0.9	1
11996	Benzene	71-43-2	0.09 J	0.5	0.05	1
11996	2-Butanone	78-93-3	N.D.	5.0	0.6	1
11996	Chlorobenzene	108-90-7	0.2 J	0.5	0.06	1
11996	Chloroethane	75-00-3	0.3 J	0.5	0.07	1
11996	Cyclohexane	110-82-7	0.5	0.5	0.05	1
11996	1,2-Dichlorobenzene	95-50-1	0.3 J	0.5	0.06	1
11996	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	0.06	1
11996	1,4-Dichlorobenzene	106-46-7	0.2 J	0.5	0.07	1
11996	1,1-Dichloroethane	75-34-3	0.2 J	0.5	0.07	1
11996	1,2-Dichloroethane	107-06-2	N.D.	0.5	0.05	1
11996	1,1-Dichloroethene	75-35-4	N.D.	0.5	0.06	1
11996	cis-1,2-Dichloroethene	156-59-2	0.3 J	0.5	0.05	1
11996	trans-1,2-Dichloroethene	156-60-5	0.2 J	0.5	0.06	1
11996	1,2-Dichloroethene (Total)	540-59-0	0.4 J	1.0	0.1	1
11996	Ethylbenzene	100-41-4	0.2 J	0.5	0.06	1
11996	Isopropylbenzene	98-82-8	1	0.5	0.05	1
11996	4-Methyl-2-Pentanone	108-10-1	N.D.	5.0	0.7	1
11996	Methylcyclohexane	108-87-2	1.0	0.5	0.05	1
11996	Methylene Chloride	75-09-2	N.D.	0.5	0.07	1
11996	Tetrachloroethene	127-18-4	N.D.	0.5	0.06	1
11996	Toluene	108-88-3	0.2 J	0.5	0.07	1
11996	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	0.06	1
11996	Trichloroethene	79-01-6	N.D.	0.5	0.06	1
11996	Vinyl Chloride	75-01-4	0.1 J	0.5	0.1	1
11996	Xylene (Total)	1330-20-7	0.6 J	1.0	0.2	1

Sample Comments

 $^{^{1}}$ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

	Laboratory Sample Analysis Record										
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor				
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H193401AA	12/06/2019 14:38	Don V Viray	1				
01163	GC/MS VOA Water Prep	SW-846 5030C	1	H193401AA	12/06/2019 14:37	Don V Viray	1				

^{*=}This limit was used in the evaluation of the final result



WW 1216921

2077922

GE-O'Brien & Gere, Inc.

Matrix: Surface Water

ELLE Sample #:

ELLE Group #:

0.5

0.5

1.0

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Sample Description: SW-1-120519 Grab Surface Water

General Electric Schenectady Main Plant

CAS Number

67-64-1

71-43-2

78-93-3

108-90-7

75-00-3

110-82-7

95-50-1

541-73-1

106-46-7

107-06-2

75-35-4

156-59-2

156-60-5

540-59-0

100-41-4

98-82-8

108-10-1

108-87-2

75-09-2

127-18-4

108-88-3

71-55-6

79-01-6

75-01-4

1330-20-7

75-34-3

SW-846 8260C 25mL

purge

Result

ug/l

N.D.

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/06/2019 10:59 Collection Date/Time: 12/05/2019 10:45

SDG#: SMP18-10

Analysis Name

GC/MS Volatiles

Acetone

Benzene 2-Butanone

Chlorobenzene

Chloroethane

Cyclohexane

1,2-Dichlorobenzene

1,3-Dichlorobenzene

1,4-Dichlorobenzene

1.1-Dichloroethane

1,2-Dichloroethane

1,1-Dichloroethene

Ethylbenzene

Isopropylbenzene

Methylcyclohexane

Methylene Chloride

Tetrachloroethene

Trichloroethene

Vinyl Chloride

Xylene (Total)

1,1,1-Trichloroethane

Toluene

4-Methyl-2-Pentanone

cis-1,2-Dichloroethene

trans-1,2-Dichloroethene

1,2-Dichloroethene (Total)1

CAT

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No.

Limit of Quantitation*	Method Detection Limit	Dilution Factor
ug/l	ug/l	
5.0	0.9	1
0.5	0.05	1
5.0	0.6	1
0.5	0.06	1
0.5	0.07	1
0.5	0.05	1
0.5	0.06	1
0.5	0.06	1
0.5	0.07	1
0.5	0.07	1
0.5	0.05	1
0.5	0.06	1
0.5	0.05	1
0.5	0.06	1
1.0	0.1	1
0.5	0.06	1
0.5	0.05	1
5.0	0.7	1
0.5	0.05	1
0.5	0.07	1
0.5	0.06	1
0.5	0.07	1
0.5	0.06	1

1

0.06

0.1

0.2

A Report Limit Verification (RLV) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The RLV standard shows adequate sensitivity at or below the reporting limit.

GC Miscellaneous		RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	5.0	1.0	1
07105	Ethene	74-85-1	N.D.	5.0	1.0	1
07105	Methane	74-82-8	17	5.0	3.0	1
Wet Ch	nemistry	EPA 300.0	mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	174	80.0	40.0	200
00368	Nitrate Nitrogen	14797-55-8	2.0	0.50	0.25	5

^{*=}This limit was used in the evaluation of the final result



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Sample Description: SW-1-120519 Grab Surface Water

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/06/2019 10:59 Collection Date/Time: 12/05/2019 10:45

SDG#: SMP18-10

GE-O'Brien & Gere	, Inc.
ELLE Sample #:	WW 1216921
ELLE Group #:	2077922

ELLE Group #: 20 Matrix: Surface Water

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Wet Ch	nemistry	EPA 300.0	mg/l	mg/l	mg/l	
	bracketing continuing calib the 90-110% acceptance of client requirement of analy the same acceptance wind	lyzed within the 48 hour holding time oration verification standards (CCV) wandow with a recoveries of 112% an izing a low standard with the sample dow with a recovery of 88%. Sample result of 1.8 mg/l and had acceptable	vere outside of d 111%; also the was outside of was reanalyzed past			
00228	Sulfate	14808-79-8	40.0	5.0	1.5	5
		SM 5310 C-2011	mg/l	mg/l	mg/l	
00273	Total Organic Carbon	n.a.	2.4	1.0	0.50	1
		SM 2320 B-2011	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	175	8.0	2.6	1
12149	Bicarbonate Alkalinity	n.a.	175	8.0	2.6	1

Sample Comments

State of New York Certification No. 10670

Laboratory Sample Analysis Record Method Dilution CAT Trial# **Analysis Analysis Name** Batch# Analyst No. **Date and Time** Factor 11996 VOCs 8260C SW-846 8260C 25mL H193442AA 12/11/2019 00:24 Miranda Campbell purge 01163 GC/MS VOA Water Prep SW-846 5030C H193442AA 12/11/2019 00:23 Miranda Campbell 1 RSKSOP-175 modified Johanna C Kennedy Methane, Ethane, Ethene 193430003A 12/09/2019 16:44 07105 00224 Chloride EPA 300.0 19340720117A 12/08/2019 05:18 Samantha Faverio 200 Nitrate Nitrogen EPA 300.0 19340720117A 12/06/2019 18:50 Samantha Faverio 00368 1 5 EPA 300.0 19340720117A 12/08/2019 00:18 Samantha Faverio 00228 Sulfate 5 Total Organic Carbon SM 5310 C-2011 19345304501B 12/11/2019 18:35 Bethany Sandone 00273 1 1 Total Alkalinity to pH 4.5 SM 2320 B-2011 19343010202A 12/09/2019 20:49 Jeremy L Bolf 12150 1 Bicarbonate Alkalinity SM 2320 B-2011 19343010202A 12/09/2019 20:49 Jeremy L Bolf 12149

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

^{*=}This limit was used in the evaluation of the final result



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Sample Description: SW-1-120519 Filtered Grab Surface Water

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/06/2019 10:59 Collection Date/Time: 12/05/2019 10:45

SDG#: SMP18-11

GE-O'Brien & Gere, Inc.

ELLE Sample #: WW 1216922 ELLE Group #: 2077922

Matrix: Surface Water

NA - (1: - -)

CAT No.	Analysis Name	CAS Number	Result	Quantitation*	Method Detection Limit	Dilution Factor
Metals	Dissolved	SW-846 6010D Rev.4, July 2014	mg/l	mg/l	mg/l	
01754	Iron	7439-89-6	0.0428 J	0.200	0.0400	1

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Sample Comments

State of New York Certification No. 10670 This sample was field filtered for dissolved metals.

	Laboratory Sample Analysis Record										
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor				
01754	Iron	SW-846 6010D Rev.4, July 2014	1	193431404401	12/09/2019 11:04	Lisa J Cooke	1				
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	193431404401	12/09/2019 03:50	James L Mertz	1				

^{*=}This limit was used in the evaluation of the final result



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Sample Description: P-37R-120519 Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

 Submittal Date/Time:
 12/06/2019 10:59

 Collection Date/Time:
 12/05/2019 14:27

 SDG#:
 SMP18-12BKG

GE-O'Brien & Gere, Inc.

ELLE Sample #: GW 1216923 ELLE Group #: 2077922

Matrix: Groundwater

CAT No.	Analysis Name		CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor			
GC/MS	Volatiles	SW-846 8260	C 25mL	ug/l	ug/l	ug/l				
		purge								
11996	Acetone		67-64-1	N.D.	5.0	0.9	1			
11996	Benzene		71-43-2	0.6	0.5	0.05	1			
11996	2-Butanone		78-93-3	N.D.	5.0	0.6	1			
11996	Chlorobenzene		108-90-7	2.1	0.5	0.06	1			
11996	Chloroethane		75-00-3	0.4 J	0.5	0.07	1			
11996	Cyclohexane		110-82-7	6.5	0.5	0.05	1			
11996	1,2-Dichlorobenzene		95-50-1	0.4 J	0.5	0.06	1			
11996	1,3-Dichlorobenzene		541-73-1	0.2 J	0.5	0.06	1			
11996	1,4-Dichlorobenzene		106-46-7	1.0	0.5	0.07	1			
11996	1,1-Dichloroethane		75-34-3	0.1 J	0.5	0.07	1			
11996	1,2-Dichloroethane		107-06-2	N.D.	0.5	0.05	1			
11996	1,1-Dichloroethene		75-35-4	N.D.	0.5	0.06	1			
11996	cis-1,2-Dichloroethene		156-59-2	0.2 J	0.5	0.05	1			
11996	trans-1,2-Dichloroethene		156-60-5	N.D.	0.5	0.06	1			
11996	1,2-Dichloroethene (Total))1	540-59-0	0.2 J	1.0	0.1	1			
11996	Ethylbenzene		100-41-4	25	5.0	0.6	10			
11996	Isopropylbenzene		98-82-8	8.2	0.5	0.05	1			
11996	4-Methyl-2-Pentanone		108-10-1	N.D.	5.0	0.7	1			
11996	Methylcyclohexane		108-87-2	5.3	0.5	0.05	1			
11996	Methylene Chloride		75-09-2	0.2 J	0.5	0.07	1			
11996	Tetrachloroethene		127-18-4	N.D.	0.5	0.06	1			
11996	Toluene		108-88-3	0.2 J	0.5	0.07	1			
11996	1,1,1-Trichloroethane		71-55-6	N.D.	0.5	0.06	1			
11996	Trichloroethene		79-01-6	N.D.	0.5	0.06	1			
11996	Vinyl Chloride		75-01-4	0.1 J	0.5	0.1	1			
11996	Xylene (Total)		1330-20-7	23	1.0	0.2	1			
sensit with a (outsid	A Report Limit Verification (RLV) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The RLV standard shows adequate sensitivity at or below the reporting limit.									
GC Mis	cellaneous	RSKSOP-175	modified	ug/l	ug/l	ug/l				
07105	Ethane		74-84-0	1.0 J	5.0	1.0	1			
07105	Ethene		74-85-1	N.D.	5.0	1.0	1			
07105	Methane		74-82-8	19,000	1,000	600	200			
Wet Ch	emistry	EPA 300.0		mg/l	mg/l	mg/l				
00224	Chloride		16887-00-6	87.6	20.0	10.0	50			
00368	Nitrate Nitrogen		14797-55-8	N.D.	0.50	0.25	5			

^{*=}This limit was used in the evaluation of the final result



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Sample Description: P-37R-120519 Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/06/2019 10:59
Collection Date/Time: 12/05/2019 14:27
SDG#: SMP18-12BKG

GE-O'Brien & Gere,	Inc.
ELLE Sample #:	GW 1216923
ELLE Group #:	2077922

Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Wet Cl	nemistry Sample was analyzed with	EPA 300.0 nin the 48 hour holding time; howeve	mg/I or the client	mg/l	mg/l	
	90%-110% acceptance wi	a low standard with the sample was on ndow with a reecovery of 88%. Sam with a result of ND and had an acce	ple was repeated outside			
00228	Sulfate	14808-79-8	2.4 J	5.0	1.5	5
		SM 5310 C-2011	mg/l	mg/l	mg/l	
00273	Total Organic Carbon	n.a.	6.6	2.0	1.0	2
		SM 2320 B-2011	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	486	8.0	2.6	1
	Bicarbonate Alkalinity	n.a.	486	8.0	2.6	_

Sample Comments

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

	Laboratory Sample Analysis Record										
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor				
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H193442AA	12/11/2019 00:46	Miranda Campbell	1				
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H193442AA	12/11/2019 01:51	Miranda Campbell	10				
01163	GC/MS VOA Water Prep	SW-846 5030C	1	H193442AA	12/11/2019 00:45	Miranda Campbell	1				
01163	GC/MS VOA Water Prep	SW-846 5030C	2	H193442AA	12/11/2019 01:50	Miranda Campbell	10				
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	193430003A	12/09/2019 14:46	Johanna C Kennedy	1				
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	193430003A	12/10/2019 10:52	Johanna C Kennedy	200				
00224	Chloride	EPA 300.0	1	19340720117B	12/08/2019 08:25	Samantha Faverio	50				
00368	Nitrate Nitrogen	EPA 300.0	1	19340720117B	12/07/2019 01:42	Samantha Faverio	5				
00228	Sulfate	EPA 300.0	1	19340720117B	12/08/2019 06:52	Samantha Faverio	5				
00273	Total Organic Carbon	SM 5310 C-2011	1	19345304501B	12/12/2019 10:35	Bethany Sandone	2				
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19343010202A	12/09/2019 18:28	Jeremy L Bolf	1				
12149	Bicarbonate Alkalinity	SM 2320 B-2011	1	19343010202A	12/09/2019 18:28	Jeremy L Bolf	1				

^{*=}This limit was used in the evaluation of the final result



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Sample Description: P-37R-120519-MS Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

 Submittal Date/Time:
 12/06/2019 10:59

 Collection Date/Time:
 12/05/2019 14:27

 SDG#:
 SMP18-12MS

GE-O'Brien & Gere, Inc.

ELLE Sample #: GW 1216924 ELLE Group #: 2077922

Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor		
GC/MS	Volatiles	SW-846 8260C 25mL	ug/l	ug/l	ug/l			
		purge						
11996	Acetone	67-64-1	31	5.0	0.9	1		
11996	Benzene	71-43-2	5.9	0.5	0.05	1		
11996	2-Butanone	78-93-3	28	5.0	0.6	1		
11996	Chlorobenzene	108-90-7	6.9	0.5	0.06	1		
11996	Chloroethane	75-00-3	4.7	0.5	0.07	1		
11996	Cyclohexane	110-82-7	11	0.5	0.05	1		
11996	1,2-Dichlorobenzene	95-50-1	5.1	0.5	0.06	1		
11996	1,3-Dichlorobenzene	541-73-1	4.9	0.5	0.06	1		
11996	1,4-Dichlorobenzene	106-46-7	5.6	0.5	0.07	1		
11996	1,1-Dichloroethane	75-34-3	5.4	0.5	0.07	1		
11996	1,2-Dichloroethane	107-06-2	4.7	0.5	0.05	1		
11996	1,1-Dichloroethene	75-35-4	5.7	0.5	0.06	1		
11996	cis-1,2-Dichloroethene	156-59-2	5.6	0.5	0.05	1		
11996	trans-1,2-Dichloroethene	156-60-5	5.5	0.5	0.06	1		
11996	1,2-Dichloroethene (Total)1 540-59-0	11	1.0	0.1	1		
11996	Ethylbenzene	100-41-4	29 E	0.5	0.06	1		
11996	Isopropylbenzene	98-82-8	13	0.5	0.05	1		
11996	4-Methyl-2-Pentanone	108-10-1	18	5.0	0.7	1		
11996	Methylcyclohexane	108-87-2	10	0.5	0.05	1		
11996	Methylene Chloride	75-09-2	5.1	0.5	0.07	1		
11996	Tetrachloroethene	127-18-4	4.5	0.5	0.06	1		
11996	Toluene	108-88-3	5.1	0.5	0.07	1		
11996	1,1,1-Trichloroethane	71-55-6	4.9	0.5	0.06	1		
11996	Trichloroethene	79-01-6	5.2	0.5	0.06	1		
11996	Vinyl Chloride	75-01-4	4.6	0.5	0.1	1		
11996	Xylene (Total)	1330-20-7	34	1.0	0.2	1		
GC Mis	scellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l			
07105	Ethane	74-84-0	46	5.0	1.0	1		
07105	Ethene	74-85-1	57	5.0	1.0	1		
07105	Methane	74-82-8	12,000 E	5.0	3.0	1		
Wet Ch	nemistry	EPA 300.0	mg/l	mg/l	mg/l			
00224	Chloride	16887-00-6	192	20.0	10.0	50		
00368	Nitrate Nitrogen	14797-55-8	3.1	0.50	0.25	5		
	Sample was analyzed within the 48 hour holding time; however the client requirement of analyzing a low standard with the sample was outside of the 90%-110% acceptance window with a reecovery of 88%. Sample was repeated outside of the hold on 12/08/2019 with a result of 2.9 mg/l and had an acceptable low standard.							
00228	Sulfate	14808-79-8	30.7	5.0	1.5	5		

^{*=}This limit was used in the evaluation of the final result



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Sample Description: P-37R-120519-MS Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/06/2019 10:59
Collection Date/Time: 12/05/2019 14:27
SDG#: SMP18-12MS

GE-O'Brien & Gere, Inc.

ELLE Sample #: GW 1216924 ELLE Group #: 2077922

Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Wet Chemistry		SM 5310 C-2011	mg/l	mg/l	mg/l	
00273	Total Organic Carbon	n.a.	26.7	2.0	1.0	2
		SM 2320 B-2011	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	657	8.0	2.6	1

Sample Comments

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

	Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor		
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H193442AA	12/11/2019 01:07	Miranda Campbell	1		
01163	GC/MS VOA Water Prep	SW-846 5030C	1	H193442AA	12/11/2019 01:06	Miranda Campbell	1		
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	193430003A	12/09/2019 15:03	Johanna C Kennedy	1		
00224	Chloride	EPA 300.0	1	19340720117B	12/08/2019 09:03	Samantha Faverio	50		
00368	Nitrate Nitrogen	EPA 300.0	1	19340720117B	12/07/2019 02:21	Samantha Faverio	5		
00228	Sulfate	EPA 300.0	1	19340720117B	12/08/2019 07:29	Samantha Faverio	5		
00273	Total Organic Carbon	SM 5310 C-2011	1	19345304501B	12/12/2019 10:48	Bethany Sandone	2		
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19343010202A	12/09/2019 18:37	Jeremy L Bolf	1		

^{*=}This limit was used in the evaluation of the final result



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Sample Description: P-37R-120519-MSD Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/06/2019 10:59
Collection Date/Time: 12/05/2019 14:27
SDG#: SMP18-12MSD

GE-O'Brien & Gere, Inc.

ELLE Sample #: GW 1216925 ELLE Group #: 2077922

Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS	S Volatiles	SW-846 8260C 25mL purge	ug/l	ug/l	ug/l	
11996	Acetone	67-64-1	32	5.0	0.9	1
11996	Benzene	71-43-2	5.8	0.5	0.05	1
11996	2-Butanone	78-93-3	30	5.0	0.6	1
11996	Chlorobenzene	108-90-7	6.9	0.5	0.06	1
11996	Chloroethane	75-00-3	5.1	0.5	0.07	1
11996	Cyclohexane	110-82-7	10	0.5	0.05	1
11996	1,2-Dichlorobenzene	95-50-1	5.1	0.5	0.06	1
11996	1,3-Dichlorobenzene	541-73-1	4.9	0.5	0.06	1
11996	1,4-Dichlorobenzene	106-46-7	5.6	0.5	0.07	1
11996	1,1-Dichloroethane	75-34-3	5.4	0.5	0.07	1
11996	1,2-Dichloroethane	107-06-2	4.6	0.5	0.05	1
11996	1,1-Dichloroethene	75-35-4	5.8	0.5	0.06	1
11996	cis-1,2-Dichloroethene	156-59-2	5.7	0.5	0.05	1
11996	trans-1,2-Dichloroethene	156-60-5	5.4	0.5	0.06	1
11996	1,2-Dichloroethene (Total)	540-59-0	11	1.0	0.1	1
11996	Ethylbenzene	100-41-4	25 E	0.5	0.06	1
11996	Isopropylbenzene	98-82-8	12	0.5	0.05	1
11996	4-Methyl-2-Pentanone	108-10-1	19	5.0	0.7	1
11996	Methylcyclohexane	108-87-2	11	0.5	0.05	1
11996	Methylene Chloride	75-09-2	5.0	0.5	0.07	1
11996	Tetrachloroethene	127-18-4	4.6	0.5	0.06	1
11996	Toluene	108-88-3	5.1	0.5	0.07	1
11996	1,1,1-Trichloroethane	71-55-6	4.9	0.5	0.06	1
11996	Trichloroethene	79-01-6	5.2	0.5	0.06	1
11996	Vinyl Chloride	75-01-4	4.7	0.5	0.1	1
11996	Xylene (Total)	1330-20-7	32	1.0	0.2	1
GC Mis	scellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	50	5.0	1.0	1
07105	Ethene	74-85-1	62	5.0	1.0	1
07105	Methane	74-82-8	12,000 E	5.0	3.0	1
Wet Ch	nemistry	SM 2320 B-2011	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	657	8.0	2.6	1

Sample Comments

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

^{*=}This limit was used in the evaluation of the final result



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Sample Description: P-37R-120519-MSD Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/06/2019 10:59
Collection Date/Time: 12/05/2019 14:27
SDG#: SMP18-12MSD

GE-O'Brien & Gere, Inc.

ELLE Sample #: GW 1216925 ELLE Group #: 2077922

Matrix: Groundwater

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H193442AA	12/11/2019 01:29	Miranda Campbell	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	H193442AA	12/11/2019 01:28	Miranda Campbell	1
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	193430003A	12/09/2019 15:20	Johanna C Kennedy	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19343010202A	12/09/2019 18:56	Jeremy L Bolf	1



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Sample Description: P-37R-120519-DUP Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/06/2019 10:59
Collection Date/Time: 12/05/2019 14:27
SDG#: SMP18-12DUP

GE-O'Brien & Gere, Inc.

ELLE Sample #: GW 1216926 ELLE Group #: 2077922

Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor	
Wet Chemistry EPA 300.0			mg/l	mg/l	mg/l		
00224	Chloride	16887-00-6	89.2	20.0	10.0	50	
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.50	0.25	5	
	Sample was analyzed within the 48 hour holding time; however the client requirement of analyzing a low standard with the sample was outside of the 90%-110% acceptance window with a reecovery of 88%. Sample was repeated outside of the hold on 12/08/2019 with a result of ND and had an acceptable low standard.						
00228	Sulfate	14808-79-8	2.3 J	5.0	1.5	5	
	SM 5310 C-	2011	mg/l	mg/l	mg/l		
00273	Total Organic Carbon	n.a.	6.4	2.0	1.0	2	
	SM 2320 B-		mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3		
12150	Total Alkalinity to pH 4.5	n.a.	485	8.0	2.6	1	

Sample Comments

Laboratory Sample	Analysis Record
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			-				
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00224	Chloride	EPA 300.0	1	19340720117B	12/08/2019 08:44	Samantha Faverio	50
00368	Nitrate Nitrogen	EPA 300.0	1	19340720117B	12/07/2019 02:01	Samantha Faverio	5
00228	Sulfate	EPA 300.0	1	19340720117B	12/08/2019 07:10	Samantha Faverio	5
00273	Total Organic Carbon	SM 5310 C-2011	1	19345304501B	12/12/2019 11:02	Bethany Sandone	2
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19343010202A	12/09/2019 19:03	Jeremy L Bolf	1

^{*=}This limit was used in the evaluation of the final result



ELLE Sample #: GW 1216927

2077922

GE-O'Brien & Gere, Inc.

Matrix: Groundwater

ELLE Group #:

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Sample Description: P-37R-120519 Filtered Grab Groundwater

General Electric Schenectady Main Plant

GE Schenectady Main Plant

Submittal Date/Time: 12/06/2019 10:59 Collection Date/Time: 12/05/2019 14:27

Project Name:

SDG#: SMP18-13BKG

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Metals	Dissolved	SW-846 6010D Rev.4, July 2014	mg/l	mg/l	mg/l	
01754	Iron	7439-89-6	59.2	0.200	0.0400	1

Sample Comments

State of New York Certification No. 10670

This sample was field filtered for dissolved metals.

	Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor		
01754	Iron	SW-846 6010D Rev.4, July 2014	1	193431404401	12/09/2019 10:31	Lisa J Cooke	1		
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	193431404401	12/09/2019 03:50	James L Mertz	1		

^{*=}This limit was used in the evaluation of the final result



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Sample Description: P-37R-120519-MS Filtered Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/06/2019 10:59
Collection Date/Time: 12/05/2019 14:27
SDG#: SMP18-13MS

GE-O'Brien & Gere, Inc.

ELLE Sample #: GW 1216928 ELLE Group #: 2077922

Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Metals	Dissolved	SW-846 6010D Rev.4, July 2014	mg/l	mg/l	mg/l	
01754	Iron	7439-89-6	59.0	0.200	0.0400	1

Sample Comments

State of New York Certification No. 10670 This sample was field filtered for dissolved metals.

	Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor		
01754	Iron	SW-846 6010D Rev.4, July 2014	1	193431404401	12/09/2019 10:41	Lisa J Cooke	1		
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	193431404401	12/09/2019 03:50	James L Mertz	1		

^{*=}This limit was used in the evaluation of the final result



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Sample Description: P-37R-120519-MSD Filtered Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/06/2019 10:59
Collection Date/Time: 12/05/2019 14:27
SDG#: SMP18-13MSD

GE-O'Brien & Gere, Inc.

ELLE Sample #: GW 1216929 ELLE Group #: 2077922

Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Metals	Dissolved	SW-846 6010D Rev.4, July 2014	mg/l	mg/l	mg/l	
01754	Iron	7439-89-6	61.3	0.200	0.0400	1

Sample Comments

State of New York Certification No. 10670 This sample was field filtered for dissolved metals.

	Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor		
01754	Iron	SW-846 6010D Rev.4, July 2014	1	193431404401	12/09/2019 10:44	Lisa J Cooke	1		
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	193431404401	12/09/2019 03:50	James L Mertz	1		

^{*=}This limit was used in the evaluation of the final result



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Sample Description: P-37R-120519-DUP Filtered Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/06/2019 10:59
Collection Date/Time: 12/05/2019 14:27
SDG#: SMP18-13DUP

GE-O'Brien & Gere, Inc.

ELLE Sample #: GW 1216930 ELLE Group #: 2077922

Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Metals	Dissolved	SW-846 6010D Rev.4, July 2014	mg/l	mg/l	mg/l	
01754	Iron	7439-89-6	59.6	0.200	0.0400	1

Sample Comments

State of New York Certification No. 10670 This sample was field filtered for dissolved metals.

	Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor		
01754	Iron	SW-846 6010D Rev.4, July 2014	1	193431404401	12/09/2019 10:38	Lisa J Cooke	1		
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	193431404401	12/09/2019 03:50	James L Mertz	1		

^{*=}This limit was used in the evaluation of the final result



ELLE Sample #: GW 1216931

2077922

GE-O'Brien & Gere, Inc.

