

Tank Management and Closure Construction Completion Report Tank No. ST23

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:	arge 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.:	ST23
Grid Location:	J33 to L35
Location Notes:	ST23 was east of ST22 and west of ST24 in the Water Treatment Area in the southwest corner of the property.
Date of Closure:	11/3/2022
Tank Dimensions:	Vertical Cylinder 120-foot Diameter, 47-foot height
Storage Capacity:	4,000,000 gallons
Tank Exterior Coating Description:	Uncoated steel, riveted plate construction, with a steel roof.
Tank Piping Description:	Approximately 270-feet of 2- to- 4- inch diameter pipe was between ST22 and ST23.
Secondary Containment Description:	Earthen Berm. At initial inspection in September 2021 berm was heavily vegetated and held 1- to- 2-feet of water.
Contents Description:	A dark amber "tea" colored water with some floating NAPL blobs over a lower viscosity, black, possible tar material described as flowable when sampled. Some small pockets of water were trapped in the material.



3. AST Closure Procedure

Contractor:	OSC
Contractor Address:	140 Lee Street, Buffalo, New York 14210
Dates of Cleaning:	ST23 contents were stabilized from September to November 2022. ST23 base was sheared in November 2022.
Cleaning Method:	Tank contents were stabilized with lime kiln dust (LKD) and sawdust, shipped for disposal, and the tank base was mechanically scraped with a flat-bladed excavator bucket, skidsteer bucket, and hand tools.
Disposition of tank shell and piping:	Recycled ¹
Recycler or Disposal Facility Address:	Niagara Metals 4861 Packard Rd, Niagara Falls, NY 14304
Contents Volume Disposed:	2,260 tons of tank residuals, LKD, and sawdust were disposed.
Disposition of Contents & Hazardous Waste Code(s):	Contents were disposed as hazardous waste at RSI Environnemental. Benzene D018.
Disposal Facility Address:	RSI Environnemental/8439117 Canada Inc. 80 Rue des Mélèzes, Saint Ambroise, Quebec G7PZN4
Disposal Facility EPA No.:	1169045474
Hazardous Waste Transporter Name:	(1) Laidlaw Carriers Bulk, (2) Goulet Trucking Inc.
Hazardous Waste Transporter EPA No.:	(1) MID980619936, (2) MAC300006038

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¹ The ST23 tank body and all above grade piping was recycled. A small percentage of the total steel from ST21, ST22, and ST23 was grossly impacted and combined with a load of steel generated from other site demolition activities for microencapsulation. See Additional Notes below. The associated waste manifest is provided in Attachment C.



4. Inspection Summary

Tank closure inspection:	The ST23 tank base interior was scraped free of residuals. The base of ST23 was sheared and lifted in November 2022. ST23 was constructed on a layer of bedding sand that was stained grey, a concrete foundation was not observed. The riveted steel floor was in moderate to good condition as no major rust holes or cracks were observed.
Evidence of Leaks and/or additional observations:	Discontinuous blobs of possible tar material were observed in the secondary containment around the northwestern edge of the ST23 tank base. The locations of observed possible tar materials correspond to historic observations and the locations of former piping between ST22 and ST23. The investigation of the secondary containment is documented under separate cover in the BCP Preliminary ST21 to ST23 Investigation CCR (Inventum, June 2024).

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	9/9/2021, 9/10/2022, 4/5/2022, 4/8/2022
Decommissioning	September 2021 – December 2021, June 2022 – July 2022
Contents Removal & Disposal	September 2022 – November 2022
Cleaning	November 2022

Additional Notes:

Sampling:

An initial characterization sample of the solid and aqueous phases of ST23 was collected in September 2021. ALS was unable to perform the TCLP, Cyanide, or Flashpoint analysis based on matrix interference. A subsequent sample of the solid phase was collected for TCLP analysis with Paradigm laboratory in April 2022. The sample results indicate the characteristic of Benzene toxicity (D018). A subsequent sample of the aqueous phase was collected in April 2022 and analyzed for Cyanide and Flashpoint. The sample was also analyzed for Ammonia, as the September 2021 aqueous Ammonia concentration appeared anomalously high at 765,000 mg/L (76.5 %, likely a unit transcription error). The April 2022 sample Ammonia concentration was 618 mg/L. Attachment A Table 1 contains the solid phase analytical data and Table 2 contains the aqueous phase analytical data.

Tank Access & Preparation

The secondary containment area surrounding ST23 was densely vegetated and contained standing water from accumulated precipitation. All vegetation was cleared and grubbed in the fall of 2021.



Approximately 270-feet of piping was present at grade between the bases of ST23 and ST22 and north of the ST23 area. Approximately 220-feet was empty and recycled when the pipe rack north of ST21 and ST22 was removed in December 2021. The remaining 50-feet of piping connecting the two tank bases was left in place until the bases were dismantled.

The secondary containment water was treated and discharged to the Town of Tonawanda Publicly Owned Treatment Works (POTW) under Permit No. 331. A pretreatment skid was installed west of the Water Treatment Area that included an oil-water separator, bag filters, and two 3,000-pound granular activated carbon (GAC) vessels in series. The skid was also installed in preparation to treat the aqueous (water) phase from within ST21, ST22, and ST23.

After the vegetation was removed, the Water Treatment Area containment was brought to grade to provide heavy equipment access. A geotextile demarcation layer was placed within the secondary containment and brick fill from the Boiler House demolition was placed around ST21, ST22, and ST23 to allow for equipment mobility.

In June 2022, holes were cut by water-jetting at equidistant intervals into the sidewalls of ST23 to create ventilation. The roof of ST23 was prepared to be removed by making cuts at all connections between the roof and the sidewalls and making a cut along the diameter of the roof. Steel cables were attached to anchor points on the roof and to the bucket of an excavator. The roof was pulled off the tank body in two halves on June 29, 2022.

The removal of the roof exposed an interior support structure constructed of steel beams. The structure was in poor condition, with many of the beams containing rusted holes (Attachment A, Photograph No. 13). The structure was unstable, with primarily the configuration and weight of the structure keeping it in place. The tank sidewalls were dismantled, and the support structure was tipped on July 21, 2022.

Contents Management & Disposal

The aqueous phase was approved for pretreatment and discharge to the Town of Tonawanda Publicly Owned Treatment Works (POTW) under Permit No. 331. Approximately 100,000 gallons of water were pre-treated through the dedicated treatment skid and discharged to the POTW in the second half of 2022.

The possible tar tank residuals were stabilized inside the tank with the addition of lime kiln dust (LKD) and sawdust. Stabilization mixing and residual shipment occurred from September through November 2022. A total of 2,260 tons of stabilized ST23 residuals were transported and disposed at RSI Environnemental of Quebec.

Piping connecting the bases of ST22 and ST23, approximately 50 feet of 4-inch diameter steel, contained non-viscous possible tar residuals. This piping was stockpiled with other grossly impacted steel debris removed from the water treatment tanks which consisted of minor piping (ST21), pieces of collapsed roofing (ST22) and sections of structural support beams (ST23). The ST21, ST22, and ST23 debris was combined with grossly impacted piping from coke oven gas (COG) line removal and shipped in November 2022 as hazardous waste (Benzene, D018) for microencapsulation at Michigan Disposal Waste Treatment Facility of Belleville, Michigan.

Solidification of ST21-ST23 Secondary Containment Residuals Pile

After ST21, ST22, and ST23 were removed, the temporary brick fill from the former Boiler House was removed from the secondary containment, crushed, and stockpiled northeast of the Water Treatment Area. Brick fill and soils that exhibited gross contamination from possible-tar materials that were present in the



secondary containment were segregated in a stockpile just north of the containment area. This stockpile is referred to as the ST21-ST23 residuals pile in the approved Satellite Source Area Solidification Remedial Action Work Plan (RAWP) (Inventum, February 2025). The ST21-ST23 residual pile was solidified with Portland Cement and Breeze in accordance with the approved RAWP in April 2025.

Water Treatment Area Bioremediation

The Water Treatment Area has undergone bioremediation in accordance with the approved Remedial Action Work Plan (RAWP) Full-Scale Water Treatment Area Bioremediation (Inventum, October 2024) beginning in November 2024. The fill and near-surface clay has been treated with the addition of high-nitrogen fertilizer, moisture, and aeration. The RAWP objectives include confirmation that no characteristically hazardous material exists in the target area and that all potentially nuisance characteristics of the fill have been eliminated.

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.

ohn P. Black, P.E.

Date: 8.18.2025

License No: 067818.

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.



Attachment A – Analytical Tables



		Sample ID:	TK-SD-ST23	-09102021	ST23-TCLP-04052022		
	Sample Date:		9/10/2021		4/5/2022		
		Lab Report Number(s):		9413	221448		
Analytes	Lab Report	Lab Report Number(s).					
Allalytes		Contents:	Viscous	s, Black Sludge	, Possible Tar Material		
	Hazardous Waste Code(s):			DO	018		
	TCLP Standards (ug/L)	Units		ST23 - Water Treatment Tank			
VOCs SW8260C		,	,	,	,		
1,1,1-Trichloroethane (TCA)		ug/kg	<1000	U	NS		
1,1,2,2-Tetrachloroethane		ug/kg	<1000	U	NS		
1,1,2-Trichloroethane		ug/kg	<1000	U	NS		
1,1,2-Trichloro-1,2,2-Trifluoroethane		ug/kg	<1000	U	NS		
1,1-Dichloroethane		ug/kg	<1000	U	NS		
1,1-Dichloroethene		ug/kg	<1000	U	NS		
1,2,3-Trichlorobenzene		ug/kg	<1300	U	NS		
1,2,4-Trichlorobenzene		ug/kg	<1700	U	NS		
1,2-Dibromo-3-Chloropropane		ug/kg	<2300	U	NS		
1,2-Dibromoethane (Ethylene Dibromide)		ug/kg	<1000	U	NS		
1,2-Dichlorobenzene		ug/kg	<1000	U	NS		
1,2-Dichloroethane		ug/kg	<1000	U	NS		
1,2-Dichloropropane		ug/kg	<1000	U	NS		
1,3-Dichlorobenzene		ug/kg	<1000	U	NS		
1,4-Dichlorobenzene		ug/kg	<1000	U	NS		
1,4-Dioxane (P-Dioxane)		ug/kg	<65000	U	NS		
Methyl Ethyl Ketone (2-Butanone)		ug/kg	54300	J	NS		
2-Hexanone		ug/kg	<1000	U	NS		
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)		ug/kg	<1000	U	NS		
Acetone		ug/kg	<11000	U	NS		
Benzene		ug/kg	110000		NS		
Bromochloromethane		ug/kg	<1000	U	NS		
Bromodichloromethane		ug/kg	<1000	U	NS		
Bromoform		ug/kg	<1300	U	NS		
Bromomethane		ug/kg	<3500	U	NS		
Carbon Disulfide		ug/kg	<2100	U	NS		
Carbon Tetrachloride		ug/kg	<1700	U	NS		
Chlorobenzene		ug/kg	<1000	U	NS		
Chloroethane		ug/kg	<1200	U	NS		
Chloroform		ug/kg	<1200	U	NS		
Chloromethane		ug/kg	1900	J	NS		
Cyclohexane		ug/kg	<1300	U	NS		
Dibromochloromethane		ug/kg	<1000	U	NS		
Dichlorodifluoromethane		ug/kg	<1100	U	NS		
Methylene Chloride		ug/kg	<3300	U	NS		
Ethylbenzene		ug/kg	4100	J	NS		
Isopropylbenzene (Cumene)		ug/kg	<1000	U	NS		
Methyl Acetate		ug/kg	1700	J	NS		
Tert-Butyl Methyl Ether		ug/kg	<1000	U	NS		
Methylcyclohexane		ug/kg	<1000	U	NS		
Styrene		ug/kg	11000	J	NS		
Tetrachloroethylene (PCE)		ug/kg	<1100	U	NS		



		Sample ID:	TK-SD-ST2	3-09102021	ST23-TCLP-04052022	
	Sa	Sample Date:		/2021	4/5/2022	
		-				
	Lab Report	Lab Report Number(s):		9413	221448	
Analytes		Contents:	Visco	us, Black Sludge	, Possible Tar Material	
	Hazardous Was	ste Code(s):		D	018	
	TCLP Standards (ug/L)	Units	ST23 - Water Treatment Tank			
Toluene		ug/kg	78000		NS	
Trichloroethylene (TCE)		ug/kg	<1000	U	NS	
Trichlorofluoromethane		ug/kg	<1200	U	NS	
Vinyl Chloride		ug/kg	<1000	U	NS	
Cis-1,2-Dichloroethylene		ug/kg	<1200	U	NS	
Cis-1,3-Dichloropropene		ug/kg	<1000	U	NS	
m,p-Xylene		ug/kg	65000		NS	
O-Xylene (1,2-Dimethylbenzene)		ug/kg	17000	J	NS	
Trans-1,2-Dichloroethene		ug/kg	<1000	U	NS	
Trans-1,3-Dichloropropene		ug/kg	<1200	U	NS	
SVOCs SW8270D						
1,2,4,5-Tetrachlorobenzene		ug/kg	<130000	U	NS	
2,3,4,6-Tetrachlorophenol		ug/kg	<130000	U	NS	
2,4,5-Trichlorophenol		ug/kg	<120000	U	NS	
2,4,6-Trichlorophenol		ug/kg	<160000	U	NS	
2,4-Dichlorophenol		ug/kg	<140000	U	NS	
2,4-Dimethylphenol		ug/kg	280000	J	NS	
2,4-Dinitrophenol		ug/kg	<2200000	U	NS	
2,4-Dinitrotoluene		ug/kg	<260000	U	NS	
2,6-Dinitrotoluene		ug/kg	<160000	U	NS	
2-Chloronaphthalene		ug/kg	<160000	U	NS	
2-Chlorophenol		ug/kg	<120000	U	NS	
2-Methylnaphthalene		ug/kg	3100000		NS	
2-Methylphenol (O-Cresol)		ug/kg	480000	J	NS	
2-Nitroaniline		ug/kg	<160000	U	NS	
2-Nitrophenol		ug/kg	<170000	U	NS	
3,3'-Dichlorobenzidine		ug/kg	<130000	U	NS	
Cresols, M & P		ug/kg	1000000	J	NS	
3-Nitroaniline		ug/kg	<120000	U	NS	
4,6-Dinitro-2-Methylphenol		ug/kg	<940000	U	NS	
4-Bromophenyl Phenyl Ether		ug/kg	<190000	U	NS	
4-Chloro-3-Methylphenol		ug/kg	<120000	U	NS	
4-Chloroaniline		ug/kg	<110000	U	NS	
4-Chlorophenyl Phenyl Ether		ug/kg	<170000	U	NS	
4-Nitroaniline		ug/kg	<160000	U	NS	
4-Nitrophenol		ug/kg	<690000	U	NS	
Acenaphthene		ug/kg	290000	J	NS	
Acenaphthylene		ug/kg	2700000		NS	
Acetophenone		ug/kg	<140000	U	NS	
Anthracene		ug/kg	1700000		NS	
Atrazine		ug/kg	<230000	U	NS	
Benzo(A)Anthracene		ug/kg	1700000		NS	



		Sample ID:	TK-SD-ST23	-09102021	ST23-TCLP-04052022	
	Sa	Sample Date: Lab Report Number(s):		2021	4/5/2022 221448	
	Lab Report			9413		
Analytes		Contents:	Viscou	Viscous, Black Sludge, Possible Tar Materia		
	Hazardous Was	ste Code(s):)18	
	TCLP Standards (ug/L)	TCLP Standards Units ST23 - Water T			reatment Tank	
Benzaldehyde		ug/kg	<110000	U	NS	
Benzo(A)Pyrene		ug/kg	2000000		NS	
Benzo(B)Fluoranthene		ug/kg	2100000		NS	
Benzo(G,H,I)Perylene		ug/kg	1100000	J	NS	
Benzo(K)Fluoranthene		ug/kg	630000	J	NS	
Biphenyl (Diphenyl)		ug/kg	450000	J	NS	
Bis(2-Chloroisopropyl) Ether		ug/kg	<160000	U	NS	
Bis(2-Chloroethoxy) Methane		ug/kg	<210000	U	NS	
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)		ug/kg	<140000	U	NS	
Bis(2-Ethylhexyl) Phthalate		ug/kg	<840000	U	NS	
Benzyl Butyl Phthalate		ug/kg	<160000	U	NS	
Caprolactam		ug/kg	<110000	U	NS	
Carbazole		ug/kg	1200000		NS	
Chrysene		ug/kg	1900000		NS	
Di-N-Butyl Phthalate		ug/kg	<190000	U	NS	
Di-N-Octylphthalate		ug/kg	<360000	U	NS	
Dibenz(A,H)Anthracene		ug/kg	220000	J	NS	
Dibenzofuran		ug/kg	1600000		NS	
Diethyl Phthalate		ug/kg	<120000	U	NS	
Dimethyl Phthalate		ug/kg	<140000	U	NS	
Fluoranthene		ug/kg	6000000		NS	
Fluorene		ug/kg	2600000		NS	
Hexachlorobenzene		ug/kg	<180000	U	NS	
Hexachlorobutadiene		ug/kg	<110000	U	NS	
Hexachlorocyclopentadiene		ug/kg	<240000	U	NS	
Hexachloroethane		ug/kg	<120000	U	NS	
Indeno(1,2,3-C,D)Pyrene		ug/kg	1100000		NS	
Isophorone		ug/kg	<160000	U	NS	
N-Nitrosodi-N-Propylamine		ug/kg	<130000	U	NS	
N-Nitrosodiphenylamine		ug/kg	<300000	U	NS	
Naphthalene		ug/kg	16000000	D	NS	
Nitrobenzene		ug/kg	<170000	U	NS	
Pentachlorophenol		ug/kg	<1100000	U	NS	
Phenanthrene		ug/kg	8600000		NS	
Phenol		ug/kg	910000	J	NS	
Pyrene		ug/kg	4400000	-	NS	
· <i>F</i>		010			1 1 2	



