



INVENTUM ENGINEERING

Tank Management and Closure Construction Completion Report Tank No. ST10

Riverview Innovation & Technology Campus
Brownfield Cleanup Program Site No. C915353

3875 River Road
Tonawanda, New York 14150

August 19, 2025

1. Facility Information Summary

Facility Information	
Name of Facility:	Riverview Innovation & Technology Campus, Inc. (RITC)
Address:	3875 River Road, Tonawanda, NY 14150
County:	Erie
Waste Generator Status:	Large Quantity Generator
EPA Identification Number:	NYD088413877
Site Operator:	Ontario Specialty Contracting (OSC)
Operator Address:	140 Lee Street, Buffalo, NY 14210
RITC Project Manager:	Dan Flanigan
RITC Project Manager Email:	dflanigan@oscinc.com
Engineering Consultant:	Inventum Engineering
Consultant Address:	441 Carlisle Drive, Suite C, Herndon, VA 20170
Consultant Contact:	John Black, P.E.
Consultant Email:	John.Black@inventumeng.com

2. Above Ground Storage Tank Information

Tank No.:	ST10
Grid Location:	AC5
Location Notes:	ST10 was located north adjacent to the former Boiler House.
Date of Closure:	7/28/2020
Tank Dimensions:	Horizontal Cylinder
Storage Capacity:	4,000 gallons
Tank Exterior Coating Description:	Fiberglass tank, discolored.
Tank Piping Description:	Supply and loading lines present from tank to Boiler House.
Secondary Containment Description:	Concrete secondary containment in poor condition.
Contents Description:	A few inches of a grey and white caustic solid, historically used to supply the lime still in the former Boiler House.

3. AST Closure Procedure

Contractor:	OSC
Contractor Address:	140 Lee Street, Buffalo, New York 14210
Dates of Cleaning:	7/29/2020
Cleaning Method:	Mechanical removal.
Disposition of tank shell and piping:	Disposed as construction and demolition debris (C&D).
Recycler or Disposal Facility Address:	Modern Landfill 1445 Pletcher Rd, Model City, NY 14107
Contents Volume Disposed:	2 drums decontamination water (1,000 pounds), 6 drums tank residuals (4,000 pounds), and 1 drum of PPE (200 pounds).
Disposition of Contents & Hazardous Waste Code(s):	PPE was disposed as non-hazardous solid waste; decontamination water and residuals disposed as hazardous waste at Chemtron Corporation, Corrosive D002.
Disposal Facility Address:	Chemtron Corporation 35850 Schneider Court, Avon, Ohio 44011
Disposal Facility EPA No.:	OHD066060609
Hazardous Waste Transporter Name:	Frank's Vacuum Truck Service Inc
Hazardous Waste Transporter EPA No.:	NYD982792814

4. Inspection Summary

Tank closure inspection:	Tank residuals were completely removed. Tank was cleared for disposal in July 2020.
Evidence of Leaks and/or additional observations:	Tank residuals were observed within the secondary containment. The northwest corner of the secondary containment had broken, and residuals were observed at seam and outside of containment. Note that a secondary containment inspection, concrete and sub-slab soil sampling, and disposal were completed and documented under separate cover in the Secondary Containment CCR (Inventum).

5. CAMP Data

Air monitoring was performed in accordance with the Community Air Monitoring Plan (CAMP) for all dates that tank work was completed including sampling, contents removal, cleaning, decommissioning and disposal. Decommissioning includes ancillary pipe removal, shearing, torch cutting, and/or contents stabilization. Daily summary graphs of particulate and volatile organic compound (VOC) monitoring are provided in the AST CCR CAMP Appendix.

Tank Work	Dates
Sampling	7/27/2020
Contents Removal	7/29/2020
Cleaning	7/29/2020
Decommissioning	7/28/2020 - 7/29/2020
Disposal	10/20/2020

Additional Notes:

None.

6. Attachments

1. Attachment A – Analytical Tables of tank contents for disposal profiling.
2. Attachment B – Photographic Log includes original, color photographs of the closure process.
3. Attachment C – Waste Manifests.
4. Attachment D – Laboratory Reports.

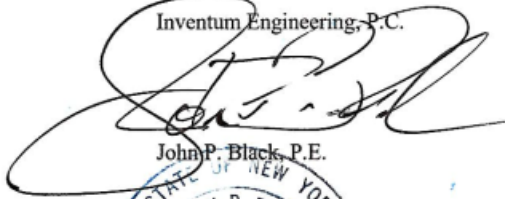


Engineering Certification

I, John P. Black, certify that I am currently a NYS registered professional engineer as defined in 6 NYCRR Part 375 and that this Tank Management and Closure Construction Completion Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and DER Green Remediation (DER-31) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.

Respectfully Submitted,

Inventum Engineering, P.C.



John P. Black, P.E.



Date:

8.18.2025

License No:

062818-1

It is a violation of the laws of New York for any person, unless acting under the direction of a Licensed Professional Engineer, to alter any item or any portion of this document in any way. If an item bearing the seal of a Licensed Professional Engineer is altered, the altering Engineer shall affix to the item his/her seal and notation "altered by" followed by his/her signature and the date of such alternation, and a specific description of the alteration.



INVENTUM ENGINEERING, PC

Attachment A – Analytical Tables



Table 1
Tank Management Closure Work Plan
ST10 Analytical Results
Riverview Innovation & Technology Campus, Inc.
Town of Tonawanda, New York

Analytes	Sample ID:		ST10-07272020	
	Sample Date:		7/27/2020	
	Lab Report Number(s):		203534	
	Contents:		Grey and White Solid	
	Hazardous Waste Code(s):		D002	
	TCLP Standards (ug/L)	Units	ST10 - Caustic Tank	
VOCs SW8260C				
1,1,1-Trichloroethane (TCA)		ug/kg	<41.8	U
1,1,2,2-Tetrachloroethane		ug/kg	<41.8	U
1,1,2-Trichloroethane		ug/kg	<41.8	U
1,1,2-Trichloro-1,2,2-Trifluoroethane		ug/kg	<41.8	U
1,1-Dichloroethane		ug/kg	<41.8	U
1,1-Dichloroethene		ug/kg	<41.8	U
1,2,3-Trichlorobenzene		ug/kg	<105	U
1,2,4-Trichlorobenzene		ug/kg	<105	U
1,2-Dibromo-3-Chloropropane		ug/kg	<209	U
1,2-Dibromoethane (Ethylene Dibromide)		ug/kg	<41.8	U
1,2-Dichlorobenzene		ug/kg	<41.8	U
1,2-Dichloroethane		ug/kg	<41.8	U
1,2-Dichloropropane		ug/kg	<41.8	U
1,3-Dichlorobenzene		ug/kg	<41.8	U
1,4-Dichlorobenzene		ug/kg	<41.8	U
1,4-Dioxane (P-Dioxane)		ug/kg	<41.8	U
Methyl Ethyl Ketone (2-Butanone)		ug/kg	<209	U
2-Hexanone		ug/kg	<105	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)		ug/kg	<105	U
Acetone		ug/kg	<209	U
Benzene		ug/kg	186	
Bromochloromethane		ug/kg	<105	U
Bromodichloromethane		ug/kg	<41.8	U
Bromoform		ug/kg	<105	U
Bromomethane		ug/kg	<41.8	U
Carbon Disulfide		ug/kg	<41.8	U
Carbon Tetrachloride		ug/kg	<41.8	U
Chlorobenzene		ug/kg	<41.8	U
Chloroethane		ug/kg	<41.8	U
Chloroform		ug/kg	<41.8	U
Chloromethane		ug/kg	<41.8	U
Cyclohexane		ug/kg	<209	U
Dibromochloromethane		ug/kg	<41.8	U
Dichlorodifluoromethane		ug/kg	<41.8	U
Methylene Chloride		ug/kg	<105	U
Ethylbenzene		ug/kg	<41.8	U
Isopropylbenzene (Cumene)		ug/kg	<41.8	U
Methyl Acetate		ug/kg	<41.8	U
Tert-Butyl Methyl Ether		ug/kg	<41.8	U
Methylcyclohexane		ug/kg	<41.8	U



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	Contents:		Grey and White Solid	
	Hazardous Waste Code(s):		D002	
	TCLP Standards (ug/L)	Units	ST10 - Caustic Tank	
Styrene		ug/kg	<41.8	U
Tetrachloroethylene (PCE)		ug/kg	<41.8	U
Toluene		ug/kg	<41.8	U
Trichloroethylene (TCE)		ug/kg	<41.8	U
Trichlorofluoromethane		ug/kg	<41.8	U
Vinyl Chloride		ug/kg	<41.8	U
Cis-1,2-Dichloroethylene		ug/kg	<41.8	U
Cis-1,3-Dichloropropene		ug/kg	<41.8	U
m,p-Xylene	m,p-Xylene	ug/kg	261	
O-Xylene (1,2-Dimethylbenzene)		ug/kg	44.6	
Trans-1,2-Dichloroethene		ug/kg	<41.8	U
Trans-1,3-Dichloropropene		ug/kg	<41.8	U
SVOCs SW8270D				
1,2,4,5-Tetrachlorobenzene		ug/kg	<276	U
2,3,4,6-Tetrachlorophenol		ug/kg	<276	U
2,4,5-Trichlorophenol		ug/kg	<276	U
2,4,6-Trichlorophenol		ug/kg	<276	U
2,4-Dichlorophenol		ug/kg	<276	U
2,4-Dimethylphenol		ug/kg	756	
2,4-Dinitrophenol		ug/kg	<1100	U
2,4-Dinitrotoluene		ug/kg	<276	U
2,6-Dinitrotoluene		ug/kg	<276	U
2-Chloronaphthalene		ug/kg	<276	U
2-Chlorophenol		ug/kg	<276	U
2-Methylnaphthalene		ug/kg	1110	
2-Methylphenol (O-Cresol)		ug/kg	<276	U
2-Nitroaniline		ug/kg	<276	U
2-Nitrophenol		ug/kg	<276	U
3,3'-Dichlorobenzidine		ug/kg	<276	U
Cresols, M & P		ug/kg	<276	U
3-Nitroaniline		ug/kg	<276	U
4,6-Dinitro-2-Methylphenol		ug/kg	<370	U
4-Bromophenyl Phenyl Ether		ug/kg	<276	U
4-Chloro-3-Methylphenol		ug/kg	<276	U
4-Chloroaniline		ug/kg	<276	U
4-Chlorophenyl Phenyl Ether		ug/kg	<276	U
4-Nitroaniline		ug/kg	<276	U
4-Nitrophenol		ug/kg	<276	U
Acenaphthene		ug/kg	<276	U
Acenaphthylene		ug/kg	<276	U



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	Hazardous Waste Code(s):		D002	
	TCLP Standards (ug/L)	Units	ST10 - Caustic Tank	
Acetophenone		ug/kg	<276	U
Anthracene		ug/kg	968	
Atrazine		ug/kg	<276	U
Benzo(A)Anthracene		ug/kg	<276	U
Benzaldehyde		ug/kg	<276	U
Benzo(A)Pyrene		ug/kg	<276	U
Benzo(B)Fluoranthene		ug/kg	<276	U
Benzo(G,H,I)Perylene		ug/kg	<276	U
Benzo(K)Fluoranthene		ug/kg	<276	U
Biphenyl (Diphenyl)		ug/kg	<276	U
Bis(2-Chloroisopropyl) Ether		ug/kg	<276	U
Bis(2-Chloroethoxy) Methane		ug/kg	<276	U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)		ug/kg	<276	U
Bis(2-Ethylhexyl) Phthalate		ug/kg	<276	U
Benzyl Butyl Phthalate		ug/kg	<276	U
Caprolactam		ug/kg	<276	U
Carbazole		ug/kg	<276	U
Chrysene		ug/kg	2850	
Di-N-Butyl Phthalate		ug/kg	<276	U
Di-N-Octylphthalate		ug/kg	<276	U
Dibenz(A,H)Anthracene		ug/kg	<276	U
Dibenzofuran		ug/kg	<276	U
Diethyl Phthalate		ug/kg	<276	U
Dimethyl Phthalate		ug/kg	<276	U
Fluoranthene		ug/kg	321	
Fluorene		ug/kg	<276	U
Hexachlorobenzene		ug/kg	<276	U
Hexachlorobutadiene		ug/kg	<276	U
Hexachlorocyclopentadiene		ug/kg	<1100	U
Hexachloroethane		ug/kg	<276	U
Indeno(1,2,3-C,D)Pyrene		ug/kg	<276	U
Isophorone		ug/kg	420	
N-Nitrosodi-N-Propylamine		ug/kg	<276	U
N-Nitrosodiphenylamine		ug/kg	<276	U
Naphthalene		ug/kg	3640	
Nitrobenzene		ug/kg	<276	U
Pentachlorophenol		ug/kg	<552	U
Phenanthrene		ug/kg	333	
Phenol		ug/kg	<276	U
Pyrene		ug/kg	<276	U