Matrix: Groundwater

ELLE Group #:

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Sample Description: PZ-06-120519 Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/06/2019 10:59
Collection Date/Time: 12/05/2019 14:50

SDG#: SMP18-14

CAT No.	Analysis Name		CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260	0C 25mL	ug/l	ug/l	ug/l	
		purge					
11996	Acetone		67-64-1	N.D.	100	18	20
11996	Benzene		71-43-2	N.D.	10	1.0	20
11996	2-Butanone		78-93-3	N.D.	100	12	20
11996	Chlorobenzene		108-90-7	N.D.	10	1.2	20
11996	Chloroethane		75-00-3	N.D.	10	1.4	20
11996	Cyclohexane		110-82-7	25	10	1.0	20
11996	1,2-Dichlorobenzene		95-50-1	2.6 J	10	1.2	20
11996	1,3-Dichlorobenzene		541-73-1	N.D.	10	1.2	20
11996	1,4-Dichlorobenzene		106-46-7	1.9 J	10	1.4	20
11996	1,1-Dichloroethane		75-34-3	N.D.	10	1.4	20
11996	1,2-Dichloroethane		107-06-2	N.D.	10	1.0	20
11996	1,1-Dichloroethene		75-35-4	N.D.	10	1.2	20
11996	cis-1,2-Dichloroethene		156-59-2	N.D.	10	1.0	20
11996	trans-1,2-Dichloroethene		156-60-5	N.D.	10	1.2	20
11996	1,2-Dichloroethene (Total))1	540-59-0	N.D.	20	2.2	20
11996	Ethylbenzene		100-41-4	860	50	6.0	100
11996	Isopropylbenzene		98-82-8	16	10	1.0	20
11996	4-Methyl-2-Pentanone		108-10-1	N.D.	100	14	20
11996	Methylcyclohexane		108-87-2	3.2 J	10	1.0	20
11996	Methylene Chloride		75-09-2	N.D.	10	1.4	20
11996	Tetrachloroethene		127-18-4	N.D.	10	1.2	20
11996	Toluene		108-88-3	27	10	1.4	20
11996	1,1,1-Trichloroethane		71-55-6	N.D.	10	1.2	20
11996	Trichloroethene		79-01-6	N.D.	10	1.2	20
11996	Vinyl Chloride		75-01-4	N.D.	10	2.0	20
11996	Xylene (Total)		1330-20-7	5,000	100	15	100
sensi with a (outsi	port Limit Verification (RLV) tivity of the instrument for sa continuing calibration verifi de the 20%D criteria). The ow the reporting limit.	amples with non-decation standard ex	etect analytes ass xhibiting low respo	nse			
GC Mis	scellaneous	RSKSOP-17	5 modified	ug/l	ug/l	ug/l	
07105	Ethane		74-84-0	N.D.	5.0	1.0	1
07105	Ethene		74-85-1	N.D.	5.0	1.0	1
07105	Methane		74-82-8	5,300	100	60	20
W 4 2 :	• ,	EDA 200 2		ma/l	ma/l	mall	
	nemistry	EPA 300.0	40007.00.0	mg/l	mg/l	mg/l	50
00224	Chloride		16887-00-6	80.6	20.0	10.0	50
00368	Nitrate Nitrogen		14797-55-8	N.D.	0.50	0.25	5

^{*=}This limit was used in the evaluation of the final result



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Sample Description: PZ-06-120519 Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/06/2019 10:59 Collection Date/Time: 12/05/2019 14:50

SDG#: SMP18-14

GE-O'Brien & Gere	, Inc.
ELLE Sample #:	GW 1216931
FLLE Group #	2077922

Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Wet Ch	emistry	EPA 300.0	mg/l	mg/l	mg/l	
	requirement of analyzing a 90%-110% acceptance wi	nin the 48 hour holding time; however a low standard with the sample was or ndow with a reecovery of 88%. Samp with a result of ND and an acceptable	utside of the le was repeated outside			
00228	Sulfate	14808-79-8	3.0 J	5.0	1.5	5
		SM 5310 C-2011	mg/l	mg/l	mg/l	
00273	Total Organic Carbon	n.a.	5.4	1.0	0.50	1
		SM 2320 B-2011	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	382	8.0	2.6	1
12149	Bicarbonate Alkalinity	n.a.	382	8.0	2.6	1

Sample Comments

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

	Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor		
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H193442AA	12/11/2019 02:56	Miranda Campbell	100		
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H193452AA	12/11/2019 21:51	Miranda Campbell	20		
01163	GC/MS VOA Water Prep	SW-846 5030C	1	H193442AA	12/11/2019 02:55	Miranda Campbell	100		
01163	GC/MS VOA Water Prep	SW-846 5030C	2	H193452AA	12/11/2019 21:50	Miranda Campbell	20		
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	193430003A	12/09/2019 17:01	Johanna C Kennedy	1		
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	193430003A	12/10/2019 09:20	Johanna C Kennedy	20		
00224	Chloride	EPA 300.0	1	19340720117B	12/08/2019 09:22	Samantha Faverio	50		
00368	Nitrate Nitrogen	EPA 300.0	1	19340720117B	12/07/2019 03:00	Samantha Faverio	5		
00228	Sulfate	EPA 300.0	1	19340720117B	12/08/2019 08:07	Samantha Faverio	5		
00273	Total Organic Carbon	SM 5310 C-2011	1	19345304501B	12/11/2019 19:26	Bethany Sandone	1		
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19343010202A	12/09/2019 20:22	Jeremy L Bolf	1		
12149	Bicarbonate Alkalinity	SM 2320 B-2011	1	19343010202A	12/09/2019 20:22	Jeremy L Bolf	1		

^{*=}This limit was used in the evaluation of the final result



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Sample Description: PZ-06-120519 Filtered Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/06/2019 10:59 Collection Date/Time: 12/05/2019 14:50

SDG#: SMP18-15

GE-O'Brien & Gere, Inc.

ELLE Sample #: GW 1216932 ELLE Group #: 2077922

Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Metals	Dissolved	SW-846 6010D Rev.4, July 2014	mg/l	mg/l	mg/l	
01754	Iron	7439-89-6	19.3	0.200	0.0400	1

Sample Comments

State of New York Certification No. 10670 This sample was field filtered for dissolved metals.

	Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor		
01754	Iron	SW-846 6010D Rev.4, July 2014	1	193431404401	12/09/2019 10:54	Lisa J Cooke	1		
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	193431404401	12/09/2019 03:50	James L Mertz	1		



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Sample Description: X-02-120519 Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/06/2019 10:59
Collection Date/Time: 12/05/2019
SDG#: 12/05/2019
SMP18-16FD

GE-O'Brien & Gere, Inc.

ELLE Sample #: GW 1216933 ELLE Group #: 2077922

Matrix: Groundwater

CAT No.	Analysis Name	(CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 82600	C 25mL	ug/l	ug/l	ug/l	
		purge					
11996	Acetone		67-64-1	N.D.	100	18	20
11996	Benzene	7	71-43-2	N.D.	10	1.0	20
11996	2-Butanone	7	78-93-3	N.D.	100	12	20
11996	Chlorobenzene	•	108-90-7	N.D.	10	1.2	20
11996	Chloroethane	7	75-00-3	N.D.	10	1.4	20
11996	Cyclohexane	•	110-82-7	23	10	1.0	20
11996	1,2-Dichlorobenzene	ç	95-50-1	2.5 J	10	1.2	20
11996	1,3-Dichlorobenzene	Ę	541-73-1	N.D.	10	1.2	20
11996	1,4-Dichlorobenzene	•	106-46-7	1.8 J	10	1.4	20
11996	1,1-Dichloroethane	7	75-34-3	N.D.	10	1.4	20
11996	1,2-Dichloroethane	•	107-06-2	N.D.	10	1.0	20
11996	1,1-Dichloroethene	7	75-35-4	N.D.	10	1.2	20
11996	cis-1,2-Dichloroethene	•	156-59-2	N.D.	10	1.0	20
11996	trans-1,2-Dichloroethene	•	156-60-5	N.D.	10	1.2	20
11996	1,2-Dichloroethene (Total))1	540-59-0	N.D.	20	2.2	20
11996	Ethylbenzene	•	100-41-4	850	50	6.0	100
11996	Isopropylbenzene	(98-82-8	15	10	1.0	20
11996	4-Methyl-2-Pentanone	•	108-10-1	N.D.	100	14	20
11996	Methylcyclohexane	•	108-87-2	3.2 J	10	1.0	20
11996	Methylene Chloride	7	75-09-2	N.D.	10	1.4	20
11996	Tetrachloroethene	•	127-18-4	N.D.	10	1.2	20
11996	Toluene	•	108-88-3	25	10	1.4	20
11996	1,1,1-Trichloroethane	Ī	71-55-6	N.D.	10	1.2	20
11996	Trichloroethene	Ī	79-01-6	N.D.	10	1.2	20
11996	Vinyl Chloride	Ī	75-01-4	N.D.	10	2.0	20
11996	Xylene (Total)	•	1330-20-7	5,000	100	15	100
sensit with a (outsid	ort Limit Verification (RLV) ivity of the instrument for sa continuing calibration verificate the 20%D criteria). The ow the reporting limit.	amples with non-dete cation standard exh	ect analytes assoribiting low respon	se			
GC Mis	cellaneous	RSKSOP-175	modified	ug/l	ug/l	ug/l	
07105	Ethane		74-84-0	N.D.	5.0	1.0	1
07105	Ethene	7	74-85-1	N.D.	5.0	1.0	1
07105	Methane	7	74-82-8	5,500	100	60	20
W-4 OF		EPA 300.0		mg/l	mg/l	mg/l	
00224	emistry Chloride		16887-00-6	79.5	20.0	-	50
00224				79.5 N.D.		10.0 0.25	50 5
00368	Nitrate Nitrogen		14797-55-8	N.D.	0.50	0.25	ວ

^{*=}This limit was used in the evaluation of the final result



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Sample Description: X-02-120519 Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/06/2019 10:59
Collection Date/Time: 12/05/2019
SDG#: 12/05/2019
SMP18-16FD

GE-O'Brien	&	Gere,	Inc.
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ELLE Sample #: GW 1216933 ELLE Group #: 2077922

Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Wet Ch	nemistry	EPA 300.0	mg/l	mg/l	mg/l	
	bracketing continuing calib the 90-110% acceptance requirement of analyzing a acceptance window with a	llyzed within the 48 hour holding time pration verification standards (CCV) w window with a recovery of 112%; also a low standard with the sample was o precovery of 88%. Sample was rean: f 2.9 mg/l and had acceptable CCV's	vas outside of the client outside for the same alyzed past hold on			
00228	Sulfate	14808-79-8	3.1 J	5.0	1.5	5
		SM 5310 C-2011	mg/l	mg/l	mg/l	
00273	Total Organic Carbon	n.a.	5.3	1.0	0.50	1
		SM 2320 B-2011	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	372	8.0	2.6	1
12149	Bicarbonate Alkalinity	n.a.	372	8.0	2.6	1

Sample Comments

 $^{^{1}}$ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

	Laboratory Sample Analysis Record										
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor				
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H193442AA	12/11/2019 03:39	Miranda Campbell	100				
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H193452AA	12/11/2019 22:13	Miranda Campbell	20				
01163	GC/MS VOA Water Prep	SW-846 5030C	1	H193442AA	12/11/2019 03:38	Miranda Campbell	100				
01163	GC/MS VOA Water Prep	SW-846 5030C	2	H193452AA	12/11/2019 22:12	Miranda Campbell	20				
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	193430003A	12/09/2019 17:18	Johanna C Kennedy	1				
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	193430003A	12/10/2019 09:36	Johanna C Kennedy	20				
00224	Chloride	EPA 300.0	1	19340720117B	12/08/2019 09:40	Samantha Faverio	50				
00368	Nitrate Nitrogen	EPA 300.0	1	19340720117A	12/06/2019 16:13	Samantha Faverio	5				
00228	Sulfate	EPA 300.0	1	19340720117A	12/07/2019 21:48	Samantha Faverio	5				
00273	Total Organic Carbon	SM 5310 C-2011	1	19345304501B	12/11/2019 19:39	Bethany Sandone	1				
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19343010202A	12/09/2019 20:29	Jeremy L Bolf	1				
12149	Bicarbonate Alkalinity	SM 2320 B-2011	1	19343010202A	12/09/2019 20:29	Jeremy L Bolf	1				

^{*=}This limit was used in the evaluation of the final result



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Sample Description: X-02-120519 Filtered Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/06/2019 10:59
Collection Date/Time: 12/05/2019
SDG#: 12/05/2019
SMP18-17FD

GE-O'Brien & Gere, Inc.

ELLE Sample #: GW 1216934 ELLE Group #: 2077922

Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Metals	Dissolved	SW-846 6010D Rev.4, July 2014	mg/l	mg/l	mg/l	
01754	Iron	7439-89-6	21.4	0.200	0.0400	1

Sample Comments

State of New York Certification No. 10670 This sample was field filtered for dissolved metals.

	Laboratory Sample Analysis Record									
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor			
01754	Iron	SW-846 6010D Rev.4, July 2014	1	193431404401	12/09/2019 11:07	Lisa J Cooke	1			
14044	ICP-WW. 3005A (tot rec) - U345	SW-846 3005A	1	193431404401	12/09/2019 03:50	James L Mertz	1			



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Sample Description: TB-10-120519 Water

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/06/2019 10:59
Collection Date/Time: 12/05/2019
SDG#: SMP18-18TB

GE-O'Brien & Gere, Inc.

ELLE Sample #: GW 1216935

ELLE Group #: 2077922

Matrix: Water

CAT No.	Analysis Name		CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 82600	C 25mL	ug/l	ug/l	ug/l	
		purge					
11996	Acetone		67-64-1	N.D.	5.0	0.9	1
11996	Benzene		71-43-2	N.D.	0.5	0.05	1
11996	2-Butanone		78-93-3	N.D.	5.0	0.6	1
11996	Chlorobenzene		108-90-7	N.D.	0.5	0.06	1
11996	Chloroethane		75-00-3	N.D.	0.5	0.07	1
11996	Cyclohexane		110-82-7	N.D.	0.5	0.05	1
11996	1,2-Dichlorobenzene		95-50-1	N.D.	0.5	0.06	1
11996	1,3-Dichlorobenzene		541-73-1	N.D.	0.5	0.06	1
11996	1,4-Dichlorobenzene		106-46-7	N.D.	0.5	0.07	1
11996	1,1-Dichloroethane		75-34-3	N.D.	0.5	0.07	1
11996	1,2-Dichloroethane		107-06-2	N.D.	0.5	0.05	1
11996	1,1-Dichloroethene		75-35-4	N.D.	0.5	0.06	1
11996	cis-1,2-Dichloroethene		156-59-2	N.D.	0.5	0.05	1
11996	trans-1,2-Dichloroethene		156-60-5	N.D.	0.5	0.06	1
11996	1,2-Dichloroethene (Total)	1	540-59-0	N.D.	1.0	0.1	1
11996	Ethylbenzene		100-41-4	N.D.	0.5	0.06	1
11996	Isopropylbenzene		98-82-8	N.D.	0.5	0.05	1
11996	4-Methyl-2-Pentanone		108-10-1	N.D.	5.0	0.7	1
11996	Methylcyclohexane		108-87-2	N.D.	0.5	0.05	1
11996	Methylene Chloride		75-09-2	N.D.	0.5	0.07	1
11996	Tetrachloroethene		127-18-4	N.D.	0.5	0.06	1
11996	Toluene		108-88-3	N.D.	0.5	0.07	1
11996	1,1,1-Trichloroethane		71-55-6	N.D.	0.5	0.06	1
11996	Trichloroethene		79-01-6	N.D.	0.5	0.06	1
11996	Vinyl Chloride		75-01-4	N.D.	0.5	0.1	1
11996	Xylene (Total)		1330-20-7	N.D.	1.0	0.2	1
	oort Limit Verification (RLV) ivity of the instrument for sa			ociated			

A Report Limit Verification (RLV) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The RLV standard shows adequate sensitivity at or below the reporting limit.

Sample Comments

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

	Laboratory Sample Analysis Record									
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor			

^{*=}This limit was used in the evaluation of the final result



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Sample Description: TB-10-120519 Water

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

 Submittal Date/Time:
 12/06/2019 10:59

 Collection Date/Time:
 12/05/2019

 SDG#:
 SMP18-18TB

GE-O'Brien & Gere, Inc.

ELLE Sample #: GW 1216935

ELLE Group #: 2077922

Matrix: Water

Laboratory Sample Analysis Record

			•	. ,			
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H193442AA	12/10/2019 22:14	Miranda Campbell	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	H193442AA	12/10/2019 22:13	Miranda Campbell	1



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Sample Description: GE-15-120519 Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/06/2019 10:59 Collection Date/Time: 12/05/2019 10:05

SDG#: SMP18-19

GE-O'Brien & Gere, Inc.

ELLE Sample #: GW 1216957 ELLE Group #: 2077925

Matrix: Groundwater

CAT No.	Analysis Name		CAS Number	Result		imit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260	C 25mL	ug/l	ι	g/l	ug/l	
		purge						
11996	Acetone		67-64-1	16		.0	0.9	1
11996	Benzene		71-43-2	0.3 J		.5	0.05	1
11996	2-Butanone		78-93-3	N.D.	5	.0	0.6	1
11996	Chlorobenzene		108-90-7	N.D.	C	.5	0.06	1
11996	Chloroethane		75-00-3	0.6	C	.5	0.07	1
11996	Cyclohexane		110-82-7	N.D.	C	.5	0.05	1
11996	1,2-Dichlorobenzene		95-50-1	N.D.	C	.5	0.06	1
11996	1,3-Dichlorobenzene		541-73-1	N.D.	C	.5	0.06	1
11996	1,4-Dichlorobenzene		106-46-7	N.D.	C	.5	0.07	1
11996	1,1-Dichloroethane		75-34-3	0.1 J	C	.5	0.07	1
11996	1,2-Dichloroethane		107-06-2	N.D.	C	.5	0.05	1
11996	1,1-Dichloroethene		75-35-4	N.D.	C	.5	0.06	1
11996	cis-1,2-Dichloroethene		156-59-2	0.1 J	C	.5	0.05	1
11996	trans-1,2-Dichloroethene		156-60-5	0.2 J	C	.5	0.06	1
11996	1,2-Dichloroethene (Total)	1	540-59-0	0.3 J	1	.0	0.1	1
11996	Ethylbenzene		100-41-4	N.D.	C	.5	0.06	1
11996	Isopropylbenzene		98-82-8	N.D.	C	.5	0.05	1
11996	4-Methyl-2-Pentanone		108-10-1	N.D.	5	.0	0.7	1
11996	Methylcyclohexane		108-87-2	N.D.	C	.5	0.05	1
11996	Methylene Chloride		75-09-2	N.D.	C	.5	0.07	1
11996	Tetrachloroethene		127-18-4	N.D.	C	.5	0.06	1
11996	Toluene		108-88-3	N.D.	C	.5	0.07	1
11996	1,1,1-Trichloroethane		71-55-6	N.D.	C	.5	0.06	1
11996	Trichloroethene		79-01-6	0.07 J	C	.5	0.06	1
11996	Vinyl Chloride		75-01-4	N.D.	C	.5	0.1	1
11996	Xylene (Total)		1330-20-7	N.D.	1	.0	0.2	1
sensit	ort Limit Verification (RLV)	mples with non-det	ect analytes ass	ociated				

A Report Limit Verification (RLV) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The RLV standard shows adequate sensitivity at or below the reporting limit.

Sample Comments

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

	Laboratory Sample Analysis Record									
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor			

^{*=}This limit was used in the evaluation of the final result



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Sample Description: GE-15-120519 Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/06/2019 10:59 Collection Date/Time: 12/05/2019 10:05

SDG#: SMP18-19

GE-O'Brien & Gere, Inc.

ELLE Sample #: GW 1216957 ELLE Group #: 2077925

Matrix: Groundwater

Laboratory	Sample	Ana	iysis i	Record
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CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11996	VOCs 8260C	SW-846 8260C 25mL	1	H193442AA	12/11/2019 06:33	Miranda Campbell	1
01163	GC/MS VOA Water Prep	purge SW-846 5030C	1	H193442AA	12/11/2019 06:32	Miranda Campbell	1



ELLE Sample #: GW 1218041

2078184

GE-O'Brien & Gere, Inc.

Matrix: Groundwater

ELLE Group #:

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Sample Description: PZ-07-120619 Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/07/2019 09:51 Collection Date/Time: 12/06/2019 10:15

SDG#: SMP18-20

CAT No.	Analysis Name		CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260	OC 25mL	ug/l	ug/l	ug/l	
		purge					
11996	Acetone		67-64-1	N.D.	100	18	20
11996	Benzene		71-43-2	230	10	1.0	20
11996	2-Butanone		78-93-3	N.D.	100	12	20
11996	Chlorobenzene		108-90-7	24	10	1.2	20
11996	Chloroethane		75-00-3	19	10	1.4	20
11996	Cyclohexane		110-82-7	2.7 J	10	1.0	20
11996	1,2-Dichlorobenzene		95-50-1	7.7 J	10	1.2	20
11996	1,3-Dichlorobenzene		541-73-1	N.D.	10	1.2	20
11996	1,4-Dichlorobenzene		106-46-7	3.1 J	10	1.4	20
11996	1,1-Dichloroethane		75-34-3	440	10	1.4	20
11996	1,2-Dichloroethane		107-06-2	N.D.	10	1.0	20
11996	1,1-Dichloroethene		75-35-4	19	10	1.2	20
11996	cis-1,2-Dichloroethene		156-59-2	660	100	10	200
11996	trans-1,2-Dichloroethene		156-60-5	N.D.	10	1.2	20
11996	1,2-Dichloroethene (Total)1	540-59-0	660	200	22	200
11996	Ethylbenzene		100-41-4	530	100	12	200
11996	Isopropylbenzene		98-82-8	29	10	1.0	20
11996	4-Methyl-2-Pentanone		108-10-1	N.D.	100	14	20
11996	Methylcyclohexane		108-87-2	11	10	1.0	20
11996	Methylene Chloride		75-09-2	2.6 J	10	1.4	20
11996	Tetrachloroethene		127-18-4	2.2 J	10	1.2	20
11996	Toluene		108-88-3	4,300	100	14	200
11996	1,1,1-Trichloroethane		71-55-6	290	10	1.2	20
11996	Trichloroethene		79-01-6	N.D.	10	1.2	20
11996	Vinyl Chloride		75-01-4	50	10	2.0	20
11996	Xylene (Total)		1330-20-7	3,000	200	30	200
sensi with a (outsi	port Limit Verification (RLV) tivity of the instrument for sa continuing calibration verified the 20%D criteria). The low the reporting limit.	amples with non-de ication standard ex	etect analytes asso xhibiting low respor	nse			
GC Mis	scellaneous	RSKSOP-17	5 modified	ug/l	ug/l	ug/l	
07105	Ethane		74-84-0	15	5.0	1.0	1
07105	Ethene		74-85-1	31	5.0	1.0	1
07105	Methane		74-82-8	13,000	500	300	100
Wet Cl	nemistry	EPA 300.0		mg/l	mg/l	mg/l	
00224	Chloride		16887-00-6	47.1	8.0	4.0	20
00368	Nitrate Nitrogen		14797-55-8	N.D.	0.50	0.25	5

^{*=}This limit was used in the evaluation of the final result



GW 1218041

2078184

GE-O'Brien & Gere, Inc.

Matrix: Groundwater

ELLE Sample #:

ELLE Group #:

2.6

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Sample Description: PZ-07-120619 Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/07/2019 09:51 Collection Date/Time: 12/06/2019 10:15

SDG#: SMP18-20

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Wet Cl	nemistry	EPA 300.0	mg/l	mg/l	mg/l	
	requires every ten inject calibration verification st Due to a lab error, the in therefore the analysis di	nalyzed within the 48 hour holding timions are to be bracketed by a set of crandard (CCV) and continuing calibratitial analysis had a CCV analyzed in properties of the sar with a result of ND and had acceptable.	ontinuing ion blank (CCB). place of the CCB, mple was reanalyzed			
00228	Sulfate	14808-79-8	N.D.	5.0	1.5	5
		SM 5310 C-2011	mg/l	mg/l	mg/l	
00273	Total Organic Carbon	n.a.	17.2	5.0	2.5	5
		SM 2320 B-2011	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	526	8.0	2.6	1

Sample Comments

8.0

526

State of New York Certification No. 10670

Bicarbonate Alkalinity

12149

n.a.

Laboratory Sample Analysis Record Method Dilution CAT Trial# Batch# **Analysis Analyst Analysis Name** No. **Date and Time** Factor 11996 VOCs 8260C SW-846 8260C 25mL H193442AA 12/11/2019 04:23 Miranda Campbell 20 purae 11996 VOCs 8260C SW-846 8260C 25mL H193442AA 12/11/2019 04:44 Miranda Campbell 200 purge 01163 GC/MS VOA Water Prep SW-846 5030C H193442AA 12/11/2019 04:22 Miranda Campbell 20 GC/MS VOA Water Prep Miranda Campbell SW-846 5030C 2 H193442AA 12/11/2019 04:43 200 01163 Methane, Ethane, Ethene RSKSOP-175 modified 193430007A 12/10/2019 14:59 Johanna C Kennedy 07105 100 RSKSOP-175 modified Methane, Ethane, Ethene 193430007A 12/10/2019 19:03 Johanna C Kennedy 07105 1 1 00224 Chloride EPA 300.0 19341720112A 12/09/2019 19:19 Kevin Litwa 20 Nitrate Nitrogen EPA 300.0 2 Samantha Faverio 00368 19341720112A 12/07/2019 16:48 5 EPA 300.0 19341720112A 12/09/2019 19:01 Kevin Litwa 00228 Sulfate 5 Total Organic Carbon SM 5310 C-2011 19346304502B 12/13/2019 10:54 Bethany Sandone 00273 1 5 12/09/2019 20:15 12150 Total Alkalinity to pH 4.5 SM 2320 B-2011 1 19343010202A Jeremy L Bolf 1 12149 Bicarbonate Alkalinity SM 2320 B-2011 19343010202A 12/09/2019 20:15 Jeremy L Bolf 1

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

^{*=}This limit was used in the evaluation of the final result



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Sample Description: PZ-07-120619 Filtered Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/07/2019 09:51 Collection Date/Time: 12/06/2019 10:15

SDG#: SMP18-21

GE-O'Brien & Gere, Inc.

ELLE Sample #: GW 1218042 ELLE Group #: 2078184

Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Metals	Dissolved	SW-846 6010D Rev.4, July 2014	mg/l	mg/l	mg/l	
01754	Iron	7439-89-6	72.5	0.200	0.0400	1

Sample Comments

State of New York Certification No. 10670 This sample was field filtered for dissolved metals.

	Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor		
01754	Iron	SW-846 6010D Rev.4, July 2014	1	193431404402	12/11/2019 23:54	Cindy M Gehman	1		
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	193431404402	12/11/2019 03:50	James L Mertz	1		

^{*=}This limit was used in the evaluation of the final result



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Sample Description: PZ-05-120619 Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/07/2019 09:51
Collection Date/Time: 12/06/2019 10:21
SDG#: SMP18-22

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1218043
ELLE Group #: 2078184
Matrix: Groundwater

CAT No.	Analysis Name		CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260	C 25mL	ug/l	ug/l	ug/l	
		purge					
11996	Acetone		67-64-1	N.D.	1,000	180	200
11996	Benzene		71-43-2	16 J	100	10	200
11996	2-Butanone		78-93-3	N.D.	1,000	120	200
11996	Chlorobenzene		108-90-7	N.D.	100	12	200
11996	Chloroethane		75-00-3	N.D.	100	14	200
11996	Cyclohexane		110-82-7	130	100	10	200
11996	1,2-Dichlorobenzene		95-50-1	N.D.	100	12	200
11996	1,3-Dichlorobenzene		541-73-1	N.D.	100	12	200
11996	1,4-Dichlorobenzene		106-46-7	N.D.	100	14	200
11996	1,1-Dichloroethane		75-34-3	N.D.	100	14	200
11996	1,2-Dichloroethane		107-06-2	N.D.	100	10	200
11996	1,1-Dichloroethene		75-35-4	N.D.	100	12	200
11996	cis-1,2-Dichloroethene		156-59-2	13 J	100	10	200
11996	trans-1,2-Dichloroethene		156-60-5	N.D.	100	12	200
11996	1,2-Dichloroethene (Total))1	540-59-0	N.D.	200	22	200
11996	Ethylbenzene		100-41-4	4,800	1,000	120	2000
11996	Isopropylbenzene		98-82-8	78 J	100	10	200
11996	4-Methyl-2-Pentanone		108-10-1	N.D.	1,000	140	200
11996	Methylcyclohexane		108-87-2	11 J	100	10	200
11996	Methylene Chloride		75-09-2	N.D.	100	14	200
11996	Tetrachloroethene		127-18-4	N.D.	100	12	200
11996	Toluene		108-88-3	36,000	1,000	140	2000
11996	1,1,1-Trichloroethane		71-55-6	N.D.	100	12	200
11996	Trichloroethene		79-01-6	N.D.	100	12	200
11996	Vinyl Chloride		75-01-4	N.D.	100	20	200
11996	Xylene (Total)		1330-20-7	29,000	2,000	300	2000
sensit with a (outsi	ort Limit Verification (RLV) ivity of the instrument for sa continuing calibration verifice the 20%D criteria). The ow the reporting limit.	amples with non-de ication standard exl	tect analytes association	se			
GC Mis	cellaneous	RSKSOP-175	modified	ug/l	ug/l	ug/l	
07105	Ethane		74-84-0	1.0 J	5.0	1.0	1
07105	Ethene		74-85-1	N.D.	5.0	1.0	1
07105	Methane		74-82-8	21,000	1,300	750	250
Wet Ch	emistry	EPA 300.0		mg/l	mg/l	mg/l	
00224	Chloride		16887-00-6	90.4	20.0	10.0	50
00368	Nitrate Nitrogen		14797-55-8	N.D.	0.50	0.25	5

^{*=}This limit was used in the evaluation of the final result



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Sample Description: PZ-05-120619 Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/07/2019 09:51
Collection Date/Time: 12/06/2019 10:21
SDG#: SMP18-22

GE-O'Brien & Gere, Inc. ELLE Sample #: GW 1218043 ELLE Group #: 2078184

Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Wet CI	hemistry	EPA 300.0	mg/l	mg/l	mg/l	
	requires every ten inject calibration verification st Due to a lab error, the in therefore the analysis di	nalyzed within the 48 hour holding time ions are to be bracketed by a set of co andard (CCV) and continuing calibratic hitial analysis had a CCV analyzed in p d not have a qualifying CCB. The sam with a result of ND and had acceptable	ntinuing on blank (CCB). lace of the CCB, nple was reanalyzed			
00228	Sulfate	14808-79-8	N.D.	5.0	1.5	5
		SM 5310 C-2011	mg/l	mg/l	mg/l	
00273	Total Organic Carbon	n.a.	25.8	10.0	5.0	10
		SM 2320 B-2011	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	559	8.0	2.6	1

Sample Comments

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

	Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor		
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H193442AA	12/11/2019 05:06	Miranda Campbell	200		
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H193442AA	12/11/2019 05:28	Miranda Campbell	2000		
01163	GC/MS VOA Water Prep	SW-846 5030C	1	H193442AA	12/11/2019 05:05	Miranda Campbell	200		
01163	GC/MS VOA Water Prep	SW-846 5030C	2	H193442AA	12/11/2019 05:27	Miranda Campbell	2000		
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	193430007A	12/09/2019 12:42	Johanna C Kennedy	1		
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	193430007A	12/10/2019 15:18	Johanna C Kennedy	250		
00224	Chloride	EPA 300.0	1	19341720112A	12/10/2019 13:50	Samantha Faverio	50		
00368	Nitrate Nitrogen	EPA 300.0	2	19341720112A	12/07/2019 16:10	Samantha Faverio	5		
00228	Sulfate	EPA 300.0	1	19341720112A	12/09/2019 18:23	Kevin Litwa	5		
00273	Total Organic Carbon	SM 5310 C-2011	1	19346304502B	12/13/2019 11:34	Bethany Sandone	10		
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19343010202A	12/09/2019 19:58	Jeremy L Bolf	1		
12149	Bicarbonate Alkalinity	SM 2320 B-2011	1	19343010202A	12/09/2019 19:58	Jeremy L Bolf	1		

^{*=}This limit was used in the evaluation of the final result



ELLE Sample #: GW 1218044

2078184

GE-O'Brien & Gere, Inc.