Hazardous Waste Code(s):	21 ST23-TCLP-04052022 4/5/2022 221448 ludge, Possible Tar Material D018
Lab Report Number(s): R2109413 Analytes Contents: Viscous, Black S Hazardous Waste Code(s): TCLP Standards Units ST23 - W	221448 ludge, Possible Tar Material
Analytes Contents: Viscous, Black S Hazardous Waste Code(s): TCLP Standards Lipits ST23 - W	ludge, Possible Tar Material
Hazardous Waste Code(s): TCLP Standards Units ST23 - W	
TCLP Standards Units ST23 - W	D018
I linite I ST23 - W	
	ater Treatment Tank
TAL Metals SW6010	,
Aluminum mg/kg <18.9 U	NS
Antimony mg/kg <5.7 U	NS
Arsenic mg/kg <0.943 U	NS
Barium mg/kg <1.9	NS
Beryllium mg/kg <0.283	NS
Boron (RSI*) mg/kg 3.0 J	NS
Cadmium mg/kg 0.217 J	NS
Calcium mg/kg 45.1 J	NS
Chromium, Total mg/kg <0.943 U	NS
Cobalt mg/kg <4.7 U	NS
Copper mg/kg 0.491 J	NS
ron mg/kg 347	NS
_ead mg/kg 5.1	NS
Magnesium mg/kg <94.3 U	NS
Manganese mg/kg 1.9	NS
Molybdenum (RSI*) mg/kg <2.4 U	NS
Nickel mg/kg 5.5	NS
Potassium mg/kg <189 U	NS
Selenium mg/kg 5.2	NS
Silver mg/kg <0.943 U	NS
Godium mg/kg 19.4 J	NS
Sulfur (RSI, 6020A) mg/kg 3790	NS
Thallium mg/kg <0.943 U	NS
Fin (RSI*) mg/kg <47.2 U	NS
Jranium (RSI*) mg/kg <1.6 UC	NS
Vanadium mg/kg 12.2	NS
Zinc mg/kg 4.4	NS
Mercury SW7471	
Mercury mg/kg 0.060	NS

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	Lab Report	Lab Report Number(s): Contents: Hazardous Waste Code(s):		09413	221448		
Analytes				· • • • • • • • • • • • • • • • • • • •			
	Hazardous Was						
	TCLP Standards (ug/L)	Units		ST23 - Water	Treatment Tank		
TAL Metals SW6010	_	,		,			
Aluminum		mg/kg	<18.9	U	NS		
Antimony		mg/kg	<5.7	U	NS		
Arsenic		mg/kg	<0.943	U	NS		
Barium		mg/kg	<1.9		NS		
Beryllium		mg/kg	<0.283		NS		
Boron (RSI*)		mg/kg	3.0	J	NS		
Cadmium		mg/kg	0.217	J	NS		
Calcium		mg/kg	45.1	J	NS		
Chromium, Total		mg/kg	<0.943	U	NS		
Cobalt		mg/kg	<4.7	U	NS		
Copper		mg/kg	0.491	J	NS		
Iron		mg/kg	347		NS		
Lead		mg/kg	5.1		NS		
Magnesium		mg/kg	<94.3	U	NS		
Manganese		mg/kg	1.9		NS		
Molybdenum (RSI*)		mg/kg	<2.4	U	NS		
Nickel		mg/kg	5.5		NS		
Potassium		mg/kg	<189	U	NS		
Selenium		mg/kg	5.2		NS		
Silver		mg/kg	<0.943	U	NS		
Sodium		mg/kg	19.4	J	NS		
Sulfur (RSI, 6020A)		mg/kg	3790		NS		
Thallium		mg/kg	<0.943	U	NS		
Tin (RSI*)		mg/kg	<47.2	U	NS		
Uranium (RSI*)		mg/kg	<1.6	UC	NS		
Vanadium		mg/kg	12.2		NS		
Zinc		mg/kg	4.4		NS		
Mercury SW7471							
Mercury		mg/kg	0.060		NS		
Ammonia E350.1M							
Nitrogen, Ammonia (As N)		mg/kg	53.3		NS		
Cyanide SW9012B							
Cyanide		mg/kg	1.08		NS		



		Sample ID:	TK-SD-	ST23-09102021	ST23-TCLP-04052022	
	Sa	Sample Date:		/10/2021	4/5/2022	
	Lab Report	Lab Report Number(s):		R2109413	221448	
Analytes		Contents:		Viscous, Black Sludge, Possible Tar Material		
	Hazardous Was	ste Code(s):		Di	D18	
	TCLP Standards (ug/L)	Units		ST23 - Water 1	Freatment Tank	
PCBs 8082A						
PCB-1016 (Aroclor 1016)		ug/kg	<2000	U	NS	
PCB-1221 (Aroclor 1221)		ug/kg	<4000	U	NS	
PCB-1232 (Aroclor 1232)		ug/kg	<2000	U	NS	
PCB-1242 (Aroclor 1242)		ug/kg	<2000	U	NS	
PCB-1248 (Aroclor 1248)		ug/kg	<2000	U	NS	
PCB-1254 (Aroclor 1254)		ug/kg	<2000	U	NS	
PCB-1260 (Aroclor 1260)		ug/kg	<2000	U	NS	
Posticidos 0004P						
Pesticides 8081B		ug/kg	<1000	U	NS	
P,P'-DDD P,P'-DDE		ug/kg	<1000	U	NS NS	
P,P'-DDT		ug/kg ug/kg	<1000	U	NS	
Aldrin		ug/kg ug/kg	<1000	U	NS	
Dieldrin		ug/kg	<1000	U	NS	
Alpha Endosulfan		ug/kg	<1000	U	NS	
Beta Endosulfan		ug/kg	<1000	U	NS	
Endosulfan Sulfate		ug/kg	<1000	U	NS	
Endrin		ug/kg	<1000	U	NS	
Endrin Aldehyde		ug/kg	<1000	U	NS	
Endrin Ketone		ug/kg	<1000	U	NS	
Heptachlor		ug/kg	<1000	U	NS	
Heptachlor Epoxide		ug/kg	<1000	U	NS	
Methoxychlor		ug/kg	<1000	U	NS	
Toxaphene		ug/kg	<5000	U	NS	
Alpha Bhc (Alpha Hexachlorocyclohexane)		ug/kg	<1000	U	NS	
cis-Chlordane		ug/kg	<1000	U	NS	
Beta Bhc (Beta Hexachlorocyclohexane)		ug/kg	<1000	U	NS	
Delta BHC (Delta Hexachlorocyclohexane)		ug/kg	<1000	U	NS	
Gamma Bhc (Lindane)		ug/kg	<1000	U	NS	
Chlordane (Technical)		ug/kg	<1000	U	NS	
Herbicides SW8151A		1 .				
Acetic acid, (2,4,5-trichlorophenoxy)-		ug/kg	<100	U	NS	
Silvex (2,4,5-TP)		ug/kg	<100	U	NS	
2,4-D (Dichlorophenoxyacetic Acid)		ug/kg	<100	U	NS	
Dicamba		ug/kg	<100	U	NS	



	Sample ID:		TK-SD-ST23-09102021		ST23-TCLP-04052022		
	Sa	mple Date:			4/5/2022		
	Lab Report	Number(s):			221448		
Analytes		Contents:		Viscous, Black Sludge		, Possible Tar Material	
	Hazardous Wa	ste Code(s):		D0)18		
	TCLP Standards (ug/L) Units ST23 - Water Treatment Tank						
TCLP VOCs - SW8260C			,				
1,2-Dichloroethane	500	ug/l	NA		<200		
Chlorobenzene	100,000	ug/l	NA		<200		
Tetrachloroethylene (PCE)	700	ug/l	NA		<200		
Carbon Tetrachloride	500	ug/l	NA		<200		
Chloroform	6,000	ug/l	NA		<200		
Benzene	500	ug/l	NA		2160		
Vinyl Chloride	200	ug/l	NA		<200		
1,1-Dichloroethene	700	ug/l	NA		<200		
Methyl Ethyl Ketone (2-Butanone)	200,000	ug/l	NA		<1000		
Trichloroethylene (TCE)	500	ug/l	NA		<200		
TCLP SVOCs - SW8270D							
1,4-Dichlorobenzene	7,500	ug/l	NA		<4000	U	
2,4,5-Trichlorophenol	400,000		NA		<4000	U	
2,4,6-Trichlorophenol	2,000		NA		<4000	U	
2,4-Dinitrotoluene		ug/l	NA		<4000	U	
2-Methylphenol (O-Cresol)	200,000		NA		NS	0	
Cresols, M & P	200,000		NA		NS		
Cresols, M & F Cresols (as m,p,0-Cresol)	200,000	ug/l	NA		58900		
Hexachlorobenzene	120	ug/l	NA		<4000	U	
Hexachlorobutadiene			NA		<4000	U	
		ug/l	NA			U	
Hexachloroethane Nitrobenzene	3,000		NA		<4000 <4000	U	
	2,000		NA		<8000	U	
Pentachlorophenol Pyridine	100,000 5,000		NA		<8000 <4000	U	
rynume	3,000	ug/i	INA		\4000	U	
TCLP Metals - SW6010	<u>, </u>						
Arsenic	5,000	ug/l	NA		<500	U	
Barium	100,000	ug/l	NA		<500	U	
Cadmium	1,000	ug/l	NA		<25	U	
Chromium, Total	5,000	ug/l	NA		<500	U	
Lead	5,000	ug/l	NA		<500	U	
Selenium	1,000	ug/l	NA		<200	U	
Silver	5,000	ug/l	NA		<500	U	
TCLP Mercury- SW7470							
•	200	ug/l	NA		<2.0	U	
Mercury	200	ug/I	INA		\Z.U	-	



Table 1 Tank Management & Closure CCR

ST23 Analytical Results Riverview Innovation & Technology Campus, Inc.

Town of Tonawanda, New York

		Sample ID:	TK-SD-ST23	-09102021	ST23-TCI	.P-04052022
	Sa	mple Date:	9/10/	2021	4/5	5/2022
	Lab Report	Number(s):	R210	9413	22	21448
Analytes		Contents:	Viscous, Black Sludge, Possible Tar Material			
	Hazardous Was	Hazardous Waste Code(s): D018 TCLP Standards (ug/L) Units ST23 - Water Treatment		DO)18	
				reatment Tan	k	
TCLP Pesticides - 8081B	ļ.			,		
Chlordane	30	ug/l	NA		<2.00	U
Endrin	20	ug/l	NA		<1.00	U
Gamma Bhc (Lindane)	400	ug/l	NA		<1.00	U
Heptachlor	8	ug/l	NA		<1.00	U
Heptachlor Epoxide	8	ug/l	NA		<1.00	U
Methoxychlor	10,000	ug/l	NA		<1.00	U
Toxaphene	500	ug/l	NA		<20.0	U
TCLP Herbicides- SW8151A						
2,4-D (Dichlorophenoxyacetic Acid)	10,000	ug/l	NA		<5.0	U
Silvex (2,4,5-TP)	1,000		NA		<5.0	U
SW9045D						
На	<2,>=12.5	nh units	NA		NS	
p.,	12,7 12.3	pir arres	10.1		113	
Ignitability 1010MOD						
Ignitability		deg f	Not Ignitable		NS	
SW1010						
Flash Point	<140	deg f	Did not flash		NS	
Reactive Cyanide SW7.3.3.2						
Reactive Cyanide		mg/kg	<0.011	UC	NS	
Reactive Sulfide SW7.3.4.2						
Reactive Sulfide		mg/kg	6.4		NS	
Total Solids A2540G			1		ı	
Moisture, Percent		%	21.2		NS	
Total Solids		%	78.8		NS	



		Sample ID:	TK-SD-ST23-	09102021	ST23-TCLP-	04052022	
	Sa	Sample Date:		9/10/2021		4/5/2022	
	Lab Report	Number(s):	R2109)413	221448		
Analytes					, Possible Tar Ma	torial	
,		Contents:			•	teriai	
	Hazardous Was	ardous Waste Code(s): D018)18 		
	TCLP Standards (ug/L)	Units	:	ST23 - Water T	reatment Tank		
BTU/Higher Heat Value							
BTU		BTU/lb	17185		NS		
Notes:							
NS: Not Sampled							
NA: Sample collected, but not analyzed due to matrix	interference						
"<": Analyzed for but detected at or above the quanti	tation limit						
J: Analyte detected below quantitation limit							
C: Continuing Calibration Verification (CCV) below acc	ceptable limits						
S: Lab Control Sample (LCS) Spike recovery is below a	cceptable limits						
P: Concentration >40% difference between the two G	C columns.						
L: Laboratory Control Sample recovery outside accept	ted QC limits.						
D: Concentration is a result of a dilution, typically a se	econdary analysis	of the samp	le due to exceed	ing the calibrat	ion range.		
(RSI)*: Additional metals analytes requested by dispo	sal facility RSI						
Bold: Analyte was detected							
Bold with red highlight: Analyte exceeds TCLP standar	rds or is character	istically haz	ardous for corros	ivity, flammab	ility, or reactivity		



		Sample ID:	TK-LQ-ST23	-09092021	ST23-AQ-04082022
	Sa	mple Date:	9/9/2	2021	4/8/2022
	Lab Report	Number(s):	R2109	9410	221570
Analytes		Contents:		Water Over Possible Tar Ma	
,,					
	Hazardous Was	ste Code(s):		No.	one
	TCLP Standards (ug/L)	Units		ST23 - Water 1	reatment Tank
VOCs SW8260C		ı	1		,
1,1,1-Trichloroethane (TCA)		ug/L	<2.0	U	NS
1,1,2,2-Tetrachloroethane		ug/L	<2.0	U	NS
1,1,2-Trichloroethane		ug/L	<2.0	U	NS
1,1,2-Trichloro-1,2,2-Trifluoroethane		ug/L	<2.0	U	NS
1,1-Dichloroethane		ug/L	<2.0	U	NS
1,1-Dichloroethene		ug/L	<2.0	U	NS
1,2,3-Trichlorobenzene		ug/L	<2.5	U	NS
1,2,4-Trichlorobenzene		ug/L	<3.4	U	NS
1,2-Dibromo-3-Chloropropane		ug/L	<4.5	U	NS
1,2-Dibromoethane (Ethylene Dibromide)		ug/L	<2.0	U	NS
1,2-Dichlorobenzene		ug/L	<2.0	U	NS
1,2-Dichloroethane		ug/L	<2.0	U	NS
1,2-Dichloropropane		ug/L	<2.0	U	NS
1,3-Dichlorobenzene		ug/L	<2.0	U	NS
1,4-Dichlorobenzene		ug/L	<2.0	U	NS
1,4-Dioxane (P-Dioxane)		ug/L	<130	U	NS
Methyl Ethyl Ketone (2-Butanone)		ug/L	11	J	NS
2-Hexanone		ug/L	<2.0	U	NS
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)		ug/L	<2.0	U	NS
Acetone		ug/L	<50	U	NS
Benzene		ug/L	440		NS
Bromochloromethane		ug/L	<2.0	U	NS
Bromodichloromethane		ug/L	<2.0	U	NS
Bromoform		ug/L	<2.5	U	NS
Bromomethane		ug/L	<7.0	U	NS
Carbon Disulfide		ug/L	<4.2	U	NS
Carbon Tetrachloride		ug/L	<3.4	U	NS
Chlorobenzene		ug/L	<2.0	U	NS
Chloroethane		ug/L	<2.3	U	NS
Chloroform		ug/L	<2.4	U	NS
Chloromethane		ug/L	<2.8	U	NS
Cyclohexane		ug/L	<2.6	U	NS
Dibromochloromethane		ug/L	<2.0	U	NS
Dichlorodifluoromethane		ug/L	<2.1	U	NS
Methylene Chloride		ug/L	<6.5	U	NS
Ethylbenzene		ug/L	4.4	J	NS
Isopropylbenzene (Cumene)		ug/L	<2.0	U	NS
Methyl Acetate		ug/L	<3.3	U	NS
Tert-Butyl Methyl Ether		ug/L	<2.0	U	NS
Methylcyclohexane		ug/L	<2.0	U	NS
Styrene		ug/L	14	J	NS
Tetrachloroethylene (PCE)		ug/L	<2.1	U	NS



Sample Date: 9/9/2021 A/8/2022 Lab Report Number(s): R2109410 221570 Contents: Water Over Possible Tar Material Hazardous Waste Code(s): None TCLP Standards Units ST23 - Water Treatment Tank Units Uni			Sample ID:	TK-LQ-ST23	-09092021	ST23-AQ-04082022	
Lab Report Number(s): R2109410 221570		Sa				·	
Contents: Water Over Possible Tar Material Hazardous Waste Code(s): None TCLP Standards (ug/L) 170			•				
Hazardous Waste Code(s): None		Lab Report	Number(s):	R2109	9410	221570	
TCLP Standards	Analytes		Contents:	W	Water Over Possible Tar Material		
Company Comp		Hazardous Wa	ste Code(s):		No	one	
Trichloroethylene (TCE) ug/L <2.0			Units		ST23 - Water 1	reatment Tank	
Trichlorofluoromethane ug/L <2.4	Toluene		ug/L	170		NS	
Vinyl Chloride ug/L <2.0 U NS Cis-1,2-Dichloroethylene ug/L <2.3	Trichloroethylene (TCE)		ug/L	<2.0	U	NS	
Cis-1,2-Dichloroethylene ug/L <2.3	Trichlorofluoromethane		ug/L	<2.4	U	NS	
Cis-1,3-Dichloropropene ug/L <2.0	Vinyl Chloride		ug/L	<2.0	U	NS	
m,p-Xylene ug/L 63 NS O-Xylene (1,2-Dimethylbenzene) ug/L 19 J NS Trans-1,2-Dichloroethene ug/L <2.0	Cis-1,2-Dichloroethylene		ug/L	<2.3	U	NS	
D-Xylene (1,2-Dimethylbenzene)	Cis-1,3-Dichloropropene		ug/L	<2.0	U	NS	
Trans-1,2-Dichloroethene	m,p-Xylene		ug/L	63		NS	
Trans-1,2-Dichloroethene ug/L <2.0	O-Xylene (1,2-Dimethylbenzene)			19	J	NS	
Trans-1,3-Dichloropropene Ug/L <2.3 U NS	Trans-1,2-Dichloroethene			<2.0	U	NS	
SYOCs SW8270D 1,2,4,5-Tetrachlorobenzene	Trans-1,3-Dichloropropene			<2.3	U	NS	
1,2,4,5-Tetrachlorobenzene							
2,3,4,6-Tetrachlorophenol ug/L <120	SVOCs SW8270D	•	<u>'</u>				
2,4,5-Trichlorophenol	1,2,4,5-Tetrachlorobenzene		ug/L	<120	U	NS	
2,4,5-Trichlorophenol	2,3,4,6-Tetrachlorophenol		ug/L	<120	U	NS	
2,4,6-Trichlorophenol ug/L <140 U NS				<110	U	NS	
2,4-Dichlorophenol ug/L <130				<140	U	NS	
2,4-Dimethylphenol ug/L 2300 NS 2,4-Dinitrophenol ug/L <2000				<130	U	NS	
2,4-Dinitrophenol ug/L <2000	2,4-Dimethylphenol			2300		NS	
2,4-Dinitrotoluene ug/L <240	• •			<2000	U	NS	
2,6-Dinitrotoluene ug/L <140	· · · · · · · · · · · · · · · · · · ·			<240	U	NS	
2-Chloronaphthalene ug/L <140	2,6-Dinitrotoluene			<140	U	NS	
2-Chlorophenol ug/L <110	2-Chloronaphthalene			<140	U	NS	
2-Methylnaphthalene ug/L 810 J NS 2-Methylphenol (O-Cresol) ug/L 9900 NS 2-Nitroaniline ug/L <140				<110	U	NS	
2-Methylphenol (O-Cresol) ug/L 9900 NS 2-Nitroaniline ug/L <140				810	J	NS	
2-Nitroaniline ug/L <140	· '			9900			
2-Nitrophenol ug/L <150	,, , , ,			<140	U		
3,3'-Dichlorobenzidine ug/L <120	2-Nitrophenol			<150	U	NS	
Cresols, M & P ug/L 28000 NS 3-Nitroaniline ug/L <110	· · · · · · · · · · · · · · · · · · ·				U	NS	
3-Nitroaniline ug/L <110							
4,6-Dinitro-2-Methylphenol ug/L <870					U		
4-Bromophenyl Phenyl Ether ug/L <170							
4-Chloro-3-Methylphenol ug/L <110							
4-Chloroaniline ug/L <100							
4-Chlorophenyl Phenyl Ether ug/L <150							
4-Nitroaniline ug/L <140							
4-Nitrophenol ug/L <640							
Acenaphthene ug/L <140 U NS							
	·						
Acetophenone ug/L <130 U NS					U		
Anthracene ug/L 490 J NS					<u>, </u>		
Atrazine ug/L <210 U NS					U		
Benzo(A)Anthracene ug/L 500 J NS							