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	Hazardous Waste Code(s):		D002	
	TCLP Standards (ug/L)	Units	ST10 - Caustic Tank	
TAL Metals SW6010				
Aluminum		mg/kg	<20.7	U
Antimony		mg/kg	<2.48	U
Arsenic		mg/kg	<0.413	U
Barium		mg/kg	<4.13	U
Beryllium		mg/kg	<0.207	
Cadmium		mg/kg	0.569	
Calcium		mg/kg	<103	U
Chromium, Total		mg/kg	8.33	
Cobalt		mg/kg	<2.07	U
Copper		mg/kg	14.2	
Iron		mg/kg	5790	
Lead		mg/kg	5.30	
Magnesium		mg/kg	<103	U
Manganese		mg/kg	16.3	
Nickel		mg/kg	77.2	
Potassium		mg/kg	232	
Selenium		mg/kg	<0.826	U
Silver		mg/kg	<0.413	U
Sodium		mg/kg	250000	
Thallium		mg/kg	<1.03	U
Vanadium		mg/kg	<1.03	U
Zinc		mg/kg	3.04	
Mercury SW7471				
Mercury		mg/kg	<0.020	U
TCLP VOCs - SW8260C				
1,2-Dichloroethane	500	ug/l	<20.0	U
Chlorobenzene	100,000	ug/l	<20.0	U
Tetrachloroethylene (PCE)	700	ug/l	<20.0	U
Carbon Tetrachloride	500	ug/l	<20.0	U
Chloroform	6,000	ug/l	<20.0	U
Benzene	500	ug/l	<20.0	U
Vinyl Chloride	200	ug/l	<20.0	U
1,1-Dichloroethene	700	ug/l	<20.0	U
Methyl Ethyl Ketone (2-Butanone)	200,000	ug/l	<100	U
Trichloroethylene (TCE)	500	ug/l	<20.0	U



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	Hazardous Waste Code(s):		D002	
	TCLP Standards (ug/L)	Units	ST10 - Caustic Tank	
TCLP SVOCs - SW8270D				
1,4-Dichlorobenzene	7,500	ug/l	<50.0	U
2,4,5-Trichlorophenol	400,000	ug/l	<50.0	U
2,4,6-Trichlorophenol	2,000	ug/l	<50.0	U
2,4-Dinitrotoluene	130	ug/l	<50.0	U
2-Methylphenol (O-Cresol)	200,000	ug/l	NA	
Cresols, M & P	200,000	ug/l	NA	
Cresols (as m,p,o-Cresol)	-	ug/l	<100	U
Hexachlorobenzene	130	ug/l	<50.0	U
Hexachlorobutadiene	500	ug/l	<50.0	U
Hexachloroethane	3,000	ug/l	<50.0	U
Nitrobenzene	2,000	ug/l	<50.0	U
Pentachlorophenol	100,000	ug/l	<100	U
Pyridine	5,000	ug/l	<50.0	U
TCLP Metals - SW6010				
Arsenic	5,000	ug/l	<500	U
Barium	100,000	ug/l	<500	U
Cadmium	1,000	ug/l	<25.0	U
Chromium, Total	5,000	ug/l	<500	U
Lead	5,000	ug/l	<500	U
Selenium	1,000	ug/l	<200	U
Silver	5,000	ug/l	<500	U
TCLP Mercury- SW7470				
Mercury	200	ug/l	<2	U
TCLP Pesticides - 8081B				
Chlordane	30	ug/l	<2.00	U
Endrin	20	ug/l	<1.00	U
Gamma Bhc (Lindane)	400	ug/l	<1.00	U
Heptachlor	8	ug/l	<1.00	U
Heptachlor Epoxide	8	ug/l	<2.00	U
Methoxychlor	10,000	ug/l	<1.00	U
Toxaphene	500	ug/l	<20.0	U
TCLP Herbicides- SW8151A				
2,4-D (Dichlorophenoxyacetic Acid)	10,000	ug/l	<500	U
Silvex (2,4,5-TP)	1,000	ug/l	<100	U
SW9045D				



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	Contents:		Grey and White Solid	
	Hazardous Waste Code(s):		D002	
	TCLP Standards (ug/L)	Units	ST10 - Caustic Tank	
pH	<2, >=12.5	ph units	13.39	
Ignitability 1010MOD				
Ignitability		deg f	No Burn	
Notes:				
NS: Not Sampled				
NA: Sample collected, but not analyzed due to matrix interference				
"<": Analyzed for but detected at or above the quantitation limit				
J: Analyte detected below quantitation limit				
C: Continuing Calibration Verification (CCV) below acceptable limits				
S: Lab Control Sample (LCS) Spike recovery is below acceptable limits				
P: Concentration >40% difference between the two GC columns.				
L: Laboratory Control Sample recovery outside accepted QC limits.				
D: Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration				
(RSI)*: Additional metals analytes requested by disposal facility RSI				
Bold: Analyte was detected				
Bold with red highlight: Analyte exceeds TCLP standards or is characteristically hazardous for corrosivity, flammability				



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Attachment B – Photographic Log

Client Name: RITC	Date Photo was Taken: 10/8/2019	Project: RITC
Photo No. 1		
Direction Photo Taken: View is south.		
Description: The northern face of ST10. ST10 was located in a secondary containment north adjacent to the former Boiler House.		
Client Name: RITC	Date Photo was Taken: 10/8/2019	Project: RITC
Photo No. 2		
Direction Photo Taken: View is south.		
Description: ST10 residuals are a white and grey dry solid.		



Client Name: RITC	Date Photo was Taken: 7/29/2020	Project: RITC
Photo No. 3		
Direction Photo Taken: View is southwest.		
Description: The upper section of ST10 is removed to access remaining residuals and containerize for disposal.		





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Attachment C – Waste Manifests



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD088413877		2. Page 1 of 1		3. Emergency Response Phone 716-560-3006		4. Manifest Tracking Number 003045803 GBF					
		5. Generator's Name and Mailing Address Riverview Innovation & Technology Campus Inc 3875 River Road Tonawanda NY 14150 Generator's Phone: 716 560-3006						Att: Dan Flanigan Generator's Site Address (if different than mailing address)					
GENERATOR		6. Transporter 1 Company Name FRANKS VACUUM TRUCK SERVICE INC						U.S. EPA ID Number NYD 982 792 814					
		7. Transporter 2 Company Name						U.S. EPA ID Number					
DESIGNATED FACILITY		8. Designated Facility Name and Site Address Chemtron Corporation 35850 Schneider Court Avon OH 44011 Facility's Phone: 440 937-5950						U.S. EPA ID Number OH D066060609					
		9a. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any))						10. Containers		11. Total Quantity		12. Unit WL/Vol.	
TRANSPORTER		1 RQ UN1780, Waste Corrosive liquids, n.o.s (Sodium Hydroxide) 8, PGIII <i>wash water MR - 1</i> 2 RQ UN1780, Waste Corrosive liquids, n.o.s (Sodium Hydroxide) 8, PGIII <i>sludge MR - 2</i> 3 Non-Hazardous, Non-Regulated SOLID Material <i>3</i>						No.		Type		13. Waste Codes	
								2		DM		D002	
								6		DM		D002	
								1		DM		NONE	
INT'L		14. Special Handling Instructions and Additional Information Line 1 - washwater Line 2 - caustic sludge 1) ERG#154 20201015-005 2) ERG#154 20201015-021 3) 20201015-009 D190213						15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.					
		Generator's/Officer's Printed/Typed Name Matt Reardon on behalf of RITC						Signature <i>MR</i>		Month 10		Day 29	
DESIGNATED FACILITY		16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Date leaving U.S.: (5)						17. Transporter Acknowledgment of Receipt of Materials					
		Transporter signature (for exports only): _____						Transporter 1 Printed/Typed Name Bob O'Shea					
DESIGNATED FACILITY		Transporter 2 Printed/Typed Name						Signature <i>MR</i>		Month 10		Day 25	
		18. Discrepancy						Signature <i>MR</i>		Month 10		Day 30	
DESIGNATED FACILITY		18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						Manifest Reference Number:					
		18b. Alternate Facility (or Generator)						U.S. EPA ID Number					
DESIGNATED FACILITY		Facility's Phone:						18c. Signature of Alternate Facility (or Generator)					
		19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						Month 10					
DESIGNATED FACILITY		1. H141 2. H141 3. H141 4. _____						20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a					
		Printed/Typed Name JOSEPH J. KRISKA						Signature <i>JK</i>		Month 10		Day 30	

LAND DISPOSAL RESTRICTION NOTIFICATION & CERTIFICATION FORM (LDR)

CHEMTRON CORPORATION
 35850 SCHNEIDER COURT, AVON, OH 44011
 PHONE (440) 937-6348 FAX (440) 937-6845

PAGE 1 OF 1

GENERATOR NAME Riverview Innovations + Tech. Campus EPA ID NUMBER NYD 088 413 877

MANIFEST DOCUMENT NO. 003045803 GBF DATE _____

SIGNATURE _____ PRINT NAME _____

PLEASE REFER TO INSTRUCTIONS FOR IMPORTANT INFORMATION AND CODES FOR UHC'S AND CERTIFICATION

COMPLETE ALL APPLICABLE ITEMS.

LINE NO.	APPROVAL NO.	EPA WASTE NO.(S)	NWW	WW	SUBCAT.	UHC'S	CERT.
1	20201015-005	D002	✓		53	56, 179, 120, 119, 43	A
2	20201015-021	D002	✓		55	56, 179, 120, 119, 43	A

FOR F001-F005 SPENT SOLVENTS, LIST THE NUMBER NEXT TO THE CONSTITUENT THAT IS PRESENT.

LINE NO.(S)	F001-F005 SOLVENT	LINE NO.(S)	F001-F005 SOLVENT	LINE NO.(S)	F001-F005 SOLVENT
	ACETONE		CYCLOHEXANONE		NITROBENZENE
	BENZENE		O-DICHLOROBENZENE		PYRIDINE
	N-BUTANOL		ETHYL ACETATE		TETRACHLOROETHYLENE
	CARBON DISULFIDE		ETHYL BENZENE		TOLUENE
	CARBON TETRACHLORIDE		ETHYL ETHER		1,1,1-TRICHLOROETHANE
	CHLOROBENZENE		ISOBUTANOL		1,1,2-TRICHLOROETHANE
	O-CRESOL		METHANOL		1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE
	M-CRESOL		METHYLENE CHLORIDE		TRICHLOROETHYLENE
	P-CRESOL		METHYL ETHYL KETONE		TRICHLOROMONOFUOROMETHANE
	CRESOLS/CRESYLIC ACID		METHYL ISOBUTYL KETONE		XYLENES (MIXED)

UHC'S OR "UNDERLYING HAZARDOUS CONSTITUENTS" ARE REGULATED WITHIN THE UNIVERSAL TREATMENT STANDARDS. GENERATOR'S ARE REQUIRED TO IDENTIFY THE UNDERLYING CONSTITUENTS IN WASTE WITH THE FOLLOWING EPA WASTE NUMBERS: D001 (EXCEPT D001 WASTES WHICH CAN BE TREATED BY CMBST), D002, D012-D043. FOR MORE INFORMATION REFER TO 40 C.F.R. PART 268.



INVENTUM ENGINEERING, PC

Attachment D – Laboratory Reports



PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For
Inventum Engineering, P.C.

For Lab Project ID

203534

Referencing

Riverview

Prepared

Thursday, August 6, 2020

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

A handwritten signature in blue ink, appearing to read "R. R. Gail", is written over a horizontal line.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Page 1 of 47

Report Prepared Thursday, August 6, 2020



Lab Project ID: 203534

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier: ST08-07272020

Lab Sample ID: 203534-01

Date Sampled: 7/27/2020

Matrix: Solid

Date Received: 7/30/2020

Corrosivity as pH

Analyte	Result	Units	Qualifier	Date Analyzed
Corrosivity (as pH)	7.07 @ 23.0 C	S.U.		8/4/2020 12:10

Method Reference(s): EPA 9045D

Ignitability

Analyte	Result	Units	Qualifier	Date Analyzed
Ignitability	No Burn	mm / sec		8/5/2020

Method Reference(s): EPA 1030

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	2.57	mg/Kg		8/3/2020

Method Reference(s): EPA 7471B

Subcontractor ELAP ID: 10709

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	687	mg/Kg		8/5/2020 19:02
Antimony	< 2.83	mg/Kg		8/4/2020 20:35
Arsenic	3.01	mg/Kg		8/4/2020 20:35
Barium	20.6	mg/Kg		8/4/2020 20:35
Beryllium	< 0.236	mg/Kg		8/4/2020 20:35
Cadmium	0.859	mg/Kg		8/4/2020 20:35
Calcium	44500	mg/Kg		8/5/2020 18:58
Chromium	9.29	mg/Kg		8/4/2020 20:35
Cobalt	< 2.36	mg/Kg		8/4/2020 20:35
Copper	34.7	mg/Kg		8/4/2020 20:35
Iron	7470	mg/Kg		8/5/2020 19:02
Lead	21.7	mg/Kg		8/4/2020 20:35
Magnesium	21700	mg/Kg		8/4/2020 20:35