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Sample Description: PZ-05-120619 Filtered Grab Groundwater

General Electric Schenectady Main Plant

ELLE Group #:

Project Name: GE Schenectady Main Plant Matrix: Groundwater

Submittal Date/Time: 12/07/2019 09:51 Collection Date/Time: 12/06/2019 10:21

SDG#: SMP18-23

CAT No.	Analysis Name		CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Metals	Dissolved	SW-846 6010 2014	D Rev.4, July	mg/l	mg/l	mg/l	
01754	Iron		7439-89-6	50.9	0.200	0.0400	1

Sample Comments

State of New York Certification No. 10670 This sample was field filtered for dissolved metals.

	Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor		
01754	Iron	SW-846 6010D Rev.4, July 2014	1	193431404402	12/12/2019 00:13	Cindy M Gehman	1		
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	193431404402	12/11/2019 03:50	James L Mertz	1		



ELLE Sample #: GW 1218045

2078184

GE-O'Brien & Gere, Inc.

Matrix: Groundwater

ELLE Group #:

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Sample Description: PZ-04-120619 Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/07/2019 09:51
Collection Date/Time: 12/06/2019 12:10

SDG#: SMP18-24

CAT No.	Analysis Name		CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 826	0C 25mL	ug/l	ug/l	ug/l	
		purge					
11996	Acetone		67-64-1	N.D.	2,500	450	500
11996	Benzene		71-43-2	2,000	250	25	500
11996	2-Butanone		78-93-3	N.D.	2,500	300	500
11996	Chlorobenzene		108-90-7	37 J	250	30	500
11996	Chloroethane		75-00-3	750	250	35	500
11996	Cyclohexane		110-82-7	N.D.	250	25	500
11996	1,2-Dichlorobenzene		95-50-1	200 J	250	30	500
11996	1,3-Dichlorobenzene		541-73-1	N.D.	250	30	500
11996	1,4-Dichlorobenzene		106-46-7	N.D.	250	35	500
11996	1,1-Dichloroethane		75-34-3	4,500	250	35	500
11996	1,2-Dichloroethane		107-06-2	530	250	25	500
11996	1,1-Dichloroethene		75-35-4	350	250	30	500
11996	cis-1,2-Dichloroethene		156-59-2	5,600	250	25	500
11996	trans-1,2-Dichloroethene		156-60-5	N.D.	250	30	500
11996	1,2-Dichloroethene (Total))1	540-59-0	5,600	500	55	500
11996	Ethylbenzene		100-41-4	3,700	250	30	500
11996	Isopropylbenzene		98-82-8	59 J	250	25	500
11996	4-Methyl-2-Pentanone		108-10-1	400 J	2,500	350	500
11996	Methylcyclohexane		108-87-2	29 J	250	25	500
11996	Methylene Chloride		75-09-2	620	250	35	500
11996	Tetrachloroethene		127-18-4	110 J	250	30	500
11996	Toluene		108-88-3	36,000	2,500	350	5000
11996	1,1,1-Trichloroethane		71-55-6	18,000	2,500	300	5000
11996	Trichloroethene		79-01-6	38 J	250	30	500
11996	Vinyl Chloride		75-01-4	N.D.	250	50	500
11996	Xylene (Total)		1330-20-7	22,000	500	75	500
sensi with a (outsi	port Limit Verification (RLV) tivity of the instrument for sa a continuing calibration verified de the 20%D criteria). The ow the reporting limit.	amples with non-d ication standard e	etect analytes asso xhibiting low respo	onse			
GC Mis	scellaneous	RSKSOP-17	5 modified	ug/l	ug/l	ug/l	
07105	Ethane		74-84-0	14	5.0	1.0	1
07105	Ethene		74-85-1	3.1 J	5.0	1.0	1
07105	Methane		74-82-8	11,000	500	300	100
\A/~4 C!	amiatu.	EPA 300.0		mg/l	mg/l	mg/l	
00224	nemistry Chloride	FF 4 300.0	16887-00-6	52.3	8.0	4.0	20
00224	Nitrate Nitrogen		14797-55-8	52.3 N.D.	0.50	4.0 0.25	20 5
00308	minate minogen		14/9/-00-0	IN.U.	0.50	0.25	J

^{*=}This limit was used in the evaluation of the final result



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Sample Description: PZ-04-120619 Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/07/2019 09:51 Collection Date/Time: 12/06/2019 12:10

SDG#: SMP18-24

GE-O'Brien	& (Gere,	Inc.
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ELLE Sample #: GW 1218045 ELLE Group #: 2078184

Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Wet Cl	hemistry	EPA 300.0	mg/l	mg/l	mg/l	
	requires every ten injectio calibration verification star Due to a lab error, the initi therefore the analysis did	alyzed within the 48 hour holding time ns are to be bracketed by a set of cor ndard (CCV) and continuing calibration ial analysis had a CCV analyzed in planot have a qualifying CCB. The samulith a result of ND and had acceptable	ntinuing on blank (CCB). ace of the CCB, ple was reanalyzed			
00228	Sulfate	14808-79-8	2.9 J	5.0	1.5	5
		SM 5310 C-2011	mg/l	mg/l	mg/l	
00273	Total Organic Carbon	n.a.	163	50.0	25.0	50
		SM 2320 B-2011	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	776	8.0	2.6	1

Sample Comments

State of New York Certification No. 10670

 $^{^{1}}$ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

	Laboratory Sample Analysis Record						
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H193442AA	12/11/2019 05:49	Miranda Campbell	500
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H193442AA	12/11/2019 06:11	Miranda Campbell	5000
01163	GC/MS VOA Water Prep	SW-846 5030C	1	H193442AA	12/11/2019 05:48	Miranda Campbell	500
01163	GC/MS VOA Water Prep	SW-846 5030C	2	H193442AA	12/11/2019 06:10	Miranda Campbell	5000
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	193430007A	12/09/2019 13:00	Johanna C Kennedy	1
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	193430007A	12/10/2019 15:36	Johanna C Kennedy	100
00224	Chloride	EPA 300.0	1	19341720112A	12/09/2019 19:57	Kevin Litwa	20
00368	Nitrate Nitrogen	EPA 300.0	2	19341720112A	12/07/2019 17:25	Samantha Faverio	5
00228	Sulfate	EPA 300.0	1	19341720112A	12/09/2019 19:38	Kevin Litwa	5
00273	Total Organic Carbon	SM 5310 C-2011	1	19346304502B	12/13/2019 11:47	Bethany Sandone	50
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19343010202A	12/09/2019 19:50	Jeremy L Bolf	1
12149	Bicarbonate Alkalinity	SM 2320 B-2011	1	19343010202A	12/09/2019 19:50	Jeremy L Bolf	1

^{*=}This limit was used in the evaluation of the final result



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Sample Description: PZ-04-120619 Filtered Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/07/2019 09:51 Collection Date/Time: 12/06/2019 12:10

SDG#: SMP18-25

GE-O'Brien & Gere, Inc.

ELLE Sample #: GW 1218046 ELLE Group #: 2078184

Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Metals	Dissolved	SW-846 6010D Rev.4, July 2014	mg/l	mg/l	mg/l	
01754	Iron	7439-89-6	62.0	0.200	0.0400	1

Sample Comments

State of New York Certification No. 10670 This sample was field filtered for dissolved metals.

		Labo	ratory S	sample Analysis	Record		
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010D Rev.4, July 2014	1	193431404402	12/12/2019 00:10	Cindy M Gehman	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	193431404402	12/11/2019 03:50	James L Mertz	1

^{*=}This limit was used in the evaluation of the final result



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Sample Description: PZ-03-120619 Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/07/2019 09:51 Collection Date/Time: 12/06/2019 14:47

SDG#: SMP18-26

GE-O'Brien	& Gere, In	IC.
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ELLE Sample #: GW 1218047 ELLE Group #: 2078184

Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260C 25mL	ug/l	ug/l	ug/l	
		purge				
11996	Acetone	67-64-1	N.D.	5.0	0.9	1
11996	Benzene	71-43-2	N.D.	0.5	0.05	1
11996	2-Butanone	78-93-3	N.D.	5.0	0.6	1
11996	Chlorobenzene	108-90-7	N.D.	0.5	0.06	1
11996	Chloroethane	75-00-3	N.D.	0.5	0.07	1
11996	Cyclohexane	110-82-7	N.D.	0.5	0.05	1
11996	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	0.06	1
11996	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	0.06	1
11996	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	0.07	1
11996	1,1-Dichloroethane	75-34-3	0.3 J	0.5	0.07	1
11996	1,2-Dichloroethane	107-06-2	N.D.	0.5	0.05	1
11996	1,1-Dichloroethene	75-35-4	0.07 J	0.5	0.06	1
11996	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	0.05	1
11996	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	0.06	1
11996	1,2-Dichloroethene (Total)1 540-59-0	N.D.	1.0	0.1	1
11996	Ethylbenzene	100-41-4	N.D.	0.5	0.06	1
11996	Isopropylbenzene	98-82-8	N.D.	0.5	0.05	1
11996	4-Methyl-2-Pentanone	108-10-1	N.D.	5.0	0.7	1
11996	Methylcyclohexane	108-87-2	N.D.	0.5	0.05	1
11996	Methylene Chloride	75-09-2	N.D.	0.5	0.07	1
11996	Tetrachloroethene	127-18-4	N.D.	0.5	0.06	1
11996	Toluene	108-88-3	N.D.	0.5	0.07	1
11996	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	0.06	1
11996	Trichloroethene	79-01-6	N.D.	0.5	0.06	1
11996	Vinyl Chloride	75-01-4	N.D.	0.5	0.1	1
11996	Xylene (Total)	1330-20-7	N.D.	1.0	0.2	1
sensi with a (outsi	tivity of the instrument for sa continuing calibration verif	standard is analyzed to confirm amples with non-detect analytes assication standard exhibiting low resp RLV standard shows adequate ser	onse			
GC Mis	scellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	5.0	1.0	1
07105	Ethene	74-85-1	N.D.	5.0	1.0	1
07105	Methane	74-82-8	1,700	100	60	20
Wet Ch	nemistry	EPA 300.0	mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	71.6	40.0	20.0	100
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.50	0.25	5

^{*=}This limit was used in the evaluation of the final result



GW 1218047

2078184

GE-O'Brien & Gere, Inc.

Matrix: Groundwater

ELLE Sample #:

ELLE Group #:

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Sample Description: PZ-03-120619 Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/07/2019 09:51

Collection Date/Time: 12/06/2019 14:47 SDG#: SMP18-26

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Wet Ch	nemistry	EPA 300.0	mg/l	mg/l	mg/l	
	requires every ten injectior calibration verification stan Due to a lab error, the initia therefore the analysis did r	lyzed within the 48 hour holding time. ns are to be bracketed by a set of cont idard (CCV) and continuing calibration al analysis had a CCV analyzed in pla not have a qualifying CCB. The samp ith a result of ND and had acceptable	tinuing n blank (CCB). ce of the CCB, le was reanalyzed			
00228	Sulfate	14808-79-8	N.D.	5.0	1.5	5
		SM 5310 C-2011	mg/l	mg/l	mg/l	
00273	Total Organic Carbon	n.a.	3.9	1.0	0.50	1
		SM 2320 B-2011	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	221	8.0	2.6	1
12149	Bicarbonate Alkalinity	n.a.	221	8.0	2.6	1

Sample Comments

State of New York Certification No. 10670

Laboratory Sample Analysis Record Method Dilution CAT Trial# **Analysis Analysis Name** Batch# Analyst No. **Date and Time** Factor 11996 VOCs 8260C SW-846 8260C 25mL H193442AA 12/11/2019 02:12 Miranda Campbell 1 purge 01163 GC/MS VOA Water Prep SW-846 5030C H193442AA 12/11/2019 02:11 Miranda Campbell 1 RSKSOP-175 modified 193430007A Methane, Ethane, Ethene 12/09/2019 13:18 Johanna C Kennedy 07105 1 1 07105 Methane, Ethane, Ethene RSKSOP-175 modified 193430007A 12/10/2019 12:29 Johanna C Kennedy 20 19341720112A Chloride EPA 300.0 12/09/2019 18:04 Kevin Litwa 100 00224 1 Nitrate Nitrogen EPA 300.0 19341720112A 12/07/2019 15:33 Samantha Faverio 00368 2 5 EPA 300.0 19341720112A 12/09/2019 17:46 Kevin Litwa 00228 Sulfate 1 5 00273 **Total Organic Carbon** SM 5310 C-2011 19346304502B 12/12/2019 21:32 Bethany Sandone 1 1 19343010202A Total Alkalinity to pH 4.5 SM 2320 B-2011 12/09/2019 20:42 Jeremy L Bolf 12150 1 1 Bicarbonate Alkalinity SM 2320 B-2011 19343010202A 12/09/2019 20:42 Jeremy L Bolf 12149

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

^{*=}This limit was used in the evaluation of the final result



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Sample Description: PZ-03-120619 Filtered Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/07/2019 09:51 Collection Date/Time: 12/06/2019 14:47

SDG#: SMP18-27

GE-O'Brien & Gere, Inc.

ELLE Sample #: GW 1218048 ELLE Group #: 2078184

Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Metals	Dissolved	SW-846 6010D Rev.4, July 2014	mg/l	mg/l	mg/l	
01754	Iron	7439-89-6	6.04	0.200	0.0400	1

Sample Comments

State of New York Certification No. 10670 This sample was field filtered for dissolved metals.

	Laboratory Sample Analysis Record						
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010D Rev.4, July 2014	1	193431404402	12/12/2019 00:07	Cindy M Gehman	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	193431404402	12/11/2019 03:50	James L Mertz	1

^{*=}This limit was used in the evaluation of the final result



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Sample Description: P-41R-120619 Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/07/2019 09:51 Collection Date/Time: 12/06/2019 14:55

SDG#: SMP18-28

GE-O'Bri	en & G	ere, Inc.
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ELLE Sample #: GW 1218049 ELLE Group #: 2078184

Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260C 25mL	ug/l	ug/l	ug/l	
		purge				
11996	Acetone	67-64-1	N.D.	5.0	0.9	1
11996	Benzene	71-43-2	N.D.	0.5	0.05	1
11996	2-Butanone	78-93-3	N.D.	5.0	0.6	1
11996	Chlorobenzene	108-90-7	N.D.	0.5	0.06	1
11996	Chloroethane	75-00-3	N.D.	0.5	0.07	1
11996	Cyclohexane	110-82-7	0.5	0.5	0.05	1
11996	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	0.06	1
11996	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	0.06	1
11996	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	0.07	1
11996	1,1-Dichloroethane	75-34-3	0.1 J	0.5	0.07	1
11996	1,2-Dichloroethane	107-06-2	N.D.	0.5	0.05	1
11996	1,1-Dichloroethene	75-35-4	0.08 J	0.5	0.06	1
11996	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	0.05	1
11996	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	0.06	1
11996	1,2-Dichloroethene (Total)¹ 540-59-0	N.D.	1.0	0.1	1
11996	Ethylbenzene	100-41-4	N.D.	0.5	0.06	1
11996	Isopropylbenzene	98-82-8	N.D.	0.5	0.05	1
11996	4-Methyl-2-Pentanone	108-10-1	N.D.	5.0	0.7	1
11996	Methylcyclohexane	108-87-2	N.D.	0.5	0.05	1
11996	Methylene Chloride	75-09-2	N.D.	0.5	0.07	1
11996	Tetrachloroethene	127-18-4	N.D.	0.5	0.06	1
11996	Toluene	108-88-3	N.D.	0.5	0.07	1
11996	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	0.06	1
11996	Trichloroethene	79-01-6	N.D.	0.5	0.06	1
11996	Vinyl Chloride	75-01-4	N.D.	0.5	0.1	1
11996	Xylene (Total)	1330-20-7	N.D.	1.0	0.2	1
sensit with a (outsi	ivity of the instrument for so	standard is analyzed to confirm amples with non-detect analytes as ication standard exhibiting low res RLV standard shows adequate se	oonse			
GC Mis	cellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	5.0	1.0	1
07105	Ethene	74-85-1	N.D.	5.0	1.0	1
07105	Methane	74-82-8	1,900	100	60	20
Wet Ch	emistry	EPA 300.0	mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	73.4	8.0	4.0	20
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.50	0.25	5

^{*=}This limit was used in the evaluation of the final result



GW 1218049

2078184

GE-O'Brien & Gere, Inc.

Matrix: Groundwater

ELLE Sample #:

ELLE Group #:

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Sample Description: P-41R-120619 Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/07/2019 09:51 Collection Date/Time: 12/06/2019 14:55

SDG#: SMP18-28

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
	hemistry	EPA 300.0	mg/l	mg/l	mg/l	
	requires every ten injectic calibration verification sta Due to a lab error, the ini therefore the analysis dic	alyzed within the 48 hour holding times are to be bracketed by a set of condard (CCV) and continuing calibratial analysis had a CCV analyzed in I not have a qualifying CCB. The salwith a result of ND and had acceptal	ontinuing tion blank (CCB). place of the CCB, mple was reanalyzed			
00228	Sulfate	14808-79-8	N.D.	5.0	1.5	5
		SM 5310 C-2011	mg/l	mg/l	mg/l	
00273	Total Organic Carbon	n.a.	2.7	1.0	0.50	1
		SM 2320 B-2011	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	266	8.0	2.6	1
12149	Bicarbonate Alkalinity	n.a.	266	8.0	2.6	1

Sample Comments

State of New York Certification No. 10670

Laboratory Sample Analysis Record Method Dilution CAT Trial# **Analysis Analysis Name** Batch# Analyst No. **Date and Time** Factor 11996 VOCs 8260C SW-846 8260C 25mL H193442AA 12/11/2019 02:34 Miranda Campbell 1 purge 01163 GC/MS VOA Water Prep SW-846 5030C H193442AA 12/11/2019 02:33 Miranda Campbell 1 RSKSOP-175 modified 193430007A Methane, Ethane, Ethene 12/09/2019 13:37 Johanna C Kennedy 07105 1 07105 Methane, Ethane, Ethene RSKSOP-175 modified 193430007A 12/10/2019 12:48 Johanna C Kennedy 20 Chloride EPA 300.0 19341720112A 12/10/2019 13:35 Samantha Faverio 20 00224 1 Nitrate Nitrogen EPA 300.0 19341720112A 12/07/2019 15:14 Samantha Faverio 00368 5 EPA 300.0 19341720112A 12/09/2019 17:27 Kevin Litwa 00228 Sulfate 1 5 **Total Organic Carbon** SM 5310 C-2011 19346304502B 12/12/2019 21:44 Bethany Sandone 00273 1 1 19343010202A Jeremy L Bolf Total Alkalinity to pH 4.5 SM 2320 B-2011 12/09/2019 20:36 12150 1 Bicarbonate Alkalinity SM 2320 B-2011 19343010202A 12/09/2019 20:36 Jeremy L Bolf 12149

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

^{*=}This limit was used in the evaluation of the final result



2078184

GE-O'Brien & Gere, Inc.

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Sample Description: P-41R-120619 Filtered Grab Groundwater

General Electric Schenectady Main Plant

ELLE Sample #: GW 1218050 ELLE Group #:

Project Name: GE Schenectady Main Plant Matrix: Groundwater

Submittal Date/Time: 12/07/2019 09:51 Collection Date/Time: 12/06/2019 14:55

SDG#: SMP18-29

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Metals	Dissolved	SW-846 6010D Rev.4, July 2014	mg/l	mg/l	mg/l	
01754	Iron	7439-89-6	6.03	0.200	0.0400	1

Sample Comments

State of New York Certification No. 10670 This sample was field filtered for dissolved metals.

	Laboratory Sample Analysis Record									
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor			
01754	Iron	SW-846 6010D Rev.4, July 2014	1	193431404402	12/11/2019 23:57	Cindy M Gehman	1			
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	193431404402	12/11/2019 03:50	James L Mertz	1			



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Sample Description: TB-11-120619 Water

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/07/2019 09:51
Collection Date/Time: 12/06/2019
SDG#: SMP18-30TB

GE-O'Brien & Gere, Inc.

ELLE Sample #: GW 1218051

ELLE Group #: 2078184

Matrix: Water

					Limit of	Madead	
CAT No.	Analysis Name		CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260	C 25mL	ug/l	ug/l	ug/l	
		purge					
11996	Acetone		67-64-1	N.D.	5.0	0.9	1
11996	Benzene		71-43-2	N.D.	0.5	0.05	1
11996	2-Butanone		78-93-3	N.D.	5.0	0.6	1
11996	Chlorobenzene		108-90-7	N.D.	0.5	0.06	1
11996	Chloroethane		75-00-3	N.D.	0.5	0.07	1
11996	Cyclohexane		110-82-7	N.D.	0.5	0.05	1
11996	1,2-Dichlorobenzene		95-50-1	N.D.	0.5	0.06	1
11996	1,3-Dichlorobenzene		541-73-1	N.D.	0.5	0.06	1
11996	1,4-Dichlorobenzene		106-46-7	N.D.	0.5	0.07	1
11996	1,1-Dichloroethane		75-34-3	N.D.	0.5	0.07	1
11996	1,2-Dichloroethane		107-06-2	N.D.	0.5	0.05	1
11996	1,1-Dichloroethene		75-35-4	N.D.	0.5	0.06	1
11996	cis-1,2-Dichloroethene		156-59-2	N.D.	0.5	0.05	1
11996	trans-1,2-Dichloroethene		156-60-5	N.D.	0.5	0.06	1
11996	1,2-Dichloroethene (Total)	1	540-59-0	N.D.	1.0	0.1	1
11996	Ethylbenzene		100-41-4	N.D.	0.5	0.06	1
11996	Isopropylbenzene		98-82-8	N.D.	0.5	0.05	1
11996	4-Methyl-2-Pentanone		108-10-1	N.D.	5.0	0.7	1
11996	Methylcyclohexane		108-87-2	N.D.	0.5	0.05	1
11996	Methylene Chloride		75-09-2	N.D.	0.5	0.07	1
11996	Tetrachloroethene		127-18-4	N.D.	0.5	0.06	1
11996	Toluene		108-88-3	N.D.	0.5	0.07	1
11996	1,1,1-Trichloroethane		71-55-6	N.D.	0.5	0.06	1
11996	Trichloroethene		79-01-6	N.D.	0.5	0.06	1
11996	Vinyl Chloride		75-01-4	N.D.	0.5	0.1	1
11996	Xylene (Total)		1330-20-7	N.D.	1.0	0.2	1
A Rep	oort Limit Verification (RLV) ivity of the instrument for sa	standard is analyze	ed to confirm				

A Report Limit Verification (RLV) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The RLV standard shows adequate sensitivity at or below the reporting limit.

Sample Comments

State of New York Certification No. 10670

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

	Laboratory Sample Analysis Record									
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor			

^{*=}This limit was used in the evaluation of the final result



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Sample Description: TB-11-120619 Water

General Electric Schenectady Main Plant

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Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/07/2019 09:51 Collection Date/Time: 12/06/2019 SDG#: SMP18-30TB GE-O'Brien & Gere, Inc.

ELLE Sample #: GW 1218051

ELLE Group #: 2078184

Matrix: Water

Laboratory Sample Analysis Record

			•				
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H193442AA	12/10/2019 22:35	Miranda Campbell	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	H193442AA	12/10/2019 22:34	Miranda Campbell	1



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Sample Description: P-45R-120919 Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/10/2019 10:32 Collection Date/Time: 12/09/2019 12:05

SDG#: SMP18-31

GE-O'Brien & Gere, Inc.

ELLE Sample #: GW 1219230 ELLE Group #: 2078416

Matrix: Groundwater

CAT No.	Analysis Name		CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 82600 purge	C 25mL	ug/l	ug/l	ug/l	
11996	Acetone	. •	67-64-1	N.D.	5.0	0.9	1
11996	Benzene		71-43-2	N.D.	0.5	0.05	1
11996	2-Butanone		78-93-3	N.D.	5.0	0.6	1
11996	Chlorobenzene		108-90-7	N.D.	0.5	0.06	1
11996	Chloroethane		75-00-3	0.08 J	0.5	0.07	1
11996	Cyclohexane		110-82-7	N.D.	0.5	0.05	1
11996	1,2-Dichlorobenzene		95-50-1	N.D.	0.5	0.06	1
11996	1,3-Dichlorobenzene		541-73-1	N.D.	0.5	0.06	1
11996	1,4-Dichlorobenzene		106-46-7	N.D.	0.5	0.07	1
11996	1,1-Dichloroethane		75-34-3	0.1 J	0.5	0.07	1
11996	1,2-Dichloroethane		107-06-2	N.D.	0.5	0.05	1
11996	1,1-Dichloroethene		75-35-4	N.D.	0.5	0.06	1
11996	cis-1,2-Dichloroethene		156-59-2	N.D.	0.5	0.05	1
11996	trans-1,2-Dichloroethene		156-60-5	N.D.	0.5	0.06	1
11996	1,2-Dichloroethene (Total)	1	540-59-0	N.D.	1.0	0.1	1
11996	Ethylbenzene		100-41-4	N.D.	0.5	0.06	1
11996	Isopropylbenzene		98-82-8	N.D.	0.5	0.05	1
11996	4-Methyl-2-Pentanone		108-10-1	N.D.	5.0	0.7	1
11996	Methylcyclohexane		108-87-2	N.D.	0.5	0.05	1
11996	Methylene Chloride		75-09-2	N.D.	0.5	0.07	1
11996	Tetrachloroethene		127-18-4	N.D.	0.5	0.06	1
11996	Toluene		108-88-3	N.D.	0.5	0.07	1
11996	1,1,1-Trichloroethane		71-55-6	N.D.	0.5	0.06	1
11996	Trichloroethene		79-01-6	N.D.	0.5	0.06	1
11996	Vinyl Chloride		75-01-4	N.D.	0.5	0.1	1
11996	Xylene (Total)		1330-20-7	N.D.	1.0	0.2	1

A Report Limit Verification (RLV) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The RLV standard shows adequate sensitivity at or below the reporting limit.

The referenced method allows a maximum of 20% of the analytes in the calibration to exceed the 20% Drift continuing calibration verification criteria. The reported concentration in the associated sample(s) is considered to be estimated. Therefore the result for the following analyte(s) is estimated: Chloroethane

GC Mis	cellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	5.0	1.0	1
07105	Ethene	74-85-1	N.D.	5.0	1.0	1
07105	Methane	74-82-8	5,000	250	150	50

^{*=}This limit was used in the evaluation of the final result



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Sample Description: P-45R-120919 Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/10/2019 10:32 Collection Date/Time: 12/09/2019 12:05

SDG#: SMP18-31

ELLE Sample #: GW 1219230 ELLE Group #: 2078416

Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Wet Ch	nemistry	EPA 300.0	mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	44.9	20.0	10.0	50
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.50	0.25	5
00228	Sulfate	14808-79-8	N.D.	5.0	1.5	5
		SM 5310 C-2011	mg/l	mg/l	mg/l	
00273	Total Organic Carbon	n.a.	3.4	1.0	0.50	1
		SM 2320 B-2011	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	276	8.0	2.6	1
12149	Bicarbonate Alkalinity	n.a.	276	8.0	2.6	1

Sample Comments

State of New York Certification No. 10670
Preservation requirements were not met. The pH preservation of all non-volatile containers was checked upon receipt at the laboratory. The container for the following analysis was not within the specification and was adjusted accordingly by the laboratory: Total Organic Carbon

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

	Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor		
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	I193471AA	12/13/2019 11:44	Jennifer K Howe	1		
01163	GC/MS VOA Water Prep	SW-846 5030C	1	I193471AA	12/13/2019 11:43	Jennifer K Howe	1		
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	193450003A	12/11/2019 18:07	Esther Kathryn Lane	1		
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	193450003A	12/12/2019 12:56	Esther Kathryn Lane	50		
00224	Chloride	EPA 300.0	1	19344720109A	12/11/2019 02:04	Samantha Faverio	50		
00368	Nitrate Nitrogen	EPA 300.0	1	19344720109A	12/10/2019 22:19	Samantha Faverio	5		
00228	Sulfate	EPA 300.0	1	19344720109A	12/10/2019 22:19	Samantha Faverio	5		
00273	Total Organic Carbon	SM 5310 C-2011	1	19347304502A	12/13/2019 16:24	Bethany Sandone	1		
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19345003103A	12/11/2019 22:37	Jeremy L Bolf	1		
12149	Bicarbonate Alkalinity	SM 2320 B-2011	1	19345003103A	12/11/2019 22:37	Jeremy L Bolf	1		

^{*=}This limit was used in the evaluation of the final result



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Sample Description: P-45R-120919 Filtered Grab Groundwater

General Electric Schenectady Main Plant

GE Schenectady Main Plant

Submittal Date/Time: 12/10/2019 10:32 Collection Date/Time: 12/09/2019 12:05

SDG#: SMP18-32

Project Name:

GE-O'Brien & Gere, Inc.