		Sample ID:	TK-LQ-ST23	-09092021	ST23-AQ-04082022	
	Sa	mple Date:	9/9/2	2021	4/8/2022	
	Lab Report	Lab Report Number(s):		9410	221570	
Analytes		Contents:	Water Over Possible Tar		sible Tar Material	
	Hazardous Was	Hazardous Waste Code(s):		No	one	
	TCLP Standards (ug/L) Units			Freatment Tank		
Benzaldehyde		ug/L	<100	U	NS	
Benzo(A)Pyrene		ug/L	540	J	NS	
Benzo(B)Fluoranthene		ug/L	550	J	NS	
Benzo(G,H,I)Perylene		ug/L	330	J	NS	
Benzo(K)Fluoranthene		ug/L	230	J	NS	
Biphenyl (Diphenyl)		ug/L	<140	U	NS	
Bis(2-Chloroisopropyl) Ether		ug/L	<140	U	NS	
Bis(2-Chloroethoxy) Methane		ug/L	<190	U	NS	
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)		ug/L	<130	U	NS	
Bis(2-Ethylhexyl) Phthalate		ug/L	<780	U	NS	
Benzyl Butyl Phthalate		ug/L	<140	U	NS	
Caprolactam		ug/L	<100	U	NS	
Carbazole		ug/L	830	J	NS	
Chrysene		ug/L	670	J	NS	
Di-N-Butyl Phthalate		ug/L	<170	U	NS	
Di-N-Octylphthalate		ug/L	<330	U	NS	
Dibenz(A,H)Anthracene		ug/L	<110	U	NS	
Dibenzofuran		ug/L	460	J	NS	
Diethyl Phthalate		ug/L	<110	U	NS	
Dimethyl Phthalate		ug/L	<130	U	NS	
Fluoranthene		ug/L	1400		NS	
Fluorene		ug/L	740	J	NS	
Hexachlorobenzene		ug/L	<160	U	NS	
Hexachlorobutadiene		ug/L	<100	U	NS	
Hexachlorocyclopentadiene		ug/L	<220	U	NS	
Hexachloroethane		ug/L	<110	U	NS	
Indeno(1,2,3-C,D)Pyrene		ug/L	300	J	NS	
Isophorone		ug/L	<140	U	NS	
N-Nitrosodi-N-Propylamine		ug/L	<120	U	NS	
N-Nitrosodiphenylamine		ug/L	<270	U	NS	
Naphthalene		ug/L	3800		NS	
Nitrobenzene		ug/L	<150	U	NS	
Pentachlorophenol		ug/L	<970	U	NS	
Phenanthrene		ug/L	2300		NS	
Phenol		ug/L	26000		NS	
Pyrene		ug/L	1100		NS	
ryrene		46/ L	1100		145	



Sample Date: 9/9/2021 4/8/2022 Lab Report Number(s): R2109410 221570	2022
Contents: Water Over Possible Tar Material	
Hazardous Waste Code(s): None	
TCLP Standards (ug/L)	
TCLP Standards (ug/L)	
TAL Metals SW6010 Aluminum ug/L 2480 NS Antimony ug/L <60.0 U NS Arsenic ug/L 17.3 NS Barium ug/L 39.6 NS Beryllium ug/L 0.200 J NS Boron (RSI)* ug/L 404 NS Cadmium ug/L 1.8 J NS Calcium ug/L 29000 NS Chromium, Total ug/L 40.3 NS Cobalt ug/L 9.4 J NS Copper ug/L 34.3 NS Iron ug/L 29400 NS Lead ug/L 111 NS	
Antimony ug/L <60.0 U NS Arsenic ug/L 17.3 NS Barium ug/L 39.6 NS Beryllium ug/L 0.200 J NS Boron (RSI)* ug/L 404 NS Cadmium ug/L 1.8 J NS Calcium ug/L 29000 NS Chromium, Total ug/L 40.3 NS Cobalt ug/L 9.4 J NS Copper ug/L 34.3 NS Iron ug/L 29400 NS Lead ug/L 111 NS	
Antimony ug/L <60.0	
Arsenic ug/L 17.3 NS Barium ug/L 39.6 NS Beryllium ug/L 0.200 J NS Boron (RSI)* ug/L 404 NS Cadmium ug/L 1.8 J NS Calcium ug/L 29000 NS Chromium, Total ug/L 40.3 NS Cobalt ug/L 9.4 J NS Copper ug/L 34.3 NS Iron ug/L 29400 NS Lead ug/L 111 NS	
Barium ug/L 39.6 NS Beryllium ug/L 0.200 J NS Boron (RSI)* ug/L 404 NS Cadmium ug/L 1.8 J NS Calcium ug/L 29000 NS Chromium, Total ug/L 40.3 NS Cobalt ug/L 9.4 J NS Copper ug/L 34.3 NS Iron ug/L 29400 NS Lead ug/L 111 NS	
Beryllium ug/L 0.200 J NS Boron (RSI)* ug/L 404 NS Cadmium ug/L 1.8 J NS Calcium ug/L 29000 NS Chromium, Total ug/L 40.3 NS Cobalt ug/L 9.4 J NS Copper ug/L 34.3 NS Iron ug/L 29400 NS Lead ug/L 111 NS	
Boron (RSI)* ug/L 404 NS Cadmium ug/L 1.8 J NS Calcium ug/L 29000 NS Chromium, Total ug/L 40.3 NS Cobalt ug/L 9.4 J NS Copper ug/L 34.3 NS Iron ug/L 29400 NS Lead ug/L 111 NS	
Cadmium ug/L 1.8 J NS Calcium ug/L 29000 NS Chromium, Total ug/L 40.3 NS Cobalt ug/L 9.4 J NS Copper ug/L 34.3 NS Iron ug/L 29400 NS Lead ug/L 111 NS	
Calcium ug/L 29000 NS Chromium, Total ug/L 40.3 NS Cobalt ug/L 9.4 J NS Copper ug/L 34.3 NS Iron ug/L 29400 NS Lead ug/L 111 NS	
Chromium, Total ug/L 40.3 NS Cobalt ug/L 9.4 J NS Copper ug/L 34.3 NS Iron ug/L 29400 NS Lead ug/L 111 NS	
Cobalt ug/L 9.4 J NS Copper ug/L 34.3 NS Iron ug/L 29400 NS Lead ug/L 111 NS	
Copper ug/L 34.3 NS Iron ug/L 29400 NS Lead ug/L 111 NS	
Iron ug/L 29400 NS Lead ug/L 111 NS	
Lead ug/L 111 NS	
Manganese ug/L 1160 NS	
Molybdenum (RSI)* ug/L <25.0 J NS	
Nickel ug/L 10.0 J NS	
Potassium ug/L 2800 NS	
Selenium ug/L 45.3 NS	
Silver ug/L <10.0 U NS	
Sodium ug/L 104000 NS	
Sulfur (RSI)* (6010C) mg/L 642 C NS	
Thallium ug/L <10.0 U NS	
Vanadium ug/L 7.3 J NS	
Uranium (RSI)* (6020A)	
Zinc ug/L 147 NS	
3.	
Mercury SW7471	
Mercury ug/L 0.241 NS	
E350.1M	
Nitrogen, Ammonia (As N) mg/L 765000 618	
SW9012B	
Cyanide mg/L 164 0.769	



		Sample ID:	TK-LQ-ST23	-09092021	ST23-AQ-04082022	
	Sa	mple Date:	9/9/2	2021	4/8/2022	
	Lab Report	Number(s):	R2109410		221570	
Analytes		Contents:	Water Over Possible Tar Material			
	Hazardous Was	ste Code(s):		None		
	TCLP Standards (ug/L)	Units		ST23 - Water T	reatment Tank	
PCBs 8082A	,				,	
PCB-1016 (Aroclor 1016)		ug/L	<0.50	U	NS	
PCB-1221 (Aroclor 1221)		ug/L	<1.0	U	NS	
PCB-1232 (Aroclor 1232)		ug/L	<0.50	U	NS	
PCB-1242 (Aroclor 1242)		ug/L	<0.50	U	NS	
PCB-1248 (Aroclor 1248)		ug/L	<0.50	U	NS	
PCB-1254 (Aroclor 1254)		ug/L	<0.50	U	NS	
PCB-1260 (Aroclor 1260)		ug/L	<0.50	U	NS	
Pesticides 8081B						
P,P'-DDD		ug/L	<0.020	U	NS	
P,P'-DDE		ug/L	<0.020	U	NS	
P,P'-DDT		ug/L	<0.020	U	NS	
Aldrin		ug/L	<0.020	U	NS	
Dieldrin		ug/L	<0.020	U	NS	
Alpha Endosulfan		ug/L	<0.020	U	NS	
Beta Endosulfan		ug/L ug/L	<0.020	U	NS	
Endosulfan Sulfate		ug/L ug/L	<0.020	U	NS	
Endrin Endrin			<0.020	U	NS NS	
		ug/L		_		
Endrin Aldehyde		ug/L	<0.020	U	NS NS	
Endrin Ketone		ug/L	<0.020	-	NS NS	
Heptachlor		ug/L	<0.020	U	NS NS	
Heptachlor Epoxide		ug/L	<0.020	U	NS NS	
Methoxychlor		ug/L	<0.020	U	NS	
Toxaphene		ug/L	<0.50	U	NS	
Alpha Bhc (Alpha Hexachlorocyclohexane)		ug/L	<0.020	U	NS	
cis-Chlordane		ug/L	<0.020	U	NS	
Beta Bhc (Beta Hexachlorocyclohexane)		ug/L	<0.020	U	NS	
Delta BHC (Delta Hexachlorocyclohexane)		ug/L	<0.020	U	NS	
Gamma Bhc (Lindane)		ug/L	<0.020	U	NS	
Chlordane (Technical)		ug/L	<0.020	U	NS	
Herbicides SW8151A						
Acetic acid, (2,4,5-trichlorophenoxy)-		ug/L	<14	U	NS	
Silvex (2,4,5-TP)		ug/L	<12	U	NS	
2,4-D (Dichlorophenoxyacetic Acid)		ug/L	310	Р	NS	
Dicamba		ug/L	<12	U	NS	
SW9045D						
рН		ph units	7.51		NS	



		Sample ID:	TK-LQ-ST23-	09092021	ST23-AQ-04082022
	Sa	mple Date:	9/9/2	021	4/8/2022
	Lab Report	rt Number(s): R2109410		221570	
Analytes		Contents:	w	ater Over Poss	ible Tar Material
	Hazardous Was	ste Code(s):		No	one
	TCLP Standards	10 0000(5).			
	(ug/L)	Units	:	ST23 - Water T	reatment Tank
SW1010		,			,
Flash Point		deg f	NA		Did not flash
SW7.3.3.2	ı	ı	ı	Í	
Reactive Cyanide		mg/l	NA		NS
SW7.3.4.2	ı	I	ı	I	
Reactive Sulfide		mg/kg	NA		NS
BTU/High Heat Value					
вти		BTU/lb	585		NS
Notes:					
NS: Not Sampled					
NA: Sample collected, but not analyzed due to matrix	interference				
"<": Analyzed for but detected at or above the quanti	tation limit				
J: Analyte detected below quantitation limit					
C: Continuing Calibration Verification (CCV) below acc	ceptable limits				
S: Lab Control Sample (LCS) Spike recovery is below a	cceptable limits				
P: Concentration >40% difference between the two G	C columns.				
L: Laboratory Control Sample recovery outside accept	ed QC limits.				
D: Concentration is a result of a dilution, typically a se	condary analysis	of the samp	le due to exceed	ing the calibrat	ion range.
(RSI)*: Additional metals analytes requested by dispo	sal facility RSI				
Bold: Analyte was detected					
Bold with red highlight: Analyte exceeds TCLP standar	ds or is character	istically haz	ardous for corros	ivity, flammab	ility, or reactivity.



Attachment B – Photographic Log

Client Name: Date Photo was Taken: Project: RITC RITC 9/25/2020 Photo No. 1 **Direction Photo** Taken: View is east. **Description:** ST23 was one of three large water treatment tanks located on the southern property boundary. It was the eastern-most tank in the area, outlined in yellow. **Client Name: Date Photo was Taken:** Project: RITC RITC 9/9/2021 Photo No. 2 **Direction Photo** Taken: View is south. **Description:** The northern face of ST23. The tank was constructed of riveted steel and surrounded by dense vegetation.



Client Name:	Date Photo was Taken:	Project:
RITC	9/17/2021	RITC

Photo No. 3 Direction Photo Taken:

View is aerial.

Description:

ST23 and associated piping between ST23 and ST22 (center tank).



Client Name: RITC

Date Photo was Taken: 4/11/2022

Project: RITC

Photo No. 4 Direction Photo Taken:

View is south.

Description:

Piping between ST23 (left) and ST22 (right). Temporary backfill from the Boiler House is unloaded around the water treatment tanks (center, south).





Client Name:Date Photo was Taken:Project:RITC4/11/2022RITC

Photo No. 5
Direction Photo
Taken:

View is south.

Description:

Valves and piping on the western face of ST23. Possible tar residuals can be observed and are outlined in yellow.



Client Name: RITC Date Photo was Taken: 6/1/2022

Project: RITC

Photo No. 6 Direction Photo Taken:

View is southeast.

Description:

The roof of ST23 is inspected in preparation for dismantlement. No major structural defects are observed.





Client Name:Date Photo was Taken:Project:RITC6/21/2022RITC

Photo No. 7
Direction Photo
Taken:

View is east.

Description:

A ventilation hole is cut by water jetting on the south face of ST23.



Client Name: RITC

Date Photo was Taken: 6/23/2022

Project: RITC

Photo No. 8
Direction Photo
Taken:

View is tank interior, south.

Description:

Ventilation holes are cut approximately equidistant around the perimeter of ST23. Structural support beams and horizontal piping can be observed.





Client Name:	Date Photo was Taken:	Project:
RITC	6/28/2022	RITC
Photo No. 9		

Photo No. 9 Direction Photo Taken:

View is south.

Description:

An operator attaches cables to the roof of ST23 in preparation for roof removal (traced in yellow).



Client Name: Date Photo was Taken: 6/29/2022

Project: RITC

Photo No. 10 Direction Photo

Taken:

View is southwest.

Description:

An operator prepares to pull off the roof of ST23.





Client Name: RITC	Date Photo was Taken: 6/29/2022	Project: RITC
Photo No. 11 Direction Photo Taken:		
View is south.		
Description: The roof of ST23 is successfully removed.		
Client Name: RITC	Date Photo was Taken: 7/7/2022	Project: RITC
Photo No. 12		
Direction Photo Taken:		
View is south.		
Description:		

MINAT



Project: **Client Name:** Date Photo was Taken: RITC 7/7/2022 RITC Photo No. 13 **Direction Photo** Taken: View is south. **Description:** The steel roof support structure of ST23. **Client Name: Date Photo was Taken: Project: RITC** 7/15/2022 RITC Photo No. 14 **Direction Photo** Taken: View is south. **Description:** ST23 sidewalls are dismantled to access the support structure.



Client Name:	Date Photo was Taken:	Project:
RITC	7/21/2022	RITC
Photo No. 15 Direction Photo		

View is south.

Taken:

Description:

ST23 side walls have been removed and the support structure is prepared to be removed.



Client Name: Date Photo was Taken:
RITC 7/21/2022

Project: RITC

Photo No. 16 Direction Photo Taken:

View is south.

Description:

The ST23 support structure is tipped.