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Lab Project ID: 203534

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier: ST08-07272020

Lab Sample ID: 203534-01

Date Sampled: 7/27/2020

Matrix: Solid

Date Received: 7/30/2020

Manganese	251	mg/Kg	8/4/2020 20:35
Nickel	5.99	mg/Kg	8/4/2020 20:35
Potassium	889	mg/Kg	8/5/2020 19:02
Selenium	< 1.89	mg/Kg	8/5/2020 18:58
Silver	< 0.472	mg/Kg	8/4/2020 20:35
Sodium	404	mg/Kg	8/4/2020 20:35
Thallium	< 1.18	mg/Kg	8/4/2020 20:35
Vanadium	< 1.18	mg/Kg	8/4/2020 20:35
Zinc	26.4	mg/Kg	8/5/2020 19:02

Method Reference(s): EPA 6010C

EPA 3050B

Preparation Date: 8/3/2020

Data File: 200805C

Paint Filter Test

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Paint Filter Test	Pass	N/A		8/5/2020

Method Reference(s): EPA 9095B

Semi-Volatile Organics (Acid/Base Neutrals)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
1,1-Biphenyl	1050000	ug/Kg		8/5/2020 17:14
1,2,4,5-Tetrachlorobenzene	< 477000	ug/Kg		8/5/2020 17:14
1,2,4-Trichlorobenzene	< 477000	ug/Kg		8/5/2020 17:14
1,2-Dichlorobenzene	< 477000	ug/Kg		8/5/2020 17:14
1,3-Dichlorobenzene	< 477000	ug/Kg		8/5/2020 17:14
1,4-Dichlorobenzene	< 477000	ug/Kg		8/5/2020 17:14
2,2-Oxybis (1-chloropropane)	< 477000	ug/Kg		8/5/2020 17:14
2,3,4,6-Tetrachlorophenol	< 477000	ug/Kg		8/5/2020 17:14
2,4,5-Trichlorophenol	< 477000	ug/Kg		8/5/2020 17:14
2,4,6-Trichlorophenol	< 477000	ug/Kg		8/5/2020 17:14
2,4-Dichlorophenol	< 477000	ug/Kg		8/5/2020 17:14

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Lab Project ID: 203534

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Sample Identifier: ST08-07272020

Lab Sample ID: 203534-01

Date Sampled: 7/27/2020

Matrix: Solid

Date Received: 7/30/2020

2,4-Dimethylphenol	< 477000	ug/Kg	8/5/2020 17:14
2,4-Dinitrophenol	< 1910000	ug/Kg	8/5/2020 17:14
2,4-Dinitrotoluene	< 477000	ug/Kg	8/5/2020 17:14
2,6-Dinitrotoluene	< 477000	ug/Kg	8/5/2020 17:14
2-Chloronaphthalene	< 477000	ug/Kg	8/5/2020 17:14
2-Chlorophenol	< 477000	ug/Kg	8/5/2020 17:14
2-Methylnaphthalene	7010000	ug/Kg	8/5/2020 17:14
2-Methylphenol	< 477000	ug/Kg	8/5/2020 17:14
2-Nitroaniline	< 477000	ug/Kg	8/5/2020 17:14
2-Nitrophenol	< 477000	ug/Kg	8/5/2020 17:14
3&4-Methylphenol	< 477000	ug/Kg	8/5/2020 17:14
3,3'-Dichlorobenzidine	< 477000	ug/Kg	8/5/2020 17:14
3-Nitroaniline	< 477000	ug/Kg	8/5/2020 17:14
4,6-Dinitro-2-methylphenol	< 638000	ug/Kg	8/5/2020 17:14
4-Bromophenyl phenyl ether	< 477000	ug/Kg	8/5/2020 17:14
4-Chloro-3-methylphenol	< 477000	ug/Kg	8/5/2020 17:14
4-Chloroaniline	< 477000	ug/Kg	8/5/2020 17:14
4-Chlorophenyl phenyl ether	< 477000	ug/Kg	8/5/2020 17:14
4-Nitroaniline	< 477000	ug/Kg	8/5/2020 17:14
4-Nitrophenol	< 477000	ug/Kg	8/5/2020 17:14
Acenaphthene	< 477000	ug/Kg	8/5/2020 17:14
Acenaphthylene	1960000	ug/Kg	8/5/2020 17:14
Acetophenone	< 477000	ug/Kg	8/5/2020 17:14
Anthracene	< 477000	ug/Kg	8/5/2020 17:14
Atrazine	< 477000	ug/Kg	8/5/2020 17:14
Benzaldehyde	< 477000	ug/Kg	8/5/2020 17:14
Benzo (a) anthracene	< 477000	ug/Kg	8/5/2020 17:14
Benzo (a) pyrene	< 477000	ug/Kg	8/5/2020 17:14
Benzo (b) fluoranthene	< 477000	ug/Kg	8/5/2020 17:14
Benzo (g,h,i) perylene	< 477000	ug/Kg	8/5/2020 17:14

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Report Prepared Thursday, August 6, 2020



Lab Project ID: 203534

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Sample Identifier: ST08-07272020

Lab Sample ID: 203534-01

Date Sampled: 7/27/2020

Matrix: Solid

Date Received: 7/30/2020

Benzo (k) fluoranthene	< 477000	ug/Kg	8/5/2020 17:14
Bis (2-chloroethoxy) methane	< 477000	ug/Kg	8/5/2020 17:14
Bis (2-chloroethyl) ether	< 477000	ug/Kg	8/5/2020 17:14
Bis (2-ethylhexyl) phthalate	< 477000	ug/Kg	8/5/2020 17:14
Butylbenzylphthalate	< 477000	ug/Kg	8/5/2020 17:14
Caprolactam	< 477000	ug/Kg	8/5/2020 17:14
Carbazole	< 477000	ug/Kg	8/5/2020 17:14
Chrysene	< 477000	ug/Kg	8/5/2020 17:14
Dibenz (a,h) anthracene	< 477000	ug/Kg	8/5/2020 17:14
Dibenzofuran	1790000	ug/Kg	8/5/2020 17:14
Diethyl phthalate	< 477000	ug/Kg	8/5/2020 17:14
Dimethyl phthalate	< 477000	ug/Kg	8/5/2020 17:14
Di-n-butyl phthalate	< 477000	ug/Kg	8/5/2020 17:14
Di-n-octylphthalate	< 477000	ug/Kg	8/5/2020 17:14
Fluoranthene	563000	ug/Kg	8/5/2020 17:14
Fluorene	1720000	ug/Kg	8/5/2020 17:14
Hexachlorobenzene	< 477000	ug/Kg	8/5/2020 17:14
Hexachlorobutadiene	< 477000	ug/Kg	8/5/2020 17:14
Hexachlorocyclopentadiene	< 1910000	ug/Kg	8/5/2020 17:14
Hexachloroethane	< 477000	ug/Kg	8/5/2020 17:14
Indeno (1,2,3-cd) pyrene	< 477000	ug/Kg	8/5/2020 17:14
Isophorone	< 477000	ug/Kg	8/5/2020 17:14
Naphthalene	11700000	ug/Kg	8/5/2020 17:14
Nitrobenzene	< 477000	ug/Kg	8/5/2020 17:14
N-Nitroso-di-n-propylamine	< 477000	ug/Kg	8/5/2020 17:14
N-Nitrosodiphenylamine	< 477000	ug/Kg	8/5/2020 17:14
Pentachlorophenol	< 954000	ug/Kg	8/5/2020 17:14
Phenanthrene	1510000	ug/Kg	8/5/2020 17:14
Phenol	< 477000	ug/Kg	8/5/2020 17:14
Pyrene	< 477000	ug/Kg	8/5/2020 17:14

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Lab Project ID: 203534

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Sample Identifier: ST08-07272020

Lab Sample ID: 203534-01

Date Sampled: 7/27/2020

Matrix: Solid

Date Received: 7/30/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	NC	37.8 - 85.8		8/5/2020 17:14
2-Fluorobiphenyl	NC	40.4 - 80.4		8/5/2020 17:14
2-Fluorophenol	NC	38.8 - 77.4		8/5/2020 17:14
Nitrobenzene-d5	NC	37.4 - 75.9		8/5/2020 17:14
Phenol-d5	NC	40.4 - 78		8/5/2020 17:14
Terphenyl-d14	NC	40.2 - 90		8/5/2020 17:14

Method Reference(s): EPA 8270D

EPA 3546

Preparation Date: 8/4/2020

Data File: B48419.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 292	ug/Kg		8/4/2020 21:51
1,1,2,2-Tetrachloroethane	< 292	ug/Kg		8/4/2020 21:51
1,1,2-Trichloroethane	< 292	ug/Kg		8/4/2020 21:51
1,1-Dichloroethane	< 292	ug/Kg		8/4/2020 21:51
1,1-Dichloroethene	< 292	ug/Kg		8/4/2020 21:51
1,2,3-Trichlorobenzene	< 729	ug/Kg		8/4/2020 21:51
1,2,4-Trichlorobenzene	< 729	ug/Kg		8/4/2020 21:51
1,2-Dibromo-3-Chloropropane	< 1460	ug/Kg		8/4/2020 21:51
1,2-Dibromoethane	< 292	ug/Kg		8/4/2020 21:51
1,2-Dichlorobenzene	< 292	ug/Kg		8/4/2020 21:51
1,2-Dichloroethane	< 292	ug/Kg		8/4/2020 21:51
1,2-Dichloropropane	< 292	ug/Kg		8/4/2020 21:51
1,3-Dichlorobenzene	< 292	ug/Kg		8/4/2020 21:51
1,4-Dichlorobenzene	< 292	ug/Kg		8/4/2020 21:51
1,4-Dioxane	< 2920	ug/Kg		8/4/2020 21:51
2-Butanone	< 1460	ug/Kg		8/4/2020 21:51
2-Hexanone	< 729	ug/Kg		8/4/2020 21:51
4-Methyl-2-pentanone	< 729	ug/Kg		8/4/2020 21:51

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Report Prepared Thursday, August 6, 2020



Lab Project ID: 203534

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Sample Identifier: ST08-07272020

Lab Sample ID: 203534-01

Date Sampled: 7/27/2020

Matrix: Solid

Date Received: 7/30/2020

Acetone	< 1460	ug/Kg	8/4/2020 21:51
Benzene	< 292	ug/Kg	8/4/2020 21:51
Bromochloromethane	< 729	ug/Kg	8/4/2020 21:51
Bromodichloromethane	< 292	ug/Kg	8/4/2020 21:51
Bromoform	< 729	ug/Kg	8/4/2020 21:51
Bromomethane	< 292	ug/Kg	8/4/2020 21:51
Carbon disulfide	454	ug/Kg	8/4/2020 21:51
Carbon Tetrachloride	< 292	ug/Kg	8/4/2020 21:51
Chlorobenzene	< 292	ug/Kg	8/4/2020 21:51
Chloroethane	< 292	ug/Kg	8/4/2020 21:51
Chloroform	< 292	ug/Kg	8/4/2020 21:51
Chloromethane	< 292	ug/Kg	8/4/2020 21:51
cis-1,2-Dichloroethene	< 292	ug/Kg	8/4/2020 21:51
cis-1,3-Dichloropropene	< 292	ug/Kg	8/4/2020 21:51
Cyclohexane	< 1460	ug/Kg	8/4/2020 21:51
Dibromochloromethane	< 292	ug/Kg	8/4/2020 21:51
Dichlorodifluoromethane	< 292	ug/Kg	8/4/2020 21:51
Ethylbenzene	< 292	ug/Kg	8/4/2020 21:51
Freon 113	< 292	ug/Kg	8/4/2020 21:51
Isopropylbenzene	< 292	ug/Kg	8/4/2020 21:51
m,p-Xylene	< 292	ug/Kg	8/4/2020 21:51
Methyl acetate	< 292	ug/Kg	8/4/2020 21:51
Methyl tert-butyl Ether	< 292	ug/Kg	8/4/2020 21:51
Methylcyclohexane	< 292	ug/Kg	8/4/2020 21:51
Methylene chloride	< 729	ug/Kg	8/4/2020 21:51
o-Xylene	< 292	ug/Kg	8/4/2020 21:51
Styrene	1380	ug/Kg	8/4/2020 21:51
Tetrachloroethene	< 292	ug/Kg	8/4/2020 21:51
Toluene	< 292	ug/Kg	8/4/2020 21:51
trans-1,2-Dichloroethene	< 292	ug/Kg	8/4/2020 21:51

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Report Prepared Thursday, August 6, 2020



Lab Project ID: 203534

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Sample Identifier: ST08-07272020

Lab Sample ID: 203534-01

Date Sampled: 7/27/2020

Matrix: Solid

Date Received: 7/30/2020

trans-1,3-Dichloropropene	< 292	ug/Kg	8/4/2020 21:51
Trichloroethene	< 292	ug/Kg	8/4/2020 21:51
Trichlorofluoromethane	< 292	ug/Kg	8/4/2020 21:51
Vinyl chloride	< 292	ug/Kg	8/4/2020 21:51

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	101	75 - 134		8/4/2020 21:51
4-Bromofluorobenzene	92.5	59.5 - 129		8/4/2020 21:51
Pentafluorobenzene	101	88.8 - 118		8/4/2020 21:51
Toluene-D8	83.6	84 - 114	*	8/4/2020 21:51