ELLE Sample #: GW 1219231 ELLE Group #: 2078416

Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Metals	Dissolved	SW-846 6010D Rev.4, July 2014	mg/l	mg/l	mg/l	
01754	Iron	7439-89-6	9.16	0.200	0.0400	1

Sample Comments

State of New York Certification No. 10670 This sample was field filtered for dissolved metals.

	Laboratory Sample Analysis Record										
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor				
01754	Iron	SW-846 6010D Rev.4, July 2014	1	193441404402	12/12/2019 21:20	Cindy M Gehman	1				
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	193441404402	12/11/2019 14:30	JoElla L Rice	1				

^{*=}This limit was used in the evaluation of the final result



ELLE Sample #: GW 1219232

2078416

GE-O'Brien & Gere, Inc.

Matrix: Groundwater

ELLE Group #:

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Sample Description: PZ-02-120919 Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/10/2019 10:32 Collection Date/Time: 12/09/2019 12:10

SDG#: SMP18-33

CAT No.	Analysis Name		CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260	C 25mL	ug/l	ug/l	ug/l	
		purge					
11996	Acetone		67-64-1	N.D.	25	4.5	5
11996	Benzene		71-43-2	29	2.5	0.3	5
11996	2-Butanone		78-93-3	N.D.	25	3.0	5
11996	Chlorobenzene		108-90-7	210	25	3.0	50
11996	Chloroethane		75-00-3	N.D.	2.5	0.4	5
11996	Cyclohexane		110-82-7	1.2 J	2.5	0.3	5
11996	1,2-Dichlorobenzene		95-50-1	0.4 J	2.5	0.3	5
11996	1,3-Dichlorobenzene		541-73-1	1.4 J	2.5	0.3	5
11996	1,4-Dichlorobenzene		106-46-7	4.5	2.5	0.4	5
11996	1,1-Dichloroethane		75-34-3	N.D.	2.5	0.4	5
11996	1,2-Dichloroethane		107-06-2	N.D.	2.5	0.3	5
11996	1,1-Dichloroethene		75-35-4	N.D.	2.5	0.3	5
11996	cis-1,2-Dichloroethene		156-59-2	N.D.	2.5	0.3	5
11996	trans-1,2-Dichloroethene		156-60-5	N.D.	2.5	0.3	5
11996	1,2-Dichloroethene (Total)1	540-59-0	N.D.	5.0	0.6	5
11996	Ethylbenzene		100-41-4	8.2	2.5	0.3	5
11996	Isopropylbenzene		98-82-8	9.8	2.5	0.3	5
11996	4-Methyl-2-Pentanone		108-10-1	N.D.	25	3.5	5
11996	Methylcyclohexane		108-87-2	0.6 J	2.5	0.3	5
11996	Methylene Chloride		75-09-2	N.D.	2.5	0.4	5
11996	Tetrachloroethene		127-18-4	N.D.	2.5	0.3	5
11996	Toluene		108-88-3	0.7 J	2.5	0.4	5
11996	1,1,1-Trichloroethane		71-55-6	N.D.	2.5	0.3	5
11996	Trichloroethene		79-01-6	N.D.	2.5	0.3	5
11996	Vinyl Chloride		75-01-4	N.D.	2.5	0.5	5
11996	Xylene (Total)		1330-20-7	13	5.0	0.8	5
sensi with a (outsi	port Limit Verification (RLV) tivity of the instrument for sa a continuing calibration verif de the 20%D criteria). The low the reporting limit.	amples with non-de ication standard ex	etect analytes associated	nse			
GC Mis	scellaneous	RSKSOP-17	modified	ug/l	ug/l	ug/l	
07105	Ethane		74-84-0	5.2	5.0	1.0	1
07105	Ethene		74-85-1	N.D.	5.0	1.0	1
07105	Methane		74-82-8	16,000	1,000	600	200
Wet Ch	nemistry	EPA 300.0		mg/l	mg/l	mg/l	
00224	Chloride		16887-00-6	45.6	20.0	10.0	50
00368	Nitrate Nitrogen		14797-55-8	N.D.	0.50	0.25	5
00228	Sulfate		14808-79-8	5.3	5.0	1.5	5

^{*=}This limit was used in the evaluation of the final result



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Sample Description: PZ-02-120919 Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/10/2019 10:32 Collection Date/Time: 12/09/2019 12:10

SDG#: SMP18-33

GE-O'Brien & Gere, Inc.

ELLE Sample #: GW 1219232 ELLE Group #: 2078416

Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Wet Chemistry		SM 5310 C-2011	mg/l	mg/l	mg/l	
00273	Total Organic Carbon	n.a.	32.7	5.0	2.5	5
		SM 2320 B-2011	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	858	8.0	2.6	1
12149	Bicarbonate Alkalinity	n.a.	858	8.0	2.6	1

Sample Comments

State of New York Certification No. 10670
Preservation requirements were not met. The pH preservation of all non-volatile containers was checked upon receipt at the laboratory. The container for the following analysis was not within the specification and was adjusted accordingly by the laboratory: Total Organic Carbon

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

	Laboratory Sample Analysis Record										
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor				
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	I193471AA	12/13/2019 16:01	Jennifer K Howe	5				
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	I193471AA	12/13/2019 16:22	Jennifer K Howe	50				
01163	GC/MS VOA Water Prep	SW-846 5030C	1	I193471AA	12/13/2019 16:00	Jennifer K Howe	5				
01163	GC/MS VOA Water Prep	SW-846 5030C	2	I193471AA	12/13/2019 16:21	Jennifer K Howe	50				
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	193450003A	12/11/2019 18:25	Esther Kathryn Lane	1				
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	193450003A	12/12/2019 20:20	Esther Kathryn Lane	200				
00224	Chloride	EPA 300.0	1	19344720109A	12/11/2019 02:42	Samantha Faverio	50				
00368	Nitrate Nitrogen	EPA 300.0	1	19344720109A	12/10/2019 22:38	Samantha Faverio	5				
00228	Sulfate	EPA 300.0	1	19344720109A	12/10/2019 22:38	Samantha Faverio	5				
00273	Total Organic Carbon	SM 5310 C-2011	1	19347304502A	12/13/2019 16:37	Bethany Sandone	5				
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19345003103A	12/11/2019 22:29	Jeremy L Bolf	1				
12149	Bicarbonate Alkalinity	SM 2320 B-2011	1	19345003103A	12/11/2019 22:29	Jeremy L Bolf	1				

^{*=}This limit was used in the evaluation of the final result



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Sample Description: PZ-02-120919 Filtered Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/10/2019 10:32 Collection Date/Time: 12/09/2019 12:10

SDG#: SMP18-34

GE-O'Brien & Gere, Inc.

ELLE Sample #: GW 1219233 ELLE Group #: 2078416

Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Metals	Dissolved	SW-846 6010D Rev.4, July 2014	mg/l	mg/l	mg/l	
01754	Iron	7439-89-6	74.4	0.200	0.0400	1

Sample Comments

State of New York Certification No. 10670 This sample was field filtered for dissolved metals.

	Laboratory Sample Analysis Record									
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor			
01754	Iron	SW-846 6010D Rev.4, July 2014	1	193441404402	12/12/2019 21:23	Cindy M Gehman	1			
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	193441404402	12/11/2019 14:30	JoElla L Rice	1			



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Sample Description: PZ-01-120919 Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/10/2019 10:32 Collection Date/Time: 12/09/2019 13:25

SDG#: SMP18-35

GE-O'Brien & Gere, Inc.

ELLE Sample #: GW 1219234 ELLE Group #: 2078416

Matrix: Groundwater

CAT No.	Analysis Name		CAS Number	Result	Limit of Quantitation	Method n* Detection Limi	Dilution t Factor
GC/MS	Volatiles	SW-846 8260 purge	C 25mL	ug/l	ug/l	ug/l	
11996	Acetone		67-64-1	N.D.	5.0	0.9	1
11996	Benzene		71-43-2	N.D.	0.5	0.05	1
11996	2-Butanone		78-93-3	N.D.	5.0	0.6	1
11996	Chlorobenzene		108-90-7	N.D.	0.5	0.06	1
11996	Chloroethane		75-00-3	0.1 J	0.5	0.07	1
11996	Cyclohexane		110-82-7	0.8	0.5	0.05	1
11996	1,2-Dichlorobenzene		95-50-1	N.D.	0.5	0.06	1
11996	1,3-Dichlorobenzene		541-73-1	N.D.	0.5	0.06	1
11996	1,4-Dichlorobenzene		106-46-7	N.D.	0.5	0.07	1
11996	1,1-Dichloroethane		75-34-3	0.07 J	0.5	0.07	1
11996	1,2-Dichloroethane		107-06-2	N.D.	0.5	0.05	1
11996	1,1-Dichloroethene		75-35-4	N.D.	0.5	0.06	1
11996	cis-1,2-Dichloroethene		156-59-2	N.D.	0.5	0.05	1
11996	trans-1,2-Dichloroethene		156-60-5	N.D.	0.5	0.06	1
11996	1,2-Dichloroethene (Total)	1	540-59-0	N.D.	1.0	0.1	1
11996	Ethylbenzene		100-41-4	N.D.	0.5	0.06	1
11996	Isopropylbenzene		98-82-8	N.D.	0.5	0.05	1
11996	4-Methyl-2-Pentanone		108-10-1	N.D.	5.0	0.7	1
11996	Methylcyclohexane		108-87-2	N.D.	0.5	0.05	1
11996	Methylene Chloride		75-09-2	N.D.	0.5	0.07	1
11996	Tetrachloroethene		127-18-4	N.D.	0.5	0.06	1
11996	Toluene		108-88-3	N.D.	0.5	0.07	1
11996	1,1,1-Trichloroethane		71-55-6	N.D.	0.5	0.06	1
11996	Trichloroethene		79-01-6	N.D.	0.5	0.06	1
11996	Vinyl Chloride		75-01-4	N.D.	0.5	0.1	1
11996	Xylene (Total)		1330-20-7	N.D.	1.0	0.2	1
A Rep	ort Limit Verification (RLV)	standard is analyze	ed to confirm				

A Report Limit Verification (RLV) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The RLV standard shows adequate sensitivity at or below the reporting limit.

The referenced method allows a maximum of 20% of the analytes in the calibration to exceed the 20% Drift continuing calibration verification criteria. The reported concentration in the associated sample(s) is considered to be estimated. Therefore the result for the following analyte(s) is estimated: Chloroethane

GC Miscellaneous		RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	5.0	1.0	1
07105	Ethene	74-85-1	N.D.	5.0	1.0	1
07105	Methane	74-82-8	5,300	250	150	50

^{*=}This limit was used in the evaluation of the final result



ELLE Sample #: GW 1219234

2078416

GE-O'Brien & Gere, Inc.

Matrix: Groundwater

ELLE Group #:

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Sample Description: PZ-01-120919 Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/10/2019 10:32 Collection Date/Time: 12/09/2019 13:25

SDG#: SMP18-35

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Wet Ch	nemistry	EPA 300.0	mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	42.5	8.0	4.0	20
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.50	0.25	5
00228	Sulfate	14808-79-8	N.D.	5.0	1.5	5
		SM 5310 C-2011	mg/l	mg/l	mg/l	
00273	Total Organic Carbon	n.a.	4.1	1.0	0.50	1
		SM 2320 B-2011	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	273	8.0	2.6	1
12149	Bicarbonate Alkalinity	n.a.	273	8.0	2.6	1

Sample Comments

State of New York Certification No. 10670

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

	Laboratory Sample Analysis Record										
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor				
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	I193471AA	12/13/2019 12:06	Jennifer K Howe	1				
01163	GC/MS VOA Water Prep	SW-846 5030C	1	I193471AA	12/13/2019 12:05	Jennifer K Howe	1				
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	193450003A	12/11/2019 18:43	Esther Kathryn Lane	1				
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	193450003A	12/12/2019 13:33	Esther Kathryn Lane	50				
00224	Chloride	EPA 300.0	1	19344720109B	12/12/2019 13:03	Niyati Desai	20				
00368	Nitrate Nitrogen	EPA 300.0	1	19344720109B	12/10/2019 22:57	Samantha Faverio	5				
00228	Sulfate	EPA 300.0	1	19344720109B	12/10/2019 22:57	Samantha Faverio	5				
00273	Total Organic Carbon	SM 5310 C-2011	1	19347304502A	12/13/2019 16:50	Bethany Sandone	1				
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19345003103A	12/11/2019 22:44	Jeremy L Bolf	1				
12149	Bicarbonate Alkalinity	SM 2320 B-2011	1	19345003103A	12/11/2019 22:44	Jeremy L Bolf	1				

^{*=}This limit was used in the evaluation of the final result



2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Sample Description: PZ-01-120919 Filtered Grab Groundwater

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/10/2019 10:32 Collection Date/Time: 12/09/2019 13:25

SDG#: SMP18-36

GE-O'Brien & Gere, Inc.

ELLE Sample #: GW 1219235 ELLE Group #: 2078416

Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Metals	Dissolved	SW-846 6010D Rev.4, July 2014	mg/l	mg/l	mg/l	
01754	Iron	7439-89-6	8.70	0.200	0.0400	1

Sample Comments

State of New York Certification No. 10670 This sample was field filtered for dissolved metals.

	Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor		
01754	Iron	SW-846 6010D Rev.4, July 2014	1	193451404401	12/12/2019 12:48	Christina Termini	1		
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	193451404401	12/12/2019 03:11	James L Mertz	1		



2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEny

Sample Description: TB-12-120919 Water

General Electric Schenectady Main Plant

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 12/10/2019 10:32 Collection Date/Time: 12/09/2019 SDG#: SMP18-37TB GE-O'Brien & Gere, Inc.

ELLE Sample #: GW 1219236

ELLE Group #: 2078416

Matrix: Water

CAT No.	Analysis Name		CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 82600 purge	C 25mL	ug/l	ug/l	ug/l	
11996	Acetone		67-64-1	N.D.	5.0	0.9	1
11996	Benzene		71-43-2	N.D.	0.5	0.05	1
11996	2-Butanone		78-93-3	N.D.	5.0	0.6	1
11996	Chlorobenzene		108-90-7	N.D.	0.5	0.06	1
11996	Chloroethane		75-00-3	N.D.	0.5	0.07	1
11996	Cyclohexane		110-82-7	N.D.	0.5	0.05	1
11996	1,2-Dichlorobenzene		95-50-1	N.D.	0.5	0.06	1
11996	1,3-Dichlorobenzene		541-73-1	N.D.	0.5	0.06	1
11996	1,4-Dichlorobenzene		106-46-7	N.D.	0.5	0.07	1
11996	1,1-Dichloroethane		75-34-3	N.D.	0.5	0.07	1
11996	1,2-Dichloroethane		107-06-2	N.D.	0.5	0.05	1
11996	1,1-Dichloroethene		75-35-4	N.D.	0.5	0.06	1
11996	cis-1,2-Dichloroethene		156-59-2	N.D.	0.5	0.05	1
11996	trans-1,2-Dichloroethene		156-60-5	N.D.	0.5	0.06	1
11996	1,2-Dichloroethene (Total)1	540-59-0	N.D.	1.0	0.1	1
11996	Ethylbenzene		100-41-4	N.D.	0.5	0.06	1
11996	Isopropylbenzene		98-82-8	N.D.	0.5	0.05	1
11996	4-Methyl-2-Pentanone		108-10-1	N.D.	5.0	0.7	1
11996	Methylcyclohexane		108-87-2	N.D.	0.5	0.05	1
11996	Methylene Chloride		75-09-2	N.D.	0.5	0.07	1
11996	Tetrachloroethene		127-18-4	N.D.	0.5	0.06	1
11996	Toluene		108-88-3	N.D.	0.5	0.07	1
11996	1,1,1-Trichloroethane		71-55-6	N.D.	0.5	0.06	1
11996	Trichloroethene		79-01-6	N.D.	0.5	0.06	1
11996	Vinyl Chloride		75-01-4	N.D.	0.5	0.1	1
11996	Xylene (Total)		1330-20-7	N.D.	1.0	0.2	1

Sample Comments

State of New York Certification No. 10670

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

	Laboratory Sample Analysis Record										
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor				
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	I193471AA	12/13/2019 11:01	Jennifer K Howe	1				
01163	GC/MS VOA Water Prep	SW-846 5030C	1	I193471AA	12/13/2019 11:00	Jennifer K Howe	1				

^{*=}This limit was used in the evaluation of the final result



IRM/Site Location	Date	Well Identification	Depth to Product (ft bmp)	Depth to Groundwater (ft bmp)	Product Thickness (ft)	Depth to Bottom (ft bmp)	Amount of LNAPL Removed (ounces)	Odor	Sheen	Comments
STARK OIL	-	R-1	NM	NM	NM	NM	0	NM	NM	Inaccessible/unable to locate due to significant snow/ice
	-	R-2	NM	NM	NM	NM	0	NM	NM	Inaccessible/unable to locate due to significant snow/ice
	-	R-3	NM	NM	NM	NM	0	NM	NM	Inaccessible/unable to locate due to significant snow/ice
	-	R-4	NM	NM	NM	NM	0	NM	NM	Inaccessible/unable to locate due to significant snow/ice
	-	R-5	NM	NM	NM	NM	0	NM	NM	Inaccessible/unable to locate due to significant snow/ice
	12/17/2019	R-7	NP	4.32	NP	14.16	0	No	No	
	12/17/2019	R-8	NP	5.40	NP	12.66	0	No	No	
	-	R-9	NM	NM	NM	NM	0	NM	NM	Inaccessible/unable to locate due to significant snow/ice
	-	R-10	NM	NM	NM	NM	0	NM	NM	Inaccessible/unable to locate due to significant snow/ice
	-	GE-122	NM	NM	NM	NM	0	NM	NM	Inaccessible/unable to locate due to significant snow/ice

IRM/Site Location	Date	Well Identification	Depth to Product (ft bmp)	Depth to Groundwater (ft bmp)	Product Thickness (ft)	Depth to Bottom (ft bmp)	Amount of LNAPL Removed (ounces)	Odor	Sheen	Comments
49/53	12/18/2019	MW-1	NP	5.42	NP	10.17	0	Yes	Yes	
	-	MW-2	NM	NM	NM	NM	0	NM	NM	Inaccessible due to large amount of equipment/pallets stored on top
	12/18/2019	MW-2B	NP	7.20	NP	12.67	0	No	No	
	12/18/2019	MW-4	5.44	5.45	0.01	9.93	6	Yes	Yes	
	12/18/2019	MW-12	NP	3.76	NP	4.33	0	Yes	Yes	
	12/18/2019	MW-14A	NP	4.00	NP	11.86	0	No	No	
	12/18/2019	MW-15A	**	6.28	NP	12.50	0	Yes	Yes	
	12/18/2019	MW-15B	**	7.68	NP	NM	30	Yes	Yes	
	12/18/2019	MW-18	**	3.71	NP	6.20	0	Yes	Yes	
	-	MW-57-1	NM	NM	NM	NM	0	NM	NM	Inaccessible due to plowed pile of hard snow/ice
	-	MW-57-2	NM	NM	NM	NM	0	NM	NM	Inaccessible due to plowed pile of hard snow/ice
	-	MW-57-3	NM	NM	NM	NM	0	NM	NM	Inaccessible due to plowed pile of hard snow/ice
	12/17/2019	MW-57-6	NP	9.32	NP	21.20	0	No	No	
	12/17/2019	MW-57-7	NP	9.75	NP	21.00	0	No	No	
	12/17/2019	MW-57-8	NP	8.95	NP	21.34	0	No	No	
City Water Main	-	R-6	NM	NM	NM	NM	0	NM	NM	Inaccessible due to snow/ice

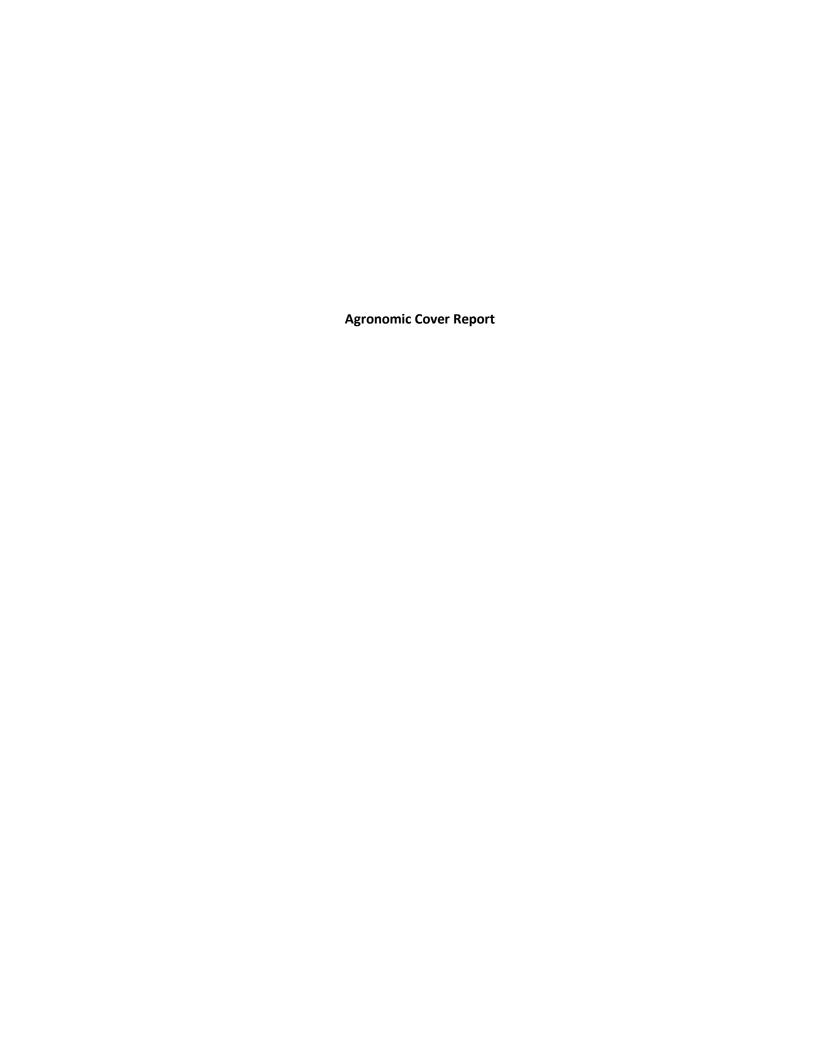
IRM/Site Location	Date	Well Identification	Depth to Product (ft bmp)	Depth to Groundwater (ft bmp)	Product Thickness (ft)	Depth to Bottom (ft bmp)	Amount of LNAPL Removed (ounces)	Odor	Sheen	Comments
273 West	12/18/2019	DM-407F	NP	12.00	NP	13.44	0	No	No	
	12/18/2019	DM-407CF	NP	12.66	NP	41.90	0	No	No	
	-	DM-407FP	NM	NM	NM	NM	0	NM	NM	Inaccessible; submerged under a large puddle of water
	-	P-BK-5	NM	NM	NM	NM	0	NM	NM	Inaccessible; submerged under a large puddle of water
	12/18/2019	P-BK-7	**	9.78	NP	16.90	<1	Yes	Yes	
	12/18/2019	P-BK-15	**	7.15	NP	15.95	0	Yes	Yes	
	12/18/2019	P-BK-16	**	10.04	NP	19.10	0	Yes	Yes	
Bldg 113 North	12/17/2019	P-PK-5	NP	13.74	NP	20.24	0	No	No	
Former IMPS	12/18/2019	IMPS-1	NP	8.91	NP	16.32	0	Yes	Yes	
	12/18/2019	IMPS-9	NP	9.05	NP	17.16	0	Yes	Yes	
	-	IMPS-11	NM	NM	NM	NM	0	NM	NM	
	12/18/2019	IMPS-14	NP	8.21	NP	17.20	0	Yes	Yes	
	12/18/2019	IMPS-15	9.9	13.15	3.25	NM	228	Yes	Product	

IRM/Site Location	Date	Well Identification	Depth to Product (ft bmp)	Depth to Groundwater (ft bmp)	Product Thickness (ft)	Depth to Bottom (ft bmp)	Amount of LNAPL Removed (ounces)	Odor	Sheen	Comments
East Landfill	12/17/2019	PZ-04	NP	7.34	NP	NM	0	Yes	Yes	
	12/17/2019	P-10R	NP	8.41	NP	15.00	0	No	No	
	12/17/2019	P-41R	NP	3.59	NP	17.50	0	No	No	

Notes:

- NM Not measured.
- NP No product detected or measured by interface probe.
- ** Interface probe did not indicate presence of measurable product, but smeared product visable either on probe, passive skimmer or as globules in the groundwater.

 Passive skimmer installed in this well.



Intended for

General Electric Company

Document type

Report

December 2019

AGRONOMIC COVER OPERATIONS, MONITORING AND MAINTENANCE **2019 ANNUAL REPORT**



AGRONOMIC COVER OPERATIONS, MONITORING AND MAINTENANCE 2019 ANNUAL REPORT

Project name Agronomic Cover Operations, Monitoring, and Maintenance

Project no. 71538

Recipient General Electric Company

Document type **Report** Version **1.0**

Date December 03, 2019
Prepared by Daniel M. Rockefeller

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CONTENTS

1.	Introduction	4
2.	Agronomic Cover Installation History	5
2.1	Historic Agronomic Cover Areas	5
2.1.1	Pilot-scale Field Testing	5
2.1.2	Interim Agronomic Cover Program	6
2.1.3	Full-scale Agronomic Cover Program	6
2.2	FRD Agronomic Cover Installation	7
3.	Agronomic Cover Monitoring Activities	9
3.1	Aerial Photography Monitoring	9
3.2	Targeted Field Inspection	10
3.3	Qualitative Vegetation Inspection	10
3.4	Stream Bank Monitoring	11
4.	Agronomic Cover Monitoring Evaluation	12
4.1	Aerial Photography Monitoring – Targeted Field Inspection	12
4.2	Qualitative Vegetation Assessment	12
4.3	Stream Bank Integrity	13
5.	Maintenance and Adaptive Measures	14
5.1	Maintenance	14
5.1.1	Mechanical Raking	14
5.1.2	Seeding	14
5.2	Proposed Adaptive Measures	15
Referer	nces	16

LIST OF TABLES (IN TEXT)

- Table 1. Pilot-Scale Field Testing Areas
- Table 2. Interim Agronomic Cover Program Areas
- Table 3. Full-Scale Cover Program Areas
- Table 4. FRD Agronomic Cover Areas
- Table 5. Seed Application
- Table 6. Proposed Adaptive Measures

LIST OF TABLES (END OF REPORT)

- Table 7. Transect Start Coordinates and Bearings
- Table 8. Former East Landfill Vegetative Cover Summary
- Table 9. Former West Landfill Vegetative Cover Summary

LIST OF FIGURES

- Figure 1. Historic Agronomic Cover Photograph Monitoring Locations
- Figure 2. Historic Agronomic Cover Areas and Photograph Monitoring Locations

LIST OF APPENDICES

- Appendix 1. Photograph Log Aerial Photography Monitoring
- Appendix 2. Photograph Log Historic Agronomic Cover
- Appendix 3. Photograph Log FRD Agronomic Cover
- Appendix 4. Photograph Log 2019 Corrective Actions
- Appendix 5. Field Data Forms Historic Agronomic Cover
- Appendix 6. Field Data Forms FRD Agronomic Cover
- Appendix 7. Corrective Actions Seed Mix

LIST OF ACRONYMS

<u>Acronym</u> <u>Definition</u>

FRD Final Remedial Design
GE General Electric Company

NYSDEC New York State Department of Environmental Conservation

OM&M Operations Monitoring and Maintenance

PCB Polychlorinated biphenyl UAV Unmanned Aerial Vehicle

1. INTRODUCTION

This Annual Report presents the 2019 (Year 4) Agronomic Cover System Operations, Monitoring and Maintenance inspection summary for remediated landfill areas at the General Electric Company (GE) Main Plant facility in Schenectady, New York (Site). This report has been prepared in accordance with the Site's approved Final Remedial Design (FRD; CB&I 2014) and Operations, Monitoring and Maintenance Plan (OM&M Plan; CB&I 2015) for the remedy selected by the New York State Department of **Environmental Conservation (NYSDEC)** in its March 2005 Record of Decision for the Site.



1. Agronomic cover featuring native wildflowers at the west end of the Site

A brief history of Agronomic Cover System installation is provided in **Section 2**. Agronomic Cover System monitoring activities include aerial photography monitoring, targeted field inspections, a site-wide vegetative cover assessment, and a stream bank armoring inspection. These activities are discussed in **Sections 3 and 4**. Proposed maintenance needs and adaptive measures resulting from agronomic cover system monitoring observations are discussed in **Section 5**.

2. AGRONOMIC COVER INSTALLATION HISTORY

An agronomic cover is an integrated soil-plant system that features a thick soil profile and abundant vegetation that limits surface percolation of precipitation through the process of evapotranspiration; that is, evaporative losses from the soil surface, and transpiration by vegetation, thus reducing contact with subsurface materials.

The agronomic cover installed on the former East and West Landfills was designed to be a self-sustaining remedial system that provides an adequate growth medium for vegetation including grasses, forbs, shrubs, and trees, reduces leachate generation, and minimizes erosion, while enhancing wildlife habitat. A summary of the Agronomic Cover System installation activities is presented below. Additional details are described in the *Agronomic Cover Certification Report:* 2007-2008 (Natresco & Associates, Ltd. 2009). Agronomic cover installed as part of the Pilotscale field testing, Interim Agronomic Cover Program, and Full-scale Agronomic Cover Program phases are referred to as "Historic Agronomic Cover." Agronomic cover installed after approval of the FRD are referred to as "FRD Agronomic Cover."