Client Name: RITC	Date Photo was Taken: 8/29/2022	Project: RITC
Photo No. 17		
Direction Photo		
Taken:		
View is south.		
Description:		719
ST23 residuals consist	2/00/5	
of relatively low		
viscosity, black,	The state of the s	
possible tar sludge.		and the second
Client Name:	Date Photo was Taken:	Project:
RITC	9/16/2022	RITC
Photo No. 18	1.2	
Direction Photo		
Taken:		
View is east.		
Description:		
Description:		
Description: ST22 (foreground) and ST23 are mixed with		
ST22 (foreground) and		
ST22 (foreground) and ST23 are mixed with		
ST22 (foreground) and ST23 are mixed with		
ST22 (foreground) and ST23 are mixed with		



Client Name:	Date Photo was Taken:	Project:
RITC	9/23/2022	RITC
Photo No. 19		
Direction Photo Taken:		
View is north.		
Description:		
ST23 is mixed with		
sawdust and LKD.		
Client Name:	Date Photo was Taken:	Project:
RITC	10/24/2022	RITC
Photo No. 20		
Direction Photo		
Taken:		
View is aerial.		
	THE RESERVE THE PARTY OF THE PA	
Description:		
Description.		
ST23 is mixed with		
sawdust and LKD.		



Client Name:	Date Photo was Taken:	Project:
RITC	11/4/2022	RITC
Photo No. 21		
Direction Photo		
Taken:	the Company of the Company	
View is north.		
Description:		
The steel base of ST23 is lifted. The footprint of ST23 has been dewatered to allow preliminary visual observation of the bedding sand.		





Attachment C – Waste Manifests

7484

1	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number NYDD08413877	2. Page 1 of	3. Emergency Response	Phone	4. Manifest	Tracking N	412	5 J J	K		
	Rive	enerator's Name and Mailing Address Riverview Innovation and Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333 Generator's Site Address (if different than mailing address) 3875 River Road Tonawanda New York 14151										
	THE RESIDENCE OF THE PARTY OF T	ransporter 2 Company Name Laidlaw Carriers Bulk ransporter 2 Company Name					U.S. EPA ID Number MID980619936					
	7. Transporter 2 Company N						U.S. EPA ID Number					
	8. Designated Facility Name		ontal			U.S. EPA ID Number						
	Facility's Phone:	8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St, Ambroise QC G7P2N4 tv's Phone: 418-695-3302					116 904 5474					
	9a. HM 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Contair No.	10. Containers No. Type			13. Waste Codes				
GENERATOR	1 A//	UN 3077 Waste Environmentally hazardoustance, solid, NOS, 9 ,PG III (coal tar)	ıs	1	СМ	35	Т	D018				
GENE	2.					EST						
	3.											
								-				
	4.											
	14 Special Handling Instruct	ions and Additional Information										
	TOWN TOWNS	Northeast Inc., acting as the recognized trad 3- CDN Manifest : 4-	RSI TAG		2- A00 5-Fede	\$e #029672E × AS 400	21004	- T	0033	8150		
П	15. GENERATOR'S/OFFFI	6-ITN X 202209263 ROR'S CERTIFICATION: I hereby declare that the contents of this	65510	#ERG 171#	aribad abaya	by the preper of	inning name		STZ3			
	marked and labeled/pla Exporter, I certify that the	carded, and are in all respects in proper condition for transport accided contents of this consignment conform to the terms of the attached in inimization statement identified in 40 CFR 262.27(a) (if I am a large	ording to applicat d EPA Acknowled	ble international and national and state of Consent.	onal governme	ental regulations.	If export sh	ipment and I a	am the Prima	y Y		
	Generator's/Offeror's Printed/		Signa		1			Mon		Year		
+	16. International Shipments	ligan on behalf of RITC		on b	chalf	colle	TC	00	1 20	22		
E	Transporter signature (for ex	Import to U.S. ports only):	Export from U.S	Port of ent Date leavin	ry/exit: 💪 🔾 ng U.S.:	Colle		vetec				
띮	17. Transporter Acknowledgm)	1	11						
POR	Transporter 1 Printed/Typed !	Blackburn	Signa	/ Off		n_		Mon		Year 22		
TRANSPORTER	Transporter 2 Printed/Typed I	Name	Signa	ture				Mon		Year		
1	18. Discrepancy											
	18a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection							tion				
ILITY.	18b. Alternate Facility (or Ger	nerator)		Manifest Reference	Number:	U.S. EPA ID N	lumber					
FAC	Facility's Phone:					1						
DESIGNATED FACILITY	18c. Signature of Alternate Fa	C. L. CARL L. F. III. I. O. L.					Year					
ESIG		Management Method Codes (i.e., codes for hazardous waste treat	tment, disposal, a	and recycling systems)								
٥	+104	2.	3.			4.						
	20. Designated Facility Owne Printed/Typed Name	r or Operator: Certification of receipt of hazardous materials covered			18a			1/	41. 5	V		
EDA	Ocelyn Money Sacelyn Un 109/2/125								Year 22			
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Ple	ase pri	int or type.							n Approved. (OMB No. 205	0-003
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		rator's Phone: insporter 1 Company Name	Goulet Trucking Inc				U.S. EPA ID		00006038		
	7. Tra	nsporter 2 Company Name					U.S. EPA ID I		บบบบตรรฐ		
		signated Facility Name and ty's Phone:	Site Address 8439117 Canada INC /RSI Envir 80 rue des Mélèzes St. Ambroise 418-695-3302				U.S. EPA ID		904 5474		
	9a. HM	9b. U.S. DOT Description and Packing Group (if an	n (including Proper Shipping Name, Hazard Class, I iy))	D Number,	10. Contair No.	ners Type	11. Total Quantity	12. Unit Wt./Vol.	13. W	aste Codes	
GENERATOR -	×		1077 Environmentally hazardous solid NOS 9 PG III (coal tar)	substance.	1	CM	2.8 Est	T	0018		
GENE		2.					631				
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DESIGNALED FACILITY	18c. S	ignature of Alternate Facility					1		Mont	n Day	Year
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	Printed	d/Typed Name	Hust	Signature	opi ao nucu II) II(eff	100			Month	Day	Year
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li	7. Transporter 2 Compar	ny Name							U.S. EPA ID		יחסהיחסחי	00	
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Please print or type. Form Approved. OMB No. 2050-0039 1. Generator D Number 2. Page 1 of 3. Emergency Response Phone **UNIFORM HAZARDOUS** NYD008413877 **WASTE MANIFEST** 1-800-424-9300 5. Generator's Name and Mailing Address Generator's Site Address (if different than mailing address) Riverside Innovation & Technology Campus 3974 River Road Tonawanda New York 3875 140 Lee Street, Suite 200 Buffalo NY 14210 14151 716-356-3333 Generator's Phone: 6. Transporter 1 Company Name U.S. EPA ID Number Goulet Trucking Inc. MAC300006038 7. Transporter 2 Company Name U.S. EPA ID Number 8. Designated Facility Name and Site Address U.S. EPA ID Number 8439117 Canada INC /RSI Environnemental 116 904 5474 80 rue des Métèzes St. Ambroise QC G7P2N4 418-695-3302 Facility's Phone: 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 9a 11. Total 12. Unit 13. Waste Codes and Packing Group (if any)) НМ Quantity Wt./Vol. No. Туре 28 T UN 3077 Environmentally hazardous substance, D018 GENERATOR solid, NOS, 9, PG III (coal tar) 1 CM 3. 4. 14. Special Handling Instructions and Additional Information Secur-0033180 1-EQ Northeast Inc., acting as the recognized trader arranging for export 2- ADC #029672E21004 3- CDN Manifest 4- RSI TAG 5-Fedex AS 400 6-1TNX 2022 163 5407464 #ERG 171# 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 EPAAcknowledgment 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/Offeror's Printed/Typed Name Day Year Kirsten Colligan 16. International Shipments Port of entry/exit: Transporter signature (for exports only): Date leaving U.S.. 17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Day Year TRANSPORT 2 0 Transporter 2 Printed/Typed Name Signature Day 18. Discrepancy 18a. Discrepancy Indication Space Туре Quantity Residue Partial Rejection Full Rejection Manifest Reference Number: 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: DESIGNATED 18c. Signature of Alternate Facility (or Generator) Month Year Day 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Signature

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			3- CDN Manifest :	220920	RSI TAG	/_ #F	RG 171#	5-Fede	x AS 400			ST2.3	
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			80 rue des Mélèzes St, Ambroise QC	G7P2N4					116	904 5474	4	
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		ng Address view Innovation and Technology e Street, Suite 200 Buffalo NY 14 716-856-3333	Campus			Road Tona			
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	9b. U.S. DOT Descript and Packing Group (if	ion (including Proper Shipping Name, Hazard Clas any))	s, ID Number,	10. Contain	ers Type	11. Total Quantity	12. Unit Wt./Vol.	13. V	aste Codes
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DESIC		Management Method Codes (i.e., codes for hazard	lous waste treatment, disposal, al	nd recycling systems)		4.			

Please print or type. Form Approved. OMB No. 2050-0039 1. Generator ID Number **UNIFORM HAZARDOUS** NYD908413877 **WASTE MANIFEST** 1-800-424-9300 Generator's Site Address (if different than mailing address) 5. Generator's Name and Mailing Address 3875 River Road Tonawanda Riverview Innovation and Technology Campus New York 14151 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333 Generator's Phone: 6. Transporter 1 Company Name U.S. EPA ID Number Laidlaw Carriers Bulk MID980619936 U.S. EPA ID Number 7. Transporter 2 Company Name 8. Designated Facility Name and Site Address U.S. EPA ID Number 8439117 Canada INC /RSI Environnemental 116 904 5474 80 rue des Mélèzes St, Ambroise QC G7P2N4 418-695-3302 Facility's Phone: 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 11. Total 12. Unit Waste Codes and Packing Group (if any)) Wt./Vol. HM No. Type Quantity 35 D018 UN 3077 Waste Environmentally hazardous GENERATOR substance, solid, NOS, 9, PG III (coal tar) EST 2. 14. Special Handling Instructions and Additional Information Sacur 2- AOC #029672E21004 0033139 1-EQ Northeast Inc., acting as the recognized trader arranging for export 5-Fedex AS 400 3- CDN Manifest 4- RSI TAG 6-ITN X 23220926729061 #ERG 171# 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. Month Year Kirsten Collican 16. International Shipments Port of entry/exit: import to U.S. Export from U.S. Transporter signature (for exports only): Date leaving U.S.: 17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Month Dav Signature Year TRANSPORT 26 Transporter 2 Printed/Typed Name Month Year Signature 18. Discrepancy 18a. Discrepancy Indication Space Type Full Rejection Quantity Residue Partial Rejection Manifest Reference Number: U.S. EPA ID Number 18b. Alternate Facility (or Generator) Facility's Phone: DESIGNATED 18c. Signature of Alternate Facility (or Generator) Month Day Year 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 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 Signature

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Form Approved. OMB No. 2050-0039 Please print or type. 4. Manifest Tracking Number 2. Page 1 of 3. Emergency Response Phone 1. Generator ID Number UNIFORM HAZARDOUS 1-800-424-9300 **WASTE MANIFEST** Generator's Site Address (if different than mailing address) 5. Generator's Name and Mailing Address Riverview Innovation and Technology Campus 3875 River Road Tonawanda New York 14151 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333 Generator's Phone: U.S. EPA ID Number 6. Transporter 1 Company Name MID980619936 Laidlaw Carriers Bulk U.S. EPA ID Number 7. Transporter 2 Company Name 8. Designated Facility Name and Site Address U.S. EPA ID Number 8439117 Canada INC /RSI Environnemental 116 904 5474 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302 Facility's Phone: 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 11. Total 12. Unit 13. Waste Codes Quantity Wt./Vol. and Packing Group (if any)) Nο. Type 0018 35 UN 3077 Waste Environmentally hazardous GENERATOR substance, solid, NOS, 9, PG III (coal tar) 1 CM ST 3. 14. Special Handling Instructions and Additional Information Seculo 2- AOC #029672E21004 0033203 1-EQ Northeast Inc., acting as the recognized trader arranging for export. 5-Fedex AS 400 4- RSI TAG 3- CDN Manifest #ERG 171# 6-ITN x 20220927792885 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. behalf of RITC Cacolle pro-16. International Shipments Export from U.S. Port of entry/exit: Import to U.S. Date leaving U.S.: Transporter signature (for exports only): 17. Transporter Acknowledgment of Receipt of Materials **FRANSPORTER** Signature Month Day Year Transporter 1 Printed/Typed Name Month Year Transporter 2 Printed/Typed Name 18. Discrepancy 18a. Discrepancy Indication Space Туре Full Rejection Partial Rejection Residue Quantity Manifest Reference Number: U.S. EPA ID Number 18b. Alternate Facility (or Generator) Facility's Phone: Year Day 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) 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Signature Printed/Typed Name

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5. Generator's Name and Mailing Address Riverview Innovation and Technology Campus 140 Lee Street Suite 200 Buffalo NY 14210 716-856-3333 Generator's Phone: 8. Transporter 1 Company Name Laidlaw Carriers Bulk. 7. Transporter 2 Company Name U.S. EPA ID Number 8. Designated Facility Name and Site Address 9. Separator's Site Address (if different than mailing address) 3875 River Road Tonawanda York 14151 1. Separator's Site Address (if different than mailing address) 3875 River Road Tonawanda York 14151 U.S. EPA ID Number U.S. EPA ID Number	894135 JJK New 107 10980619936 116 904 5474 Unit Vol. 13. Waste Codes 10018
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DESIGNATED FACILITY

Please print or type. Form Approved. OMB No. 2050-0039 1. Generator ID Number 3. Emergency Response Phone UNIFORM HAZARDOUS 2. Page 1 of NYD008413877 WASTE MANIFEST 800-424-9300 5. Generator's Name and Mailing Address Generator's Site Address (if different than mailing address) Riverside Innovation & Technology Campus 3874 River Road Tonawanda New York 3875 140 Lee Street. Suite 200 Buffalo NY 14210 14151 716-856-3333 Generator's Phone: 6. Transporter 1 Company Name U.S. EPA ID Number Goulet Trucking MAC300006038 7. Transporter 2 Company Name U.S. EPA ID Number 8. Designated Facility Name and Site Address U.S. EPA ID Number 8439117 Canada INC /RSI Environnemental 116 904 5474 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302 Facility's Phone: 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 9a 10. Containers 11. Total 12. Unit 13. Waste Codes and Packing Group (if any)) HM No. Туре Quantity Wt./Vol. GENERATOR UN 3077 Environmentally hazardous substance. 28 0018 solid, NOS, 9 .PG III (coal tar) 1 CM EST 14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc., acting as the recognized trader arranging for export. 2- ADD #829672E21804 D3Z423E ZZ.004 3- CDN Manifest 5-Fedex AS 400 4- RSI TAG #ERG 171# SECUR-T 0033192 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/Offeror's Printed/Typed Name Month Year Kirsten 16. International Shipments Export from U.S. Port of entry/exit: Transporter signature (for exports only): Date leaving U.S.: \ \ \ \ \ \ 17. Transporter Acknowledgment of Receipt of Materials TRANSPORTER Transporter 1 Printed/Typed Name Signature Month Year Transporter 2 Printed/Typed Name Signature Month 18. Discrepancy 18a. Discrepancy Indication Space Type Quantity Residue Partial Rejection Full Rejection Manifest Reference Number: FACILITY 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: DESIGNATED 18c. Signature of Alternate Facility (or Generator) Month Day Year 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 4. 20. Design ated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Signature EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

Please print or type. Form Approved. OMB No. 2050-0039 1. Generator ID Number 3. Emergency Response Phone 4. Manifest Trackii **UNIFORM HAZARDOUS** NYD008413877 **WASTE MANIFEST** 1-800-434-9300 5. Generator's Name and Mailing Address Generator's Site Address (if different than mailing address) Riverside Innovation & Technology Campus 3974 River Road Tonawanda New York 140 Lee Street, Suite 200 Buffalo NY 14210 3875 716-856-3333 Generator's Phone: 6. Transporter 1 Company Name U.S. EPA ID Number Croulet MAC 300006038 7. Transporter 2 Company Name U.S. EPA ID Number 8. Designated Facility Name and Site Address U.S. EPA ID Number 3439117 Canada INC /RSI Environnemental 116 904 5474 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302 Facility's Phone: 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 9a. 11. Total 12 Unit 13. Waste Codes and Packing Group (if any)) НМ Quantity Wt./Vol. No. Туре 28 GENERATOR UN 3077 Environmentally hazardous substance, D018 X solid, NOS. 9 .PG III (coal tar) 1 CM 14. Special Handling Instructions and Additional Information 2- AOC #029672521801 32423522004 1-EQ Northeast Inc., acting as the recognized trader arranging for export. 5-Fedex AS 400 3- CDN Manifest 4- RSI TAG 6-ITN y2022/10/831076 #ERG 171# SECUR-T 0033/83 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 EPAAcknowledgment 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/Offeror's Printed/Typed Name Month Year Day 16. International Shipments Import to U.S. Port of entry/exit: Transporter signature (for exports only): Date leaving U.S.: 17. Transporter Acknowledgment of Receipt of Materials Transporter & Printed/Typed Name: TRANSPORT Year Signature 1011 22 Transporter 2 Printed/Typed Name Signature Month 18. Discrepancy 18a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection Manifest Reference Number: 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: DESIGNATED 18c. Signature of Alternate Facility (or Generator) Month Day Year 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 20. Design and Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Signature

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Please print or type. Form Approved. OMB No. 2050-0039 1. Generator ID Number 2. Page 1 of 3. Emergency Response Phone 4. Manifest Tracking Number **UNIFORM HAZARDOUS WASTE MANIFEST** 5. Generator's Name and Mailing Address Generator's Site Address (if different than mailing address) Riverside Innovation & Technology Campus 3874 River Road Tonawanda New York 140 Lee Street, Suite 200 Buffalo NY 14210 14151 716-856-3333 Generator's Phone: 6. Transporter 1 Company Name U.S. EPA ID Number Joulet 7. Transporter 2 Company Name U.S. EPA ID Number 8. Designated Facility Name and Site Address U.S. EPA ID Number 8439117 Canada INC /RSI Environnemental 116 904 5474 80 rue des Mélèzes St. Ambroise GC G7P2Ná 418-695-3302 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 9a 11. Total 12. Unit 13. Waste Codes and Packing Group (if any)) HM Туре Quantity Wt./Vol. UN 3077 Environmentally hazardous substance GENERATOR X solid, NOS, 9, PG III (coal tar) CM 14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc., acting as the recognized trader arranging for export. 2- ADD #899499694004 632423E 22004 3- CDN Manifest 5-Fedex AS 400 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/Offeror's Printed/Typed Name Month Day Year 16. International Shipments Export from U.S. Import to U.S Port of entry/exit: Transporter signature (for exports only): Date leaving U.S.: 17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Signature Day Year VILLER Transporter 2 Printed/Typed Name Signature Month Day Year 18. Discrepancy 18a. Discrepancy Indication Space Partial Rejection Quantity Residue ☐ Full Rejection Manifest Reference Number: 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: DESIGNATED 18c. Signature of Alternate Facility (or Generator) Year Month Day 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

Month

Day

Year

4.