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: x72266.D

Lab Project ID: 203534

 Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier: ST08-07272020

Lab Sample ID: 203534-01A

Date Sampled: 7/27/2020

Matrix: TCLP Extract

Date Received: 7/30/2020

TCLP Semi-Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,4-Dichlorobenzene	< 40.0	ug/L	7500		8/3/2020 19:04
2,4,5-Trichlorophenol	< 40.0	ug/L	400000		8/3/2020 19:04
2,4,6-Trichlorophenol	< 40.0	ug/L	2000		8/3/2020 19:04
2,4-Dinitrotoluene	< 40.0	ug/L	130		8/3/2020 19:04
Cresols (as m,p,o-Cresol)	115	ug/L	200000		8/3/2020 19:04
Hexachlorobenzene	< 40.0	ug/L	130		8/3/2020 19:04
Hexachlorobutadiene	< 40.0	ug/L	500		8/3/2020 19:04
Hexachloroethane	< 40.0	ug/L	3000		8/3/2020 19:04
Nitrobenzene	< 40.0	ug/L	2000		8/3/2020 19:04
Pentachlorophenol	< 80.0	ug/L	100000		8/3/2020 19:04
Pyridine	< 40.0	ug/L	5000		8/3/2020 19:04

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	87.8	53.8 - 116		8/3/2020 19:04
2-Fluorobiphenyl	80.3	36.5 - 95.3		8/3/2020 19:04
2-Fluorophenol	63.4	11.1 - 99.3		8/3/2020 19:04
Nitrobenzene-d5	94.7	49.4 - 100		8/3/2020 19:04
Phenol-d5	61.7	10 - 103		8/3/2020 19:04
Terphenyl-d14	84.2	54.3 - 109		8/3/2020 19:04

Method Reference(s): EPA 8270D
 EPA 1311 / 3510C
 Preparation Date: 8/3/2020
 Data File: B48339.D

TCLP Herbicides

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
2,4,5-TP (Silvex)	<0.10	mg/L	1		7/31/2020
2,4-D	<0.50	mg/L	10		7/31/2020

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Lab Project ID: 203534

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier: ST08-07272020

Lab Sample ID: 203534-01A

Date Sampled: 7/27/2020

Matrix: TCLP Extract

Date Received: 7/30/2020

Method Reference(s): EPA 8321B
EPA 1311
Subcontractor ELAP ID: 10709

TCLP Mercury

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Mercury	<0.002	mg/L	0.2		8/3/2020

Method Reference(s): EPA 7470A
EPA 1311
Subcontractor ELAP ID: 10709

TCLP Pesticides

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Chlordane	3.17	ug/L	30	P	7/31/2020 17:18
Endrin	< 1.00	ug/L	20		7/31/2020 17:18
gamma-BHC (Lindane)	2.88	ug/L	400	P	7/31/2020 17:18
Heptachlor	1.34	ug/L	8	P	7/31/2020 17:18
Heptachlor Epoxide	< 2.00	ug/L	8		7/31/2020 17:18
Methoxychlor	< 1.00	ug/L	10000		7/31/2020 17:18
Toxaphene	< 20.0	ug/L	500		7/31/2020 17:18

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	43.1	19.3 - 157		7/31/2020 17:18
Tetrachloro-m-xylene (1)	75.1	33.3 - 107		7/31/2020 17:18

Method Reference(s): EPA 8081B
EPA 1311 / 3510C
Preparation Date: 7/31/2020

TCLP RCRA Metals (ICP)

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Arsenic	< 0.500	mg/L	5		7/31/2020 13:53
Barium	< 0.500	mg/L	100		7/31/2020 13:53
Cadmium	< 0.0250	mg/L	1		7/31/2020 13:53
Chromium	< 0.500	mg/L	5		7/31/2020 13:53

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Report Prepared Thursday, August 6, 2020



Lab Project ID: 203534

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Sample Identifier: ST08-07272020

Lab Sample ID: 203534-01A

Date Sampled: 7/27/2020

Matrix: TCLP Extract

Date Received: 7/30/2020

Lead	< 0.500	mg/L	5	7/31/2020 13:53
Selenium	< 0.200	mg/L	1	7/31/2020 13:53
Silver	< 0.500	mg/L	5	7/31/2020 13:53

Method Reference(s): EPA 6010C
EPA 1311 / 3005A

Preparation Date: 7/31/2020

Data File: 200731C

TCLP Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,1-Dichloroethene	< 20.0	ug/L	700		8/4/2020 17:01
1,2-Dichloroethane	< 20.0	ug/L	500		8/4/2020 17:01
2-Butanone	< 100	ug/L	200000		8/4/2020 17:01
Benzene	< 20.0	ug/L	500		8/4/2020 17:01
Carbon Tetrachloride	< 20.0	ug/L	500		8/4/2020 17:01
Chlorobenzene	< 20.0	ug/L	100000		8/4/2020 17:01
Chloroform	< 20.0	ug/L	6000		8/4/2020 17:01
Tetrachloroethene	< 20.0	ug/L	700		8/4/2020 17:01
Trichloroethene	< 20.0	ug/L	500		8/4/2020 17:01
Vinyl chloride	< 20.0	ug/L	200		8/4/2020 17:01

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	122	70.9 - 139		8/4/2020 17:01
4-Bromofluorobenzene	67.3	59.5 - 129		8/4/2020 17:01
Pentafluorobenzene	103	89.3 - 117		8/4/2020 17:01
Toluene-D8	80.1	82.9 - 115	*	8/4/2020 17:01

Method Reference(s): EPA 8260C
EPA 1311 / 5030C

Data File: x72253.D



Lab Project ID: 203534

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier: ST10-07272020

Lab Sample ID: 203534-02

Date Sampled: 7/27/2020

Matrix: Solid

Date Received: 7/30/2020

Corrosivity as pH

Analyte	Result	Units	Qualifier	Date Analyzed
Corrosivity (as pH)	13.39 @ 23.6 C	S.U.		8/4/2020 12:36

Method Reference(s): EPA 9045D

Ignitability

Analyte	Result	Units	Qualifier	Date Analyzed
Ignitability	No Burn	mm / sec		8/5/2020

Method Reference(s): EPA 1030

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	<0.020	mg/Kg		8/3/2020

Method Reference(s): EPA 7471B

Subcontractor ELAP ID: 10709

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	< 20.7	mg/Kg		8/5/2020 19:11
Antimony	< 2.48	mg/Kg		8/4/2020 20:39
Arsenic	< 0.413	mg/Kg		8/4/2020 20:39
Barium	< 4.13	mg/Kg		8/4/2020 20:39
Beryllium	< 0.207	mg/Kg		8/4/2020 20:39
Cadmium	0.569	mg/Kg		8/4/2020 20:39
Calcium	< 103	mg/Kg		8/5/2020 19:11
Chromium	8.33	mg/Kg		8/4/2020 20:39
Cobalt	< 2.07	mg/Kg		8/4/2020 20:39
Copper	14.2	mg/Kg		8/4/2020 20:39
Iron	5790	mg/Kg		8/5/2020 19:11
Lead	5.30	mg/Kg		8/4/2020 20:39
Magnesium	< 103	mg/Kg		8/4/2020 20:39

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Report Prepared Thursday, August 6, 2020



Lab Project ID: 203534

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier: ST10-07272020

Lab Sample ID: 203534-02

Date Sampled: 7/27/2020

Matrix: Solid

Date Received: 7/30/2020

Manganese	16.3	mg/Kg	8/4/2020 20:39
Nickel	77.2	mg/Kg	8/4/2020 20:39
Potassium	232	mg/Kg	8/5/2020 19:11
Selenium	< 0.826	mg/Kg	8/4/2020 20:39
Silver	< 0.413	mg/Kg	8/4/2020 20:39
Sodium	250000	mg/Kg	8/5/2020 19:07
Thallium	< 1.03	mg/Kg	8/4/2020 20:39
Vanadium	< 1.03	mg/Kg	8/4/2020 20:39
Zinc	3.04	mg/Kg	8/6/2020 10:19

Method Reference(s): EPA 6010C

EPA 3050B

Preparation Date: 8/3/2020

Data File: 200805C

Paint Filter Test

Analyte	Result	Units	Qualifier	Date Analyzed
Paint Filter Test	Pass	N/A		8/5/2020

Method Reference(s): EPA 9095B

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 276	ug/Kg		8/4/2020 19:50
1,2,4,5-Tetrachlorobenzene	< 276	ug/Kg		8/4/2020 19:50
1,2,4-Trichlorobenzene	< 276	ug/Kg		8/4/2020 19:50
1,2-Dichlorobenzene	< 276	ug/Kg		8/4/2020 19:50
1,3-Dichlorobenzene	< 276	ug/Kg		8/4/2020 19:50
1,4-Dichlorobenzene	< 276	ug/Kg		8/4/2020 19:50
2,2-Oxybis (1-chloropropane)	< 276	ug/Kg		8/4/2020 19:50
2,3,4,6-Tetrachlorophenol	< 276	ug/Kg		8/4/2020 19:50
2,4,5-Trichlorophenol	< 276	ug/Kg		8/4/2020 19:50
2,4,6-Trichlorophenol	< 276	ug/Kg		8/4/2020 19:50
2,4-Dichlorophenol	< 276	ug/Kg		8/4/2020 19:50

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Report Prepared Thursday, August 6, 2020



Lab Project ID: 203534

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Sample Identifier: ST10-07272020

Lab Sample ID: 203534-02

Date Sampled: 7/27/2020

Matrix: Solid

Date Received: 7/30/2020

2,4-Dimethylphenol	756	ug/Kg	8/4/2020 19:50
2,4-Dinitrophenol	< 1100	ug/Kg	8/4/2020 19:50
2,4-Dinitrotoluene	< 276	ug/Kg	8/4/2020 19:50
2,6-Dinitrotoluene	< 276	ug/Kg	8/4/2020 19:50
2-Chloronaphthalene	< 276	ug/Kg	8/4/2020 19:50
2-Chlorophenol	< 276	ug/Kg	8/4/2020 19:50
2-Methylnapthalene	1110	ug/Kg	8/4/2020 19:50
2-Methylphenol	< 276	ug/Kg	8/4/2020 19:50
2-Nitroaniline	< 276	ug/Kg	8/4/2020 19:50
2-Nitrophenol	< 276	ug/Kg	8/4/2020 19:50
3&4-Methylphenol	< 276	ug/Kg	8/4/2020 19:50
3,3'-Dichlorobenzidine	< 276	ug/Kg	8/4/2020 19:50
3-Nitroaniline	< 276	ug/Kg	8/4/2020 19:50
4,6-Dinitro-2-methylphenol	< 370	ug/Kg	8/4/2020 19:50
4-Bromophenyl phenyl ether	< 276	ug/Kg	8/4/2020 19:50
4-Chloro-3-methylphenol	< 276	ug/Kg	8/4/2020 19:50
4-Chloroaniline	< 276	ug/Kg	8/4/2020 19:50
4-Chlorophenyl phenyl ether	< 276	ug/Kg	8/4/2020 19:50
4-Nitroaniline	< 276	ug/Kg	8/4/2020 19:50
4-Nitrophenol	< 276	ug/Kg	8/4/2020 19:50
Acenaphthene	< 276	ug/Kg	8/4/2020 19:50
Acenaphthylene	< 276	ug/Kg	8/4/2020 19:50
Acetophenone	< 276	ug/Kg	8/4/2020 19:50
Anthracene	968	ug/Kg	8/4/2020 19:50
Atrazine	< 276	ug/Kg	8/4/2020 19:50
Benzaldehyde	< 276	ug/Kg	8/4/2020 19:50
Benzo (a) anthracene	< 276	ug/Kg	8/4/2020 19:50
Benzo (a) pyrene	< 276	ug/Kg	8/4/2020 19:50
Benzo (b) fluoranthene	< 276	ug/Kg	8/4/2020 19:50
Benzo (g,h,i) perylene	< 276	ug/Kg	8/4/2020 19:50

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Report Prepared Thursday, August 6, 2020