2.1 Historic Agronomic Cover Areas

The Historic Agronomic Cover areas, detailed in the following subsections, were installed in 3 phases between 1999 and 2008 as part of the NYSDEC-selected Site-wide closure remedy.

2.1.1 Pilot-scale Field Testing

Pilot-scale field testing was performed from 1999 through 2001 to determine which vegetative species were most suitable for use in the specific soil conditions present at the former landfills. This research also provided insight into rooting habit, root depth proliferation, and the extent to which organic amendments would be necessary (Natresco & Associates, Ltd. 2009). Pilot-scale field testing was conducted in the areas listed in **Table 1**.

Table 1. Pilot-Scale Field Testing Areas

Area	Description	Year Installed				
East Landfill						
EL-1	Hybrids, 10-inch cuttings in sandy soils	1999				
EL-2	Hybrids and inter-plantings of locusts	1999				
EL-3	Varying depth and intensity of plantings and OM additions	1999				
EL-4	Deep planting – 12 to 15 feet	2000				
EL-5	Mixed hybrids. Willow hybrid "SA-2" trials	2000				
EL-6	Hybrids in an unvegetated area	2001				
West Landfill	West Landfill					
WL-1	Organic amendments	1999				
WL-2	Expansion of native tree stand	1999				
WL-3						
WL-4						
WL-5	Mixed riparian buffer zone planting	2000-2001				
WL-6	winked riparian burier zone planting	2000-2001				
WL-7						
WL-8						

2.1.2 Interim Agronomic Cover Program

The results of the pilot-scale testing (**Section 2.1.1**) were used to expand the Agronomic Cover System installation program to include a larger portion of the former landfills. The interim Program was conducted between 2002 and 2006 at the locations listed in **Table 2**. As part of this program, additional experimentation with planting densities and plant mixtures was conducted. An important component of this phase was the calculation of a leaf area index, or the measure of leaf surface area relative to the underlying ground surface area. Leaf area index provides an approximation of the transpiration capacity of vegetation (Bonan 2008).

Table 2. Interim Agronomic Cover Program Areas

Area	Description	Year Installed
East Landfill		
EL-7A		
EL-7B	Reduce infiltration above "Seeps 1 – 4," density experiments	2002 - 2003
EL-8		
EL-9	Target subsurface flows above "Seep 6"	2002
EL-10	Restoration – poor cover on "wood waste cells"	2003 – 2004
EL-11		
EL-12	Poor cover on "waste areas"	2005
EL-13		
EL-14A		
EL-14B	Agronomic cover installation	2005
EL-16		
EL-17	Agronomic cover installation	2006
West Landfill		
WL-9	Soil depth experiments	2002
WL-10	Soil depth experiments	2002
WL-11A	Green winter buffer plantings	2003 - 2008
WL-11B	Green writer burier plantings	2003 - 2000
WL-12	Phytotoxicity cover testing	2004
WL-13	Thytotoxicity cover testing	2004
WL-14		
WL-14B	Thin cover, conifer screening	2004
WL-14C		
WL-15C	Agronomic cover installation	2004 - 2006
WL-15D	Agronomic cover installation	2004 - 2006
WL-16	Agronomic cover installation	2005 - 2006
WL-17	Agronomic cover installation	2003 - 2006

2.1.3 Full-scale Agronomic Cover Program

The full-scale Agronomic Cover System installation began in late 2006 and continued through 2008 (Natresco & Associates, Ltd. 2009). The full-scale program addressed areas with obvious

phytotoxic soil conditions, areas of thin soil cover, and areas where surface soil concentrations of polychlorinated biphenyls (PCBs) were greater than 1 milligram per kilogram (mg/kg), but less than 10 mg/kg, including the areas listed in **Table 3**.

Table 3. Full-Scale Cover Program Areas

Area	Description	Year Installed					
East Landfill							
EL-15	Agronomic cover installation	2008					
EL-18A/B	Agronomic cover installation	2003 & 2007					
EL-19	Agronomic cover installation	2006					
EL-25	Agronomic cover installation	2007					
EL-26	Agronomic cover installation	2007					
West Landfill							
WL-15C WL-15D	Agronomic cover installation	2006 - 2008					
WL-18	Agronomic cover installation	2006 – 2008					
WL-19	Agronomic cover installation	2006					
WL-20	Agronomic cover installation	2008					
WL-21	Agronomic cover installation	2007 – 2008					
WL-22	Agronomic cover installation	2008					

2.2 FRD Agronomic Cover Installation

Sixteen additional agronomic cover areas were installed in 2017 to supplement previously installed Historic Agronomic Cover, or other design components (e.g. Seep Collection and Treatment System), or where surface soil PCB concentrations were detected at levels greater than 1 mg/kg (Natresco & Associates, Ltd. 2009). FRD Agronomic Cover areas are listed in **Table 4**.

Table 4. FRD Agronomic Cover Areas

Area	Description	Year Installed
East Landfill		
EL-S8	Agronomic cover installation	2017
EL-10A	Agronomic cover installation	2017
EL-15A	Agronomic cover installation	2017
EL-18B	Agronomic cover installation	2007
EL-19A	Agronomic cover installation	2007
EL-20 (west)	Agronomic cover installation	2017
EL-20 (east)	Agronomic cover installation	2017
EL-21 (west)	Agronomic cover installation	2017
EL-21 (east)	Agronomic cover installation	2017
EL-22A	Agronomic cover installation	2017

Area	Description	Year Installed		
EL-22B	Agronomic cover installation	2017		
EL-22C	Agronomic cover installation	2017		
EL-23	Agronomic cover installation	2017		
West Landfill				
WL-20A	Agronomic cover installation	2017		
WL-22A	Agronomic cover installation	2017		
WL-23	Agronomic cover installation	2017		

3. AGRONOMIC COVER MONITORING ACTIVITIES

Vegetative cover established as part of the agronomic cover system was evaluated using a combination of aerial photography and field-based qualitative assessment methods in 2019. This monitoring approach differs from that used during prior monitoring efforts as discussed in the *Agronomic Cover Operations, Monitoring and Maintenance 2018 Annual Report* (OBG, 2018). In addition to vegetation monitoring, four armored seeps located along the east bank of the Poentic Kill were visually inspected for signs of damage or maintenance needs.

3.1 Aerial Photography Monitoring

Aerial photography monitoring of the Site was performed by Ramboll on August 19, 2019 using an unmanned aerial vehicle (UAV). Flight operations included securing a Federal Aviation Administration (FAA) waiver for flight within restricted Class D airspace associated with the Schenectady County Airport, performing the flight, and processing the resulting images. The crew consisted of a pilot and a visual observer (spotter) who's role was to assist during flight operations by scanning for air traffic in the vicinity of the operation.

Nadir aerial photography (photography taken with the lens pointed perpendicular to the ground) was collected using a DJI



2. Unmanned aerial vehicle (UAV) used to collect aerial photography of the Site.

Phantom 4 Pro multi-rotor UAV flown using a pre-programmed flight plan created in Pix4D, a readily accessible web application. The flight plan consisted of a flight altitude of 250 ft above ground level and parameters to avoid flying over Interstate 890, and the Norfolk Southern Railway located along the southern boundary of the Site. Imagery was collected in one continuous operation with multiple returns to the take-off/landing zone to change batteries. In addition to Nadir imagery, oblique aerial photographs were taken of the Site with particular focus on the FRD Agronomic Cover areas that received corrective actions in 2019 (Section 5). Combined flight operations were completed in approximately four hours. A photograph log of oblique imagery collected during the operation is presented in Appendix 1.

Aerial photographs were processed and mosaicked into one overall Site image with approximately 2-inch horizontal accuracy. The Site was then assessed by overlaying the resulting image with a grid containing 500 sq. ft cells. Each cell was methodically inspected to assess cover system effectiveness and to identify potential indications of exposed substrate or areas with limited vegetation establishment (*i.e.* areas not meeting the established 75% vegetative cover target). Additionally, ArcGIS image classification tools were used to identify areas that may have been missed through manual examination of the image. Locations identified using this process would be selected for a targeted field inspection (**Section 3.2**).

3.2 Targeted Field Inspection

Aerial photography was manually and digitally assessed to identify areas with limited vegetation establishment. Locations identified using this process would then be visited in the field to assess the conditions, identify a potential cause for limited vegetation coverage, and to recommend corrective actions as necessary. No locations were selected for a targeted field inspection in 2019 (Section 4.1).

3.3 Qualitative Vegetation Inspection

<u>Historic Agronomic Cover</u>

Qualitative vegetation inspections were performed for each of the Historic Agronomic Cover areas using previously established transect locations to evaluate the performance of the installed agronomic cover system. A 75% vegetative cover target was used to guide the evaluation. A total of 65 transects were monitored across the Former East Landfill (30 transects) and Former West Landfill (35 transects). The number of transects assessed within each monitoring area is listed in **Table 7**. As noted by TRC (2018), two Former East Landfill transects (EL-4-T1 and EL-14B-T1) were removed due to 2017 remedial actions associated with the approved FRD, including the installation of the FRD Agronomic Cover areas. Additionally, no transects were established within monitoring area EL-19 due to 2016 construction activities and subsequent use as a vehicular access right-of-way.

The following information was collected at each location:

- · A representative photograph
- Herbaceous species cover (%)
- Woody species cover (%)
- Total relative vegetative cover (%)
- · Dominant herbaceous species
- Dominant woody species
- Corrective action recommended (yes/no). If yes, a brief description of potential actions.
- Additional notes or location-specific observations

Field data forms for each location are presented in **Appendix 5**, and findings are discussed in **Section 4.2**. Transect starting points, which served as photograph monitoring locations, are presented in **Figure 1** and coordinates and bearings are presented in **Table 7**. A photograph log of Historic Agronomic Cover areas is presented in **Appendix 2**.

FRD Agronomic Cover

Qualitative vegetation inspections were also performed for the FRD Agronomic Cover areas, however transects had not been established, and thus were not used as the basis for the assessment. Instead, a walk-through was performed to visually assess vegetative cover within each of these areas. FRD Agronomic Cover areas were documented in the same manner as Historic Agronomic Cover (described above).

Field data forms for each location are presented in **Appendix 6**, and findings are discussed in **Section 4.2**. FRD Agronomic Cover areas and photograph locations are presented in **Figure 2**. A photograph log of FRD Agronomic Cover areas is presented in **Appendix 3**.

3.4 Stream Bank Monitoring

The 2019 monitoring included a visual inspection of stream bank armoring along the east bank of the Poentic Kill at Seeps 1, 5, 6 and 8. Seep 1 was armored with a rip-rap revetment, while Seeps 5 and 6 were armored with rip-rap and planted with live-stakes. Gabion baskets filled with rip-rap were installed at Seep 8 and supplemented with live willow stakes. An area just south of the gabion baskets was lined with an apron of riprap installed to stabilize a swale. Representative photographs of stream bank armoring are included in **Appendix 2**.

4. AGRONOMIC COVER MONITORING EVALUATION

This section presents the results of the 2019 agronomic cover inspection which was designed to evaluate the performance of vegetative cover established across the Site, and to assess the integrity of stream bank armoring along the Poentic Kill. A vegetative cover target of 75% was established to guide the evaluation of installed agronomic cover areas and to serve as the basis for potential adaptive measures.

Observations and data collected during field efforts are discussed below. Field data forms (Appendices 5 and 6) were used to record data collected during field inspections. Photographs collected during the field investigations are provided in Appendices 1, 2, and 3, and monitoring locations are presented on Figures 1 and 2.

4.1 Aerial Photography Monitoring – Targeted Field Inspection

Aerial photography was used to evaluate the performance of installed agronomic cover areas across the Site. Aerial photography served as a digital visual inspection designed to identify areas with limited vegetation establishment (*i.e.* areas not meeting the established 75% vegetative cover target). No such locations were identified within Historic Agronomic Cover areas, however, as expected, vegetative cover had not fully established within FRD Agronomic Cover areas that received corrective actions to establish vegetation in May of 2019. As these areas had not yet had a full growing season to allow for the establishment of sufficient vegetative cover, none were selected for targeted field inspections. However, all FRD Agronomic Cover areas were assessed as part of the annual cover system monitoring event.

4.2 Qualitative Vegetation Assessment

Findings of the 2019 agronomic cover inspection efforts indicated that overall vegetative establishment continues to be successful and that the agronomic cover system appears to be functioning as designed.

Historic Agronomic Cover

Vegetative cover was qualitatively assessed by surveying 65 transects located on the Historic Agronomic Cover areas. At each transect, herbaceous and woody vegetation cover was estimated, and dominant species were recorded. The vegetative communities observed consisted of native and invasive or non-native herbaceous and woody species. All transects exceeded the 75% vegetative cover target, and often achieved 100% relative vegetative cover through overlap of herbaceous and woody strata. Species assemblage and vegetative cover characteristics remain largely consistent with the findings of the 2018 monitoring event. Vegetative cover findings for the East and West Landfills are summarized in **Table 8** and **Table 9**, respectively.

Invasive species remain a ubiquitous presence throughout the Site, often acting as dominant species, and have surpassed by a wide margin the <10% invasive species cover target established in the OM&M Plan. As such, no attempt was made to quantify percent cover of invasive species. Despite their lack of desirability in most cases, invasive species at this site do contribute to the function of the agronomic cover system through soil stabilization and the uptake

and transpiration of surface water. However, invasive species do present shortcomings in terms of establishing valuable wildlife habitat and biodiversity.

FRD Agronomic Cover

FRD Agronomic Cover areas were qualitatively assessed by performing a walkthrough to determine if the 75% vegetative cover target was being met. Four cover areas (EL-22, EL-23, WL-20A, and WL-23) received corrective actions in May of 2019 to establish vegetation (see **Section 5**) and did not meet the cover target at the time of monitoring. These areas will be given another full growing season to allow vegetation to fully establish then be reevaluated for possible additional corrective actions. The vegetative community at these locations consisted of native upland species present in the seed mix (**Appendix 7**) and some invasive volunteers. All other FRD Agronomic Cover areas exceeded the 75% cover target with the exception of WL-22A which had only 50% vegetative coverage. It is recommended that this area be hand raked to remove excess mulch and expose underlying soil, then reseeded or allowed to revegetate naturally (**Section 5.2**). Vegetative cover findings for the East and West Landfills are summarized in **Table 8** and **Table 9**, respectively.

4.3 Stream Bank Integrity

Stream bank revetments at Seeps 1, 5, 6 and 8 were visually inspected for indications of sagging, sloughing, undermining, erosion, or other signs of damage. All stream bank revetments appeared in good condition with no evidence of damage. Vegetation has begun to volunteer among the rip-rap at Seep 1, and revetments at Seeps 5, 6 and 8 were intact and vegetation was fully established. Willows installed at Seep 8 are well established and continue to thrive.

Portions of the east bank associated with the seep collection system were fully vegetated and exceeded the 75% cover target.



3. Vegetation is beginning to establish at the Seep 1 revetment.

5. MAINTENANCE AND ADAPTIVE MEASURES

5.1 Maintenance

Based on the 2018 annual inspection, four agronomic cover areas (EL-22, EL-23, WL-20A, and WL-23), installed in 2017, had not developed adequate vegetative coverage to meet the established 75% cover requirement. The lack of vegetative establishment was likely the result of the application of course woody mulch rather than compost which is typically applied; the thickness to which the course woody mulch was applied; and the seed mix used (a wetland seed mix had been previously specified).

Corrective actions designed to create more favorable growing conditions for seeded species were completed between May 28 – May 30, 2019. Corrective actions consisted of mechanical raking to scarify the surface and remove excess mulch while mixing the mulch with the underlying soil/sand layer, followed by seeding of the raked areas. The proceeding sub-sections provide additional details.

5.1.1 Mechanical Raking

A 60-horsepower tractor equipped with an 8-ft landscape rake (or York rake) was used to scarify the surface, remove excess mulch, and mix the remaining mulch with the underlying soil/sand layer. In general, each agronomic cover area received two perpendicular passes with the rake to achieve the desired scarification and adequate mulch removal and mixing. Installed shrubs were avoided where possible. Areas of especially thick mulch received additional passes as necessary, and areas such as steep slopes, that could not be safely reached with the tractor were raked by hand. Photographs were taken of each cover area before and after scarification. A photograph log of completed corrective actions is presented in **Appendix 4**.

5.1.2 Seeding

After scarification, the seed mix was applied at a rate of 75lbs/acre (**Table 5**). The specified seed mix was ERNMX-181-1 Native Steep Slope Mix with Grain Oats purchased from Ernst Seeds (**Appendix 7**). Initially, the seed mix was applied using a broadcast seeder, however this method was found to be inefficient due to constant clogs in the hopper. Hand seeding became the preferred method and was performed on all four cover areas. To achieve uniformity across the entire plot, seed was cast in two directions. The seeded areas were not tracked due to concerns about excess soil compaction caused by the aggressive tire tread on the tractor.

Table 5. Seed Application

Site	Acres	Application Rate	Approximate Seed Applied (lbs)
EL-22	2.40	75lbs/acre	180
EL-23	0.42	75lbs/acre	35
WL-20A	0.32	75lbs/acre	25
WL-23	0.66	75lbs/acre	60

5.2 Proposed Adaptive Measures

The following **Table 6** presents observations recorded during the 2019 agronomic cover system monitoring effort and the associated adaptive measures proposed for 2020.

Table 6. Proposed Adaptive Measures

Observation	Adaptive Measure
Agronomic cover area WL-22A did not meet the required 75% vegetative cover target	Hand rake to remove excess mulch and expose underlying soil. Hand seed or allow to revegetate naturally.
FRD Agronomic Cover areas that received corrective actions in May of 2019 had not met the 75% vegetative cover requirement at the time of monitoring.	Allow another full growing season to allow vegetation to establish then reassess.

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- Natresco & Associates, Ltd., 2009. *Agronomic Cover Certification Report: 2007-2008.* Elizabethtown, Pennsylvania
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- TRC 2018. 2017 Agronomic Cover Operations Maintenance and Monitoring Report General Electric Company Main Plant.

TABLES

Table 7. Transect Start Coordinates and Bearings

Former East Landfill			Former West Landfill				
Transect	Latitude	Longitude	Bearing	Transect	Latitude	Longitude	Bearing
EL-1-T1	42.8038	-73.9758	264°	WL-1-T1	42.8096	-73.9757	138°
EL-2-T1	42.8037	-73.9752	246°	WL-2-T1	42.8059	-73.9786	308°
EL-3-T1	42.804	-73.9767	78°	WL-3-T1	42.8058	-73.9809	14°
EL-5-T1	42.8034	-73.9744	114°	WL-4-T1	42.8063	-73.9811	14°
EL-5-T2	42.8035	-73.9744	302°	WL-5-T1	42.807	-73.981	320°
EL-6-T1	42.8086	-73.9719	302°	WL-6-T1	42.8073	-73.9811	295°
EL-6-T2	42.8084	-73.9712	134°	WL-7-T1	42.8077	-73.9813	244°
EL-7A-T1	42.8041	-73.9764	36°	WL-8-T1	42.8058	-73.9805	286°
EL-7A-T2	42.8044	-73.9759	72°	WL-9-T1	42.8063	-73.979	302°
EL-7B-T1	42.8041	-73.9771	79°	WL-9-T2	42.8063	-73.9783	3°
EL-7B-T2	42.804	-73.9771	129°	WL-9-T3	42.806	-73.9784	280°
EL-8-T1	42.8039	-73.9764	174°	WL-10-T1	42.8055	-73.9775	354°
EL-9-T1	42.8068	-73.9751	139°	WL-10-T2	42.8059	-73.9776	22°
EL-10-T1	42.8037	-73.974	98°	WL-10-T3	42.8062	-73.9773	49°
EL-10-T2	42.804	-73.9742	302°	WL-11A-T1	42.81	-73.9762	292°
EL-11-T1	42.8078	-73.9739	302°	WL-11B-T1	42.8099	-73.9758	329°
EL-12-T1	42.8066	-73.974	12°	WL-12/13-T1	42.8077	-73.9786	78°
EL-13-T1	42.8081	-73.9732	287°	WL-12/13-T2	42.8071	-73.9786	98°
EL-13-T2	42.8078	-73.9731	92°	WL-12/13-T3	42.8074	-73.9782	84°
EL-14A-T1	42.8083	-73.9715	140°	WL-14-T1	42.8097	-73.9746	34°
EL-14B-T2	42.8076	-73.9718	34°	WL-14-T2	42.81	-73.9745	311°
EL-15-T1	42.8087	-73.9726	164°	WL-14B-T1	42.8098	-73.9748	44°
EL-16-T1	42.8053	-73.9767	94°	WL-14C-T1	42.8101	-73.975	68°
EL-17-T1	42.8048	-73.9733	47°	WL-15C-T1	42.8097	-73.9766	228°
EL-18A/B-T1	42.8045	-73.9733	276°	WL-15D-T1	42.8097	-73.9762	312°
EL-18A/B-T2	42.8046	-73.9744	294°	WL-16-T1	42.8062	-73.9794	136°
EL-25-T1	42.8063	-73.9741	288°	WL-17-T1	42.8059	-73.9795	344°
EL-26-T1	42.8046	-73.9725	216°	WL-17-T2	42.8058	-73.979	80°
EL-26-T2	42.8048	-73.9729	338°	WL-18-T1	42.8088	-73.975	236°
SEEP-8 T-1	42.809	-73.9713	154°	WL-18-T2	42.8074	-73.976	218°
				WL-18-T3	42.8055	-73.9772	232°
				WL-19A-T1	42.8082	-73.978	196°
				WL-20-T1	42.805	-73.9779	304°
				WL-21-T1	42.808	-73.9765	322°
				WL-22-T1	42.8064	-73.9795	36°
Total East Landf	ill Transects: 3	30		Total West Landi	fill Transects: 3	5	

All transects are 50 feet long.

Coordinates are provided in decimal degrees (WGS 1984)

Bearings are in reference to magnetic north. Bearings also represent direction of photograph.

Table 8. Former East Landfill Vegetative Cover Summary

Table 8. Forme	r East Landfi	II Vegetative Co	ver Summary	1		
Area	Transect	Herbaceous % Cover	Woody % Cover	Total Relative % Cover		
Historic Agronomic Cover						
EL-1	T1	60	85	100		
EL-2	T1	100	80	100		
EL-3	T1	100	10	100		
	T1	95	80	100		
EL-5	T2	70	85	100		
	T1	70	100	100		
EL-6	T2	100	40	100		
	T1	90	60	100		
EL-7A	T2	90	20	90		
	T1	100	5	100		
EL-7B	T2	85	80	100		
EL-8	T1	100	60	100		
EL-9	T1	100	5	100		
LL-7	T1					
EL-10		70 95	85 80	100		
	T2	85		95		
EL-11	T1	100	10	100		
EL-12	T1	100	5	100		
EL-13	T1	100	30	100		
	T2	100	85	100		
EL-14A	T1	90	85	100		
EL-14B	T2	100	85	100		
EL-15	T1	100	40	100		
EL-16	T1	80	70	100		
EL-17	T1	10	100	100		
EL-18A/B	T1	95	80	100		
	T2	95	80	100		
EL-25	T1	100	10	100		
EL 24	T1	100	60	100		
EL-26	T2	100	0	100		
Seep-8	T1	100	10	100		
	FR	D Agronomic Co	over			
EL-S8		100	20	100		
EL-10A		85	85	95		
EL-15A		100	0	100		
EL-18B		100	50	100		
EL-19A		100	30	100		
EL-20 (WEST)		100	20	100		
EL-20 (EAST)		100	20	100		
EL-21 (WEST)		90	50	100		
EL-21 (WLST)		100	40	100		
EL-21 (EAS1)		50	50			
				50		
EL-22A		100	20	100		
EL-22B		100	60	100		
EL-23		65	10	65		

Table 9. Former West Landfill Vegetative Cover Summary

Area	Transect	Herbaceous	Woody	Total Relative			
		% Cover	% Cover	% Cover			
Historic Agronomic Cover							
WL-1	T1	95	50	100			
WL-2	T1	100	50	100			
WL-3	T1	100	5	100			
WL-4	T1	100	80	100			
WL-5	T1	80	80	100			
WL-6	T1	95	60	100			
WL-7	T1	100	60	100			
WL-8	T1	100	30	100			
	T1	100	30	100			
WL-9	T2	100	80	100			
	Т3	100	10	100			
	T1	100	100	100			
WL-10	T2	100	40	100			
	Т3	100	20	100			
WL-11A	T1	100	30	100			
WL-11B	T1	100	80	100			
	T1	95	60	100			
WL-12/13	T2	100	80	100			
	Т3	100	5	100			
WL-14	T1	85	80	90			
VVL-14	T2	85	90	100			
WL-14B	T1	90	75	100			
WL-14C	T1	100	50	100			
WL-15C	T1	100	85	100			
WL-15D	T1	90	60	100			
WL-16	T1	80	80	80			
WL-17	T1	100	60	100			
	T2	100	0	100			
	T1	100	0	100			
WL-18	T2	100	5	100			
	Т3	100	5	100			
WL-19A	T1	85	50	100			
WL-20	T1	100	60	100			
WL-21	T1	100	30	100			
WL-22	T1	100	10	100			
FRD Agronomic Cover							
WL-20A		60	30	60			
WL-22A		50	50	50			
WL-23		50	30	50			

mboll - Agronomic Cover Operations, Monitoring and Maintenance	
	FIGURE 1

HISTORIC AGRONOMIC COVER PHOTOGRAPH MONITORING

LOCATIONS



LEGEND



Notes

- Background aerial photography collected by Ramboll on 8/19/2019
- Photo number corresponds to number in Historic Agronomic Cover Photograph Log

0	125	250		500
1	1	1	1	I Feet

AGRONOMIC COVER OPERATIONS, MONITORING, AND MAINTENANCE 2019 ANNUAL REPORT HISTORIC AGRONOMIC COVER PHOTOGRAPH MONITORING LOCATIONS

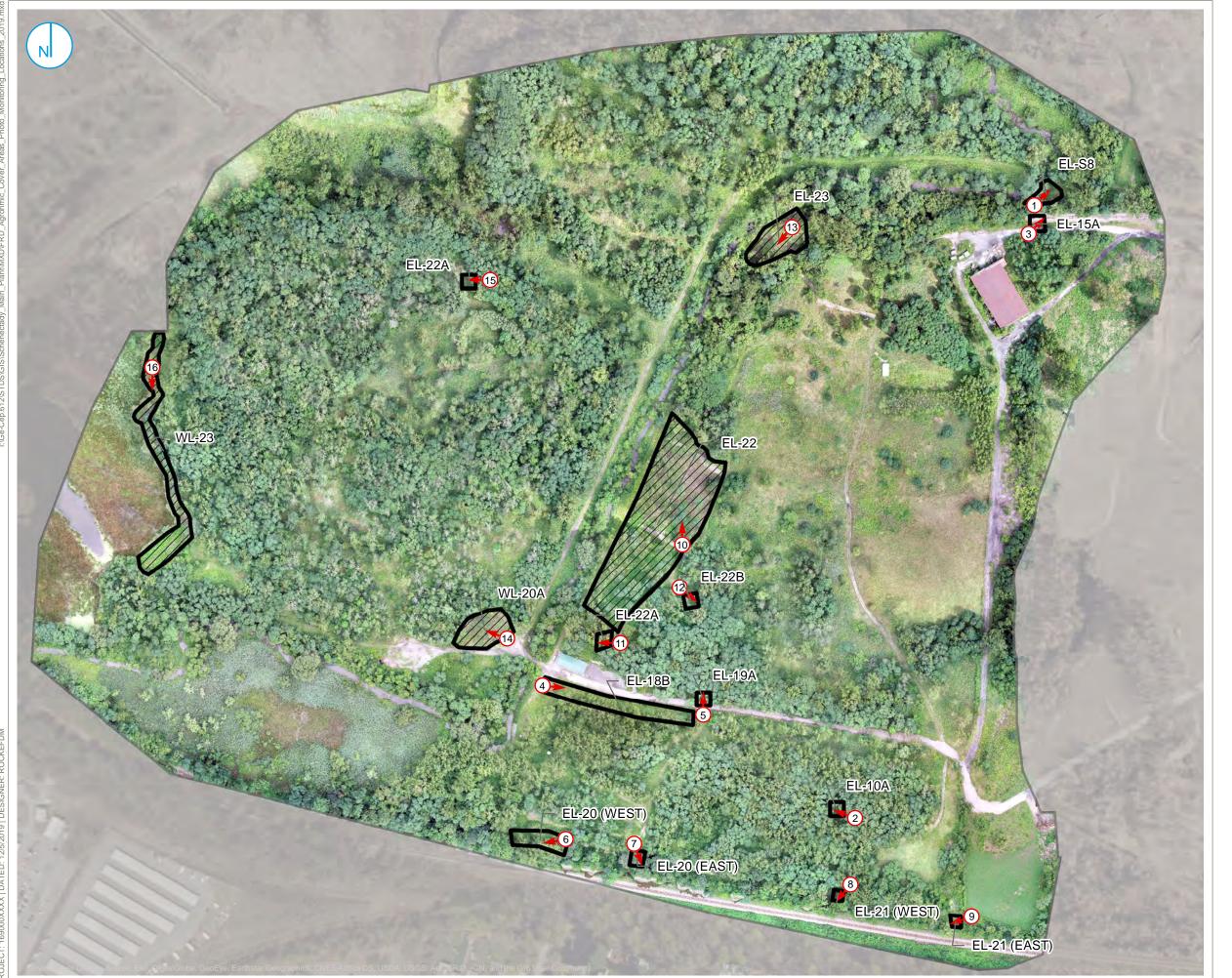
General Electric Company, Main Plant 1 River Road Schenectady, NY 12345

FIGURE 01

RAMBOLL US CORPORATION
A RAMBOLL COMPANY



Ramboll - Agronomic Cover Operations, Monitoring and Maintenance	
FIGURE 2	
FIGURE 2	
FRD AGRONOMIC COVER AREAS AND PHOTOGRAPH MONITORING	
LOCATIONS	



LEGEND



PHOTOGRAPH LOCATION

FRD AGRONOMIC COVER AREA

NO CORRECTIVE ACTIONS

CORRECTIVE ACTIONS OCCURRED IN 2019

Notes

- Background aerial photography collected by Ramboll on 8/19/2019
- Photo number corresponds to number in FRD Agronomic Cover Photograph Log

0 125 250 500 I I I I I Feet

AGRONOMIC COVER
OPERATIONS, MONITORING, AND
MAINTENANCE
2019 ANNUAL REPORT
FRD AGRONOMIC COVER AREAS AND
PHOTOGRAPH MONITORING LOCATIONS

General Electric Company, Main Plant 1 River Road Schenectady, NY 12345

FIGURE 02

RAMBOLL US CORPORATION
A RAMBOLL COMPANY



Ramboll - Agronomic Cover Operations, Monitoring and Maintenance
APPENDIX 1
PHOTOGRAPH LOG – AERIAL PHOTOGRAPHY MONITORING



Photograph Log - Aerial Photography Monitoring

Client Name:Site Location:Project No.General ElectricGeneral Electric Main Plant, Schenectady, New York612 | 71538

Photo No. Date:

1 8/19/19

Description

DJI Phantom 4 Pro multirotor UAV at takeoff/landing zone.