Signature

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

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

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1		FORM HAZARDOUS ASTE MANIFEST	1. Generator ID Number NYD0084138	77		ergency Response	9	4. Manifest 1	Tracking No	1422	1 J.	JK
	5. Ge	nerator's Name and Mailir Riv	ng Address rerside Innovation & Te	chnology Campus		tor's Site Address (4 River Road						
			e Street, Suite 200 Bu	ffalo NY 14210	387		4151					
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			contents of this consignment confo nimization statement identified in 4				II quantity gene	erator) is true.				
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1	UN	IFORM HAZARDOUS VASTE MANIFEST	1. Generator ID Number NYD098413877	*	Emergency Response	-9300	4. Manifest	Tracking No	ımber	5 JJ				
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	7. Ti	ransporter 2 Company Nam	e				U.S. EPA ID Number							
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Printed/Typed Name

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

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EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

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Printed Type Name

DESIGNATED FACILITY TO GENERATOR

Please print or type. Form Approved. OMB No. 2050-0039 Generator ID Number 4. Manifest Tracking Number **UNIFORM HAZARDOUS** NYD008413877 **WASTE MANIFEST** -800-424-9300 5. Generator's Name and Mailing Address Generator's Site Address (if different than mailing address) Riverside Innovation & Technology Campus 3874 River Road Tonawanda New York 140 Lee Street, Suite 200 Buffalo NY 14210 14151 716-856-3333 Generator's Phone: 6. Transporter 1 Company Name U.S. EPA ID Number Laidlaw Carriers Bulk MID980619936 7. Transporter 2 Company Name U.S. EPA ID Number 8. Designated Facility Name and Site Address U.S. EPA ID Number 8439117 Canada INC /RSI Environnemental 116 904 5474 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302 Facility's Phone: 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 11. Total 12. Unit and Packing Group (if any)) 13. Waste Codes HM Quantity Wt./Vol. No. UN 3077 Environmentally hazardous substance, 0018 GENERATOR 35 solid, NOS, 9.PG III (coal tar) 1 CM 2. 3. 4. 14. Special Handling Instructions and Additional Information 2-AOC #029672E21004 1-EQ Northeast Inc., acting as the recognized trader arranging for export. 3- CDN Manifest 4- RSI TAG 5-Fedex AS 400 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/Offeror's Printed/Typed Name Day Year. 16. International Shipments Export from U.S. Import to U.S. Port of entry/exit: Transporter signature (for exports only): Date leaving U.S.: 17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Signature Month Day Year 10 17 22 Transporter 2 Printed/Typed Name Month 18. Discrepancy 18a. Discrepancy Indication Space Туре Quantity Residue Partial Rejection Full Rejection Manifest Reference Number: 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: DESIGNATED 18c. Signature of Alternate Facility (or Generator) Month Day Year 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest occuping as noted in Item 184 Printed/Typed Name Signature EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. **DESIGNATED FACILITY**

DESIGNATED 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 4 20. Designated acility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Signature EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO GE

Signature

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

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

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	7. Tr	ansporter 2 Company Nam	ne						U.S. EPA ID I		8061993	6	
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7	16. In	temational Shipments	Import to			Export from U		Port of ent	ry/exit:	Locali	RI'	2C	0 31	22		
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1	18. Di	screpancy														
	18a. C	Discrepancy Indication Space	Qua	ntity	Туре			esidue		Partial Reje	ection		Full Reje	ction		
DESIGNAL ED PACIELLE	18b. Alternate Facility (or Generator) Manifest Reference Number:								Number:	U.S. EPA ID N	umber					
יאוועוני	Facility's Phone: 18c. Signature of Alternate Facility (or Generator)									Moi	nth Day	Year				
	19. Ha	azardous Waste Report Mana	agement Method	Codes (i.e., codes f	or hazardous waste treat	ment, disposal,	, and recycling	g systems)		4.	-					
	20. De	esignated Facility Owner or C	Derator Cortifor	ation of receipt of he	zardous matorials	id by the man'	1	natod to 11	40-							
	Printe	d/Typed Name	LI LI	Autori or receipt of ha	zardous materials covere		est except as ature	noted in Item	18a			Mor	th Day	Year		
A	Form	8700-22 (Rev. 12-17) P	revious edition	s are obsolete.			-			DESIGNA"	TED FA	CILITY T	O GENE	RATOR		

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1	V	VASTE MANIFEST	1 Generator ID Number NYD908413877	2. Page 1 of	3. Emergency Respons	4-930	4. Manifest	Tracking N	427			
			g Address erside Innovation & Technology Campus e Street, Suite 200 Buffalo NY 14210 716-856-3333		Generator's Site Address 3874 River Roa 3875	(if different that d Tonawa 14151	n mailing addres nda New Y	ork				
Ш	6. T	ransporter 1 Company Name	Laidlaw Carriers Bulk				U.S. EPA ID Number					
	7. T i	ransporter 2 Company Name	e				U.S. EPA ID Number					
П	8. D	esignated Facility Name and					U.S. EPA ID N	lumber				
	Faci	ility's Phone:	8439117 Canada INC /RSI Environnem 80 rue des Mélèzes St, Ambroise QC G7 418-695-3302				1	116	904 547	4		
Н	9a.	1	on (including Proper Shipping Name, Hazard Class, ID Number,		10. Contai	ners	11. Total	. 12. Unit	sit			
	НМ	and Packing Group (if a	ny))		No.	Quantity	Wt./Vol.	L3 Wasie Lones				
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- GENE		2.										
		3.								H-137		
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Н	14 9	Special Handling Instructions	and Additional Information									
	15.	GENERATOR'S/OFFEROP marked and labeled/placard Exporter, I certify that the or	Northeast Inc., acting as the recognized trading as the recognized trading as the recognized trading as CDN Manifest 6-ITN X 20 2 11 01 R'S CERTIFICATION: I hereby declare that the contents of this ded, and are in all respects in proper condition for transport accontents of this consignment conform to the terms of the attache mization statement identified in 40 CFR 262.27(a) (if I am a large	Seciloscribed above lional governme								
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1	-	Discrepancy										
	18a.	Discrepancy Indication Span	Ce Quantity Type		Residue		Partial Reje	ection		Full Reje	ection	
ΣĮ.	18b.	Alternate Facility (or General	ator)		Manifest Reference	Number:	U.S. EPA ID N	umber				
FACIL	Facil	lity's Phone:					land.					
DESIGNATED FACILITY		Signature of Alternate Facili	ty (or Generator)						Мо	nth Day	Year	
SIGN	19. F	Hazardous Waste Report Ma	nagement Method Codes (i.e., codes for hazardous waste trea	tment, disposa	ıl, and recycling systems)						L	
E	1.	Ilmin.	2.	3.	7		4.					
	20. [Designated Facility Owner or	Operator: Certification of receipt of hazardous materials covere	ed by the mani	fest except as noted in Item	n 18a						
	Print	ed/Typed Name	The section of the se		nature	100			Moi	nth Day	Year	
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20. Design ed acility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest excess as noted in Item 18a

Month

-1		or type.	1. Generator ID N	lumber D008413877		2. Page 1 of	3. Emerge	ncy Response	Phone	4. Manifest	Tracking N	umber	I. OMB No	
		ASTE MANIFEST	NY	D008413877		i i	الري	1011139		02	389	1427	74 J	JK
	5. Ger	erator's Name and Mailin Rive	g Address E rside Innov	ation & Techno	ology Campus		Generator's	Site Address	(if different that	n mailing addres	(2)			
П		140 Lea	-	ite 200 Buffalo	NY 14210		3875	1	14151					
	Gener	ator's Phone:	716-	856-3333		1								
Γ	6. Trar	nsporter 1 Company Nam	Laidlaw	Carriers Bulk						U.S. EPA ID N	lumber			
ŀ	7 Teas	nsporter 2 Company Name								LIO EDVIDA		8061993	36	
ı	7. Irai	isporter 2 Company Name	3							U.S. EPA ID N	lumber			
ŀ	8. Des	ignated Facility Name and								U.S. EPA ID N	lumber			
				Canada INC /RS							114	904 547	14	
1			on rue des	Mélèzes St, Ar 418-695-		/PZN4				o.	TTO	704 34	14	
ŀ	Facility	/'s Phone:												
	9a. HM	9b. U.S. DOT Description and Packing Group (if a		er Shipping Name, Hazi	ard Class, ID Number		-	10. Contair No.		11. Total Quantity	12. Unit Wt./Vol.	13	. Waste Cod	ies
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ı	14. Ор	•				Seci			3318		1007 -	S = 41 B C	3 15 3 4	00(1
ı		1-50	3- CDN Ma	c., acting as the anifest :		RSI TAG	ing ior e	жрогт.	5-Fedex	#029 <mark>672E</mark> 2 AS 400	±004 Q	3242.	5e 20	POO
				6-ITN	(20221/07	169693	#E	RG 171#					STZ	3
Γ	15. 0	SENERATOR'S/OFFERO	R'S CERTIFICATI	ON: I hereby declare t	hat the contents of thi	s consignment a	are fully and	accurately des	scribed above	by the proper sh	ipping nam	e, and are cla	assified, pad	kaged,
ı	Е	xporter, I certify that the c	ontents of this con	signment conform to the	e terms of the attache	ed EPA Acknowl	edgment of	Consent.			ii export sr	upment and	am une Pri	mary
ŀ		certify that the waste mini ator's/Offeror's Printed/Typ		t identified in 40 CFR 2	62.27(a) (if I am a lar		erator) or (b nature) (if I am a sma	III quantity gene	erator) is true.		Mc	onth Da	v Vo
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†	16. Int	ernational Shipments	Import t			Export from U	X	On Cont	try/exit:	1004	RI	621	1 10	112
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		ignature of Alternate Facil	ty (or Generator)									M	onth D	ay Ye
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	19. Ha	zardous Waste Report Ma	nagement Method		hazardous waste trea	atment, disposal	, and recycl	ing systems)						
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t	10 P	signated Facility Owner o	Onoreton Onto	wition of receipt of t		and hards . "	_/		- 40-					

1		IFORM HAZARDOUS NASTE MANIFEST 1. Generator ID Number NYD008413877		2. Page 1 of		gency Response		4. Manifest		427	5.1	IK
Ш		Generator's Name and Mailing Address			Generato	or's Site Address	(if different that			74.1	0.00	717
П		Riverside Innovation & Technol				r's Site Address River Roa		inda New \	/ork			
П		140 Lee Street, Suite 200 Buffalo 716-856-3333	NY 14210		387	5 1	4151					
П		nerator's Phone:										
П	6. Tr	ransporter 1 Company Name Laidlaw Carriers Bulk						U.S. EPA ID I				
Ш	7.7	ransporter 2 Company Name						II O EDAIDA		8061993	5	
П	7. 11	ransporter 2 company Name						U.S. EPA ID N	number			
П	8. D	esignated Facility Name and Site Address						U.S. EPA ID I	Number			
П		8439117 Canada INC /R								904 547	,	
Ш		80 rue des Mélèzes St, A 418-695-		P2N4					110	704 347	4	
П	Faci	ility's Phone:										
Ш	9a.	1 1 0 0 00 11	ard Class, ID Number,			10. Contain	ners	11. Total	12. Unit	13.1	Waste Codes	s
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Ш	14. 8	Special Handling Instructions and Additional Information					w -	T 003	33190)	- 271	muL
П		1-EQ Northeast Inc., acting as the 3- CDN Manifest :		der arrang RSI TAG	ging for	export.	2- AOC 5-Fedex	#029672E2 AS 400	1004	3242	3 E ZZ	.004
П					#	ERG 171#						
П	15.	6-ITN GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare	that the contents of this	consignment	are fully a	nd accurately des	scribed above	by the proper sh	nipping name	e, and are clas	sified, packa	aged,
П		marked and labeled/placarded, and are in all respects in proper con Exporter, I certify that the contents of this consignment conform to t	he terms of the attached	d EPA Acknowl	ledgment	of Consent.		-	. If export sh	ipment and I a	am the Prima	ary
П	Gon	I certify that the waste minimization statement identified in 40 CFR erator's/Offeror's Printed/Typed Name	262.27(a) (if I am a larg		nature	(b) (ifI am a sma	Il quantity gen	erator) is true.		Mor	th Day	Vens
Ш	V.	s is	£ 6 0 1	W #50	/ 8	/	.	lf of	0.5		ith Day	Year
Ť	16. 1	International Shipments Import to U.S.	If of RI	Export from U	X					111	107	UL
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出		Transporter Acknowledgment of Receipt of Materials										
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_	18b.	Alternate Facility (or Generator)			Ma	nifest Reference	Number:	U.S. EPA ID I	Number			
FACILITY		,										
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	19.1	Hazardous Waste Report Management Method Codes (i.e., codes fo	nazardous waste treat	tment, disposal	ii, and recy	young systems)		4.				
Ţ	1	4040		"	- 1			"				
	20. [Designated Facility Owner or Operator: Certification of receipt of haz	ardous materials covere	ed by the mani	ifest xcep	ot as noted in Item	18a	1				
	Print	ted Typed Name		Sign	navure					Moi	nth Day	Year
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	E MANIFEST		1 /	1-800-424		U2	389	421	6 Ju
5. Generate	or's Name and Mailing Ad	dress ide Innovation & Technology Campus		Generator's Site Address					
		treet, Suite 200 Buffalo NY 14210		PRO CO. LANS. PRO-	4151	diana i ana a	SH IS		
	240 000 3	716-856-3333	- 31		MIGI				
Generator's		/10-030-3333		TALL SHAPE			9.74	3 4 1	
6. Transpor	rter 1 Company Name	Laidlaw Carriers Bulk				U.S. EPA ID I	Number		
		STATE OF THE STATE					MID98	9061993	6
7. Transpor	rter 2 Company Name	N. N. Mariner, Marine	11112			U.S. EPA ID N	lumber		
8. Designat	ted Facility Name and Site		D)	7 P. Commission of the		U.S. EPA ID N	Number	Della Land	31
		439117 Canada INC /RSI Environnen					124	904 547	200
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Facility's Ph	hone:	418-695-3302				1			
9a. 9b.	. U.S. DOT Description (in	cluding Proper Shipping Name, Hazard Class, ID Number	r,	10. Contair	ers	11. Total	12. Unit	40	111 1 0 1
	d Packing Group (if any))			No.	Туре	Quantity	Wt./Vol.	13.	Waste Codes
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1	UNIFORM HAZA WASTE MANI		1. Generator ID No	mber 0008413877		2. Page 1 of	3. Emerger	Response	Phone J-930	0.0	Tracking N	umber	- war	JK
	5. Generator's Name Generator's Phone:	Riv	erside Innovi e Street, Suit	ation & Techno te 200 Buffalo 856-3333			Generator's	Site Address (if different that	an mailing addre	ess) York			
	6. Transporter 1 Cor	npany Nam	e Laidlaw (Cerriers Bulk						U.S. EPA ID	Number 09	8061993	16	
	7. Transporter 2 Cor	npany Nam	9							U.S. EPA ID	Number			
	Designated Facilit Facility's Phone:	y Name and	8439117 C		i Environnem nbroise QC G7 1302					U.S. EPA ID		904 547	4	
				Shipping Name, Haza	rd Class, ID Number,			10. Contain	ers Type	11. Total Quantity	12. Unit Wt./Vol.	13.	Waste Code	es
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ż	Transporter signature	(for export			10	Export from U	.S.	Port of entry Date leaving		colle	. 72	kc		
ORTE	Transporter 1 Printed		ie ,	als		Sign	ature	W.	1	11	/	Mor	ith Day	Year
TRANSPORTER	Transporter 2 Printed	Typed Nam	Black	burn		Sigr	nature	172				Mor	th Day	Year
Ιŀ	18. Discrepancy 18a. Discrepancy Ind	cation Spac	ce Quant	ity	Туре		R	esidue		Partial Rej	ection		Full Reje	ection
CILITY	18b. Alternate Facility	(or Génera	tor)				Manifes	st Reference N	lumber:	U.S. EPAID N	Number			
	Facility's Phone: 18c. Signature of Alte	mate Facilit	y (or Generator)							1/		Mo	nth Day	Year
25	19. Hazardous Waste	Report Mar	nagement Method C	Codes (i.e., codes for h	nazardous waste treati		and recycline	g systems)		Ta				
1	H042			۷.		3.				4.				34
	20. Designated Faci t Printed/Typed Name	y Owner or	Operator: Certificati	ion of receipt of hazard	dous materials covere		est except as ature	noted in Item	18a			Mor	nth Day	Year
PA	Form 8700-22 (Rev	r. 12-17) T	Previous editions	are obsolete.						DESIGNA	TED FA	CILITY T	O GENE	RATOR

Please print or type.