Lab Project ID: 203534

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier: ST10-07272020

Lab Sample ID: 203534-02

Date Sampled: 7/27/2020

Matrix: Solid

Date Received: 7/30/2020

Benzo (k) fluoranthene	< 276	ug/Kg	8/4/2020 19:50
Bis (2-chloroethoxy) methane	< 276	ug/Kg	8/4/2020 19:50
Bis (2-chloroethyl) ether	< 276	ug/Kg	8/4/2020 19:50
Bis (2-ethylhexyl) phthalate	< 276	ug/Kg	8/4/2020 19:50
Butylbenzylphthalate	< 276	ug/Kg	8/4/2020 19:50
Caprolactam	< 276	ug/Kg	8/4/2020 19:50
Carbazole	< 276	ug/Kg	8/4/2020 19:50
Chrysene	2850	ug/Kg	8/4/2020 19:50
Dibenz (a,h) anthracene	< 276	ug/Kg	8/4/2020 19:50
Dibenzofuran	< 276	ug/Kg	8/4/2020 19:50
Diethyl phthalate	< 276	ug/Kg	8/4/2020 19:50
Dimethyl phthalate	< 276	ug/Kg	8/4/2020 19:50
Di-n-butyl phthalate	< 276	ug/Kg	8/4/2020 19:50
Di-n-octylphthalate	< 276	ug/Kg	8/4/2020 19:50
Fluoranthene	321	ug/Kg	8/4/2020 19:50
Fluorene	< 276	ug/Kg	8/4/2020 19:50
Hexachlorobenzene	< 276	ug/Kg	8/4/2020 19:50
Hexachlorobutadiene	< 276	ug/Kg	8/4/2020 19:50
Hexachlorocyclopentadiene	< 1100	ug/Kg	8/4/2020 19:50
Hexachloroethane	< 276	ug/Kg	8/4/2020 19:50
Indeno (1,2,3-cd) pyrene	< 276	ug/Kg	8/4/2020 19:50
Isophorone	420	ug/Kg	8/4/2020 19:50
Naphthalene	3640	ug/Kg	8/4/2020 19:50
Nitrobenzene	< 276	ug/Kg	8/4/2020 19:50
N-Nitroso-di-n-propylamine	< 276	ug/Kg	8/4/2020 19:50
N-Nitrosodiphenylamine	< 276	ug/Kg	8/4/2020 19:50
Pentachlorophenol	< 552	ug/Kg	8/4/2020 19:50
Phenanthrene	333	ug/Kg	8/4/2020 19:50
Phenol	< 276	ug/Kg	8/4/2020 19:50
Pyrene	< 276	ug/Kg	8/4/2020 19:50

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Report Prepared Thursday, August 6, 2020



Lab Project ID: 203534

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier: ST10-07272020

Lab Sample ID: 203534-02

Date Sampled: 7/27/2020

Matrix: Solid

Date Received: 7/30/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	3.82	37.8 - 85.8	*	8/4/2020	19:50
2-Fluorobiphenyl	56.3	40.4 - 80.4		8/4/2020	19:50
2-Fluorophenol	0.00	38.8 - 77.4	*	8/4/2020	19:50
Nitrobenzene-d5	30.6	37.4 - 75.9	*	8/4/2020	19:50
Phenol-d5	0.00	40.4 - 78	*	8/4/2020	19:50
Terphenyl-d14	56.1	40.2 - 90		8/4/2020	19:50

Method Reference(s): EPA 8270D

EPA 3546

Preparation Date: 8/4/2020

Data File: B48381.D

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 41.8	ug/Kg		8/4/2020 22:14
1,1,2,2-Tetrachloroethane	< 41.8	ug/Kg		8/4/2020 22:14
1,1,2-Trichloroethane	< 41.8	ug/Kg		8/4/2020 22:14
1,1-Dichloroethane	< 41.8	ug/Kg		8/4/2020 22:14
1,1-Dichloroethene	< 41.8	ug/Kg		8/4/2020 22:14
1,2,3-Trichlorobenzene	< 105	ug/Kg		8/4/2020 22:14
1,2,4-Trichlorobenzene	< 105	ug/Kg		8/4/2020 22:14
1,2-Dibromo-3-Chloropropane	< 209	ug/Kg		8/4/2020 22:14
1,2-Dibromoethane	< 41.8	ug/Kg		8/4/2020 22:14
1,2-Dichlorobenzene	< 41.8	ug/Kg		8/4/2020 22:14
1,2-Dichloroethane	< 41.8	ug/Kg		8/4/2020 22:14
1,2-Dichloropropane	< 41.8	ug/Kg		8/4/2020 22:14
1,3-Dichlorobenzene	< 41.8	ug/Kg		8/4/2020 22:14
1,4-Dichlorobenzene	< 41.8	ug/Kg		8/4/2020 22:14
1,4-Dioxane	< 418	ug/Kg		8/4/2020 22:14
2-Butanone	< 209	ug/Kg		8/4/2020 22:14
2-Hexanone	< 105	ug/Kg		8/4/2020 22:14
4-Methyl-2-pentanone	< 105	ug/Kg		8/4/2020 22:14

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Report Prepared Thursday, August 6, 2020



Lab Project ID: 203534

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Sample Identifier: ST10-07272020

Lab Sample ID: 203534-02

Date Sampled: 7/27/2020

Matrix: Solid

Date Received: 7/30/2020

Acetone	< 209	ug/Kg	8/4/2020 22:14
Benzene	186	ug/Kg	8/4/2020 22:14
Bromochloromethane	< 105	ug/Kg	8/4/2020 22:14
Bromodichloromethane	< 41.8	ug/Kg	8/4/2020 22:14
Bromoform	< 105	ug/Kg	8/4/2020 22:14
Bromomethane	< 41.8	ug/Kg	8/4/2020 22:14
Carbon disulfide	< 41.8	ug/Kg	8/4/2020 22:14
Carbon Tetrachloride	< 41.8	ug/Kg	8/4/2020 22:14
Chlorobenzene	< 41.8	ug/Kg	8/4/2020 22:14
Chloroethane	< 41.8	ug/Kg	8/4/2020 22:14
Chloroform	< 41.8	ug/Kg	8/4/2020 22:14
Chloromethane	< 41.8	ug/Kg	8/4/2020 22:14
cis-1,2-Dichloroethene	< 41.8	ug/Kg	8/4/2020 22:14
cis-1,3-Dichloropropene	< 41.8	ug/Kg	8/4/2020 22:14
Cyclohexane	< 209	ug/Kg	8/4/2020 22:14
Dibromochloromethane	< 41.8	ug/Kg	8/4/2020 22:14
Dichlorodifluoromethane	< 41.8	ug/Kg	8/4/2020 22:14
Ethylbenzene	< 41.8	ug/Kg	8/4/2020 22:14
Freon 113	< 41.8	ug/Kg	8/4/2020 22:14
Isopropylbenzene	< 41.8	ug/Kg	8/4/2020 22:14
m,p-Xylene	261	ug/Kg	8/4/2020 22:14
Methyl acetate	< 41.8	ug/Kg	8/4/2020 22:14
Methyl tert-butyl Ether	< 41.8	ug/Kg	8/4/2020 22:14
Methylcyclohexane	< 41.8	ug/Kg	8/4/2020 22:14
Methylene chloride	< 105	ug/Kg	8/4/2020 22:14
o-Xylene	44.6	ug/Kg	8/4/2020 22:14
Styrene	< 105	ug/Kg	8/4/2020 22:14
Tetrachloroethene	< 41.8	ug/Kg	8/4/2020 22:14
Toluene	252	ug/Kg	8/4/2020 22:14
trans-1,2-Dichloroethene	< 41.8	ug/Kg	8/4/2020 22:14

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Report Prepared Thursday, August 6, 2020



Lab Project ID: 203534

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Sample Identifier: ST10-07272020

Lab Sample ID: 203534-02

Date Sampled: 7/27/2020

Matrix: Solid

Date Received: 7/30/2020

trans-1,3-Dichloropropene	< 41.8	ug/Kg	8/4/2020 22:14
Trichloroethene	< 41.8	ug/Kg	8/4/2020 22:14
Trichlorofluoromethane	< 41.8	ug/Kg	8/4/2020 22:14
Vinyl chloride	< 41.8	ug/Kg	8/4/2020 22:14

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	90.4	75 - 134		8/4/2020 22:14
4-Bromofluorobenzene	105	59.5 - 129		8/4/2020 22:14
Pentafluorobenzene	101	88.8 - 118		8/4/2020 22:14
Toluene-D8	101	84 - 114		8/4/2020 22:14

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: x72267.D

Lab Project ID: 203534
Client: Inventum Engineering, P.C.
Project Reference: Riverview

Sample Identifier: ST10-07272020

Lab Sample ID: 203534-02A

Date Sampled: 7/27/2020

Matrix: TCLP Extract

Date Received: 7/30/2020

TCLP Semi-Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,4-Dichlorobenzene	< 50.0	ug/L	7500		8/3/2020 19:33
2,4,5-Trichlorophenol	< 50.0	ug/L	400000		8/3/2020 19:33
2,4,6-Trichlorophenol	< 50.0	ug/L	2000		8/3/2020 19:33
2,4-Dinitrotoluene	< 50.0	ug/L	130		8/3/2020 19:33
Cresols (as m,p,o-Cresol)	< 100	ug/L	200000		8/3/2020 19:33
Hexachlorobenzene	< 50.0	ug/L	130		8/3/2020 19:33
Hexachlorobutadiene	< 50.0	ug/L	500		8/3/2020 19:33
Hexachloroethane	< 50.0	ug/L	3000		8/3/2020 19:33
Nitrobenzene	< 50.0	ug/L	2000		8/3/2020 19:33
Pentachlorophenol	< 100	ug/L	100000		8/3/2020 19:33
Pyridine	< 50.0	ug/L	5000		8/3/2020 19:33

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	88.7	53.8 - 116		8/3/2020 19:33
2-Fluorobiphenyl	77.0	36.5 - 95.3		8/3/2020 19:33
2-Fluorophenol	70.6	11.1 - 99.3		8/3/2020 19:33
Nitrobenzene-d5	78.5	49.4 - 100		8/3/2020 19:33
Phenol-d5	70.3	10 - 103		8/3/2020 19:33
Terphenyl-d14	84.2	54.3 - 109		8/3/2020 19:33

Method Reference(s): EPA 8270D
 EPA 1311 / 3510C
Preparation Date: 8/3/2020
Data File: B48340.D

TCLP Herbicides

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
2,4,5-TP (Silvex)	<0.10	mg/L	1		7/31/2020
2,4-D	<0.50	mg/L	10		7/31/2020



Lab Project ID: 203534

Client: **Inventum Engineering, P.C.**

Project Reference: Riverview

Sample Identifier: ST10-07272020

Lab Sample ID: 203534-02A

Date Sampled: 7/27/2020

Matrix: TCLP Extract

Date Received: 7/30/2020

Method Reference(s): EPA 8321B

EPA 1311

Subcontractor ELAP ID: 10709

TCLP Mercury

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Mercury	<0.002	mg/L	0.2		8/3/2020

Method Reference(s): EPA 7470A

EPA 1311

Subcontractor ELAP ID: 10709

TCLP Pesticides

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Chlordane	< 2.00	ug/L	30		7/31/2020 17:37
Endrin	< 1.00	ug/L	20		7/31/2020 17:37
gamma-BHC (Lindane)	< 1.00	ug/L	400		7/31/2020 17:37
Heptachlor	< 1.00	ug/L	8		7/31/2020 17:37
Heptachlor Epoxide	< 2.00	ug/L	8		7/31/2020 17:37
Methoxychlor	< 1.00	ug/L	10000		7/31/2020 17:37
Toxaphene	< 20.0	ug/L	500		7/31/2020 17:37

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	86.7	19.3 - 157		7/31/2020 17:37
Tetrachloro-m-xylene (1)	74.1	33.3 - 107		7/31/2020 17:37

Method Reference(s): EPA 8081B

EPA 1311 / 3510C

Preparation Date: 7/31/2020

TCLP RCRA Metals (ICP)

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Arsenic	< 0.500	mg/L	5		7/31/2020 13:57
Barium	< 0.500	mg/L	100		7/31/2020 13:57
Cadmium	< 0.0250	mg/L	1		7/31/2020 13:57
Chromium	< 0.500	mg/L	5		7/31/2020 13:57

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Report Prepared Thursday, August 6, 2020

Lab Project ID: 203534
Client: **Inventum Engineering, P.C.**
Project Reference: Riverview

Sample Identifier: ST10-07272020

Lab Sample ID: 203534-02A

Date Sampled: 7/27/2020

Matrix: TCLP Extract

Date Received: 7/30/2020

Lead	< 0.500	mg/L	5	7/31/2020 13:57
Selenium	< 0.200	mg/L	1	7/31/2020 13:57
Silver	< 0.500	mg/L	5	7/31/2020 13:57

Method Reference(s): EPA 6010C
EPA 1311 / 3005A

Preparation Date: 7/31/2020

Data File: 200731C

TCLP Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Regulatory Limit</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
1,1-Dichloroethene	< 20.0	ug/L	700		8/4/2020 17:24
1,2-Dichloroethane	< 20.0	ug/L	500		8/4/2020 17:24
2-Butanone	< 100	ug/L	200000		8/4/2020 17:24
Benzene	< 20.0	ug/L	500		8/4/2020 17:24
Carbon Tetrachloride	< 20.0	ug/L	500		8/4/2020 17:24
Chlorobenzene	< 20.0	ug/L	100000		8/4/2020 17:24
Chloroform	< 20.0	ug/L	6000		8/4/2020 17:24
Tetrachloroethene	< 20.0	ug/L	700		8/4/2020 17:24
Trichloroethene	< 20.0	ug/L	500		8/4/2020 17:24
Vinyl chloride	< 20.0	ug/L	200		8/4/2020 17:24

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	117	70.9 - 139		8/4/2020 17:24
4-Bromofluorobenzene	67.0	59.5 - 129		8/4/2020 17:24
Pentafluorobenzene	99.4	89.3 - 117		8/4/2020 17:24
Toluene-D8	83.8	82.9 - 115		8/4/2020 17:24

Method Reference(s): EPA 8260C
EPA 1311 / 5030C

Data File: x72254.D



Method Blank Report

Client: Inventum Engineering, P.C.
Project Reference: Riverview
Lab Project ID: 203534
Matrix: Solid