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No. Date:

2 8/19/19

Description

DJI Phantom 4 Pro multirotor UAV taking off.



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

Date:

3 8/19/19

Description

Wetland and agronomic cover area WL-23 at western boundary of the Site. Corrective actions to establish vegetation at WL-23 occurred between May 28 and May 30, 2019.



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No. Date:

4

8/19/19

Description

Wetland and agronomic cover established on the Former West Landfill. General Electric's Main Plant is visible in the distance.



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

Date:

5

8/19/19

Description

Agronomic cover area WL-20A. Corrective actions to establish vegetation at WL-20A occurred between May 28 and May 30, 2019.



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No. Date:

6

8/19/19

Description

Agronomic cover established on the Former East Landfill. The Poentic Kill is visible toward the left-center of the photograph. A portion of the Main Plant is visible in the distance.



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

Date:

7

8/19/19

Description

Agronomic cover area EL-22. Corrective actions to establish vegetation at EL-22 occurred between May 28 and May 30, 2019.



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

Date:

8

8/19/19

Description

Seep Collection System to the east of the Poentic Kill. Areas disturbed as part of collection system construction are fully vegetated.



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

Date:

9

8/19/19

Description

Agronomic cover area EL-23. Corrective actions to establish vegetation at EL-23 occurred between May 28 and May 30, 2019.



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

10

8/19/19

Date:

Description

Agronomic cover established on the Former East Landfill.



nboll - Agronomic Cover Operations, Monitoring and Maintenance	
APPENDI	X 2
PHOTOGRAPH LOG – HISTORIC AGRONOMIC COV	/ER



Photograph Log – Historic Agronomic Cover Plots

Client Name:Site Location:Project No.General ElectricGeneral Electric Main Plant, Schenectady, New York612 | 71538

Photo No. Date:

1 9/20/19

Description

EL-1-T1



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No. Date:

2

9/20/19

Description

EL-2-T1





General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

3

9/20/19

Date:

Description

EL-3-T1



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No. Date:

4

9/20/19

Description

EL-5-T1





General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No. 612 | 71538

Photo No.

Date:

5

9/20/19

Description

EL-5-T2



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

Date:

6

9/20/19

Description

EL-6-T1





General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

7

9/20/19

Date:

Description

EL-6-T2



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

Date:

8

9/20/19

Description

EL-7A-T1





General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

9

9/20/19

Date:

Description

EL-7A-T2



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

10

9/20/19

Date:

Description

EL-7B-T1





General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

11

9/20/19

Date:

Description

EL-7B-T2



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

12

9/20/19

Date:

Description

EL-8-T1





Site Location:

Project No.

General Electric

General Electric Main Plant, Schenectady, New York

612 | 71538

Photo No.

Date:

13

9/20/19

Description

EL-9-T1



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

14 9/20/19

Date:

Description

EL-10-T1





General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

15

9/20/19

Date:

Description

EL-10-T2



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

Date:

16

9/20/19

Description

EL-11-T1





Client Name:Site Location:Project No.General ElectricGeneral Electric Main Plant, Schenectady, New York612 | 71538

 Photo No.
 Date:

 17
 9/20/19

DescriptionEL-12-T1



Client Name:Site Location:Project No.General ElectricGeneral Electric Main Plant, Schenectady, New York612 | 71538

Photo No. Date:
18 9/20/19

Description

EL-13-T1





Project No. **Client Name:** Site Location: General Electric Main Plant, Schenectady, New York 612 | 71538 General Electric Photo No. Date: 9/20/19 19 Description

EL-13-T2

Client Name: Site Location: Project No. General Electric 612 | 71538

General Electric Main Plant, Schenectady, New York Photo No. Date: 9/20/19 20

Description

EL-14A-T1



General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

21

9/20/19

Date:

Description

EL-14B-T2



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

22

9/20/19

Date:

Description

EL-15-T1





me: Site Location:

Project No.

General Electric

General Electric Main Plant, Schenectady, New York

612 | 71538

Photo No.

Date:

23

9/20/19

Description

EL-16-T1



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

Date:

24

9/20/19

Description

EL-17-T1





General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

25

, , , , , ,

9/20/19

Date:

Description

EL-18A/B-T1



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

26

9/20/19

Date:

Description

EL-18A/B-T2





General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No. 612 | 71538

Photo No.

27

9/20/19

Date:

Description

EL-25-T1



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

28

9/20/19

Date:

Description

EL-26-T1





General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

29

9/20/19

Date:

Description

EL-26-T2



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

30

9/20/19

Date:

Description

Seep-8-T1





General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

31

9/20/19

Date:

Description

WL-1-T1



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

32

9/20/19

Date:

Description

WL-2-T1





General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No. 612 | 71538

Photo No.

33

9/20/19

Date:

Description

WL-3-T1



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

34

9/20/19

Date:

Description

WL-4-T1





General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

35

9/20/19

Date:

Description

WL-5-T1



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

36

9/20/19

Date:

Description

WL-6-T1





General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

37

9/20/19

Date:

Description

WL-7-T1



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

38

9/20/19

Date:

Description

WL-8-T1





General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

39

9/20/19

Date:

Description

WL-9-T1



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

40

9/20/19

Date:

Description

WL-9-T2





General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

41

9/20/19

Date:

Description

WL-9-T3



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

Photo No.

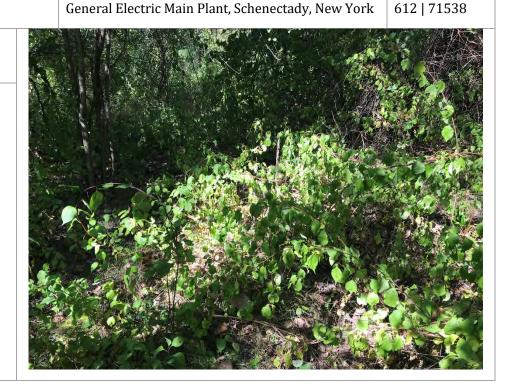
42

9/20/19

Date:

Description

WL-10-T1



RAMBOLL

Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

43

9/20/19

Date:

Description

WL-10-T2



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No. Date:

44

9/20/19

Description

WL-10-T3





Site Location:

Project No.

General Electric

General Electric Main Plant, Schenectady, New York

612 | 71538

Photo No.

Date:

45

9/20/19

Description

WL-11A-T1



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

46

9/20/19

Date:

Description

WL-11B-T1





General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

Date:

47

9/20/19

Description

WL-12/13-T1



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

Date:

48

9/20/19

Description

WL-12/13-T2





General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No. 612 | 71538

Photo No.

49

9/20/19

Date:

Description

WL-12/13-T3



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

50

9/20/19

Date:

Description

WL-14-T1





General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No. 612 | 71538

Photo No.

51

9/20/19

Date:

Description

WL-14-T2



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

52

9/20/19

Date:

Description

WL-14B-T1





Client Name:Site Location:Project No.General ElectricGeneral Electric Main Plant, Schenectady, New York612 | 71538

Photo No. Date:
53 9/20/19

Description

WL-14C-T1



Client Name:Site Location:Project No.General ElectricGeneral Electric Main Plant, Schenectady, New York612 | 71538

Photo No. Date:
54 9/20/19

Description

WL-15C-T1





General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

Date:

55

9/20/19

Description

WL-15D-T1



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

56

9/20/19

Date:

Description

WL-16-T1





General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

57

9/20/19

Date:

Description

WL-17-T1



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

Photo No.

Date:

58

9/20/19

Description

WL-17-T2





General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

) I IX

Photo No.

59

9/20/19

Date:

Description

WL-18-T1



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

60

9/20/19

Date:

Description

WL-18-T2





General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No. 612 | 71538

Photo No.

61

9/20/19

Date:

Description

WL-18-T3



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

62

9/20/19

Date:

Description

WL-19A-T1





General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

63

9/20/19

Date:

Description

WL-20-T1



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

64

9/20/19

Date:

Description

WL-21-T1





General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

Date:

65

9/20/19

Description

WL-22-T1



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

Date:

66

9/20/19

Description

Seep 1 vegetated rip-rap revetment (west).





General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

Date:

67

9/20/19

Description

Seep 1 vegetated rip-rap revetment (north).



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

No. Date:

68

9/20/19

Description

Seep 5 vegetated rip-rap revetment.





General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

Date:

69

9/20/19

Description

Seep 6 vegetated rip-rap revetment.



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

Date:

70

9/20/19

Description

Seep 8 vegetated rip-rap revetment.



Ramboll - Agronomic Cover Operations, Monitoring and Maintenance	
	APPENDIX 3

PHOTOGRAPH LOG – FRD AGRONOMIC COVER



Photograph Log - FRD Agronomic Cover Plots

Client Name:Site Location:Project No.General ElectricGeneral Electric Main Plant, Schenectady, New York612 | 71538

Photo No. Date:

1 9/20/19

Description

EL-S8



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

2 9/20/19

Date:

Description

Photo No.

EL-10A





General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

Date:

3

9/20/19

Description

EL-15A



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

Date:

9/20/19

Description

EL-18B





General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No. 612 | 71538

Photo No.

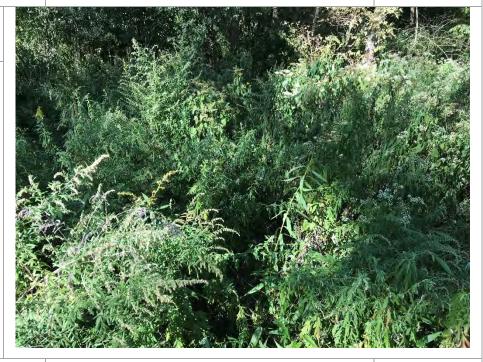
Date:

5

9/20/19

Description

EL-19A



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

Date:

6

9/20/19

Description

EL-20 (west)





General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

7

9/20/19

Date:

Description

EL-20 (east)



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

8

9/20/19

Date:

Description

EL-21 (west)





General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

9

9/20/19

Date:

Description

EL-21 (east)



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

10

9/20/19

Date:

Description

EL-22

Corrective actions to establish vegetation occurred between May 28 and May 30, 2019.





General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

. Date:

11

9/20/19

Description

EL-22A



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

12

9/20/19

Date:

Description

EL-22B



RAMBOLL

Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

Date:

13

9/20/19

Description

EL-23

Corrective actions to establish vegetation occurred between May 28 and May 30, 2019.



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

Date:

14

9/20/19

Description

WL-20A

Corrective actions to establish vegetation occurred between May 28 and May 30, 2019.





General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

15

9/20/19

Date:

Description

WL-22A



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

Photo No.

16

9/20/19

Date:

Description

WL-23

Corrective actions to establish vegetation occurred between May 28 and May 30, 2019.



Ramboll - Agronomic Cover Operations, Monitoring a	and Maintenance
	APPENDIX 4
	PHOTOGRAPH LOG – 2019 CORRECTIVE ACTIONS



Photograph Log - 2019 Corrective Actions

Client Name:

Site Location:

Project No.

General Electric

General Electric Main Plant, Schenectady, New York

612 | 71538

Photo No.

Date:

1

5/28/19

Description

EL-22 prior to scarification. Poor vegetative establishment.



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

Date:

2

5/28/19

Description

EL-22 after scarification.





General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

Date:

3

5/28/19

Description

EL-23 prior to scarification. Poor vegetative establishment.



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No. Date:

10001101

4

5/28/19

Description

EL-23 after scarification.





General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

Date:

5

5/28/19

Description

WL-20A prior to scarification. Poor vegetative establishment.



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

Date:

6

5/28/19

Description

WL-20A after scarification.





Client Name: Site Location:

General Electric Main Plant, Schenectady, New York

Project No. 612 | 71538

 Photo No.
 Date:

 7
 5/28/19

Description

WL-23 prior to scarification. Poor vegetative establishment.



Client Name:Site Location:Project No.General ElectricGeneral Electric Main Plant, Schenectady, New York612 | 71538

 Photo No.
 Date:

 8
 5/28/19

Description

WL-23 after scarification. Slope adjacent to wetland was raked by hand.





Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

Date:

9

5/28/19

Description

60-horsepower tractor equipped with 8-ft landscape rake.



Client Name:

General Electric

Site Location:

General Electric Main Plant, Schenectady, New York

Project No.

612 | 71538

Photo No.

Date:

10

5/28/19

Description

Tractor with rake in action.



Ramboll - Agronomic Cover Operations, Monitoring a	nd Maintenance
	APPENDIX 5
FI	ELD DATA FORMS – HISTORIC AGRONOMIC COVER



DATE:	September 20, 2019
INSPECTOR:	D. Rockefeller
PROJECT AREA:	Historic Agronomic Cover Areas

EL-1-T1		
% VEGETATION COVER	Herbaceous <u>60</u> % Woody <u>85</u> % Total Relative <u>100</u> %	
DOMINANT HERBACEOUS SPECIES	White snakeroot (Ageratina altissima)	
DOMINARY HERBACEOUS SPECIES	Virginia creeper (Parthenocissus quinquefolia)	
	Mugwort (Artemesia vulgaris)	
	Oriental bittersweet (Celastrus orbiculatus)	
DOMINANT WOODY SPECIES	Black walnut (Juglans nigra)	
DOMINANT WOODT SPECIES	Green ash (Fraxinus pensylvanica)	
	Morrow's honeysuckle (Lonicera morrowii)	
CORRECTIVE ACTIONS	Recommended: Yes No	
	Description:	
ADDITIONAL NOTES		
EL-2-T1		
% VEGETATION COVER	Herbaceous 100 % Woody 80 % Total Relative 100 %	
DOMINANT HERBACEOUS SPECIES	White snakeroot (Ageratina altissima)	
	Oriental bittersweet (<i>Celastrus orbiculatus</i>)	
	Clearweed (Pilea pumila)	
	Garlic mustard (Alliaria petiolata)	
DOMINANT WOODY SPECIES	Black walnut (Juglans nigra)	
DOMINANT WOOD! SI ECIES	Hybrid poplar (<i>Populus x</i>)	
	Common buckthorn (Rhamnus cathartica)	
CORRECTIVE ACTIONS	Recommended: Yes No	
	Description:	
ADDITIONAL NOTES		



DATE:	September 20, 2019
INSPECTOR:	D. Rockefeller
PROJECT AREA:	Historic Agronomic Cover Areas

EL-3-T1			
% VEGETATION COVER	Herbaceous <u>100</u> % Woody <u>10</u> %	Total Relative <u>100</u> %	
DOMINANT HERBACEOUS SPECIES	Mugwort (Artemesia vulgaris)		
DOMINANT FILMBACEGOS SI ECIES	White snakeroot (Ageratina altissima)		
	Oriental bittersweet (Celastrus orbiculatus)		
	Cleavers (Galium aparine)		
DOMINANT WOODY SPECIES	Common buckthorn (Rhamnus cathartica)		
DOMINANT WOODT SPECIES	Hybrid poplar (<i>Populus x</i>)		
CORRECTIVE ACTIONS	Recommended: Yes	X No	
	Description:		
ADDITIONAL NOTES	Poplars appear in poor health – crown is diminished.		
EL E T1			
EL-5-T1			
EL-5-T1 % VEGETATION COVER	Herbaceous 95 % Woody 80 %	Total Relative <u>100</u> %	
	Clearweed (Pilea pumila)	Total Relative <u>100</u> %	
% VEGETATION COVER		Total Relative <u>100</u> %	
% VEGETATION COVER	Clearweed (Pilea pumila)	Total Relative <u>100</u> %	
% VEGETATION COVER	Clearweed (Pilea pumila) Mugwort (Artemesia vulgaris)	Total Relative 100 %	
% VEGETATION COVER DOMINANT HERBACEOUS SPECIES	Clearweed (Pilea pumila) Mugwort (Artemesia vulgaris)	Total Relative 100 %	
% VEGETATION COVER	Clearweed (Pilea pumila) Mugwort (Artemesia vulgaris) White snakeroot (Ageratina altissima)	Total Relative 100 %	
% VEGETATION COVER DOMINANT HERBACEOUS SPECIES	Clearweed (Pilea pumila) Mugwort (Artemesia vulgaris) White snakeroot (Ageratina altissima) Hybrid willow (Salix x)	Total Relative 100 %	
% VEGETATION COVER DOMINANT HERBACEOUS SPECIES	Clearweed (Pilea pumila) Mugwort (Artemesia vulgaris) White snakeroot (Ageratina altissima) Hybrid willow (Salix x) Black locust (Robinia pseudoacacia)	Total Relative 100 %	
% VEGETATION COVER DOMINANT HERBACEOUS SPECIES DOMINANT WOODY SPECIES	Clearweed (<i>Pilea pumila</i>) Mugwort (<i>Artemesia vulgaris</i>) White snakeroot (<i>Ageratina altissima</i>) Hybrid willow (<i>Salix x</i>) Black locust (<i>Robinia pseudoacacia</i>) Hybrid poplar (<i>Populus x</i>)		



DATE:	September 20, 20	19						
INSPECTOR:	D. Rockefeller							
PROJECT AREA:	Historic Agronomic Cover Areas							
PROJECT AREA:								
EL-5-T2				_				
% VEGETATION CO	OVER	Herbaceous <u>70</u> %	Woody <u>85</u>	%	Total R	elative_	100	%
DOMINANT LIEBD	ACTOUR EDECITE	White snakeroot (Ageratin	a altissima)					
DOMINANT HERB	ACEOUS SPECIES	Mugwort (Artemesia vulga	ris)					
		Oriental bittersweet (Celas	strus orbiculatus)					
DOMINANT WOO	DV SDECIES	Hybrid willow (Salix x)						
DOMINANT WOO	DT SPECIES	Black locust (Robinia pseud	doacacia)					
		Hybrid poplar (<i>Populus x</i>)						
CORRECTIVE ACTI	ONS	Recommended:	Yes	_	X N	О		
		Description:						
ADDITIONAL NOT	ES							
EL-6-T1								
% VEGETATION CO	OVER	Herbaceous <u>70</u> %	Woody <u>100</u>	_ %	Total R	elative_	100_	%
DOMINANT HERBACEOUS SPECIES		White snakeroot (Ageratin	a altissima)	<u>-</u>				
		Smooth goldenrod (Solidag	go gigantea)					
		Oriental bittersweet (Celastrus orbiculatus)						
DOMINANT WOO	DY SPECIES	Morrow's honeysuckle (<i>Lo</i>						
		Staghorn sumac (Rhus typi	na)					
			_	_				
CORRECTIVE ACTI	ONS	Recommended:	Yes		<u>X</u> N	0		
		Description:	_					



DATE:	September 20, 2019
INSPECTOR:	D. Rockefeller
PROJECT AREA:	Historic Agronomic Cover Areas

EL-6-12		
% VEGETATION COVER	Herbaceous 100 % Woody 40 % Tot	al Relative <u>100</u> %
DOMINANT HERBACEOUS SPECIES	Mugwort (Artemesia vulgaris)	
DOMINARY FILEDACEOUS SPECIES	Red fescue (Festuca rubra)	
	Canada goldenrod (Solidago canadensis)	
DOMINANT WOODY SPECIES	Hybrid willow (Salix x)	
DOMINANT WOODT SPECIES	Hybrid poplar (<i>Populus x</i>)	
CORRECTIVE ACTIONS	Recommended: Yes X	_ No
	Description:	
ADDITIONAL NOTES		
	•	
EL-7A-T1		
EL-7A-T1 % VEGETATION COVER	Herbaceous 90 % Woody 60 % Tot	al Relative <u>100</u> %
% VEGETATION COVER	Herbaceous 90 % Woody 60 % Tot Mugwort (Artemesia vulgaris)	al Relative <u>100</u> %
		al Relative <u>100</u> %
% VEGETATION COVER	Mugwort (Artemesia vulgaris)	al Relative <u>100</u> %
% VEGETATION COVER	Mugwort (Artemesia vulgaris) Oriental bittersweet (Celastrus orbiculatus)	al Relative <u>100</u> %
% VEGETATION COVER DOMINANT HERBACEOUS SPECIES	Mugwort (Artemesia vulgaris) Oriental bittersweet (Celastrus orbiculatus) Smooth goldenrod (Solidago gigantea)	al Relative <u>100</u> %
% VEGETATION COVER	Mugwort (Artemesia vulgaris) Oriental bittersweet (Celastrus orbiculatus) Smooth goldenrod (Solidago gigantea) Virginia creeper (Parthenocissus quinquefolia)	al Relative 100 %
% VEGETATION COVER DOMINANT HERBACEOUS SPECIES	Mugwort (Artemesia vulgaris) Oriental bittersweet (Celastrus orbiculatus) Smooth goldenrod (Solidago gigantea) Virginia creeper (Parthenocissus quinquefolia)	ral Relative 100 %
% VEGETATION COVER DOMINANT HERBACEOUS SPECIES	Mugwort (Artemesia vulgaris) Oriental bittersweet (Celastrus orbiculatus) Smooth goldenrod (Solidago gigantea) Virginia creeper (Parthenocissus quinquefolia)	
% VEGETATION COVER DOMINANT HERBACEOUS SPECIES DOMINANT WOODY SPECIES	Mugwort (Artemesia vulgaris) Oriental bittersweet (Celastrus orbiculatus) Smooth goldenrod (Solidago gigantea) Virginia creeper (Parthenocissus quinquefolia) Hybrid poplar (Populus x)	
% VEGETATION COVER DOMINANT HERBACEOUS SPECIES DOMINANT WOODY SPECIES	Mugwort (Artemesia vulgaris) Oriental bittersweet (Celastrus orbiculatus) Smooth goldenrod (Solidago gigantea) Virginia creeper (Parthenocissus quinquefolia) Hybrid poplar (Populus x) Recommended: YesX	



DATE:

AGRONOMIC COVER MONITORING DATA FORM

September 20, 2019

INSPECTOR:	D. Rockefeller				
PROJECT AREA:	Historic Agronomic Cover Areas				
EL-7A-T2					
% VEGETATION CO	OVER	Herbaceous 90 % Woody 2	<u>20</u> %	Total Relative <u>90</u>) %
DOMINANT HERB	ACEOUS SDECIES	Tall goldenrod (Solidago altissima)			
DOMINANT HERD	ACLOUS SI ECIES	White snakeroot (Ageratina altissima)			
		Common reed (Phragmites australis)			
		Cleavers (Galium aparine)			
DOMINANT WOO	DV SDECIES	Black locust (Robinia pseudoacacia)			
DOMINANT WOODY SPECIES		Hybrid poplar (<i>Populus x</i>)			
CORRECTIVE ACTION	ONS	Recommended: Yes	_	X No	
		Description:			
ADDITIONAL NOT	FS				
EL-7B-T1	_			_	_
EL-/P-II					
% VEGETATION CO	OVER	Herbaceous 100 % Woody_	<u>5</u> %	Total Relative 10	0%
DOMINANT HERB	ACEOUS SPECIES	Mugwort (Artemesia vulgaris)			
		White snakeroot (Ageratina altissima)			
		Tall fescue (Festuca arundinacea)			

Hybrid poplar (*Populus x*)

Recommended:

Description:

Riverbank grape (Vitis riparia)

Yes

Multiple dead standing poplars present at this location.

<u>X</u> No

DOMINANT WOODY SPECIES

CORRECTIVE ACTIONS



September 20, 2019

3cptc111bc1 20, 20	1)			
D. Rockefeller				
Historic Agronomic Cover Areas				
VER	Herbaceous <u>75</u> %	Woody <u>80</u> %	Total Relative <u>100</u>	_ %
ACEOUS SPECIES	White snakeroot (Ageratin	a altissima)		
1020000120120	Blackberry (Rubus pensilvo	nnicus)		
	Virginia creeper (Partheno	cissus quinquefolia)		
	Oriental bittersweet (Celas	trus orbiculatus)		
OV CDECIEC	Hybrid poplar (<i>Populus x</i>)			
of Species	Hybrid willow (Salix x)			
ONS	Recommended:	Yes	X No	
	Description:			
ic.				
.5				
OVER	Herbaceous 100 %	Woody <u>60</u> %	Total Relative 100	_ %
DOMINANT HERBACEOUS SPECIES				
	Mugwort (Artemesia vulga	ris)		
DY SPECIES	Hybrid poplar (<i>Populus x</i>)			
	Hybrid willow (Salix x)			
ONS	Recommended:	Yes	X No	
	D. Rockefeller Historic Agronom OVER ACEOUS SPECIES OV SPECIES OVER ACEOUS SPECIES OVER ACEOUS SPECIES	Historic Agronomic Cover Areas OVER Herbaceous 75 % White snakeroot (Ageratin Blackberry (Rubus pensilve Virginia creeper (Partheno Oriental bittersweet (Celas Hybrid poplar (Populus x) Hybrid willow (Salix x) ONS Recommended: Description: OVER Herbaceous 100 % Red fescue (Festuca rubra) Mugwort (Artemesia vulga Hybrid poplar (Populus x) Hybrid poplar (Populus x) Hybrid poplar (Populus x) Hybrid willow (Salix x)	D. Rockefeller Historic Agronomic Cover Areas Were Herbaceous_75_ % Woody_80_ % White snakeroot (Ageratina altissima) Blackberry (Rubus pensilvanicus) Virginia creeper (Parthenocissus quinquefolia) Oriental bittersweet (Celastrus orbiculatus) Hybrid poplar (Populus x) Hybrid willow (Salix x) ONS Recommended: Yes Description: SS WERE Herbaceous_100_ % Woody_60_ % Red fescue (Festuca rubra) Mugwort (Artemesia vulgaris) DY SPECIES Hybrid poplar (Populus x) Hybrid willow (Salix x)	D. Rockefeller Historic Agronomic Cover Areas WER Herbaceous 75 % Woody 80 % Total Relative 100 White snakeroot (Ageratina altissima) Blackberry (Rubus pensilvanicus) Virginia creeper (Parthenocissus quinquefolia) Oriental bittersweet (Celastrus orbiculatus) Hybrid poplar (Populus x) Hybrid willow (Salix x) ONS Recommended: Yes X No Description: SS WER Herbaceous 100 % Woody 60 % Total Relative 100 Red fescue (Festuca rubra) Mugwort (Artemesia vulgaris) Hybrid poplar (Populus x) Hybrid willow (Salix x) Hybrid willow (Salix x)

Description:



DATE:	September 20, 2019
INSPECTOR:	D. Rockefeller
PROJECT AREA:	Historic Agronomic Cover Areas

EL-9-T1	
% VEGETATION COVER	Herbaceous 100 % Woody 5 % Total Relative 100 %
DOMINANT HERBACEOUS SPECIES	Indiangrass (Sorghastrum nutans)
DOMINANT HERBACEOUS SPECIES	Big Bluestem (Andropogon gerardi)
DOMINANT WOODY SPECIES	Black locust (Robinia pseudoacacia)
DOMINANT WOODT SPECIES	
CORRECTIVE ACTIONS	Recommended: YesX No
	Description:
ADDITIONAL NOTES	Black locust only at transect start. This location is an excellent example of a native
ADDITIONAL NOTES	tallgrass prairie community.
EL-10-T1	
LL-10-11	
% VEGETATION COVER	Herbaceous 70 % Woody 85 % Total Relative 100 %
DOMINANT HERBACEOUS SPECIES	Mugwort (Artemesia vulgaris)
	Clearweed (Pilea pumila)
	White snakeroot (Ageratina altissima)
DOMINANT WOODY SPECIES	Black locust (Robinia pseudoacacia)
	Hybrid poplar (<i>Populus x</i>)
	White mulberry (Morus alba)
CORRECTIVE ACTIONS	Recommended: Yes X No
	Description:



DATE:

AGRONOMIC COVER MONITORING DATA FORM

INSPECTOR:	D. Rockefeller							
PROJECT AREA:	Historic Agronom	ic Cover Areas						
EL-10-T2								
% VEGETATION CO	OVER	Herbaceous <u>85</u> % Wo	oody <u>80</u> %	Total Relative	95%			
DOMINANT HERB	VCEUTIC CDECIEC	White snakeroot (Ageratina alta	issima)					
DOMINANT HERB	ACEOUS SPECIES	Smooth goldenrod (Solidago gig	gantea)					
		Virginia creeper (Parthenocissu	s quinquefolia)					
		Oriental bittersweet (Celastrus	orbiculatus)					
	DV 0050150	Black locust (Robinia pseudoaca	acia)					
DOMINANT WOO	DY SPECIES	Hybrid poplar (<i>Populus x</i>)						
		White mulberry (Morus alba)						
CORRECTIVE ACTION	ONS	Recommended: You	es _	X No				
		Description:						
ADDITIONAL MOT	F.C.							
ADDITIONAL NOT	£ 5							
F1 44 T 4								
EL-11-T1								
% VEGETATION CO	OVER	<u>-</u>	oody <u>10</u> %	Total Relative 1	00_ %			
DOMINANT HERB	ACEOUS SPECIES	Red fescue (Festuca rubra)						
		Crown vetch (Securigera varia)						
DOMINANT WOO	DY SPECIES	Autumn olive (Elaeagnus umbel	llata)					
DOMINANT WOOD! SPECIES		Black locust (Robinia pseudoaca	acia)					
CORRECTIVE ACTION	ONS	Recommended: You	es	X No				
		Description:						
ADDITIONAL NOT	FC							



DATE:	September 20, 20	19			
INSPECTOR:	D. Rockefeller				
PROJECT AREA:	Historic Agronom	nic Cover Areas			
EL-12-T1					
% VEGETATION CO	OVER	Herbaceous <u>100</u> %	Woody <u>5</u> %	Total Relative 100	%
DOMINANT HERB	ACEOUS SPECIES	Switchgrass (Panicum vir	gatum)		
DOMINARY HERD	ACLOUS SI ECIES	Big bluestem (Andropogod	n gerardi)		
DOMINANT WOO	DY SPECIES	Hybrid willow (Salix x)			
CORRECTIVE ACTI	ONS	Recommended:	Yes	<u>X</u> No	
		Description:			
ADDITIONAL NOT	ES				
EL-13-T1					
% VEGETATION CO	OVER	Herbaceous <u>100</u> %	Woody <u>30</u> %	Total Relative 100	%
DOMINANT HERB	ACEOUS SPECIES	Mugwort (Artemesia vulgo			
		Big bluestem (Andropogo	n gerardi)		
		Red fescue (Festuca rubra	r)		
DOMINANT WOO	DY SPECIES	Black locust (Robinia pseu	ıdoacacia)		
CORRECTIVE ACTION	ONS	Recommended:	Yes	<u>X</u> No	
		Description:			
ADDITIONAL NOT	ES				



AGRONOMIC COVER MONITORING DATA FORM September 20, 2019 DATE:

D. Rockefeller

INSPECTOR:						
Historic Agronom	Historic Agronomic Cover Areas					
PROJECT AREA:						
EL-13-T2						
% VEGETATION COVER	Herbaceous <u>100</u> % Woody_	85 %	Total Relative <u>1</u>	00_ %		
DOMINANT HERBACEOUS SPECIES	Red fescue (Festuca rubra)					
DOMINANT HERBACEOUS SI EGIES	Mugwort (Artemesia vulgaris)					
DOMINANT WOODY SPECIES	Black locust (Robinia pseudoacacia)					
DOMINANT WOOD! SI EGES						
CORRECTIVE ACTIONS	Recommended: Yes		X No			
	Description:					
ADDITIONAL NOTES						
ADDITIONAL NOTES						
EL-14A-T1						
% VEGETATION COVER	Herbaceous 90 % Woody	85 %	Total Relative 1	<u>00 </u> %		
DOMINANT HERBACEOUS SPECIES	Canada goldenrod (Solidago canadensis)					
	Red fescue (Festuca rubra)					
DOMINANT WOODY SPECIES	Hybrid poplar (<i>Populus x</i>)					
DOMINANT WOOD! SI ECIES						
CORRECTIVE ACTIONS	Recommended: Yes	<u>.</u>	X No			
	Description:					
ADDITIONAL NOTES						



DATE:	September 20, 20)19						
INSPECTOR:	D. Rockefeller							
PROJECT AREA:	Historic Agronom	nic Cover Areas						
EL-14B-T2	_			_				
% VEGETATION CO	OVER	Herbaceous <u>100</u> %	Woody <u>85</u> %	Total Relative 100	<u></u> %			
DOMINANT HERBACEOUS SPECIES		Mugwort (Artemesia vulgo	aris)					
DOMINANT WOO	DV CDECIES	Black locust (Robinia pseu	idoacacia)					
DOMINANT WOO	DI SPECIES	Morrow's honeysuckle (Lonicera morrowii)						
CORRECTIVE ACTI	ONS	Recommended:	Yes	<u>X</u> No				
		Description:						
ADDITIONAL NOT	ES							
EL-15-T1								
% VEGETATION CO	OVER	Herbaceous <u>100</u> %	Woody <u>40</u> %	Total Relative <u>100</u>	<u> </u>			
DOMINANT HERB	ACEOUS SPECIES	Wild senna (Senna hebeca						
		Mugwort (Artemesia vulgaris)						
		Smooth goldenrod (Solida	igo gigantea)					
DOMINANT WOODY SPECIES		Black locust (Robinia pseu	idoacacia)					
CORRECTIVE ACTI	ONS	Recommended:	Yes	X No				
		Description:						
ADDITIONAL NOT	ES							



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DATE:										
INSPECTOR:	D. Rockefeller									
PROJECT AREA:	Historic Agronon	nic Cover Areas								
EL-16-T1										
% VEGETATION CO	OVER	Herbaceous_	80 %	Woody	70	%	Tot	al Relative_	100	. %
DOMINIANT LIEDD	ACTOLIC CDECIEC	False sunflow	er (<i>Heliops</i>	is heliantho	ides)					
DOMINANT HERB	ACEOUS SPECIES	Mugwort (Art	emesia vulg	aris)						
		Hybrid popla	(Populus x)						
DOMINANT WOO	DY SPECIES	Black cherry	Black cherry (<i>Prunus serotina</i>)							
		Green ash (Fr	axinus penr	isylvanica)						
CORRECTIVE ACTI	ONS	Recommende	d:	Yes			X	No		
		Description:								
ADDITIONAL NOT	ES									
		1								
EL-17-T1										
% VEGETATION CO	OVER	Herbaceous_	<u>10</u> %	Woody_	100	%	Tot	al Relative_	100	. %
DOMINANT HERB	VCEUTIC CDECIES	Oriental bitte	rsweet (<i>Cel</i>	astrus orbic	:ulatus)	-				
DOMINANT HERD	ACEOUS SPECIES	Common bucl	kthorn seed	lling (<i>Rham</i>	nus cati	hartica)				
DOMINANT WOODY SPECIES		Common bucl	kthorn (Rha	ımnus catho	ırtica)					
		Black locust (Robinia pse	udoacacia)						
CORRECTIVE ACTI	ONS	Recommende	d:	Yes	-		X	No		
		Description:								
		Transect loca	tion differs	from that o	f 2018	due to GPS	accurac	y. The 2019	locatio	on is
ADDITIONAL NOT	ES	correct.								



DATE:

AGRONOMIC COVER MONITORING DATA FORM

INSPECTOR:	Historic Agronomic Cover Areas						
PROJECT AREA:							
PROJECT AREA.							
EL-18A/B-T1							
% VEGETATION CO	OVER	Herbaceous <u>95</u> %	Woody <u>80</u> %	Total Relative 100	_ %		
DOMINANT HERB	VCEUTIS SDECIES	Common reed (Phragmites	australis)				
DOMINANT HERD	ACLOUS SPECIES	Mugwort (Artemesia vulgar	ris)				
		Common ironweed (Veroni	ia fasciculata)				
DOMINANT WOO	DV CDECIES	Hybrid poplar (<i>Populus x</i>)					
DOMINANT WOO	DI SPECIES						
CORRECTIVE ACTION	ONS	Recommended:	Yes	_X No			
		Description:					
ADDITIONAL NOT	ES						
EL-18A/B-T2							
% VEGETATION CO	OVER	Herbaceous <u>95</u> %	Woody <u>80</u> %	Total Relative 100	_ %		
DOMINANT HERBA	ACEOUS SPECIES	Common reed (Phragmites					
		Oriental bittersweet (<i>Celastrus orbiculatus</i>)					
DOMINANT WOODY SPECIES		Hybrid poplar (<i>Populus x</i>)					
	J 1 0. E0.E0	Black locust (Robinia pseud	loacacia)				
CORRECTIVE ACTION	ONS	Recommended:	Yes	X No			
		Description:					
ADDITIONAL MOT	T.C.						
ADDITIONAL NOT	13						



iditorioriic ci	September 20, 20				
DATE:	D. Rockefeller				
INSPECTOR:					
PROJECT AREA:	Historic Agronon	nic Cover Areas			
EL-25-T1					
% VEGETATION CO	OVER	Herbaceous 100 %	Woody <u>10</u> %	Total Relative 100	%
DOMINIANT LIEDD	ACTOUS SDECIES	Canada thistle (Cirsium ar	vense)		
DOMINANT HERB	ACEOUS SPECIES	Common reed (Phragmites	s australis)		
		Crown vetch (Securigera v	aria)		
	DV 0D50150	Common buckthorn (Rhan	nnus cathartica)		
DOMINANT WOO	DY SPECIES				
				_	
CORRECTIVE ACTION	ONS	Recommended:	Yes	X No	
		Description:		_	
					-
ADDITIONAL NOT	ES				
		<u>'</u>			
EL-26-T1					
% VEGETATION CO	OVER	Herbaceous 100 %	Woody <u>60</u> %	Total Relative <u>100</u>	%
DOMINANT HERB	ACFOUS SPECIES	Indiangrass (Sorghastrum	nutans)		
	10100001110110	Big bluestem (Andropogon	n gerardi)		
		Calico aster (Symphyotrich	num lateriflorum)		
		Crown vetch (Securigera v	aria)		
DOMINANT WOO	DV SPECIES	Hybrid poplar (<i>Populus x</i>)			
DOMINIANT WOO	DI SI ECIES				
CORRECTIVE ACTION	ONS	Recommended:	Yes	X No	
		Description:			
400 ITIO					
ADDITIONAL NOT	ES				



DATE:

AGRONOMIC COVER MONITORING DATA FORM

INSPECTOR:	D. Rockefeller							
PROJECT AREA:	Historic Agronom	ic Cover Areas						
PROJECT AREA.								
EL-26-T2								
% VEGETATION CO	OVER	Herbaceous <u>100</u> %	Woody <u>0</u> %	Total Relative 100	%			
DOMINANT HERBA	ACEOUS SDECIES	Indiangrass (Sorghastrum n	nutans)					
DOMINANT HERD	ACLOUS SI ECIES	Big bluestem (Andropogon gerardi)						
DOMINANT WOO	DV SDECIES	N/A						
DOMINANT WOO	DI SPECIES							
CORRECTIVE ACTION	ONS	Recommended:	_ Yes	XNo				
		Description:						
45517161141 1167								
ADDITIONAL NOTI	:3							
055D 0 T 4								
SEEP 8-T1								
% VEGETATION CO	OVER	Herbaceous 100 %	Woody 10 %	Total Relative 100	%			
DOMINANT HERBA	ACEOUS SPECIES	Birdfoot trefoil (Lotus corniculatus)						
		Red fescue (Festuca rubra)						
		Mugwort (Artemesia vulgar	ris)					
DOMINANT WOODY SPECIES		Hybrid poplar (<i>Populus x</i>)						
CORRECTIVE ACTION	ONS	Recommended:	_ Yes	X No				
		Description:						
ADDITIONAL NOTI	ES							



DATE:	September 20, 2019
INSPECTOR:	D. Rockefeller
PROJECT AREA:	Historic Agronomic Cover Areas

WL-1-T1						
% VEGETATION COVER	Herbaceous 95 % Woody 50 % Total Relative 100 %	ó				
DOMINANT HERBACEOUS SPECIES	White snakeroot (Ageratina altissima)					
DOMINANT HERDACEOUS SI EGES	Oriental bittersweet (Celastrus orbiculatus)					
	Smooth goldenrod (Solidago gigantea)					
DOMINANT WOODY SPECIES	Hybrid poplar (<i>Populus x</i>)					
DOMINANT WOODT SPECIES	Black locust (Robinia pseudoacacia)					
	White mulberry (Morus alba)					
CORRECTIVE ACTIONS	Recommended: Yes X No					
	Description:					
ADDITIONAL NOTES	Trees appear choked with bittersweet. Some have died and/or have fallen due to bittersweet stress including excess weight.					
VA/L 2 T1						
WL-2-T1						
WL-2-T1 % VEGETATION COVER	Herbaceous 100 % Woody 50 % Total Relative 100 %	ó				
	Switchgrass (Panicum virgatum)	ó				
% VEGETATION COVER	Switchgrass (Panicum virgatum) Wild bergamot (Monarda fistulosa)	ó				
% VEGETATION COVER	Switchgrass (Panicum virgatum)	ó				
% VEGETATION COVER	Switchgrass (Panicum virgatum) Wild bergamot (Monarda fistulosa)	б				
% VEGETATION COVER DOMINANT HERBACEOUS SPECIES	Switchgrass (Panicum virgatum) Wild bergamot (Monarda fistulosa) Red fescue (Festuca rubra)	6				
% VEGETATION COVER	Switchgrass (Panicum virgatum) Wild bergamot (Monarda fistulosa) Red fescue (Festuca rubra) Smooth goldenrod (Solidago gigantea)	6				
% VEGETATION COVER DOMINANT HERBACEOUS SPECIES	Switchgrass (Panicum virgatum) Wild bergamot (Monarda fistulosa) Red fescue (Festuca rubra) Smooth goldenrod (Solidago gigantea) White mulberry (Morus alba)	6				
% VEGETATION COVER DOMINANT HERBACEOUS SPECIES	Switchgrass (Panicum virgatum) Wild bergamot (Monarda fistulosa) Red fescue (Festuca rubra) Smooth goldenrod (Solidago gigantea) White mulberry (Morus alba) Elm (Ulmus sp.)	6				
% VEGETATION COVER DOMINANT HERBACEOUS SPECIES DOMINANT WOODY SPECIES	Switchgrass (Panicum virgatum) Wild bergamot (Monarda fistulosa) Red fescue (Festuca rubra) Smooth goldenrod (Solidago gigantea) White mulberry (Morus alba) Elm (Ulmus sp.) Common buckthorn (Rhamnus cathartica)	6				



DATE:	September 20, 20)19					
INSPECTOR:	D. Rockefeller						
PROJECT AREA:	Historic Agronon	nic Cover Areas					
WL-3-T1							
% VEGETATION CO	OVER	Herbaceous <u>100</u> %	Woody <u>5</u> %	Total Relative 100	<u> </u>		
DOMINANT HERB	VCEUTIS SDECIES	Smooth goldenrod (Solida	ago gigantea)				
DOMINANT HERD	ACLOUS SPECIES	Canada goldenrod (Solida	igo canadensis)				
		Black walnut (Juglans nig.	ra)				
DOMINANT WOO	DY SPECIES	black wallfut (Jugiuns nig	ruj				
CORRECTIVE ACTIONS		Recommended:	Yes	_X No			
		Description:					
ADDITIONAL NOT	ES						
WL-4-T1							
% VEGETATION CO	OVER	Herbaceous <u>100</u> %	Woody <u>80</u> %	Total Relative <u>100</u>	<u> </u>		
DOMINANT HERB	ACEOUS SPECIES	Oriental bittersweet (Celastrus orbiculatus)					
		Everlasting pea (<i>Lathyrus</i>	s latifolius)				
DOMINANT WOO	DY SPECIES	Hybrid poplar (<i>Populus x</i>)					
		Black locust (Robinia pseu	udoacacia)				
		Dogger man dod.	Vec	V No			
CORRECTIVE ACTI	ONS	Recommended:	Yes	X No			
		Description:					
ADDITIONAL NOT	ES						



DATE:	September 20, 20	19						
INSPECTOR:	D. Rockefeller							
PROJECT AREA:	Historic Agronom	ic Cover Areas						
WL-5-T1								
% VEGETATION CO	OVER	Herbaceous <u>80</u> %	Woody <u>80</u> %	Tota	l Relative <u>100</u>) %		
DOMINANT HERBA	ACEOUS SPECIES	White snakeroot (Ageratin	na altissima)					
		Virginia creeper (Parthen	ocissus quinquefolia	1)				
DOMINANT WOOL	DY SPECIES	White mulberry (Morus al.	ba)					
DOMINANT WOODY SPECIES		Hybrid poplar (<i>Populus x</i>)						
		Black locust (Robinia pseudoacacia)						
CORRECTIVE ACTION	ONS	Recommended:	Yes	X	No			
		Description:						
ADDITIONAL NOTE	ES							
WL-6-T1								
% VEGETATION CO	OVER	Herbaceous <u>95</u> %	Woody <u>60</u> %	Tota	al Relative <u>80</u>	%		
DOMINANT HERBA	ACFOLIS SPECIES	Purple coneflower (Echinacea purpurea)						
DOMINIANT TIERD	102000 31 20123	Oriental bittersweet (Celastrus orbiculatus)						
DOMINANT WOODY SPECIES		Hybrid poplar (<i>Populus x</i>)						
DOMINANT WOO	JI SPECIES	Black locust (Robinia pseud	doacacia)					
CORRECTIVE ACTION	ONS	Recommended:	Yes	X	No			
		Description:						
ADDITIONAL NOTE	ES .							



DATE:	September 20, 20	19			
INSPECTOR:	D. Rockefeller				
PROJECT AREA:	Historic Agronom	nic Cover Areas			
WL-7-T1					
% VEGETATION CO	OVER	Herbaceous <u>100</u> %	Woody <u>60</u> %	Total Relative <u>100</u>	_ %
DOMINANT HERBA	ACEOUS SPECIES	Oriental bittersweet (<i>Cela</i> .	strus orbiculatus)		
DOMINANT WOO	DY SPECIES	Hybrid poplar (<i>Populus x</i>)			
		Morrow's honeysuckle (Lo	onicera morrowii)		
CORRECTIVE ACTION	ONS		Yes	X No	
		Description:			
ADDITIONAL NOTI	ES				
WL-8-T1					
% VEGETATION CO	OVER	Herbaceous <u>100</u> %	Woody <u>30</u> %	Total Relative 100	_ %
DOMINANT HERBA	VCEUTIC CDECIEC	Red fescue (Festuca rubra)		
DOMINANT HERD	ACLOUS SPECIES	Oriental bittersweet (Cela.	strus orbiculatus)		
DOMINANT WOO	DY SPECIES	Hybrid poplar (<i>Populus x</i>)			
	J 1 0. 20.20				
CORRECTIVE ACTION	ONS	Recommended:	Yes	X No	
		Description:			
ADDITIONAL NOTI	FS				



DATE:

AGRONOMIC COVER MONITORING DATA FORM

INSPECTOR:	D. Rockefeller									
PROJECT AREA:	Historic Agronom	ic Cover Areas								
TROJECT AREA.										
WL-9-T1										
% VEGETATION CO	OVER	Herbaceous <u>100</u> %	Woody <u>30</u> %	Total Relative 100	_ %					
DOMINANT HERBACEOUS SPECIES		Mugwort (Artemesia vulgar	ris)							
		Hybrid poplar (<i>Populus x</i>)								
DOMINANT WOODY SPECIES		Black locust (Robinia pseud	Black locust (Robinia pseudoacacia)							
CORRECTIVE ACTIONS		Recommended:	_ Yes	_X No						
		Description:								
ADDITIONAL NOTI	ES									
WL-9-T2										
% VEGETATION CO	OVER	Herbaceous <u>100</u> %	Woody <u>80</u> %	Total Relative 100	_ %					
DOMINANT HERBA	ACEOUS SPECIES	White snakeroot (Agerating								
		Smooth goldenrod (<i>Solidag</i>	go gigantea)							
		Red fescue (Festuca rubra)								
DOMINANT WOO	DY SPECIES	Black locust (Robinia pseud								
		Silky dogwood (Cornus amo	omum) 							
			<u> </u>							
CORRECTIVE ACTIO	ONS	Recommended:	_ Yes	_X No						
		Description:								
ADDITIONAL NOTI	ES									



September 20, 2019

DATE:	September 20, 20	19							
INSPECTOR:	D. Rockefeller								
PROJECT AREA:	Historic Agronom	ic Cover Areas							
WL-9-T3									
% VEGETATION CO	OVER	Herbaceous <u>100</u> %	Woody <u>10</u> %	Total Relative 100	<u>)</u> %				
INSPECTOR: PROJECT AREA: WL-9-T3 % VEGETATION COVER DOMINANT HERBACEOUS SPECIES CORRECTIVE ACTIONS ADDITIONAL NOTES WL-10-T1 % VEGETATION COVER DOMINANT HERBACEOUS SPECIES DOMINANT HERBACEOUS SPECIES	ACEOUS SPECIES	Smooth goldenrod (Solide	ago gigantea)						
	White snakeroot (Agerati	ina altissima)							
		Red fescue (Festuca rubra)							
		Crown vetch (Securigera varia)							
INSPECTOR: PROJECT AREA: D. Rockefeller Historic Agrono	Black locust (Robinia pseu	ıdoacacia)							
DOMINANT WOOD! SI ECIES		Boxelder (Acer negundo)							
CORRECTIVE ACTION	ONS	Recommended:	Yes	X No					
		Description:							
ADDITIONAL NOT	ES								
WL-10-T1									
% VEGETATION CO	OVER	Herbaceous <u>100</u> %	Woody <u>100</u> %	Total Relative 100	<u>)</u> %				
DOMINANT HERR	ACEOUS SPECIES	Red fescue (Festuca rubra	1)	_					
	1020000120120	Oriental bittersweet (<i>Cela</i>	ıstrus orbiculatus)						
DOMINANT WOO	DV SDECIES	Black locust (<i>Robinia pseu</i>	ıdoacacia)						
DOMINANT WOODY SPECIES		Common buckthorn (Rha	mnus cathartica)						
		Hybrid poplar (<i>Populus x</i>)	1						
CORRECTIVE ACTION	ONS	Recommended:	Yes	X No					
		Description:							
			-						



DATE:	September 20, 20	719							
INSPECTOR:	D. Rockefeller								
PROJECT AREA:	Historic Agronom	nic Cover Areas							
1110320171112711									
WL-10-T2									
% VEGETATION CO	OVER	Herbaceous <u>100</u> %	Woody <u>40</u> %	Total Relative <u>1</u>	00_ %				
DOMINANT HERB	VCEOTIC CDECIEC	Smooth goldenrod (Solidag	go gigantea)						
DOMINANT HERB	ACEOUS SPECIES	Red fescue (Festuca rubra)	1						
		Switchgrass (Panicum virgatum)							
DOMINANT WOO	DV CDECIEC	Black locust (Robinia pseud	doacacia)						
DOMINANT WOODY SPECIES		Morrow's honeysuckle (Lonicera morrowii)							
CORRECTIVE ACTION	ONS	Recommended:	Yes	X No					
		Description:							
ADDITIONAL NOT	ES								
WL-10-T3			_		_				
Mr-10-12									
% VEGETATION CO	OVER	Herbaceous 100 %	Woody <u>20</u> %	Total Relative <u>1</u>	00%				
DOMINANT HERBA	ACEOUS SPECIES	Smooth goldenrod (Solidag							
		Wild bergamot (Monarda f							
		Red fescue (Festuca rubra)							
		Small white aster (Symphy)	otrichum racemosum)						
DOMINANT WOO	DY SPECIES	Silky dogwood (Cornus am	omum)						
CORRECTIVE ACTION	ONS	Recommended:	Yes	<u>X</u> No					
		Description:							
ADDITIONAL NOT									



iditorioriic ci	September 20, 20								
DATE:	D. Rockefeller								
INSPECTOR:									
PROJECT AREA:	Historic Agronon	nic Cover Areas							
WL-11A-T1									
% VEGETATION CO	OVER	Herbaceous 100 %	Woody <u>30</u> %	Total Relative 100	%				
DOMAIN ANT LIEDD	ACTOLIC CDECIEC	Mugwort (Artemesia vulga	ris)						
DOMINANT HERB	ACEOUS SPECIES	Big bluestem (Andropogon	Big bluestem (Andropogon gerardi)						
		Common reed (Phragmites australis)							
		Virginia wildrye (Elymus v	Virginia wildrye (<i>Elymus virginicus</i>)						
DOMINANT WOODY SPECIES		Hybrid willow (Salix x)							
		Black locust (Robinia pseud	Black locust (Robinia pseudoacacia)						
CORRECTIVE ACTI	ONS	Recommended:	Yes	<u>X</u> No					
		Description:							
				_					
ADDITIONAL NOT	ES								
		1							
WL-11B-T1									
% VEGETATION CO	OVER	Herbaceous 100 %	Woody <u>80</u> %	Total Relative <u>100</u>	%				
DOMINANT HERB	ACFOUS SPECIES	White snakeroot (Ageratin	na altissima)						
	10100001110110	Oriental bittersweet (Celas	strus orbiculatus)						
DOMINANT WOO	DV SPECIES	Black locust (Robinia pseud	doacacia)						
DOMINIANT WOO	DI SI ECIES								
CORRECTIVE ACTION	ONS	Recommended:	Yes	X No					
		Description:							
ADDITIONAL NOT	F.C.								
ADDITIONAL NOT	ES .								