. +861. Form Approved. OMB No. 2050-0039

1	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number NVD008413877	2. Page 1 of	3. Emergency Response Phor		Tracking N		O JJK	
		ng Address Parside Innovation & Technology Cam be Street, Suite 200 Buffalo NY 14210 716-856-3333		Generators Site Address (if diff 3874 River Road To 3879 1415		ess) York			
	Transporter 1 Company Nar	Laidlaw Carriers Bulk			U.S. EPA ID		8061993	6	- 00
	7. Transporter 2 Company Nar	ne			U.S. EPA ID		0001773	0	\dashv
	Designated Facility Name as	nd Site Address			U.S. EPA ID	Number			4
	Facility's Phone:	8439117 Canada INC /RSI Environ 80 rue des Mélèzes St. Ambroise Q 418-695-3302			1		904 547	4	
	9a. 9b. U.S. DOT Descript and Packing Group (if	on (including Proper Shipping Name, Hazard Class, ID No any))	ımber,	10. Containers No. T	11. Total Type Quantity	12. Unit Wt./Vol.	_ 13.	Waste Codes	
GENERATOR -	X 1. UN	3077 Environmentally hazardous su solid, NOS, 9 PG III (coal tar)	bstance.	1	35 CM <i>ES</i> T	T	D018		
- GENE	2.	4			CAL				
	34.								
l	4.					14.		*	
	15. GENERATOR'S/OFFER(marked and labeled/placa Exporter, I certify that the	PR'S CERTIFICATION: I hereby declare that the contents rded, and are in all respects in proper condition for transp contents of this consignment conform to the terms of the a simization statement identified in 40 CFR 262.27(a) (if I an	4- RSI TAG 2 2 0 4 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	#ERG 171# 54 are fully and accurately describe able international and national gradgment of Consent.	d above by the proper s povernmental regulation	03319 shipping năm	5 e, and are clas	ssified, packaged, am the Primary	
↓ 	16. International Shipments Transporter signature (for expo	Import to U.S.	RITC EXPORT From U	.Ś. Port of entry/exi			C 1	1 22 2	2
	17. Transporter Acknowledgmer	t of Receipt of Materials	-						
PORT	Transporter 1 Rrinted/Typed Na	Plackbin	Sign	ature / L	~		Mon	th Day Ye	ar Z
TRANSPORTER	Transporter 2 Printed/Typed Na	me	Sign	ature			Mon	nth Day Ye	ar
1	18. Discrepancy	Lift Harris							
	18a. Discrepancy Indication Sp	ace Quantity Typ	pe	Residue Manifest Reference Num	Partial Rober:	ejection	4_	Full Rejection	
LITY	18b. Alternate Facility (or Gene	rator)			U.S. EPA ID	Number			
DESIGNATED FACILITY	Facility's Phone: 18c. Signature of Alternate Fac	lity (or Generator)					Mo	nth Day Ye	ear
SIGN		anagement Method Codes (i.e., codes for hazardous was	ate treatment, disposal	, and recycling systems)					
8	1. HO40	2.	3.		4.				
	20. Designated Facility Owner Printed/Typed Name	or Operator: Certification of receipt of hazardous materials		est except as noted in Item 18a aturé			Mor	nth Day Ye	ar
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Ple	ase pr	int or type.				A1				Forn	n Approved.	OMB No.	2050-003
1	UNI	FORM HAZARDOUS ASTE MANIFEST	1. Generator ID Number	a fe	2. Page 1 of	3. Emergency			4. Manifest	Fracking N	The same of	1 J	JK
			g Address erside Innovation & Technolog e Street Suite 200 Buffalo NY 716-856-3333				er Roa		n mailing addres	s)			
П		ansporter 1 Company Nam	Laidlaw Carriers Bulk		-				U.S. EPA ID N	umber	I REAL		
Н								91.03		MIDS	8061993	6	
	7. Tra	ansporter 2 Company Nam		mili s a			17	, 10 - 1	Ų.S. EPA ID N	umber	T-Stan		
	8. De	signated Facility Name and	I Site Address	nvironem	ental	100			U.S. EPAID N	umber		1	
	Facili	ty's Phone:	80 rue des Mélèzes St, Ambr 418-695-330	pise QC G7						116	984 547	6	
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	Gener	rator's/Offeror's Printed/Typ	ed Name		Sigr	ature	2			-0.504	Mon	th Day	Year
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出		ansporter Acknowledgment											
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	Ho	48	2.		3.	1			4.				
			Operator: Certification of receipt of hazardous	materials covere			ed in Item	18a					
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UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	5407 = 1,4.1		3 1426 89 3	9	0.2	Tracking No	129	0 .1	JK
5. Generator's Name and Mailin	g Address erside Innovation & Technol	Inni Cannia	Generator		if different th	an mailing addre		420	-	<u> </u>
	Street, Suite 200 Buffalo N 716-856-3333		3074		4151	anda New)	OFF			
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						1 = 111		3061993	6	
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Designated Facility Name and Facility's Phone:	Site Address 8439117 Canada INC /RSI 80 rue des Mélèzes St, Am 418-695-3	abroise QC G7P2I				U.S. EPA ID N		904 547	4	
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15. GENERATOR'S/OFFEROR marked and labeled/placard Exporter, I certify that the oc	Northeast Inc., acting as the n	at the contents of this constition for transport according terms of the attached EPA	ignment are fully and g to applicable interna Acknowledgment of	accurately desc ational and nation Consent.	ribed above nal governme	by the proper shi	ipping name	, and are cla	ssified, pacl	aged,
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			g Address erside Innovation & Technolog e Street, Suite 200 Buffalo NY 716-856-3333		i	Generator's	Site Address River Roa	if different the	anda New	ss)			
		nsporter 1 Company Nam	e Goulet Trucking Inc						U.S. EPA ID		0.00 0.00. 100.		
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	8. De:	signated Facility Name and	d Site Address 8439117 Canada INC /RSI Er	nvironneme	ental				U.S. EPA ID	Number			
	Facilit	ty's Phone:	80 rue des Mélèzes St, Ambro 418-695-3302		P2N4				I	116	904 547	4	
	9a. HM	9b. U.S. DOT Description and Packing Group (if a	on (including Proper Shipping Name, Hazard Cla ny))	ass, ID Number,			10. Contair	ers Type	11. Total Quantity	12. Unit Wt./Vol.	13.	Waste Codes	3
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- DESIG	19. Ha	azardous Waste Report Ma	anagement Method Codes (i.e., codes for hazar 2.	dous waste treat	ment, disposal	I, and recycl	ng systems)		4.		-		
-	Printe		r Operator: Certification of receipt of hazardous	materials covere	-	fest except a	s noted in Item	18a			Mor	nth Day	Year 22

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Ш		anoportor a dompany name	-					I				
		esignated Facility Name and ility's Phone:	d Site Address 8439117 Canada INC /RSI Environn 80 rue des Mélèzes St, Ambroise QC 418-695-3302					U.S. EPA ID N		904 547	4	
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EP.	A Fo	rm 8700-22 (Rev. 12-17)	Previous editions are obsolete.			DES	GNATED	FACILITY	TO EPA	's e-MA	NIFEST	SYSTEM

Form Approved, OMB No. 2050-0039 Please print or type. 1. Generator ID Number NYD008413877 4. Manifest Tracking Number 2. Page 1 of 3. Emergency Response Phone UNIFORM HAZARDOUS CCN 1011139 **WASTE MANIFEST** - 800-424-9300 5. Generator's Name and Mailing Address Generator's Site Address (if different than mailing address) Riverside Innovation & Technology Campus 3874 River Road Tonawanda New York 140 Lee Street, Suite 200 Buffalo NY 14210 14151 716-856-3333 Generator's Phone: U.S. EPA ID Number 6. Transporter 1 Company Name Goulet Trucking Inc. MAC300006038 7. Transporter 2 Company Name U.S. EPA ID Number 8. Designated Facility Name and Site Address U.S. EPA ID Number 8439117 Canada INC /RSI Environnemental 116 904 5474 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302 Facility's Phone: 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 11. Total 12. Unit 13. Waste Codes and Packing Group (if any)) НМ No. Type Quantity Wt./Vol. D018 28 UN 3077 Environmentally hazardous substance, GENERATOR X solid, NOS, 9, PG III (coal tar) 1 CM 14. Special Handling Instructions and Additional Information Secur-T 0033133 2- AOC #029672E210D4 1-EQ Northeast Inc., acting as the recognized trader arranging for export. 4- RSI TAG 5-Fedex AS 400 3- CDN Manifest: 6-ITNx20220920403433 #ERG 171# 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. Year Generator's/Offeror's Printed/Typed Name Signature Month Day N. Port of entry/exit: Transporter signature (for exports only): Date leaving U.S.: 17. Transporter Acknowledgment of Receipt TRANSPORTER Fransporte 1 Pint d/Typed Name Signature 18. Discrepancy 18a. Discrepancy Indication Space Type Residue _ Partial Rejection Full Rejection Quantity Manifest Reference Number: **DESIGNATED FACILITY** 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: Month Day Year 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) 4. 1. 040 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Year Month Printed/Typed Name

Please print or type. Form Approved. OMB No. 2050-0039 1. Generator ID Number 2. Page 1 of 3. Emergency Response Phone 4. Manifest Tracking Number UNIFORM HAZARDOUS NYD008413877 023894317 **JJK WASTE MANIFEST** Generator's Site Address (if different than mailing address)
3874 River Road Tonawanda New York 5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 14151 716-856-3333 Generator's Phone: 6. Transporter 1 Company Name U.S. EPA ID Number Goulet Trucking Inc MAC300006038 7. Transporter 2 Company Name U.S. EPA ID Number 8. Designated Facility Name and Site Address U.S. EPA ID Number 8439117 Canada INC /RSI Environnemental 116 904 5474 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302 Facility's Phone: 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 11. Total 12. Unit 13. Waste Codes and Packing Group (if any)) HM No. Quantity Wt./Vol. Type 28 D018 UN 3077 Environmentally hazardous substance, GENERATOR X solid, NOS, 9, PG III (coal tar) 1 CM EST 3 14. Special Handling Instructions and Additional Information Secur - T 004 0033134 2- AOC #D29672E210D4 1-EQ Northeast Inc., acting as the recognized trader arranging for export. 5-Fedex AS 400 4- RSI TAG 3- CDN Manifest: 6-ITN x 202 20 9 20 416 G 171# ST 23

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/Offeror's Printed/Typed Name 16. International Shipments L'E Export from U/S Port of entry/exit: Transporter signature (for exports only): Date leaving U.S.: 17. Transporter Acknowledgment of Receipt of Materials TRANSPORTER sporter_1 Printed/Typed Name fred Which Transporter 2 Printed/Typed Name Signature 18. Discrepancy 18a. Discrepancy Indication Space Type Quantity Residue Partial Rejection Full Rejection Manifest Reference Number: 18b. Alternate Facility (or Generator) DESIGNATED FACILITY U.S. EPA ID Number Facility's Phone: 18c. Signature of Alternate Facility (or Generator) Month Day Year 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. 4. 20. Designated Facility Owner or Operator: 📡 rtification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name EPA Form 8700-22 (Rev. 12/7) Previous editions are obsolete. **FACILITY TO EPA's e-MANIF**

Form Approved. OMB No. 2050-0039 Please print or type. 4. Manifest Tracking Number 1. Generator ID Number NYD098413877 2. Page 1 of 3. Emergency Response Phone **UNIFORM HAZARDOUS** WASTE MANIFEST -424-9300 Generator's Site Address (if different than mailing address)
3874 River Road Tonawanda New York 5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 14151 716-856-3333 Generator's Phone: U.S. EPA ID Number 6. Transporter 1 Company Name Goulet Trucking Inc MAC300006038 U.S. EPA ID Number 7. Transporter 2 Company Name 8. Designated Facility Name and Site Address U.S. EPA ID Number 8439117 Canada INC /RSI Environnemental 116 904 5474 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302 Facility's Phone: 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 11. Total 12. Unit 13. Waste Codes and Packing Group (if any)) Wt./Vol. Quantity HM No. Type 28 DD18 UN 3077 Environmentally hazardous substance, GENERATOR solid, NOS, 9 .PG III (coal tar) 1 CM 3 14. Special Handling Instructions and Additional Information Secur-0033135 2- AOC #029672E21004 1-EQ Northeast Inc., acting as the recognized trader arranging for export. 3- CDN Manifest : 5-Fedex AS 400 4- RSI TAG 6-ITN X 20220921 447636 #ERG 171# 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. Year Generator's/Offeror's Printed/Typed Name Export from U.S. Import to U Port of entry/exit: Date leaving U.S.: Transporter signature (for exports only): 17. Transporter Acknowledgment of Receipt of Materials TRANSPORTER Month Transporter 1 Printe yped Name Signature Day Year Transporter 2 Printed/Typed Name Signature Month 18. Discrepancy Type 18a. Discrepancy Indication Space Residue Partial Rejection Full Rejection Quantity Manifest Reference Number: U.S. EPA ID Number DESIGNATED FACILITY 18b. Alternate Facility (or Generator) Facility's Phone: 18c. Signature of Alternate Facility (or Generator) Month Day Year 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 4. 20. Designated Facility Owner or Operator; Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Signature

Printed/Typed Name

Month

Year

DESIGNATED FACILITY TO

Please print or type. Form Approved, OMB No. 2050-0039 1. Generator ID Number NYD008413877 2. Page 1 of 3. Emergency Response Phone UNIFORM HAZARDOUS **WASTE MANIFEST** 800-424-9300 5. Generator's Name and Mailing Address Generator's Site Address (if different than mailing address)
3874 River Road Tonawanda New York Riverside Innovation & Technology Campus 149 Lee Street, Suite 200 Buffalo NY 14210 14151 716-856-3333 Generator's Phone: 6. Transporter 1 Company Name U.S. EPA ID Number Goulet Trucking Inc MAC300006038 7. Transporter 2 Company Name U.S. EPA ID Number 8. Designated Facility Name and Site Address U.S. EPA ID Number 8439117 Canada INC /RSI Environnemental 116 904 5474 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302 Facility's Phone: 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 11. Total 12 Unit 13. Waste Codes and Packing Group (if any)) HM No. Quantity Wt./Vol. Type UN 3077 Environmentally hazardous substance, 2.8 D018 GENERATOR × solid, NOS, 9, PG III (coal tar) 2. 14. Special Handling Instructions and Additional Information Secur-0033136 2- AOC #029672E21004 1-EQ Northeast Inc., acting as the recognized trader arranging for export. 4- RSI TAG 5-Fedex AS 400 3- CDN Manifest 92671414 #ERG 171# 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. 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/Offeror's Printed/Typed Name Signature -Day Year 16. International Shipments Export from U.S. Port of entry/exit: Transporter signature (for exports only): Date leaving U.S. 17. Transporter Acknowledgment of Receipt of Materials TRANSPORTER Transporter # Inted/Typed Name Month Day Year Transporter 2 Printed/Typed Name Signature 18. Discrepancy 18a. Discrepancy Indication Space Туре Full Rejection Quantity Residue Partial Rejection Manifest Reference Number: 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: DESIGNATED 18c. Signature of Alternate Facility (or Generator) Day Month Year 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest every ept as noted in Item 18a Printed Typed Name EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

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Form Approved. OMB No. 2050-0039 Please print or type. 2. Page 1 of 3. Emergency Response Phone 4. Manifest Tracking Number 1. Generator ID Number UNIFORM HAZARDOUS NYDD008413877 **WASTE MANIFEST** - 424-9 800 Generator's Site Address (if different than mailing address) 5. Generator's Name and Mailing Address Riverside innovation & Technology Campus 3874 River Road Tonawanda New York 140 Lee Street, Suite 200 Buffalo NY 14210 14151 716-956-3333 Generator's Phone: U.S. EPA ID Number 6. Transporter 1 Company Name Goulet Trucking Inc. MAC300006038 7. Transporter 2 Company Name U.S. EPA ID Number 8. Designated Facility Name and Site Address U.S. EPA ID Number 8439117 Canada INC /RSI Environmemental 116 904 5474 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302 Facility's Phone: 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 11. Total 12. Unit 13. Waste Codes and Packing Group (if any)) Quantity Wt./Vol. НМ No. Type 28 D018 UN 3077 Environmentally hazardous substance, GENERATOR solid, NOS, 9, PG III (coal tar) CM 14. Special Handling Instructions and Additional Information 2- AOC #029672E21004 1-EQ Northeast Inc., acting as the recognized trader arranging for export. 5-Fedex AS 400 3- CDN Manifest 4- RSI TAG 6-ITN X 20120927775877 #ERG 171# 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/Offeror's Printed/Typed Name Day 16. International Shipments Export from U.S. Import to U.S. Port of entry/exit: 1 Transporter signature (for exports only): Date leaving U.S.: 17. Transporter Acknowledgment of Receipt of Materials TRANSPORTER Transporter 1 Printed/Typed Name Signature Month Day Year 20 Transporter 2 Printed/Typed Name Month 18. Discrepancy 18a. Discrepancy Indication Space ____ Туре Partial Rejection Full Rejection Residue Quantity Manifest Reference Number: 18b. Alternate Facility (or Generator) U.S. EPA ID Number **FACILITY** Facility's Phone: DESIGNATED 18c. Signature of Alternate Facility (or Generator) Month Day Year 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 4. 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 434 Printed/Typed Name Signatur

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

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Form Approved. OMB No. 2050-0039 Please print or type. 3. Emergency Response Phone 4. Manifest Tracking Numb 1. Generator ID Numb UNIFORM HAZARDOUS 238943 **WASTE MANIFEST** 1-800-424-9 Generator's Site Address (if different than mailing address) 5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 14151 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333 Generator's Phone U.S. EPA ID Number 6. Transporter 1 Company Name Goulet Trucking Inc MAC300006038 U.S. EPA ID Number 7. Transporter 2 Company Name U.S. EPA ID Number 8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 116 904 5474 80 rue des Métèzes St, Ambroise QC G7P2N4 418-695-3302 Facility's Phone: 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 11. Total 12. Unit 13. Waste Codes and Packing Group (if any)) Wt./Vol. Quantity HM No. Type D018 UN 3077 Environmentally hazardous substance. 28 GENERATOR X solid NOS 9 PG III (coal tar) CM 2. 3 14. Special Handling Instructions and Additional Information 03320 2- AOC #029672E21004 1-EQ Northeast Inc., acting as the recognized trader arranging for export 4- RSI TAG 5-Fedex AS 400 3- CDN Manifest 6-ITN x 20220927783789 #ERG 171# 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. Month Day Year 16. International Shipments Export from U.S. Port of entry/exit: Import to U.S. Date leaving U.S. Transporter signature (for exports only): 17. Transporter Acknowledgment of Receipt of Materials TRANSPORTER Transporter 1 Printed/Typed;Name Signature Month Per Transporter 2 Printed/Typed Name 18. Discrepancy 18a. Discrepancy Indication Space Type Residue ☐ Partial Rejection __ Full Rejection Quantity Manifest Reference Number: U.S: EPA ID Number 18b. Alternate Facility (or Generator) Facility's Phone: DESIGNATED Year 18c. Signature of Alternate Facility (or Generator) Month Day 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. 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 Signature MA