TAL Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Aluminum	<24.3	mg/Kg		8/4/2020 11:39
Antimony	<2.91	mg/Kg		8/4/2020 11:39
Arsenic	<0.485	mg/Kg		8/4/2020 11:39
Barium	<4.85	mg/Kg		8/4/2020 11:39
Beryllium	<0.243	mg/Kg		8/4/2020 11:39
Cadmium	<0.243	mg/Kg		8/4/2020 11:39
Calcium	<121	mg/Kg		8/4/2020 11:39
Chromium	<0.485	mg/Kg		8/4/2020 11:39
Cobalt	<2.43	mg/Kg		8/4/2020 11:39
Copper	<0.971	mg/Kg		8/4/2020 11:39
Iron	<9.71	mg/Kg		8/4/2020 11:39
Lead	<0.485	mg/Kg		8/4/2020 11:39
Magnesium	<121	mg/Kg		8/4/2020 11:39
Manganese	<0.728	mg/Kg		8/4/2020 11:39
Nickel	<1.94	mg/Kg		8/4/2020 19:57
Potassium	<121	mg/Kg		8/4/2020 11:39
Selenium	<0.971	mg/Kg		8/4/2020 11:39
Silver	<0.485	mg/Kg		8/4/2020 11:39
Sodium	<121	mg/Kg		8/4/2020 11:39
Thallium	<1.21	mg/Kg		8/4/2020 11:39
Vanadium	<1.21	mg/Kg		8/4/2020 19:57
Zinc	<2.91	mg/Kg		8/4/2020 11:39

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 8/3/2020
Data File: 200804A
QC Batch ID: QC200803soil
QC Number: 1

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample and Control Sample Duplicate

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Lab Project ID: 203534

Matrix: Solid

Metals

Analyte	LCS		LCSD		Spike Units	LCS		LCSD		LCS %		LCSD %		% Rec Limits	LCS		LCSD		Relative % Difference	RPD Limit	RPD Outliers	Date Analyzed
	Added	Added	Result	Result		Recovery	Recovery	Recovery	Recovery	Outliers	Outliers											
Aluminum	106	101	mg/Kg	99.6	93.4	94.1	92.6	80 - 120		1.55	20	8/4/2020										
Antimony	106	101	mg/Kg	96.9	91.6	91.4	90.8	80 - 120		0.658	20	8/4/2020										
Arsenic	106	101	mg/Kg	97.7	93.1	92.2	92.4	80 - 120		0.120	20	8/4/2020										
Barium	106	101	mg/Kg	106	100	99.9	99.7	80 - 120		0.204	20	8/4/2020										
Beryllium	21.2	20.2	mg/Kg	18.5	17.5	87.3	86.7	80 - 120		0.664	20	8/4/2020										
Cadmium	42.4	40.3	mg/Kg	40.4	38.3	95.4	95.1	80 - 120		0.398	20	8/4/2020										
Calcium	169	161	mg/Kg	159	155	93.5	96.2	80 - 120		2.82	20	8/4/2020										
Chromium	106	101	mg/Kg	102	96.8	96.4	96.1	80 - 120		0.341	20	8/4/2020										
Cobalt	42.4	40.3	mg/Kg	40.3	38.2	95.0	94.7	80 - 120		0.298	20	8/4/2020										
Copper	106	101	mg/Kg	99.9	94.6	94.3	93.8	80 - 120		0.528	20	8/4/2020										
Iron	106	101	mg/Kg	99.6	93.4	94.1	92.7	80 - 120		1.46	20	8/4/2020										
Lead	106	101	mg/Kg	94.2	89.1	88.9	88.4	80 - 120		0.557	20	8/4/2020										
Magnesium	339	323	mg/Kg	314	298	92.8	92.3	80 - 120		0.496	20	8/4/2020										
Manganese	42.4	40.3	mg/Kg	42.5	40.2	100	99.7	80 - 120		0.661	20	8/4/2020										
Nickel	212	202	mg/Kg	202	191	95.3	94.6	80 - 120		0.674	20	8/4/2020										
Potassium	1800	1710	mg/Kg	1600	1560	88.7	91.0	80 - 120		2.53	20	8/4/2020										

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample and Control Sample Duplicate

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Lab Project ID: 203534

Matrix: Solid

Metals

Analyte	LCS		LCSD		Spike Units	LCS		LCSD		LCS % Recovery	LCSD % Recovery		%Rec Limits	LCS		LCSD		Relative % Difference	RPD Limit	RPD Outliers	Date Analyzed
	Added	Added	Result	Result		Recovery	Recovery	Outliers	Outliers												
Selenium	106	101	mg/Kg	84.7	80.8	80.0	80.2	80 - 120			0.211	20								8/4/2020	
Silver	10.6	10.1	mg/Kg	9.68	9.20	91.3	91.2	80 - 120			0.122	20								8/4/2020	
Sodium	508	484	mg/Kg	458	446	90.1	92.2	80 - 120			2.37	20								8/4/2020	
Thallium	106	101	mg/Kg	106	101	99.9	100	80 - 120			0.152	20								8/4/2020	
Vanadium	42.4	40.3	mg/Kg	41.5	39.3	98.0	97.6	80 - 120			0.460	20								8/4/2020	
Zinc	106	101	mg/Kg	95.5	90.8	90.2	90.1	80 - 120			0.109	20								8/4/2020	

Method Reference(s):

EPA 6010C

EPA 3050B

Preparation Date:

8/3/2020

Data File:

200804A

QC Number:

1

QC Batch ID:

QC200803soil

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Method Blank Report

Client: Inventum Engineering, P.C.
Project Reference: Riverview
Lab Project ID: 203534
Matrix: Solid

Semi-Volatile Organics (Acid/Base Neutrals)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
1,1-Biphenyl	<254	ug/Kg		8/4/2020 13:32
1,2,4,5-Tetrachlorobenzene	<254	ug/Kg		8/4/2020 13:32
1,2,4-Trichlorobenzene	<254	ug/Kg		8/4/2020 13:32
1,2-Dichlorobenzene	<254	ug/Kg		8/4/2020 13:32
1,3-Dichlorobenzene	<254	ug/Kg		8/4/2020 13:32
1,4-Dichlorobenzene	<254	ug/Kg		8/4/2020 13:32
2,2-Oxybis (1-chloropropane)	<254	ug/Kg		8/4/2020 13:32
2,3,4,6-Tetrachlorophenol	<254	ug/Kg		8/4/2020 13:32
2,4,5-Trichlorophenol	<254	ug/Kg		8/4/2020 13:32
2,4,6-Trichlorophenol	<254	ug/Kg		8/4/2020 13:32
2,4-Dichlorophenol	<254	ug/Kg		8/4/2020 13:32
2,4-Dimethylphenol	<254	ug/Kg		8/4/2020 13:32
2,4-Dinitrophenol	<1020	ug/Kg		8/4/2020 13:32
2,4-Dinitrotoluene	<254	ug/Kg		8/4/2020 13:32
2,6-Dinitrotoluene	<254	ug/Kg		8/4/2020 13:32
2-Chloronaphthalene	<254	ug/Kg		8/4/2020 13:32
2-Chlorophenol	<254	ug/Kg		8/4/2020 13:32
2-Methylnaphthalene	<254	ug/Kg		8/4/2020 13:32
2-Methylphenol	<254	ug/Kg		8/4/2020 13:32
2-Nitroaniline	<254	ug/Kg		8/4/2020 13:32
2-Nitrophenol	<254	ug/Kg		8/4/2020 13:32
3&4-Methylphenol	<254	ug/Kg		8/4/2020 13:32
3,3'-Dichlorobenzidine	<254	ug/Kg		8/4/2020 13:32
3-Nitroaniline	<254	ug/Kg		8/4/2020 13:32
4,6-Dinitro-2-methylphenol	<508	ug/Kg		8/4/2020 13:32
4-Bromophenyl phenyl ether	<254	ug/Kg		8/4/2020 13:32
4-Chloro-3-methylphenol	<254	ug/Kg		8/4/2020 13:32
4-Chloroaniline	<254	ug/Kg		8/4/2020 13:32

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Method Blank Report

Client: Inventum Engineering, P.C.
Project Reference: Riverview
Lab Project ID: 203534
Matrix: Solid

Semi-Volatile Organics (Acid/Base Neutrals)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
4-Chlorophenyl phenyl ether	<254	ug/Kg		8/4/2020 13:32
4-Nitroaniline	<254	ug/Kg		8/4/2020 13:32
4-Nitrophenol	<254	ug/Kg		8/4/2020 13:32
Acenaphthene	<254	ug/Kg		8/4/2020 13:32
Acenaphthylene	<254	ug/Kg		8/4/2020 13:32
Acetophenone	<254	ug/Kg		8/4/2020 13:32
Anthracene	<254	ug/Kg		8/4/2020 13:32
Atrazine	<254	ug/Kg		8/4/2020 13:32
Benzaldehyde	<254	ug/Kg		8/4/2020 13:32
Benzo (a) anthracene	<254	ug/Kg		8/4/2020 13:32
Benzo (a) pyrene	<254	ug/Kg		8/4/2020 13:32
Benzo (b) fluoranthene	<254	ug/Kg		8/4/2020 13:32
Benzo (g,h,i) perylene	<254	ug/Kg		8/4/2020 13:32
Benzo (k) fluoranthene	<254	ug/Kg		8/4/2020 13:32
Bis (2-chloroethoxy) methane	<254	ug/Kg		8/4/2020 13:32
Bis (2-chloroethyl) ether	<254	ug/Kg		8/4/2020 13:32
Bis (2-ethylhexyl) phthalate	<254	ug/Kg		8/4/2020 13:32
Butylbenzylphthalate	<254	ug/Kg		8/4/2020 13:32
Caprolactam	<254	ug/Kg		8/4/2020 13:32
Carbazole	<254	ug/Kg		8/4/2020 13:32
Chrysene	<254	ug/Kg		8/4/2020 13:32
Dibenz (a,h) anthracene	<254	ug/Kg		8/4/2020 13:32
Dibenzofuran	<254	ug/Kg		8/4/2020 13:32
Diethyl phthalate	<254	ug/Kg		8/4/2020 13:32
Dimethyl phthalate	<254	ug/Kg		8/4/2020 13:32
Di-n-butyl phthalate	<254	ug/Kg		8/4/2020 13:32
Di-n-octylphthalate	<254	ug/Kg		8/4/2020 13:32
Fluoranthene	<254	ug/Kg		8/4/2020 13:32

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Method Blank Report

Client: Inventum Engineering, P.C.
Project Reference: Riverview
Lab Project ID: 203534
Matrix: Solid

Semi-Volatile Organics (Acid/Base Neutrals)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Fluorene	<254	ug/Kg		8/4/2020 13:32
Hexachlorobenzene	<254	ug/Kg		8/4/2020 13:32
Hexachlorobutadiene	<254	ug/Kg		8/4/2020 13:32
Hexachlorocyclopentadiene	<1020	ug/Kg		8/4/2020 13:32
Hexachloroethane	<254	ug/Kg		8/4/2020 13:32
Indeno (1,2,3-cd) pyrene	<254	ug/Kg		8/4/2020 13:32
Isophorone	<254	ug/Kg		8/4/2020 13:32
Naphthalene	<254	ug/Kg		8/4/2020 13:32
Nitrobenzene	<254	ug/Kg		8/4/2020 13:32
N-Nitroso-di-n-propylamine	<254	ug/Kg		8/4/2020 13:32
N-Nitrosodiphenylamine	<254	ug/Kg		8/4/2020 13:32
Pentachlorophenol	<508	ug/Kg		8/4/2020 13:32
Phenanthrene	<254	ug/Kg		8/4/2020 13:32
Phenol	<254	ug/Kg		8/4/2020 13:32
Pyrene	<254	ug/Kg		8/4/2020 13:32

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
2,4,6-Tribromophenol	59.6	37.8 - 85.8		8/4/2020 13:32
2-Fluorobiphenyl	53.5	40.4 - 80.4		8/4/2020 13:32
2-Fluorophenol	54.0	38.8 - 77.4		8/4/2020 13:32
Nitrobenzene-d5	53.1	37.4 - 75.9		8/4/2020 13:32
Phenol-d5	59.4	40.4 - 78		8/4/2020 13:32
Terphenyl-d14	52.2	40.2 - 90		8/4/2020 13:32

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 8/4/2020
Data File: B48368.D
QC Batch ID: QC200804ABNS
QC Number: 1

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client:

Inventum Engineering, P.C.