DATE:	September 20, 20	19							
INSPECTOR:	D. Rockefeller								
PROJECT AREA:	Historic Agronom	ic Cover Areas							
TROJECT AREA.									
WL-12/13-T1									
% VEGETATION CO	OVER	Herbaceous <u>95</u> %	Woody <u>60</u>	%	Total Relative_	95	%		
DOMINANT HERB	VCEUTIC CDECIEC	Eastern gamagrass (T	ripsacum dactyloid	des)					
DOMINANT HERB	ACEOUS SPECIES	Oriental bittersweet (Celastrus orbiculat	tus)					
		Common milkweed (Asclepias syriaca)							
		Hybrid willow (Salix x)						
DOMINANT WOO	DY SPECIES								
CORRECTIVE ACTION	ONS	Recommended:	Yes		<u>X</u> No				
		Description:							
ADDITIONAL NOT	ES								
WL-12/13-T2	_		_		_		_		
WL-12/13-12									
% VEGETATION CO	OVER	Herbaceous 100 %		%	Total Relative_	100	%		
DOMINANT HERBA	ACEOUS SPECIES	Switchgrass (Panicum							
		Eastern gamagrass (T		des) 					
		Mugwort (Artemesia v	rulgaris)						
DOMINANT WOO	DY SPECIES	Hybrid poplar (<i>Populu</i>	ıs x)						
CORRECTIVE ACTION	ONS	Recommended:	Yes	-	X No				
		Description:							
ADDITIONAL NOT	ES								



DATE:	September 20, 20	,1)						
INSPECTOR:	D. Rockefeller							
PROJECT AREA:	Historic Agronom	nic Cover Areas						
THOSE TAKEA								
WL-12/13-T3								
% VEGETATION CO	OVER	Herbaceous <u>100</u>	%	Woody <u>5</u>	. %	Total Relative_	100	%
DOMINIANT LIEDD	ACTOLIC CDECIEC	Mugwort (Artemesia	ı vulgar	is)				
DOMINANT HERBA	ACEOUS SPECIES	Eastern gamagrass (Tripsac	cum dactyloide	es)			
		Common reed (Phragmites australis)						
DOMINANT WOO	DV CDECIEC	Hybrid poplar (<i>Popu</i>	ılus x)					
DOMINANT WOO	DI SPECIES							
CORRECTIVE ACTION	ONS	Recommended:		Yes		X No		
		Description:						
ADDITIONAL NOTI	ES							
VA/I 14 T1								
WL-14-T1								
% VEGETATION CO	OVER	Herbaceous <u>85</u>	%	Woody <u>80</u>	_ %	Total Relative_	90	%
DOMINANT HERBA	ACEOUS SPECIES	Mugwort (Artemesia						
		Smooth goldenrod (Solidago	o gigantea)				
		Common reed (Phra	ıgmites ı	australis)				
DOMINANT WOO	DY SPECIES	Black locust (Robinio	a pseudo	oacacia)				
	5 1 51 25125							
CORRECTIVE ACTION	ONS	Recommended:		Yes	-	X No		
		Description:						
ADDITIONAL NOTI	ES							



DATE:

AGRONOMIC COVER MONITORING DATA FORM

INSPECTOR:	D. Rockefeller				
PROJECT AREA:	Historic Agronom	nic Cover Areas			
PROJECT AREA.					
WL-14-T2					
% VEGETATION CO	OVER	Herbaceous <u>85</u> %	Woody <u>90</u> %	Total Relative 100	_ %
DOMINANT HERB	ACEOUS SPECIES	Smooth goldenrod (Solidag	go gigantea)		
DOMINANT HERD	ACLOUS SPECIES	Clearweed (Pilea pumila)			
DOMESTI WOO	DV CDECIEC	Black locust (Robinia pseud	doacacia)		·
DOMINANT WOODY SPECIES		Boxelder (Acer negundo)			
CORRECTIVE ACTIONS		Recommended:	Yes	X No	
		Description:			
ADDITIONAL NOT	ES				
		1			
WL-14B-T1					
% VEGETATION CO	OVER	Herbaceous <u>90</u> %	Woody <u>75</u> %	Total Relative 100	_ %
DOMINANT HERBA	VCEUTIC CDECIEC	Clearweed (Pilea pumila)	-		
DOMINANT HERB	ACEOUS SPECIES	Oriental bittersweet (Celas	trus orbiculatus)		
		Common reed (Phragmites	australis)		
DOMINIANIT WOO	DV CDECIEC	Black locust (Robinia pseud	doacacia)		
DOMINANT WOO	DI SPECIES	Boxelder (Acer negundo)			
CORRECTIVE ACTION	ONS	Recommended:	Yes	X No	
		Description:			
ADDITIONAL NOT	ES				



DATE:						
INSPECTOR:		·				
PROJECT AREA:	Historic Agronon	iic Cover Areas				
WL-14C-T1						
% VEGETATION CO	OVER	Herbaceous <u>100</u> %	Woody <u>50</u> %	Total Relative_	100	%
DOMINANT HERR	VCEUTIS SDECIES	False sunflower (Heliopsis	s helianthoides)			
DOMINANT WOODY SPECIES	White snakeroot (Ageratin	na altissima)				
		Smooth goldenrod (Solida	go gigantea)			
% VEGETATION COVER DOMINANT HERBACEOUS SPECIES DOMINANT WOODY SPECIES						
INSPECTOR: PROJECT AREA: WL-14C-T1 VEGETATION COVER DOMINANT HERBACEOUS SPECIES CORRECTIVE ACTIONS ADDITIONAL NOTES WL-15C-T1 VEGETATION COVER	DV CDECIEC	Black locust (<i>Robinia pseu</i>	doacacia)			
DOMINANT WOODY SPECIES						
CORRECTIVE ACTIONS		Recommended:	Yes	X No		
		Description:				
ADDITIONAL NOTI	ES					
WL-15C-T1						
% VEGETATION CO	OVER	Herbaceous <u>100</u> %	Woody <u>85</u> %	Total Relative_	100	%
DOMINANT HERBA	ACEOUS SPECIES	Mugwort (Artemesia vulgo	aris)			
DOMINANT WOO	DY SPECIES	Hybrid poplar (<i>Populus x</i>)				
		Boxelder (Acer negundo)				
		Black locust (Robinia pseu	doacacia)			
CORRECTIVE ACTION	ONS	Recommended:	Yes	X No		
		Description:				
ADDITIONAL NOTI	<u></u>					



DATE:	September 20, 20	1)									
INSPECTOR:	D. Rockefeller			_							
PROJECT AREA:	Historic Agronom	ic Cover Areas									
WL-15D-T1											
% VEGETATION CO	OVER	Herbaceous <u>90</u>	. %	Woody_	60	%	Total	Relative_	100	. %	
DOMINANT LIEDD	ACTOUR CRECIES	Mugwort (Artemes	ia vulgar	ris)							
DOMINANT HERB	ACEOUS SPECIES	White snakeroot (A	Ageratino	a altissima	()						
		Common reed (Phragmites australis)									
DOMINANT WOO	DV CDECIEC	Hybrid poplar (<i>Pop</i>	oulus x)							,	•
DOMINANT WOOD! SPECIES		Black locust (Robinia pseudoacacia)									
CORRECTIVE ACTIONS		Recommended:		_ Yes		_	X	No			
		Description:									
ADDITIONAL NOT	ES										
WL-16-T1											
% VEGETATION CO	OVER	Herbaceous <u>80</u>	%	Woody_	80	%	Tota	Relative_	80	%	
DOMINANT HERB	ACEOUS SPECIES	Smooth goldenrod			1)						
		Common reed (Phr	ragmites	australis)							
DOMINANT WOO	DY SPECIES	Hybrid poplar (<i>Pop</i>	oulus x)								
	2 . 0. 20.20	Pin cherry (<i>Prunus</i>	pensylva	anica)							
		Common buckthor	n (<i>Rham</i>	nus cathar	rtica)						
CORRECTIVE ACTION	ONS	Recommended:		Yes		-	X	No			
		Description:									=
ADDITIONAL NOT	ES										•



DATE:	September 20, 20)19							
INSPECTOR:	D. Rockefeller								
PROJECT AREA:	Historic Agronom	nic Cover Areas							
WL-17-T1									
% VEGETATION CO	OVER	Herbaceous <u>100</u> %	Woody <u>60</u> %	Total Relative <u>100</u>	<u>0</u> %				
DOMINANT HERB	ACEOUS SPECIES	False sunflower (Heliopsis	s helianthoides)						
DOMINIANT HERD	ACLOUD SI ECIES	Red fescue (Festuca rubra	1)						
DOMINANT WOO	DY SPECIES	Hybrid poplar (<i>Populus x</i>)	l						
		Black locust (Robinia pseudoacacia)							
		Common buckthorn (Rha	mnus cathartica)						
CORRECTIVE ACTIONS		Recommended:	Yes	X No					
		Description:							
ADDITIONAL NOT	ES								
WL-17-T2									
% VEGETATION CO	OVER	Herbaceous <u>100</u> %	Woody <u>0</u> %	Total Relative 100	0 %				
DOMINANT HERB	ACEOUS SPECIES	Smooth goldenrod (Solida							
		Wild bergamot (Monarda	fistulosa)						
DOMINANT WOO	DY SPECIES	N/A							
CORRECTIVE ACTION	ONS	Recommended:	Yes	<u>X</u> No	_				
		Description:							
ADDITIONAL NOT	ES								



DATE:	3cptciliber 20, 20	1)					
INSPECTOR:	D. Rockefeller	D. Rockefeller Historic Agronomic Cover Areas					
PROJECT AREA:	Historic Agronom	ic Cover Areas					
1110320171112711							
WL-18-T1							
% VEGETATION CO	OVER	Herbaceous <u>100</u> %	Woody <u>0</u>	_ %	Total Relative_	100	%
DOMINANT HERR	ACEOUS SDECIES	Smooth goldenrod (So	lidago gigantea)				
DOMINANT HERB	ACEOUS SPECIES	Mugwort (Artemesia v	rulgaris)				
		Indian hemp (Apocynu	ım cannabinum)				
		Wild bergamot (Mona	rda fistulosa)				
	DV 0050150	N/A					
DOMINANT WOO	DY SPECIES						
CORRECTIVE ACTI	ONS	Recommended:	Yes	-	X No		
		Description:					
ADDITIONAL NOT	ES						
WL-18-T2	_		_	_	_		
WL-10-12							
% VEGETATION CO	OVER	Herbaceous 100 %	-	_ %	Total Relative_	100	%
DOMINANT HERB	ACEOUS SPECIES	Canada thistle (Cirsiun					
		Smooth goldenrod (So					
		Mugwort (Artemesia v					
		Common milkweed (A	sclepias syriaca)				
DOMINANT WOO	DY SPECIES	Black locust (<i>Robinia p</i>	oseudoacacia)				
CORRECTIVE ACTI	ONS	Recommended:	Yes	- -	X No		
		Description:					
ADDITIONAL NOT	ES						



September 20, 2019

DATE:	:					
INSPECTOR:	D. Rockefeller		-			
PROJECT AREA:	Historic Agronom	ic Cover Areas	-			
			_			
WL-18-T3						
% VEGETATION CO	OVER	Herbaceous 100 % Wood	dy <u>5</u> %	Total Relative_	100	%
DOMINANT HERB	VCEUTIS SDECIES	Grass-leaved goldenrod (Euthamic	a graminifolia)			
DOMINANT HERD	ACLOUS SPECIES	Mugwort (Artemesia vulgaris)				
		Smooth goldenrod (Solidago gigan	ntea)			
		Touch-me-not (Impatiens capensis)			
DOMINANT WOO	DV SDECIES	Boxelder (Acer negundo)				
DOMINANT WOO	DI GELCILG					
CORRECTIVE ACTION	ONS	Recommended: Yes	<u>-</u>	X No		
CORRECTIVE ACTION	ONS	Recommended: Yes Description:	_	X No		
CORRECTIVE ACTION				X No		
			_	X No		
ADDITIONAL NOT				X No		
		Description:				
ADDITIONAL NOT	ES	Description: Herbaceous 85 % Wood	ly <u>50</u> %	X No Total Relative_	100	%
ADDITIONAL NOT	ES OVER	Description: Herbaceous 85 % Wood White snakeroot (<i>Ageratina altissi</i>	ly <u>50</u> %		100	%
ADDITIONAL NOTE WL-19A-T1 % VEGETATION CO	ES OVER	Description: Herbaceous 85 % Wood	ly <u>50</u> %		100	%
ADDITIONAL NOTE WL-19A-T1 % VEGETATION CO	ES OVER	Description: Herbaceous 85 % Wood White snakeroot (<i>Ageratina altissi</i>	ly <u>50</u> %		100	%
ADDITIONAL NOTE WL-19A-T1 % VEGETATION CO	ES OVER	Description: Herbaceous 85 % Wood White snakeroot (<i>Ageratina altissi</i>	ly <u>50</u> %		100	%
ADDITIONAL NOTE WL-19A-T1 % VEGETATION CO	DVER ACEOUS SPECIES	Description: Herbaceous 85 % Wood White snakeroot (<i>Ageratina altissi</i>	ly <u>50</u> %		100	%

Hybrid poplar (*Populus x*)

Yes

<u>X</u> No

Recommended:

Description:

CORRECTIVE ACTIONS



DATE:	September 20, 20	19					
INSPECTOR:	D. Rockefeller						
PROJECT AREA:	Historic Agronom	nic Cover Areas					
· NOSECT / INC.							
WL-20-T1							
% VEGETATION CO	OVER	Herbaceous <u>100</u> %	Woody <u>60</u>	_ %	Total Relati	ve <u>100</u>	%
DOMINANT HERB	ACFOUS SPECIES	Smooth goldenrod (Solida	go gigantea)				
DOMINANT HERD	ACLO 03 31 ECIES	Wild senna (Senna hebeca	rpa)				
DOMINANT WOO	DV SPECIES	Black locust (Robinia pseu	doacacia)				
DOMINANT WOODY SPECIES		Hybrid poplar (<i>Populus x</i>)					
		Morrow's honeysuckle (Lo	onicera morrow	rii)			
CORRECTIVE ACTI	ONS	Recommended:	Yes		X No		
		Description:					
ADDITIONAL NOT	ES						
WL-21-T1							
% VEGETATION CO	OVER	Herbaceous 100 %	Woody 30	%	Total Relati	ve <u>100</u>	%
DOMINANT HERB	ACEOUS SPECIES	Smooth goldenrod (Solida					
		Common reed (<i>Phragmite</i>					
		Field horsetail (Equisetum	arvense)				
DOMINANT WOO	DY SPECIES	Hybrid poplar (<i>Populus x</i>)					
				_			
CORRECTIVE ACTI	ONS		Yes		<u>X</u> No		
		Description:					



DATE:	September 20, 2019
INSPECTOR:	D. Rockefeller
PROJECT AREA:	Historic Agronomic Cover Areas

WL-22-T1					
% VEGETATION COVER	Herbaceous 100 % Woody 10 % Total Relative 100 %				
DOMINANT HERBACEOUS SPECIES	Common reed (Phragmites australis)				
DOMINANT HENDACEOUS SPECIES	Eastern gamagrass (Tripsacum dactyloides)				
	Big bluestem (Andrpogon gerardi)				
DOMINANT WOODY SPECIES	Black locust (Robinia pseudoacacia)				
DOMINANT WOOD! SI ECIES					
CORRECTIVE ACTIONS	Recommended: Yes X No				
	Description:				
ADDITIONAL NOTES					

Ramboll - Agronomic Cover Operations, Monitoring and Ma	aintenance
	APPENDIX 6
	FIELD DATA FORMS – FRD AGRONOMIC COVER



FL-S8

DATE:	September 20, 2019
INSPECTOR:	D. Rockefeller
PROJECT AREA:	FRD Agronomic Cover Areas

% VEGETATION COVER	Herbaceous 100 % Woody 20 % Total Relative 100 %
DOMINANT HERBACEOUS SPECIES	Red fescue (Festuca rubra)
DOMINIAN NEMBAGEOGGS EGIES	
DOMINANT WOODY SPECIES	Hybrid poplar (<i>Populus x</i>)
DOMINARY WOOD! SPECIES	
CORRECTIVE ACTIONS	Recommended: Yes No
	Description:
	This area is fully vegetated. Planted shrub species are alive but have suffered significant
ADDITIONAL NOTES	browsing pressure.
	•
EL-10A	
% VEGETATION COVER	Herbaceous <u>85</u> % Woody <u>85</u> % Total Relative <u>95</u> %
1 1 1	Herbaceous 85 % Woody 85 % Total Relative 95 % White snakeroot (Ageratina altissima)
% VEGETATION COVER DOMINANT HERBACEOUS SPECIES	
1 1 1	White snakeroot (Ageratina altissima)
1 1 1	White snakeroot (Ageratina altissima) Smooth goldenrod (Solidago gigantea)
DOMINANT HERBACEOUS SPECIES	White snakeroot (Ageratina altissima) Smooth goldenrod (Solidago gigantea)
1 1 1	White snakeroot (Ageratina altissima) Smooth goldenrod (Solidago gigantea) Virginia creeper (Parthenocissus quinquefolia)
DOMINANT HERBACEOUS SPECIES	White snakeroot (Ageratina altissima) Smooth goldenrod (Solidago gigantea) Virginia creeper (Parthenocissus quinquefolia) Black locust (Robinia pseudoacacia)
DOMINANT HERBACEOUS SPECIES	White snakeroot (Ageratina altissima) Smooth goldenrod (Solidago gigantea) Virginia creeper (Parthenocissus quinquefolia) Black locust (Robinia pseudoacacia)
DOMINANT HERBACEOUS SPECIES DOMINANT WOODY SPECIES	White snakeroot (Ageratina altissima) Smooth goldenrod (Solidago gigantea) Virginia creeper (Parthenocissus quinquefolia) Black locust (Robinia pseudoacacia) Hybrid poplar (Populus x)
DOMINANT HERBACEOUS SPECIES DOMINANT WOODY SPECIES CORRECTIVE ACTIONS	White snakeroot (Ageratina altissima) Smooth goldenrod (Solidago gigantea) Virginia creeper (Parthenocissus quinquefolia) Black locust (Robinia pseudoacacia) Hybrid poplar (Populus x) Recommended: YesX No
DOMINANT HERBACEOUS SPECIES DOMINANT WOODY SPECIES	White snakeroot (Ageratina altissima) Smooth goldenrod (Solidago gigantea) Virginia creeper (Parthenocissus quinquefolia) Black locust (Robinia pseudoacacia) Hybrid poplar (Populus x) Recommended: Yes X No Description:



September 20, 2019

DATE:	September 20, 20	119					
INSPECTOR:	D. Rockefeller						
PROJECT AREA:	FRD Agronomic C	Cover Areas					
. 110320171112711							
EL-15A							
% VEGETATION CO	OVER	Herbaceous <u>100</u> %	Woody <u>0</u> %	Total Relative 100	. %		
DOMINANT HERB	ACEOUS SPECIES	Mugwort (Artemesia vulga	aris)				
DOMINANT HERD	ACLOUS SPECIES	Virginia wildrye (Elymus v	virginicus)				
		Yellow foxtail (Setaria pun	nila)				
	DV 0D50150	N/A					
DOMINANT WOODY SPECIES							
CORRECTIVE ACTION	ONS	Recommended:	Yes	<u>X</u> No			
		Description:					
ADDITIONAL NOT	ES						
		ı					
EL-18B							
% VEGETATION CO	OVER	Herbaceous <u>100</u> %	Woody <u>50</u> %	Total Relative <u>100</u>	%		
DOMINANT HERBA	ACEOUS SPECIES	Red fescue (Festuca rubra)				
DOMINIANT HERD	ACLOUS SI ECILS	Calico aster (Symphyotrichum lateriflorum)					
		Virginia wildrye (Elymus virginicus)					
DOMINANT WOO	DV SDECIES	Boxelder (Acer negundo)					
DOMINANT WOO	DI SPECIES	Hybrid poplar (<i>Populus x</i>)					
CORRECTIVE ACTION	ONS	Recommended:	Yes	X No			
		Description:					

Roadside swale. Fully vegetated



DATE:

AGRONOMIC COVER MONITORING DATA FORM

INSPECTOR:	D. Rockefeller				
PROJECT AREA:	FRD Agronomic C	over Areas			
TROJECT AREA.					
EL-19A					
% VEGETATION CO	OVER	Herbaceous <u>100</u> %	Woody <u>30</u> %	Total Relative 100	_ %
DOMINANT HERB	ACFOUS SPECIES	Mugwort (Artemesia vulgar	is)		
	10100001110110				
DOMINANT WOO	DV SPECIES	Black locust (Robinia pseudo	oacacia)		
DOMINANT WOODY SPECIES					
CORRECTIVE ACTI	ONS	Recommended:	_ Yes	<u>X</u> No	
		Description:			
ADDITIONAL NOT					
ADDITIONAL NOT	E S				
EL 20 (MEST)					
EL-20 (WEST)					
% VEGETATION CO	OVER	Herbaceous 100 %	Woody 20 %	Total Relative 100	_ %
DOMINANT HERB	ACEOUS SPECIES	White snakeroot (<i>Ageratina</i>			
		White vervain (Verbena urt	icifolia) 		
		Red fescue (Festuca rubra)			
		Clearweed (<i>Pilea pumila</i>)			
DOMINANT WOO	DY SPECIES	Hybrid poplar (<i>Populus x</i>)			
CORRECTIVE ACTI	ONS	Recommended:	_ Yes	X No	
		Description:			
ADDITIONAL NOT	ES	Planted shrubs heavily brow	wsed.		



	September 20, 20	019					
DATE:	D. Rockefeller						
INSPECTOR:	FRD Agronomic Cover Areas						
PROJECT AREA:	- Agronomic (Lover Areas					
EL-20 (EAST)							
% VEGETATION CO	OVER	Herbaceous <u>100</u> %	Woody <u>20</u> %	Total Relative 100	. %		
DOMINANT HERB	VCEUTIS SDECIES	White snakeroot (Agerating	ı altissima)				
DOMINANT HERB	ACEOUS SPECIES	Red fescue (Festuca rubra)					
		Cleavers (Galium aparine)					
		Hybrid poplar (<i>Populus x</i>)	_				
DOMINANT WOO	DY SPECIES						
CORRECTIVE ACTI	ONS	Recommended:	_ Yes	_X No			
		Description:					
		Planted shrubs heavily brow	wend				
ADDITIONAL NOT	ES	Tranced sin ubs neavily brow	vseu.				
FL 24 /\A/FCT\							
EL-21 (WEST)							
% VEGETATION CO	OVER	Herbaceous 90 %	Woody <u>50</u> %	Total Relative 100	. %		
DOMINANT HERB	ACEOUS SPECIES	Mugwort (Artemesia vulgar					
		Oriental bittersweet (Celastrus orbiculatus)					
		Smooth goldenrod (Solidago gigantea)					
		White snakeroot (Ageratina altissima)					
DOMINANT WOO	DV SDECIES	Hybrid willow (Salix x)					
DOMINANT WOO	DI SI ECIES	Boxelder (Acer negundo)					
CORRECTIVE ACTI	ONS	Recommended:	_ Yes	X No			
		Description:					
ADDITIONAL NOT	ES						



September 20, 2019

DATE:	:						
INSPECTOR:	D. Rockefeller						
PROJECT AREA:	FRD Agronomic Cover Areas						
EL-21 (EAST)							
% VEGETATION CO	OVER	Herbaceous <u>100</u> %	Woody <u>40</u> %	Total Relative 100	_ %		
DOMINANT HERB	ACEOUS SPECIES	Purple loosestrife (<i>Lythrui</i>	m salicaria)				
DOMINANT HERD	ACLOUS SI ECIES	New York aster (Symphyot	trichum novi-belgii)				
DOMINANT WOO	DV CDECIEC	Black locust (Robinia pseud	doacacia)				
DOMINANT WOO	DI SPECIES	Hybrid willow (Salix x)					
CORRECTIVE ACTION	ONS	Recommended:	Yes	X No			
CORRECTIVE ACTION	ONS	Recommended: Description:	Yes	_XNo			
ADDITIONAL NOT			Yes	X No			
			Yes	_X No			
			Yes	_X No			
ADDITIONAL NOT	ES		Yes	_X No Total Relative_ 50	_ %		
ADDITIONAL NOTE EL-22 % VEGETATION CO	DVER	Description:	Woody <u>50</u> %		_ %		
ADDITIONAL NOTI	DVER	Description: Herbaceous 50 %	Woody <u>50</u> %		_ %		
ADDITIONAL NOTE EL-22 % VEGETATION CO	DVER	Description: Herbaceous 50 % Mugwort (Artemesia vulga	Woody <u>50</u> %		_ %		
ADDITIONAL NOTE EL-22 % VEGETATION CO	DVER	Description: Herbaceous 50 % Mugwort (Artemesia vulga Oats (Avena sativa)	Woody <u>50</u> % aris)		_ %		
ADDITIONAL NOTE EL-22 % VEGETATION CO DOMINANT HERB	DVER ACEOUS SPECIES	Description: Herbaceous 50 % Mugwort (Artemesia vulga Oats (Avena sativa) Deertongue (Panicum clan	Woody <u>50</u> % aris)		_ %		
ADDITIONAL NOTE EL-22 % VEGETATION CO	DVER ACEOUS SPECIES	Description: Herbaceous 50 % Mugwort (Artemesia vulga Oats (Avena sativa) Deertongue (Panicum clan Black-eyed Susan (Rudbeck	Woody <u>50</u> % aris)		_ %		

Yes

Description: Allow another growing season to determine corrective action effectiveness.

Corrective actions to establish vegetation occurred between May 28 and May 30, 2019.

Recommended:

X

No

CORRECTIVE ACTIONS



DATE:	September 20, 20	19			
INSPECTOR:	D. Rockefeller				
PROJECT AREA:	FRD Agronomic C	Cover Areas			
EL-22A					
% VEGETATION CO	OVER	Herbaceous <u>100</u> %	Woody <u>20</u> %	Total Relative <u>100</u>	%
DOMINANT HERB	VCEUTIC CDECIEC	Mugwort (Artemesia vulga	aris)		
DOMINANT HERB	ACEOUS SPECIES	False sunflower (Heliopsis	s helianthoides)		
		Red fescue (Festuca rubra)		
	DV CDECIEC	Hybrid poplar (<i>Populus x</i>)			
DOMINANT WOO	DA 25ECIE2				
					-
CORRECTIVE ACTION	ONS	Recommended:	Yes	_X No	
		Description:			-
ADDITIONAL NOT	ES				
EL-22B					
% VEGETATION CO	OVER	Herbaceous <u>100</u> %	Woody <u>60</u> %	Total Relative <u>100</u>	%
DOMINANT HERB	ACEOUS SPECIES	Red fescue (Festuca rubra)		
		Mugwort (Artemesia vulgo	aris)		
DOMINANT WOO	DY SPECIES	Hybrid poplar (<i>Populus x</i>)			
	- 1 0 3 3	Hybrid willow (Salix x)			
CORRECTIVE ACTION	ONS	Recommended:	Yes	X No	
		Description:			
ADDITIONAL NOT	ES				



DATE:	September 20, 2019
INSPECTOR:	D. Rockefeller
PROJECT AREA:	FRD Agronomic Cover Areas
THOSECT AREA.	

EL-23								
% VEGETATION COVER	Herbaceous <u>65</u> % Woody <u>10</u> % Total Relative <u>65</u> %							
DOMINANT HERBACEOUS SPECIES	Oats (Avena sativa)							
DOMINANT HERDACEOUS SPECIES	Virginia wildrye (Elymus virginicus)							
	Deertongue (Panicum clandestinum)							
	Black-eyed Susan (<i>Rudbeckia hirta</i>)							
DOMINANT WOODY SPECIES	Hybrid poplar (<i>Populus x</i>)							
DOMINANT WOODY SPECIES								
CORRECTIVE ACTIONS	Recommended: Yes X No							
	Description: Allow another growing season to determine corrective action effectiveness.							
ADDITIONAL NOTES	Corrective actions to establish vegetation occurred between May 28 and May 30, 2019.							
14/1 204								
WL-20A								
% VEGETATION COVER	Herbaceous 60 % Woody 30 % Total Relative 60 %							
DOMINANT HERBACEOUS SPECIES	Mugwort (Artemesia vulgaris)							
	Oats (Avena sativa)							
	Deertongue (Panicum clandestinum)							
	Black-eyed Susan (<i>Rudbeckia hirta</i>)							
DOMINANT WOODY SPECIES	Hybrid poplar (<i>Populus x</i>)							
	Hybrid willow (Salix x)							
CORRECTIVE ACTIONS	Recommended: Yes X No							
	Description: Allow another growing season to determine corrective action effectiveness.							
ADDITIONAL NOTES	Corrective actions to establish vegetation occurred between May 28 and May 30, 2019.							



September 20, 2019

DATE:	beptember 20, 20					
INSPECTOR:	D. Rockefeller					
PROJECT AREA:	FRD Agronomic C	over Areas				
WL-22A						
% VEGETATION CO	OVER	Herbaceous 50 % Woody 50 % Total Relative 50 %				
DOMINANT HERBACEOUS SPECIES		White snakeroot (Ageratina altissima)				
		Smooth goldenrod (Solidago gigantea)				
DOMINIANT WOO	DV CDECIEC	Hybrid willow (Salix x)				
DOMINANT WOODY SPECIES		Hybrid poplar (<i>Populus x</i>)				
		Black locust (Robinia pseudoacacia)				
CORRECTIVE ACTION	ONS	Recommended: X Yes No				
		Description: Hand rake mulch during spring and allow to naturally vegetate.				
ADDITIONAL NOT	· c					
ADDITIONAL NOT	-5					
WL-23						
% VEGETATION CO	OVER	Herbaceous 50 % Woody 30 % Total Relative 50 %				
DOMINIANT LIEDZA	CEOUS SPECIES	Mugwort (Artemesia vulgaris)				
DOMINANT HERD	ACLOUD DI LUILD	Oats (Avena sativa)				
		Deertongue (Panicum clandestinum)				

Black-eyed Susan (Rudbeckia hirta)

Autumn olive (Elaeagnus umbellata)

Black locust (Robinia pseudoacacia)

Yes

Description: Allow another growing season to determine corrective action effectiveness.

Corrective actions to establish vegetation occurred between May 28 and May 30, 2019.

X

No

Recommended:

DOMINANT WOODY SPECIES

CORRECTIVE ACTIONS

e e	Ramboll - Agronomic Cover Operations, Monitoring and Maintenance
APPENDIX 7	
CORRECTIVE ACTION SEED MIX	



ERNST Seeds

8884 Mercar Piles, Meadwiller PA 16335 (800) 873-3321 or (814) 336-2404

Native Steep Slope Mix w/Grain Oats

ltem	Botanical Name	Purity	Germ	Hard	Dorm	Production Origin	Genetic Origin
Oats, Variety Not Stated	Avena sativa, Variety Not Stat	39.60%	90.0%			CN	200
Indiangrass, PA Ecotype	Sorghastrum mutans, PA Ecotype	20.92%	8.0%		87.0%	PA	47
Virginia Wildrye, PA Ecotype	Elymus virginicus, PA Ecotype	7.76%	96.0%		2.0%	PA	-
Big Bluestem, 'Niagara'	Andropogon gerardii, Niagara'	7.07%	24.0%		71.0%	PA	7.2
Canada Wildrye	Elymus canadensis	5.36%	91.0%			MN	
Autumn Bentgrass, Albany Pine Bush-NY Ecotype	Agrostis perennans, Albany Pin	3.78%	94.0%			OR	
Switchgrass, NJ Ecotype	Panicum virgatum, NJ Ecotype	2.87%	9.4%		81.0%	PA	na ja
Deertongue, 'Tioga' Little Bluestem.	Panicum clandestinum, 'Tioga' Schizachyrium	2.06%	3.0%		72.0%	PA	
'Camper' Partridge Pea, PA	scoparium, 'Camp Chanaecrista	1.20%	76.0%		18.0%	NE	
Ecotype	fasciculata, PAE	1.00%	50.0%	28.0%		PA	
Purple Coneflower	Echinacea purpurea	0.90%	93.0%		1.0%	OR	
Purpletop	Tridens flavus	0.88%	3.0%		93.0%	MO	
Blackeyed Susan Coastal Plain NC Ecotype	Rudbeckia hirta, Coastal Plain	0.80%	72.0%		25 0%	NC	
Lanceleaf Corcopsis	Coreopsis lanceolaia	0.79%	77.0%		13.0%	OR	
Oxeye Sunflower, PA Ecotype	Heliopsis helianthoides, PA Ec	0.50%	49.0%		43.0%	PA	
Wild Bergamot, Fort Indiantown Gap-PA Ecotype	Monarda fistulosa. Fori Indian	0.20%	84.0%	200	11.004		
Common Milkweed	Asclepias syriaca	0.19%	93.0%		14.0%		
White Avens, PA Ecotype	Geum canadense, PA Ecotype	4 %			1.0%		
Tall White		0.10%	94.0%		3.0%	PA	
Beardiongue, PA Ecotype	Penstemon digitalis, PA Ecotyp	0.10%	3.0%		91.0%	PA	
Marrowleaf Mountainment	Pycnanthemum tenutfolium	0.10%	35.0%		59.0%	PA A	24 3
Early Goldenrod, PA Ecotype	Solidago juncea, PA Ecotype	0.10%	80.0%		5.0%	PA	8
Smooth Bine Aster, NY Ecctype New England Aster, PA	Aster laevis, NY Ecotype	0 09%	34.0%		44.0%	PA	
Ecotype Marsh (Dense) Blazing	Aster novae-angliae, PA Ecotyp	0.08%	82%TZ			PA	ļ,
Star (Dense) Blazing Star (Spiked Gayfeather), PA Ecotype	Liatris spicata, PA Ecotype	0.08%	2.0%		87.0%	PA	

Other Crop: Inert Matter:

Weed Seed:

0.84%

2.57% 0.06%

Net Weight: 50 LB

Lot Number: ERNMX-181-1 Date Tested: March 2019