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Form Approved. OMB No. 2050-0039 Please print or type. 4. Manifest Tracking Number 2. Page 1 of 3. Emergency Response Phone 1, Generator ID Numbe UNIFORM HAZARDOUS 023894322 JJK NYD008413877 1-800-424-9300 **WASTE MANIFEST** Generator's Site Address (if different than mailing address) 5. Generator's Name and Mailing Address 3874 River Road Tonawanda New York Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 14151 19/27/22 716-856-3333 Generator's Phone: U.S. EPA ID Number 6. Transporter 1 Company Name Goulet Trucking Inc MAC300006038 U.S. EPA ID Number 7. Transporter 2 Company Name U.S. EPA ID Number 8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 116 904 5474 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302 Facility's Phone: 10. Containers 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 11. Total 12 Unit 13 Waste Codes Wt./Vol. and Packing Group (if any)) No Type Quantity НМ D018 T 28 UN 3077 Environmentally hazardous substance. GENERATOR × solid NOS, 9 PG III (coal tar) 1 CM 2. 3 14. Special Handling Instructions and Additional Information 0033204 Secur-1-EQ Northeast Inc., acting as the recognized trader arranging for export 2- ADC #029672E21004 5-Fedex AS 400 3- CDN Manifest 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. Year Month Day Signature -Generator's/Offeror's Printed/Typed Name Port of entry/exit: 4000 19 16. International Shipments Export from U.S. Import to U.S. Date leaving U.S.: Transporter signature (for exports only): 17. Transporter Acknowledgment of Receipt of Materials TRANSPORTER Month Day Year Transporter 1 Printed/Typed Name Day Year Transporter 2 Printed/Typed Name 18. Discrepancy Type Full Rejection 18a, Discrepancy Indication Space __ Partial Rejection Residue Quantity Manifest Reference Number: U.S. EPA ID Number 18b. Alternate Facility (or Generator) Facility's Phone: Year DESIGNATED Month Day 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) 4. 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Year Signature Day Printed/Typed Name

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		marked and labeled/placarded, and are in all respects in proper condition for transport according to a Exporter, I certify that the contents of this consignment conform to the terms of the attached EPAAck I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity	knowledamei	nt of Consent.			s. If export s	nipment and i	am the Primary
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Form Approved. OMB No. 2050-0039 Please print or type. 1. Generator ID Number NYD008413877 4. Manifest Tracking Number UNIFORM HAZARDOUS **WASTE MANIFEST** - 800-424-9300 Generator's Site Address (if different than mailing address)
3874 River Road Tonawanda New York Generator's Name and Mailing Address Riverside Innovation & Technology Campus 3875 14151 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333 Generator's Phone: U.S. EPA ID Number 6. Transporter 1 Company Name Goulet Trucking Inc. MAC300006038 U.S. EPA ID Number 7. Transporter 2 Company Name 8. Designated Facility Name and Site Address U.S. EPA ID Number 8439117 Canada INC /RSI Environnemental 116 904 5474 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302 Facility's Phone: 10. Containers 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 11. Total 12. Unit 9a. 13. Waste Codes Quantity Wt./Vol. and Packing Group (if any)) No. Type НМ 0018 UN 3077 Environmentally hazardous substance, GENERATOR solid. NOS. 9 .PG III (coal tar) CM 3. 14. Special Handling Instructions and Additional Information Secur - T 2-ADC #029672E21004 0033141 1-EQ Northeast Inc., acting as the recognized trader arranging for export. 5-Fedex AS 400 4- RSI TAG 3- CDN Manifest 6-ITN 20220928864052 #ERG 171# 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. 1 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. Month Year Day Generator's/Offeror's Printed/Typed Name 16. International Shipments Export from U.S Port of entry/exit: Import to U.S. Date leaving U.S.: Transporter signature (for exports only): 17. Transporter Acknowledgment of Receipt of Materials TRANSPORTER Month Day Year Transporter 1 Printed/Typed Name Signature 10h Wir Month Year Transporter 2 Printed/Typed Name Signature 18. Discrepancy Type 18a. Discrepancy Indication Space Residue Partial Rejection Full Rejection Quantity Manifest Reference Number: U.S. EPA ID Number 18b. Alternate Facility (or Generator) Facility's Phone: Year Month Day 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) 4. 1. 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Year Printed/Typed Name Signature **DESIGNATED FACILITY** EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

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Please print or type. Form Approved. OMB No. 2050-0039 4. Manifest Tracking Numbe UNIFORM HAZARDOUS 1. Generator ID Number 3. Emergency Response Phone NYD008413877 **WASTE MANIFEST** 1-800-424-9300 5. Generator's Name and Mailing Address Generator's Site Address (if different than mailing address)
3874 River Road Tonawanda New York Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 3875 14151 716-856-3333 10-4-22 76. Generator's Phone: 6. Transporter 1 Company Name U.S. EPA ID Number Goulet Trucking Inc. MAC300006038 7. Transporter 2 Company Name U.S. EPA ID Number 8. Designated Facility Name and Site Address U.S. EPA ID Number 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St. Ambroise QC G7P2N4 116 904 5474 418-695-3302 Facility's Phone: 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 9a 10. Containers 11. Total 12. Unit and Packing Group (if any)) 13. Waste Codes НМ No. Quantity Wt./Vol. Type 28 GENERATOR UN 3077 Environmentally hazardous substance. 0018 X solid, NOS, 9 ,PG III (coal tar) 1 CM 3. 4 14. Special Handling Instructions and Additional Information SECUR-T 1-EQ Northeast inc , acting as the recognized trader arranging for export. 2- AOC #029672E21004 0033147 3- CDN Manifest 5-Fedex AS 400 4- RSI TAG 6-ITN X20221004 84232#ERG 171# 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/Offeror's Printed/Typed Name Signature Day Kirston 10 International Shipmen's Port of entry/exit: 10 0 2 Export from U.S. Import to U.S. Transporter signature (for exports only): 17. Transporter Acknowledgment of Receipt of Materials TRANSPORTER Transporter 1 Printed/Typed Name **S**ignature Month Day Year 10 Transporter 2 Printed/Typed Name Signature Month 18. Discrepancy 18a. Discrepancy Indication Space Туре Quantity Residue Partial Rejection Full Rejection Manifest Reference Number: FACILITY 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: DESIGNATED 18c. Signature of Alternate Facility (or Generator) Month Day Year 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 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 EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

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UNIFORM HAZARDOU WASTE MANIFEST	NYUUU8413B77	1 6	mergency Response	39	02	t Tracking N	lumber	6 JJK
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se print or type. UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number N∀D008413877		Emergency Response		4. Manifest	Tracking N	umber _	3 JJK		
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	8. De	signated Facility Name and	d Site Address 8439117 Canada INC /RSI Environneme	ental			U.S. EPA ID N	lumber			
Ш			80 rue des Métèzes St. Ambroise QC G7					116	904 547	4	
Ш	Facili	ity's Phone:	418-695-3302								
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Please print or type. Form Approved. OMB No. 2050-0039 2. Page 1 of 3. Emergency Response Phone 4. Manifest Tracking Number 1. Generator ID Number **UNIFORM HAZARDOUS** NYD008413877 **WASTE MANIFEST** 1-800-424-9300 Generator's Site Address (if different than mailing address) 5. Generator's Name and Mailing Address Pliverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 3875 4 14151 716-856-3333 10-5-22 Generator's Phone: 6. Transporter 1 Company Name U.S. EPA ID Number Goulet Trucking Inc. MAC300006039 7. Transporter 2 Company Name U.S. EPA ID Number 8. Designated Facility Name and Site Address U.S. EPA ID Number 8439117 Canada INC /RSI Environnemental 115 904 5474 80 rue des Métèzes St. Ambroise QC G7P2N4 418-695-3302 Facility's Phone: 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 11. Total 12. Unit 9a 13. Waste Codes and Packing Group (if any)) HM Quantity Wt./Vol. No. Type T 28 0018 UN 3077 Environmentally hazardous substance GENERATOR X solid NOS, 9 PG III (coal tar) 1 EM 3. 4. 14. Special Handling Instructions and Additional Information 2- AUC #029672E21004 SECUR-T 1-EQ Northeast Inc. acting as the recognized trader arranging for export 5-Feder: AS 400 3- CDN Manifest 4- RSI TAG 6-1TN X 222/005268875 #ERG 171# 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/Offeror's Printed/Typed Name Month Day Year Kicsten 10 05 202 16. International Shipments Port of entry/exit: Transporter signature (for exports only): Date leaving U.S.: 17. Transporter Acknowledgment of Receipt of Materials TRANSPORTER Transporter 1 Printed/Typed Name Signature Month Day Year Kich Wn 1 05 2 10 Transporter 2 Printed/Typed Name Signature Month Day Year 18. Discrepancy 18a. Discrepancy Indication Space Type Quantity Residue __ Partial Rejection ___ Full Rejection Manifest Reference Number: FACILITY 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: DESIGNATED 18c. Signature of Alternate Facility (or Generator) Month Day Year 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 4. 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a **Year** EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO GEN

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Please print or type. Form Approved. OMB No. 2050-0039 1. Generator ID Number 2. Page 1 of 3. Emergency Response Phone 4. Manifest Tracking Number **UNIFORM HAZARDOUS** NYD008413877 WASTE MANIFEST 1-800-424-9300 5. Generator's Name and Mailing Address Generator's Site Address (if different than mailing address) Riverside Innovation & Technology Campus 3874 River Road Tonawanda New York 140 Lee Street, Suite 200 Buffalo NY 14210 14151 716-856-3333 6. Transporter 1 Company Name U.S. EPA ID Number Goulet Trucking Inc. MAC300006038 7. Transporter 2 Company Name U.S. EPA ID Number 8. Designated Facility Name and Site Address U.S. EPA ID Number 8439117 Canada INC /RSi Environnemental 80 rue des Mélèzes St. Ambroise QC 67P2N4 116 904 5474 418-695-3302 Facility's Phone: 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 9a. 10. Containers 11. Total 12. Unit and Packing Group (if any)) 13. Waste Codes HM No. Quantity Wt./Vol. Туре UN 3077 Environmentally hazardous substance, GENERATOR 28 D018 X solid, NOS, 9, PG III (coal tar) CM 14. Special Handling Instructions and Additional Information 2- AOC #029672E21004 1-EQ Northeast Inc., acting as the recognized trader arranging for export 0033168 3- CDN Manifest 4- RSI TAG 5-Fedex AS 400 6-ITNX 2 62 #ERG 171# 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/Offeror's Printed/Typed Name Signature · Month Year Day 10 22 16. International Shipments Import to U.S. Export from U.S. Port of entry/exit: Transporter signature (for exports only): Date leaving U.S.: 17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Month Day Year Transporter 2 Printed/Typed Name Signature Month Day Year 18. Discrepancy 18a. Discrepancy Indication Space Туре Quantity Residue Partial Rejection Full Rejection Manifest Reference Number: DESIGNATED FACILITY 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: 18c. Signature of Alternate Facility (or Generator) Day Month Year 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 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 Signature Year EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO

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IGNAIEL		Signature of Alternate Facilit azardous Waste Report Mar		p codes for herardous	wasta traatmant di	enceal and sec	ding quater-1				Mont	h Day	Year			
ıL		4-040	2.	į.		3.			4.							
-	Printe	esignated Facility Owner or d/Typed Name 8700-22 (Rev. 12-17)	lust		iais covered by the	Signature	as noted in Item 1	1	DESIGNAT	ED EAC	Mont	Day	Year			

309317 Form Approved. OMB No. 2050-0039

Please print or type. 1. Generator 13 Number 3413877 3. Emergency Response Phone **UNIFORM HAZARDOUS WASTE MANIFEST** 1-800-424-9300 5. Generator's Name and Mailing Address Riverside Impovation & Technology Campus Generator's Site Address (if different than mailing address) 140 Lee Street, Suite 200 Buffalo NY 14210 14151 716-856-3333 Generator's Phone: U.S. EPA ID Number 6. Transporter 1 Company Name Goulet Trucking Inc MAC300006038 U.S. EPA ID Number 7. Transporter 2 Company Name 8. Designated Facility Name and Site Address 04437117 Canada INC /RSI Environnemental U.S. EPA ID Number 116 904 5474 80 rue des Métèzes St. Ambroise QC G7P2N4 418-695-3302 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 11. Total 12. Unit 9a. 13. Waste Codes НМ and Packing Group (if any)) Nο Туре Quantity Wt./Vol. 0018 UN 3077 Environmentally hazardous substance. 28 GENERATOR solid NOS. 9 PG III (coal tar) 1 CM × EST 3. 14. Special Handling Instructions and Additional Information 2- AOC #029672E21004 1-EQ Northeast Inc., acting as the recognized trader arranging for export 5-Fedex AS 400 3- CDN Manifest 4- RSI TAG #ERG 171# 6-ITN X2022101802146L 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. Month Year Generator's/Offeror's Printed/Typed Name Signature Kirsten Colligan 16. International Shipments Port of entry/exit: Import to U.S. Export from U.S. Date leaving U.S.: Transporter signature (for exports only): 17. Transporter Acknowledgment of Receipt of Materials TRANSPORTER Month Transporter 1 Printed/Typed Name Year Month Transporter 2 Printed/Typed Name 18. Discrepancy 18a. Discrepancy Indication Space Туре Full Rejection __ Residue ☐ Partial Rejection Quantity Manifest Reference Number: 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: DESIGNATED Month Day Year 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) 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 Signature **DESIGNATED FACILITY** EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

UN	FORM HAZARDOUS VASTE MANIFEST	1. Generator ID Number NY D00841387	7	2. Page 1 of	3. Emergence	-474-	9300	02	Tracking Nu 389	ımber	1 Ju	
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	ansporter 1 Company Name	Souter Trucking in					U.S. EPA ID Number MAC300006038					
	ansporter 2 Company Name							U.S. EPA ID I				
	esignated Facility Name and	8439117 Canada INC 80 rue des Mélèzes St						U.S. EPA ID		904 547	4	
9a.	9b. U.S. DOT Description	on (including Proper Shipping Name,	Hazard Class, ID Number,			10. Contai	ners Type	11. Total Quantity	12. Unit Wt./Vol.	13.	Waste Code	s
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15.	marked and labeled/placar Exporter, I certify that the o	3- CDN Manifest . 6-1 R'S CERTIFICATION: I hereby dec ded, and are in all respects in prope ontents of this consignment conform mization statement identified in 40 0	Are that the contents of this condition for transport accept to the terms of the attached	cording to appl ed EPA Acknov	t are fully and a licable internation	onal and nat onsent.	scribed above ional governm	ental regulations				
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18c.	Hazardous Waste Report Ma	anagement Method Codes (i.e., cod	es for hazardous waste trea	atment, dispos	al, and recycling	g systems)		4.				_
_		r Operator: Certification of receipt o	f hazardous materials cover			noted in Ite	m 18a					
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77772. Form Approved. OMB No. 2050-0039

4	UNIFORM HAZARDOUS	1. Generator ID Number	2. Page 1 of	3. Emerg	gency Response	Phone	4. Manifest			11	30			
	WASTE MANIFEST	NYD 088 413 877	1		0) 839-39				094	T	FLE			
	5. Generator's Name and Mail	ing Address RIVERVIEW INNOVATION &	TECHN	Generato	r's Site Address (if different th	an mailing addre	ss)						
	140 LEE ST S	31E 200		38	75 RIVE	RROP	AD.							
П	BUFFALO, NY	14210		TO	NAWAN	DA, N	Y 14150							
П	Generator's Phone: 6. Transporter 1 Company Nat	(716) 856-3333					U.S. EPA ID	Number						
100		TC Inc					NYD	986	9699	147				
П	7. Transporter 2 Company Nar	me					U.S. EPA ID	Number	100					
11	8. Designated Facility Name and Site Address U.S. EPA ID Number													
	MICHIGAN DISPOSAL WASTE TREATMEN													
$\ $	49350 N I-94 SERVICE DRIVE MID 000 724 831													
	BELLEVILLE, MI 48111 Facility's Phone: (800) 592-5489													
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No. of Lot	Exporter, I certify that th	e contents of this consignment conform to the terms of the attach	ed EPA Acknow	vledgment o	of Consent.			ii export sir	iptiretit and t	alli ule Filli	lary			
	Generator's/Offeror's Printed/	ninimization statement identified in 40 CFR 262.27(a) (if I am a lar Typed Name	The state of the s	nerator) or gnature	(b) (if I am a smal	I quantity ger	nerator) is true.		Mor	nth Day	Year			
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ATE	Toc. Signature of Alternate 1 a	idiny (of Generator)							IVIC		lear			
DESIGNATED FACILITY	19. Hazardous Waste Report	Management Method Codes (i.e., codes for hazardous waste tre.	atment, disposa	al, and rec	ycling systems)	3.	1 - 4			ACCOUNTY.	0			
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+		or Operator: Certification of receipt of hazardous materials cove			ot as noted in Item	18a	1			oth D-	Voc.			
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This certificate is to verify the wastes specified on Manifest # 1/7094/4/ have been properly disposed of in accordance with all local, state and federal regulation.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40CFR et sea.

OF DISPOSAL

FACILITY NAME: (Please check one)

Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)

Wayne Disposal, Inc. (EPA I.D. # MID048090633)

ADDRESS:

CEKTIFICATE

49350 N. I-94 Service Drive Bellville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-593-5329

Authorized Signature:

ng ecology



Attachment D – Laboratory Reports



Service Request No:R2109410

Mr. John Black Inventum Engineering 481 Carlisle Drive Herndon, VA 20170

Laboratory Results for: RITC Tanks

Dear Mr.Black,

Enclosed are the results of the sample(s) submitted to our laboratory September 11, 2021 For your reference, these analyses have been assigned our service request number **R2109410**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Meghan.Pedro@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Meghan Pedro Project Manager



Narrative Documents

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com



Client: Inventum Engineering Service Request: R2109410

Project: RITC Tanks Date Received: 09/11/2021

Sample Matrix: Water

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Three water samples were received for analysis at ALS Environmental on 09/11/2021. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivolatiles by GC/MS:

Method 8270D, 09/16/2021: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8270D, 09/17/2021: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8270D, 09/16/2021: The lower control limit for the spike recovery of the Laboratory Control Sample (LCS) was exceeded for one or more analyte. Precision is also outside limits. The LCS/batch MS/MSD are within limits for all analytes. The analytes affected are flagged in the LCS Summary.

Method 8270D, R2109410-002: The control limits for one or more surrogates in the sample are not applicable. The analysis of the sample required a dilution, which resulted in a surrogate concentration below the Method Reporting Limit (MRL). No further corrective action was appropriate.