Project Reference:

Riverview

Lab Project ID:

203534

Matrix:

Solid

Semi-Volatile Organics (Acid/Base Neutrals)

<u>Analyte</u>	<u>Spike Added</u>	<u>Spike Units</u>	<u>LCS Result</u>	<u>LCS % Recovery</u>	<u>% Rec Limits</u>	<u>LCS Outliers</u>	<u>Date Analyzed</u>
1,2,4-Trichlorobenzene	2760	ug/Kg	1780	64.4	45.7 - 73.3		8/4/2020
1,4-Dichlorobenzene	2760	ug/Kg	1660	60.1	43.1 - 68.3		8/4/2020
2,4-Dinitrotoluene	2760	ug/Kg	1990	72.0	44.4 - 83.4		8/4/2020
2-Chlorophenol	4140	ug/Kg	2860	69.0	48.8 - 77.3		8/4/2020
4-Chloro-3-methylphenol	4140	ug/Kg	3150	76.0	50 - 82.5		8/4/2020
4-Nitrophenol	4140	ug/Kg	3220	77.8	42.7 - 85.9		8/4/2020
Acenaphthene	2760	ug/Kg	1950	70.5	46.4 - 78.8		8/4/2020
N-Nitroso-di-n-propylamine	2760	ug/Kg	1940	70.2	43.2 - 78.2		8/4/2020
Pentachlorophenol	4140	ug/Kg	2790	67.4	32.1 - 116		8/4/2020
Phenol	4140	ug/Kg	3030	73.0	47.5 - 78		8/4/2020
Pyrene	2760	ug/Kg	1970	71.4	47.1 - 88.4		8/4/2020

Method Reference(s): EPA 8270D

EPA 3546

Preparation Date:

8/4/2020

Data File:

B48369.D

QC Number:

1

QC Batch ID:

QC200804ABNS

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Method Blank Report

Client: Inventum Engineering, P.C.
Project Reference: Riverview
Lab Project ID: 203534
Matrix: Solid

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
1,1,1-Trichloroethane	<2.00	ug/Kg		8/4/2020 12:56
1,1,2,2-Tetrachloroethane	<2.00	ug/Kg		8/4/2020 12:56
1,1,2-Trichloroethane	<2.00	ug/Kg		8/4/2020 12:56
1,1-Dichloroethane	<2.00	ug/Kg		8/4/2020 12:56
1,1-Dichloroethene	<2.00	ug/Kg		8/4/2020 12:56
1,2,3-Trichlorobenzene	<5.00	ug/Kg		8/4/2020 12:56
1,2,4-Trichlorobenzene	<5.00	ug/Kg		8/4/2020 12:56
1,2-Dibromo-3-Chloropropane	<10.0	ug/Kg		8/4/2020 12:56
1,2-Dibromoethane	<2.00	ug/Kg		8/4/2020 12:56
1,2-Dichlorobenzene	<2.00	ug/Kg		8/4/2020 12:56
1,2-Dichloroethane	<2.00	ug/Kg		8/4/2020 12:56
1,2-Dichloropropane	<2.00	ug/Kg		8/4/2020 12:56
1,3-Dichlorobenzene	<2.00	ug/Kg		8/4/2020 12:56
1,4-Dichlorobenzene	<2.00	ug/Kg		8/4/2020 12:56
1,4-Dioxane	<20.0	ug/Kg		8/4/2020 12:56
2-Butanone	<10.0	ug/Kg		8/4/2020 12:56
2-Hexanone	<5.00	ug/Kg		8/4/2020 12:56
4-Methyl-2-pentanone	<5.00	ug/Kg		8/4/2020 12:56
Acetone	<10.0	ug/Kg		8/4/2020 12:56
Benzene	<2.00	ug/Kg		8/4/2020 12:56
Bromochloromethane	<5.00	ug/Kg		8/4/2020 12:56
Bromodichloromethane	<2.00	ug/Kg		8/4/2020 12:56
Bromoform	<5.00	ug/Kg		8/4/2020 12:56
Bromomethane	<2.00	ug/Kg		8/4/2020 12:56
Carbon disulfide	<2.00	ug/Kg		8/4/2020 12:56
Carbon Tetrachloride	<2.00	ug/Kg		8/4/2020 12:56
Chlorobenzene	<2.00	ug/Kg		8/4/2020 12:56

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Method Blank Report

Client: Inventum Engineering, P.C.
Project Reference: Riverview
Lab Project ID: 203534
Matrix: Solid

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Chloroethane	<2.00	ug/Kg		8/4/2020 12:56
Chloroform	<2.00	ug/Kg		8/4/2020 12:56
Chloromethane	<2.00	ug/Kg		8/4/2020 12:56
cis-1,2-Dichloroethene	<2.00	ug/Kg		8/4/2020 12:56
cis-1,3-Dichloropropene	<2.00	ug/Kg		8/4/2020 12:56
Cyclohexane	<10.0	ug/Kg		8/4/2020 12:56
Dibromochloromethane	<2.00	ug/Kg		8/4/2020 12:56
Dichlorodifluoromethane	<2.00	ug/Kg		8/4/2020 12:56
Ethylbenzene	<2.00	ug/Kg		8/4/2020 12:56
Freon 113	<2.00	ug/Kg		8/4/2020 12:56
Isopropylbenzene	<2.00	ug/Kg		8/4/2020 12:56
m,p-Xylene	<2.00	ug/Kg		8/4/2020 12:56
Methyl acetate	<2.00	ug/Kg		8/4/2020 12:56
Methyl tert-butyl Ether	<2.00	ug/Kg		8/4/2020 12:56
Methylcyclohexane	<2.00	ug/Kg		8/4/2020 12:56
Methylene chloride	<5.00	ug/Kg		8/4/2020 12:56
o-Xylene	<2.00	ug/Kg		8/4/2020 12:56
Styrene	<5.00	ug/Kg		8/4/2020 12:56
Tetrachloroethene	<2.00	ug/Kg		8/4/2020 12:56
Toluene	<2.00	ug/Kg		8/4/2020 12:56
trans-1,2-Dichloroethene	<2.00	ug/Kg		8/4/2020 12:56
trans-1,3-Dichloropropene	<2.00	ug/Kg		8/4/2020 12:56
Trichloroethene	<2.00	ug/Kg		8/4/2020 12:56
Trichlorofluoromethane	<2.00	ug/Kg		8/4/2020 12:56
Vinyl chloride	<2.00	ug/Kg		8/4/2020 12:56



Method Blank Report

Client: Inventum Engineering, P.C.
Project Reference: Riverview
Lab Project ID: 203534
Matrix: Solid

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
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<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	108	75 - 134		8/4/2020 12:56
4-Bromofluorobenzene	65.4	59.5 - 129		8/4/2020 12:56
Pentafluorobenzene	100	88.8 - 118		8/4/2020 12:56
Toluene-D8	84.7	84 - 114		8/4/2020 12:56

Method Reference(s): EPA 8260C
EPA 5035A - L
Data File: x72243.D
QC Batch ID: voas200804
QC Number: 1



PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client:

Inventum Engineering, P.C.

Project Reference:

Riverview

Lab Project ID:

203534

Matrix:

Solid

Volatile Organics

<u>Analyte</u>	<u>Spike Added</u>	<u>Spike Units</u>	<u>LCS Result</u>	<u>LCS % Recovery</u>	<u>% Rec Limits</u>	<u>LCS Outliers</u>	<u>Date Analyzed</u>
1,1,1-Trichloroethane	20.0	ug/Kg	23.0	115	64.9 - 133		8/4/2020
1,1,2,2-Tetrachloroethane	20.0	ug/Kg	24.5	123	71.9 - 134		8/4/2020
1,1,2-Trichloroethane	20.0	ug/Kg	22.1	110	74.2 - 129		8/4/2020
1,1-Dichloroethane	20.0	ug/Kg	22.6	113	61.6 - 134		8/4/2020
1,1-Dichloroethene	20.0	ug/Kg	23.4	117	60.6 - 128		8/4/2020
1,2-Dichlorobenzene	20.0	ug/Kg	21.8	109	70.9 - 129		8/4/2020
1,2-Dichloroethane	20.0	ug/Kg	22.7	114	67.2 - 143		8/4/2020
1,2-Dichloropropane	20.0	ug/Kg	18.1	90.7	68 - 123		8/4/2020
1,3-Dichlorobenzene	20.0	ug/Kg	20.0	100	67.2 - 124		8/4/2020
1,4-Dichlorobenzene	20.0	ug/Kg	20.4	102	66.8 - 123		8/4/2020
Benzene	20.0	ug/Kg	22.8	114	72.2 - 129		8/4/2020
Bromodichloromethane	20.0	ug/Kg	20.5	103	64.2 - 129		8/4/2020
Bromoform	20.0	ug/Kg	19.6	98.2	55.2 - 123		8/4/2020
Bromomethane	20.0	ug/Kg	22.9	114	65.2 - 146		8/4/2020
Carbon Tetrachloride	20.0	ug/Kg	23.0	115	61.2 - 137		8/4/2020
Chlorobenzene	20.0	ug/Kg	21.8	109	71.6 - 127		8/4/2020

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ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client:

Inventum Engineering, P.C.

Project Reference:

Riverview

Lab Project ID:

203534

Matrix:

Solid

Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
Chloroethane	20.0	ug/Kg	22.6	113	60.4 - 137		8/4/2020
Chloroform	20.0	ug/Kg	22.8	114	69.4 - 134		8/4/2020
Chloromethane	20.0	ug/Kg	21.8	109	47.5 - 173		8/4/2020
cis-1,3-Dichloropropene	20.0	ug/Kg	14.7	73.5	61 - 115		8/4/2020
Dibromochloromethane	20.0	ug/Kg	20.4	102	65.3 - 130		8/4/2020
Ethylbenzene	20.0	ug/Kg	16.3	81.7	69.3 - 132		8/4/2020
Methylene chloride	20.0	ug/Kg	21.6	108	58.6 - 138		8/4/2020
Tetrachloroethene	20.0	ug/Kg	21.4	107	62.8 - 140		8/4/2020
Toluene	20.0	ug/Kg	18.4	92.1	74.9 - 130		8/4/2020
trans-1,2-Dichloroethene	20.0	ug/Kg	24.2	121	67.9 - 134		8/4/2020
trans-1,3-Dichloropropene	20.0	ug/Kg	16.8	84.1	54 - 117		8/4/2020
Trichloroethene	20.0	ug/Kg	20.7	103	73.5 - 122		8/4/2020
Trichlorofluoromethane	20.0	ug/Kg	24.2	121	60.6 - 155		8/4/2020
Vinyl chloride	20.0	ug/Kg	20.6	103	60.9 - 150		8/4/2020

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client:

Inventum Engineering, P.C.

Project Reference:

Riverview

Lab Project ID:

203534

Matrix:

Solid

Volatile Organics

Analyte

Method Reference(s):

EPA 8260C

Data File:

EPA 5035A - L

QC Number:

x72242.D

QC Batch ID:

1

voas200804

Spike
Added

Spike
Units

LCS
Result

LCS %
Recovery

% Rec
Limits

LCS
Outliers

Date
Analyzed

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Method Blank Report

Client: Inventum Engineering, P.C.
Project Reference: Riverview
Lab Project ID: 203534
Matrix: TCLP Fluid

TCLP Semi-Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>	
1,4-Dichlorobenzene	<40.0	ug/L		8/3/2020	15:11
2,4,5-Trichlorophenol	<40.0	ug/L		8/3/2020	15:11
2,4,6-Trichlorophenol	<40.0	ug/L		8/3/2020	15:11
2,4-Dinitrotoluene	<40.0	ug/L		8/3/2020	15:11
Cresols (as m,p,o-Cresol)	<80.0	ug/L		8/3/2020	15:11
Hexachlorobenzene	<40.0	ug/L		8/3/2020	15:11
Hexachlorobutadiene	<40.0	ug/L		8/3/2020	15:11
Hexachloroethane	<40.0	ug/L		8/3/2020	15:11
Nitrobenzene	<40.0	ug/L		8/3/2020	15:11
Pentachlorophenol	<80.0	ug/L		8/3/2020	15:11
Pyridine	<40.0	ug/L		8/3/2020	15:11

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>	
2,4,6-Tribromophenol	97.3	61.4 - 115		8/3/2020	15:11
2-Fluorobiphenyl	77.7	38.4 - 101		8/3/2020	15:11
2-Fluorophenol	78.3	12.7 - 105		8/3/2020	15:11
Nitrobenzene-d5	86.0	57.3 - 100		8/3/2020	15:11
Phenol-d5	78.2	10 - 107		8/3/2020	15:11
Terphenyl-d14	90.8	58.1 - 117		8/3/2020	15:11

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 8/3/2020
Data File: B48331.D
QC Batch ID: QC200803ABNT
QC Number: 1



PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client:

Inventum Engineering, P.C.

Project Reference:

Riverview

Lab Project ID:

203534

Matrix:

TCLP Fluid

TCLP Semi-Volatile Organics

<u>Analyte</u>	<u>Spike Added</u>	<u>Spike Units</u>	<u>LCS Result</u>	<u>LCS % Recovery</u>	<u>% Rec Limits</u>	<u>LCS Outliers</u>	<u>Date Analyzed</u>
1,4-Dichlorobenzene	200	ug/L	144	72.1	25.3 - 96.3		8/3/2020
2,4,6-Trichlorophenol	300	ug/L	287	95.8	65.8 - 118		8/3/2020
2,4-Dinitrotoluene	200	ug/L	190	95.0	62.6 - 111		8/3/2020
Pentachlorophenol	300	ug/L	288	96.0	48 - 151		8/3/2020

Method Reference(s):

EPA 8270D
EPA 3510C

Preparation Date:

8/3/2020

Data File:

B48332.D

QC Number:

1

QC Batch ID:

QC200803ABNT

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Method Blank Report

Client: Inventum Engineering, P.C.
Project Reference: Riverview
Lab Project ID: 203534
Matrix: TCLP Fluid

TCLP Pesticides

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>	
Chlordane	<2.00	ug/L		7/31/2020	16:22
Endrin	<1.00	ug/L		7/31/2020	16:22
gamma-BHC (Lindane)	<1.00	ug/L		7/31/2020	16:22
Heptachlor	<1.00	ug/L		7/31/2020	16:22
Heptachlor Epoxide	<2.00	ug/L		7/31/2020	16:22
Methoxychlor	<1.00	ug/L		7/31/2020	16:22
Toxaphene	<20.0	ug/L		7/31/2020	16:22

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>	
Decachlorobiphenyl (1)	97.0	14.8 - 154		7/31/2020	16:22
Tetrachloro-m-xylene (1)	64.5	32.7 - 101		7/31/2020	16:22

Method Reference(s): EPA 8081B
EPA 3510C
Preparation Date: 7/31/2020
QC Batch ID: QC200731PESTT
QC Number: 1



PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Lab Project ID: 203534

Matrix: TCLP Fluid

TCLP Pesticides

<u>Analyte</u>	<u>Spike Added</u>	<u>Spike Units</u>	<u>LCS Result</u>	<u>LCS % Recovery</u>	<u>% Rec Limits</u>	<u>LCS Outliers</u>	<u>Date Analyzed</u>
Chlordane (1)	10.0	ug/L			47.1 - 115		
Endrin (1)	5.00	ug/L	3.00	60.1	33.3 - 111		7/31/2020
gamma-BHC (Lindane) (1)	5.00	ug/L	2.78	55.7	38.6 - 112		7/31/2020
Heptachlor (1)	5.00	ug/L	2.93	58.6	26.3 - 127		7/31/2020
Heptachlor Epoxide (1)	5.00	ug/L	3.10	62.1	41.8 - 124		7/31/2020
Methoxychlor (1)	5.00	ug/L	3.77	75.5	46.1 - 149		7/31/2020
Toxaphene (1)	50.0	ug/L	41.8	83.7	12.2 - 120		7/31/2020

Method Reference(s):

EPA 8081B

EPA 3510C

Preparation Date:

7/31/2020

QC Number:

1

QC Batch ID:

QC200731PESTT

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Method Blank Report

Client: Inventum Engineering, P.C.
Project Reference: Riverview
Lab Project ID: 203534
Matrix: TCLP Fluid

TCLP RCRA Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Arsenic	<0.500	mg/L		7/31/2020 12:37
Barium	<0.500	mg/L		7/31/2020 12:37
Cadmium	<0.0250	mg/L		7/31/2020 12:37
Chromium	<0.500	mg/L		7/31/2020 12:37
Lead	<0.500	mg/L		7/31/2020 12:37
Selenium	<0.200	mg/L		7/31/2020 12:37
Silver	<0.500	mg/L		7/31/2020 12:37

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 7/31/2020
Data File: 200731C
QC Batch ID: QC200731Tclp
QC Number: 1



PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample and Control Sample Duplicate

Client: Inventum Engineering, P.C.

Project Reference: Riverview

Lab Project ID: 203534

Matrix: TCLP Fluid

TCLP Metals (ICP)

Analyte	<u>LCS</u>	<u>LCSD</u>	<u>Spike</u>	<u>LCS</u>	<u>LCSD</u>	<u>LCS %</u>	<u>LCSD %</u>	<u>% Rec</u>	<u>LCS</u>	<u>LCSD</u>	<u>Relative %</u>	<u>RPD</u>	<u>RPD</u>	<u>Date</u>
	<u>Added</u>	<u>Added</u>	<u>Units</u>	<u>Result</u>	<u>Result</u>	<u>Recovery</u>	<u>Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Outliers</u>	<u>Difference</u>	<u>Limit</u>	<u>Outliers</u>	<u>Analyzed</u>
Arsenic	12.5	12.5	mg/L	12.4	12.3	98.9	98.0	80 - 120			0.916	20		7/31/2020
Barium	12.5	12.5	mg/L	12.8	12.6	102	101	80 - 120			1.26	20		7/31/2020
Cadmium	5.00	5.00	mg/L	5.22	5.18	104	104	80 - 120			0.666	20		7/31/2020
Chromium	12.5	12.5	mg/L	12.2	12.1	97.7	96.6	80 - 120			1.06	20		7/31/2020
Lead	12.5	12.5	mg/L	12.6	12.5	101	100	80 - 120			0.822	20		7/31/2020
Selenium	12.5	12.5	mg/L	12.5	12.6	100	100	80 - 120			0.0924	20		7/31/2020
Silver	1.25	1.25	mg/L	1.23	1.21	98.5	97.0	80 - 120			1.59	20		7/31/2020

Method Reference(s): EPA 6010C

EPA 3005

Preparation Date: 7/31/2020

Data File: 200731C

QC Number: 1

QC Batch ID: QC200731Tclp

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Method Blank Report

Client: Inventum Engineering, P.C.
Project Reference: Riverview
Lab Project ID: 203534
Matrix: TCLP Fluid

TCLP Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
1,1-Dichloroethene	<20.0	ug/L		8/4/2020 14:03
1,2-Dichloroethane	<20.0	ug/L		8/4/2020 14:03
2-Butanone	<100	ug/L		8/4/2020 14:03
Benzene	<20.0	ug/L		8/4/2020 14:03
Carbon Tetrachloride	<20.0	ug/L		8/4/2020 14:03
Chlorobenzene	<20.0	ug/L		8/4/2020 14:03
Chloroform	<20.0	ug/L		8/4/2020 14:03
Tetrachloroethene	<20.0	ug/L		8/4/2020 14:03
Trichloroethene	<20.0	ug/L		8/4/2020 14:03
Vinyl chloride	<20.0	ug/L		8/4/2020 14:03

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	92.9	70.9 - 139		8/4/2020 14:03
4-Bromofluorobenzene	84.9	59.5 - 129		8/4/2020 14:03
Pentafluorobenzene	100	89.3 - 117		8/4/2020 14:03
Toluene-D8	91.2	82.9 - 115		8/4/2020 14:03

Method Reference(s): EPA 8260C
EPA 5030
Data File: x72245.D
QC Batch ID: voax200804
QC Number: 1



PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client:

Inventum Engineering, P.C.

Project Reference:

Riverview

Lab Project ID:

203534

Matrix:

TCLP Fluid

TCLP Volatile Organics

<u>Analyte</u>	<u>Spike Added</u>	<u>Spike Units</u>	<u>LCS Result</u>	<u>LCS % Recovery</u>	<u>% Rec Limits</u>	<u>LCS Outliers</u>	<u>Date Analyzed</u>
1,1-Dichloroethene	20.0	ug/L	21.4	107	59.9 - 127		8/4/2020
1,2-Dichloroethane	20.0	ug/L	21.6	108	62.8 - 144		8/4/2020
Benzene	20.0	ug/L	21.1	105	71.3 - 128		8/4/2020
Carbon Tetrachloride	20.0	ug/L	21.4	107	59 - 136		8/4/2020
Chlorobenzene	20.0	ug/L	20.3	101	70.2 - 125		8/4/2020
Chloroform	20.0	ug/L	22.0	110	66.2 - 134		8/4/2020
Tetrachloroethene	20.0	ug/L	20.1	101	60.6 - 139		8/4/2020
Trichloroethene	20.0	ug/L	18.9	94.6	72.2 - 122		8/4/2020
Vinyl chloride	20.0	ug/L	19.2	96.1	60.8 - 149		8/4/2020
Method Reference(s):							
EPA 8260C							
EPA 5030							
Data File: x72244.D							
QC Number: 1							
QC Batch ID: voax200804							

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Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.

"E" = Result has been estimated, calibration limit exceeded.

"Z" = See case narrative.

"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.

"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.

"B" = Method blank contained trace levels of analyte. Refer to included method blank report.

"J" = Result estimated between the quantitation limit and half the quantitation limit.

"L" = Laboratory Control Sample recovery outside accepted QC limits.

"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.

"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.

"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*

"(1)" = Indicates data from primary column used for QC calculation.

"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.

"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

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Report Prepared Thursday, August 6, 2020

GENERAL TERMS AND CONDITIONS

LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation.

LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB will use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.

Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.

Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility.

LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

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Report Prepared Thursday, August 6, 2020



Client
Intention m 7/30/2025

CHAIN OF CUSTODY



PROJECT REFERENCE

Riviera

CLIENT: <i>John Black</i>		CLIENT:	LAB PROJECT ID 203534
ADDRESS: <i>481 Carlisle Dr.</i>		ADDRESS:	
CITY:	STATE:	CITY:	
ZIP:		STATE:	
		ZIP:	
PHONE:		PHONE:	Quotation #:
ATTN:		ATTN:	

Matrix Codes:

AA - Aqueous Liquid	WA - Water	DW - Drinking Water	SD - Solid	WP - Wipe	OL - Oil
NA - Non-Aqueous Liquid	WG - Groundwater	WW - Wastewater	SL - Sludge	PT - Paint	AR - Air

DATE COLLECTED	TIME COLLECTED	C O M P O S I T E	G R A B	SAMPLE IDENTIFIER	M A C A D R E S	N U N T B A I R E N E F S	TCL VOC's	TCL SVOC's	TCLP Herb	TCLP VOC's	TCLP SVOC's	TCLP Metals	TAL Metals	Paint Filter	Corrosivity	Ignitability	REMARKS	PARADIGM LAB SAMPLE NUMBER
7/27/20	1:30 pm		✓	ST08-07272020	SD	3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	TCLP Per per email m 8/4/20	01A
			✓	ST10-07272020	SD	3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		02A
																	A for TCLP extract	
																	m 7/30/2020	
																	client to send more sample or	
																	More sample rec'd on 8/3/2020	

Turnaround Time		Report Supplements	
Availability contingent upon lab approval; additional fees may apply.			
<i>Over 8/6/2020</i> Standard 5 day ☒ <i>2w 5-7/15/20</i> 10 day <i>1w 7/13/2020</i> ☐ Rush 3 day ☐ Rush 2 day ☐ Rush 1 day ☐ Date Needed _____ please indicate date needed: _____	None Required ☐ Batch QC ☒ Category A ☐ Category B ☐ Other ☐ please indicate package needed: _____	None Required ☐ Basic EDD ☐ INVSDEC EDD ☒ Other EDD ☐ please indicate EDD needed: _____	

Sampled By	<i>Leah Adenly</i>	Date/Time	<i>7/28/20 / 1:30pm</i>
Relinquished By	<i>Leah Adenly</i>	Date/Time	<i>7/28/20 /</i>
Received By	<i>Brian Zuck</i>	Date/Time	<i>7/28/20 8:30am</i>
Received By	<i>Michelle</i>	Date/Time	<i>7/30/2020 1043</i>
Received @ Lab By		Date/Time	

6°C *iced 7/30/2020 08:22*

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

2082



Chain of Custody Supplement

Client: InventiumCompleted by: mollykailLab Project ID: 203534Date: 7/30/2020

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt		
	Yes	No	N/A
Container Type	☒	☒ 5035	☐
Comments			
Transferred to method-compliant container	☐	☐	☒
Headspace (<1 mL)	☐	☒ TCEP VOA	☒
Comments			
Preservation	☐	☐	☒
Comments			
Chlorine Absent (<0.10 ppm per test strip)	☐	☐	☒
Comments			
Holding Time	☒	☐	☐
Comments			
Temperature	☒	☐	☒ met
Comments	ice cold		
Compliant Sample Quantity/Type	☒	☐	☐
Comments	More samples for OL was rec'd on 8/3/2020		



200731024

CHAIN OF CUSTODY

ADIRONDACK: ELAP ID: 141

REPORT TO:

INVOICE TO:

NEC

COMPANY: Paradigm Environmental	COMPANY: Same	LAB PROJECT #:	CLIENT PROJECT:
ADDRESS:	ADDRESS:	TURNAROUND TIME: (WORKING DAYS)	
CITY:	CITY:	STATE: ZIP:	
PHONE:	PHONE:	FAX:	
ATTN: Reporting	ATTN: Accounts Payable	STD 1 2 3 5	
COMMENTS: Please email results to reporting@paradigmenv.com		Date Due: 8/16/20	

REQUESTED ANALYSIS

DATE	TIME	C O M P O S I T E	G R A B	SAMPLE LOCATION/FIELD ID	M A T R I X	C O N T A I N E R	REMARKS	P A S A N
17/12/2020	1330			203534-01			TCR span at	
2				203534-01A			paradigm	
3				203534-02				
4				203534-02A				
5								
6								
7								
8								
9								
10								

LAB USE ONLY BELOW THIS LINE

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter NELAC Compliance

Comments:	Container Type:	Y ☐	N ☐
Comments:	Preservation:	Y ☐	N ☐
Comments:	Holding Time:	Y ☐	N ☐
Comments:	Temperature:	Y ☐	N ☐

Client

Sampled By	Date/Time
Relinquished By	Date/Time

Received By	Date/Time
Received @ Lab By	Date/Time

Total Cost:

P.L.F.