Semivoa GC:

Method 8081B, 09/20/2021: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8081B, 739415, R2109410-002: The control limits for one or more surrogates in the sample are not applicable. The chromatogram indicated the presence of target/non-target background components that masked the surrogate, which prevented adequate resolution for quantitation. No corrective action was appropriate.

Method 8081B, 739415, R2109410-002: The reporting limit is elevated for one or more analytes. The sample extract was diluted prior to instrumental analysis due to relatively high levels of non-target background components. The extract was highly colored and viscous, which indicated the need to perform a dilution prior to injection into the instrument. Clean-up of the extract was performed within the scope of the method, but did not eliminate enough of the background components to prevent dilution. The result(s) are flagged to indicate the matrix interference.

Method 8082A, 09/20/2021: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and

	Million Pedro			
Approved by	<u> </u>	Date _	10/26/2021	



no further corrective action was taken.

Method 8151A, 739108: The control limits for one or more surrogates in the sample are not applicable. The analysis of the sample required a dilution, which resulted in a surrogate concentration below the Method Reporting Limit (MRL). No further corrective action was appropriate.

Metals:

Method 6020A: Sample(s) required dilution due to the nature of the matrix. The reporting limits are adjusted to reflect the dilution.

General Chemistry:

Method 353.2, R2109410-002: Sample(s) required dilution due to the nature of the matrix. The reporting limits are adjusted to reflect the dilution.

Method 353.2, R2109410-001,002,003: Sample(s) required dilution due to the nature of the matrix. The reporting limits are adjusted to reflect the dilution.

Method Kelada-01, R2109410-001 and -003: The Method Reporting Limit (MRL) was elevated due to color and salinity of sample.

Subcontracted Analytical Parameters:

One or more samples were subcontracted to another laboratory for testing. The certified analytical report from the subcontractor has been included in its entirety at the end of this report and includes the name and address of the subcontracted laboratory.

Volatiles by GC/MS:

Method 8260C, 09/22/2021: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 739515: Sample(s) required dilution due to the foaming nature of the matrix and/or the presence of a non-target compound at high concentration. The reporting limits are adjusted to reflect the dilution.

	Michael Pedro			
Approved by	U	Date	10/26/2021	



SAMPLE DETECTION SUMMARY

CLIENT ID: TK-LQ-ST22-09102021						
Analyte	Results	Flag	MDL	MRL	Units	Method
Fluoride, undistilled	2.65		0.010	0.10	mg/L	300.0
рН	7.63				pH Units	9040C
Benzene	1.0	J	0.20	5.0	ug/L	8260C
Toluene	0.63	J	0.20	5.0	ug/L	8260C
m,p-Xylenes	0.45	J	0.20	5.0	ug/L	8260C
2-Methylnaphthalene	11		1.3	9.1	ug/L	8270D
3- and 4-Methylphenol Coelution	1.3	J	1.2	9.1	ug/L	8270D
Acenaphthene	1.8	J	1.4	9.1	ug/L	8270D
Acenaphthylene	13		1.4	9.1	ug/L	8270D
Anthracene	11		1.3	9.1	ug/L	8270D
Benz(a)anthracene	57		1.6	9.1	ug/L	8270D
Benzo(a)pyrene	47		1.2	9.1	ug/L	8270D
Benzo(b)fluoranthene	53		1.2	9.1	ug/L	8270D
Benzo(g,h,i)perylene	19		1.0	9.1	ug/L	8270D
Benzo(k)fluoranthene	21		1.3	9.1	ug/L	8270D
Biphenyl	2.5	J	1.4	9.1	ug/L	8270D
Carbazole	26		1.6	9.1	ug/L	8270D
Chrysene	61		1.2	9.1	ug/L	8270D
Dibenz(a,h)anthracene	8.6	J	1.1	9.1	ug/L	8270D
Dibenzofuran	10		1.4	9.1	ug/L	8270D
Fluoranthene	40		1.5	9.1	ug/L	8270D
Fluorene	19		1.3	9.1	ug/L	8270D
Indeno(1,2,3-cd)pyrene	20		1.8	9.1	ug/L	8270D
Naphthalene	61		1.2	9.1	ug/L	8270D
Phenanthrene	53		1.4	9.1	ug/L	8270D
Phenol	1.4	J	1.0	9.1	ug/L	8270D
Pyrene	32		1.5	9.1	ug/L	8270D

CLIENT ID: TK-LQ-ST23-09102021						
Analyte	Results	Flag	MDL	MRL	Units	Method
Ammonia as Nitrogen, undistilled	765000		26	50	mg/L	350.1
Cyanide, Total	164		4.0	5.0	mg/L	Kelada-01
Fluoride, undistilled	18		1.0	10	mg/L	300.0
рН	7.51				pH Units	9040C
2-Butanone (MEK)	11	J	7.8	100	ug/L	8260C
Benzene	440		2.0	50	ug/L	8260C
Ethylbenzene	4.4	J	2.0	50	ug/L	8260C
Styrene	14	J	2.0	50	ug/L	8260C
Toluene	170		2.0	50	ug/L	8260C
m,p-Xylenes	63		2.0	50	ug/L	8260C
o-Xylene	19	J	2.0	50	ug/L	8260C
2,4-Dimethylphenol	2300		140	910	ug/L	8270D



SAMPLE DETECTION SUMMARY

CLIENT ID: TK-LQ-ST23-09102021						
Analyte	Results	Flag	MDL	MRL	Units	Method
2-Methylnaphthalene	810	J	130	910	ug/L	8270D
2-Methylphenol	9900		100	910	ug/L	8270D
3- and 4-Methylphenol Coelution	28000		120	910	ug/L	8270D
Acenaphthylene	910	J	140	910	ug/L	8270D
Anthracene	490	J	130	910	ug/L	8270D
Benz(a)anthracene	500	J	160	910	ug/L	8270D
Benzo(a)pyrene	540	J	120	910	ug/L	8270D
Benzo(b)fluoranthene	550	J	120	910	ug/L	8270D
Benzo(g,h,i)perylene	330	J	100	910	ug/L	8270D
Benzo(k)fluoranthene	230	J	130	910	ug/L	8270D
Carbazole	830	J	160	910	ug/L	8270D
Chrysene	670	J	120	910	ug/L	8270D
Dibenzofuran	460	J	140	910	ug/L	8270D
Fluoranthene	1400		150	910	ug/L	8270D
Fluorene	740	J	130	910	ug/L	8270D
Indeno(1,2,3-cd)pyrene	300	J	180	910	ug/L	8270D
Naphthalene	3800		120	910	ug/L	8270D
Phenanthrene	2300		140	910	ug/L	8270D
Phenol	26000		100	910	ug/L	8270D
Pyrene	1100		150	910	ug/L	8270D
2,4-D	310	Р	35	45	ug/L	8151A

CLIENT ID: TK-LQ-ST24-09102021	Lab ID: R2109410-003						
Analyte	Results	Flag	MDL	MRL	Units	Method	
Ammonia as Nitrogen, undistilled	0.086		0.026	0.050	mg/L	350.1	
Fluoride, undistilled	0.17		0.010	0.10	mg/L	300.0	
pH	7.44				pH Units	9040C	



Sample Receipt Information

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com Client: Inventum Engineering Service Request:R2109410

Project: RITC Tanks

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	<u>DATE</u>	<u>TIME</u>
R2109410-001	TK-LQ-ST22-09102021	9/10/2021	
R2109410-002	TK-LQ-ST23-09102021	9/10/2021	
R2109410-003	TK-LQ-ST24-09102021	9/10/2021	



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

060028

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE ANALYSIS REQUESTED (Include Method Number and Container Preservative) TANKS 6 PRESERVATIVE The state of the s NIERATE WITHIE URANIE Preservativ
0. NONE
1. HCL
2. HNO3
3. H2SO4
4. NaOH
5. Zn. Acetate
MeOH
NaHSO NUMBER OF CONTAINERS TomLSWEVE 70,8% 80,8% 90,8% 90,8% METALS. TO 8. Other The Table REMARKS/ ALTERNATE DESCRIPTION SEE ATTACHED SAMPLING FOR OFFICE USE ASI PARAMETERS ONLY LAB ID DATE TIME MATRIX CLIENT SAMPLE ID 9/10 LO-ST21-0910202 9/10 Sh- ST22-0910202 טיול D-ST23-0910202 9 O 9/10 a/b INVOICE INFORMATION REPORT REQUIREMENTS TURNAROUND REQUIREMENTS SPECIAL INSTRUCTIONS/COMMENTS RUSH (SURCHARGES APPLY) I. Results Only Metals PO# II. Results + QC Summarles . 1 day _____2 day _____3 day (LCS, DUP, MS/MSD as required) BILL TO: Standard (10 business days-No Surcharge) III. Results + QC and Calibration REQUESTED REPORT DATE X IV. Data Validation Report with Raw Date See QAPP Edata ____Yes STATE WHERE SAMPLES WERE COLLECTED NY RECEIVED BY RELINQUISHED BY RECEIVED BY RELINQUISHED BY RECEIVED BY RELINQUISHED BY Signature Signature Signature Signature R2109410 Printed Name Printed Name Printed Name Inventum Engineering RITC Tanks Firm Date/Time Date/Time 4/11 Date/Timo Date/Time 9:35 © 2012 by ALS Group



Cooler Receipt and Preservation Check Form

R2109410	5
RITC Tenks	

(ALS	S)		Kecei	рса	ilu i i csci	vation	Circ	CKIOII				
roject/Clie	nt RIT	<u></u>			_Folder Nur	nber			·			
ooler receive	d on 9/11/	2	by: <i>M</i>	14	cou	RIER:	ALS	UPS (FE	DEX VE	LOCITY CLI	ENT	_
		outside of cooler	r?		Y (N) 5a	Perchi	orate s	amples hav	e required l	eadspace?	Y N	(NA)
2 Custody	papers proper	ly completed (inl	k, signe	d)?	Y (1) 5b	Did V	OA vial	s, Alk,or Su	lfide have	sig* bubbles?		DNA
3 Did all bo	ttles arrive in	good condition (unbrok	en)?	Y N ¥ 6	Where	did the	bottles orig	inate?	ALS/ROC	CLIE	
4 Circle: 🗸	Vet Ice Dry	Ice Gel packs	pres	ent?	YON 7	Soil V	OA rec	eived as:	Bulk	Encore 503	5set ([A]
. Temperature	e Readings	Date: 9 11	ય	Time:	9:45	ID:	IR#7(IR#11	Fron	n: Temp Blan	R Semi	le Bottle
Observed Te	mp (°C)	9.7	`	13.4							 	
Within 0-6°C		Ý 🗗	3			0	Y		Y N	Y N	Y	$\frac{N}{N}$
	e samples froz		L_			N	Y		Y N	YN	Y Same D	N Puls
If out of T	emperature,	note packing/ice	e condi	tion:			-	oorly Packe			Same D	ay Rule
&Client A	pproval to R	un Samples:		_						inted by		
All samples	held in storag	e location:	Plos			n 9/11/2	_ ~				• •	™ T
		orage location:		t	oy o	n	_ at _	with	in 48 hour	s of sampling?	Y	N
Cooler Bre	akdown/Prese	rvation Check**	: Date	:	7/14/21	_Time:_	124		_by:@	2		
9. V	Vere all bottle	labels complete (<i>i.e</i> . ana	ılysıs,	preservation, et	c.)?		(YES)	NO			
	id all bottle la	bels and tags agr	ee with	custo	dy papers?			ALES.	NO NO			
		ntainers used for						YES	NO NO		NIΔ	
12. V	Vere 5035 vial	s acceptable (no	extra la	ibels, i	not leaking)?	G		1.50		Bags Inflated		
		assettes / Tubes						ssurized		 -		Final
pН	Lot of test	Reagent	Preser	,	Lot Received		Exp	Sample II Adjusted) Vol. Add	l l	160	pH
	paper	31.011	Yes	No	214719		4/22	Aujusteu	Add	- Lu		P.,
≥12	203418	NaOH HNO₃	1	 	112004		112					
≤2		H ₂ SO ₄	-		11701		 	 				
<u>≤2</u> <4	<u> </u>	NaHSO ₄	V	 	1401-43		_					
5-9	·	For 608pest	 		No=Notify for	3day	1					
Residual	<u> </u>	For CN	 	\vdash	If +, contact PN					-		
Chlorine	-	Phenol, 625,	/		Na ₂ S ₂ O ₃ (625,	608,						
(-)		608pest, 522			CN), ascorbic (phenol).						
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		Na ₂ S ₂ O ₃	<u> </u>									
<u> </u>	I	ZnAcetate	1-	-				**VOAs ar	d 1664 Not t	be tested before	analysis. hamical pre	cervatives
		HCI	**	**				Otherwise,	all bottles of (not just rep	all samples with c resentatives).	nemicai pre	SCIVALIVES
			, 	J	<u> </u>		_l	1	<u></u>			
Dottle lot	numbers:	596 Chent	ν.	1/1-	16 76630	- 1.27	15. 0	21-04-30	_			
Evolain a	II Discrenanci	es/ Other Comm	ients:	<u>. v. v</u>	, , , ,							
						. u		1				
VT1	C-LQ -	- ST13 - C	9102	02	, react	ivity	Na	, broi	en c	ap,		
711			• •	_		_			1 .	·		
TK	LQ-	ST 22 ~	9102 د	021	8260 T	CLY) ~	11a(.	5 hatte	red		
			•									
ZMi	(s) 1	NO.	boH	le								
KILL) (m)	,								HP	ROD B	ULK
										HT	R FI	_DT
										SU	в) н	GFB
										Al		L3541
										LAI	~	
Labels	secondary re	eviewed by:_	a									
	ondary Rev				*sig	gnificant	air bub	bles: VOA	> 5-6 mm	: WC >1 in. d	iameter	

03/02/2021

Internal Chain of Custody Report

Client: Inventum Engineering

Project: RITC Tanks

Service Request: R2109410

isposed On

Internal Chain of Custody Report

Client: Inventum Engineering

Project: RITC Tanks

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2109410-001.22					
	Kelada-01				
		9/14/2021	1248	SMO / GESMERIAN	
		9/15/2021	0928	RT000703 / GLAFORCE	
		9/15/2021	0928	R-015 / GLAFORCE	
		10/1/2021	1506	R-002 / GESMERIAN	
R2109410-001.23					
	8260C				
		9/14/2021	1248	SMO / GESMERIAN	
		9/14/2021	1256	R-001 / GESMERIAN	
		9/21/2021	1721	In Lab / KRUEST	
		9/21/2021	1737	R-001-S12 / KRUEST	
R2109410-001.24					
		9/14/2021	1248	SMO / GESMERIAN	
		9/14/2021	1256	R-001 / GESMERIAN	
R2109410-001.25					
		9/14/2021	1248	SMO / GESMERIAN	
		9/14/2021	1256	R-001 / GESMERIAN	
R2109410-001.26					
	8270D				
		9/14/2021	1250	SMO / GESMERIAN	
		9/14/2021	1257	R-002 / GESMERIAN	
		9/15/2021	0808	In Lab / VSTAUFFER	
R2109410-001.27					
		9/14/2021	1250	SMO / GESMERIAN	
		9/14/2021	1257	R-002 / GESMERIAN	
R2109410-001.28					
		9/14/2021	1250	SMO / GESMERIAN	
		9/14/2021	1257	R-002 / GESMERIAN	
R2109410-001.29					
	8151A				
		9/14/2021	1250	SMO / GESMERIAN	
		9/14/2021	1257	R-002 / GESMERIAN	
		9/15/2021	0808	In Lab / VSTAUFFER	

Internal Chain of Custody Report

Client: Inventum Engineering

Project: RITC Tanks

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		9/14/2021	1250	SMO / GESMERIAN	
		9/14/2021	1257	R-002 / GESMERIAN	
R2109410-002.01					
	350.1,353.2				
		9/14/2021	1248	SMO / GESMERIAN	
		9/15/2021	1147	RT000226 / GLAFORCE	
		9/15/2021	1147	R-016 / GLAFORCE	
		9/29/2021	1549	R-002 / GLAFORCE	
R2109410-002.03					
	7470A				
		9/14/2021	1248	SMO / GESMERIAN	
		9/14/2021	1257	R-002 / GESMERIAN	
		9/17/2021	1240	In Lab / BDIAMOND	
		9/17/2021	1548	R-A01 / BDIAMOND	
R2109410-002.04					
	8081B,8082A				
		9/14/2021	1248	SMO / GESMERIAN	
		9/14/2021	1257	R-002 / GESMERIAN	
		9/16/2021	0837	In Lab / VSTAUFFER	
R2109410-002.06					
		9/14/2021	1248	SMO / GESMERIAN	
		9/14/2021	1257	SUBBED / GESMERIAN	
R2109410-002.08					
	ASTM D4809-06				
		9/14/2021	1248	SMO / GESMERIAN	
R2109410-002.09	<u></u>		<u></u>	COLOG COLOG COLOG COLOG	
				.6010C,6010C,6010C,6010C,6010 C,6010C,6010C,6010C,6010C,601	
	•	9/14/2021	1248	SMO / GESMERIAN	
		9/14/2021	1257	R-A01 / GESMERIAN	
		9/21/2021	1049	In Lab / BDIAMOND	
		9/21/2021	1237	R-A01 / BDIAMOND	
		9/22/2021	1326	In Lab / BDIAMOND	
		9/23/2021	0925	R-A01 / BDIAMOND	
R2109410-002.18					
	300.0,353.2,9040C				
	, ,				
	, ,	9/14/2021	1248	SMO / GESMERIAN	

Internal Chain of Custody Report

Client: Inventum Engineering

Project: RITC Tanks

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	300.0,353.2,9040C				
		9/15/2021	1337	R-017 / GLAFORCE	
		9/15/2021	1337	R-017 / GLAFORCE	
		9/30/2021	1510	R-002 / GESMERIAN	
R2109410-002.22					
	Kelada-01				
		9/14/2021	1248	SMO / GESMERIAN	
		9/15/2021	0928	RT000703 / GLAFORCE	
		9/15/2021	0928	R-015 / GLAFORCE	
		10/1/2021	1506	R-002 / GESMERIAN	
R2109410-002.23					
		9/14/2021	1248	SMO / GESMERIAN	
		9/14/2021	1256	R-001 / GESMERIAN	
R2109410-002.24					
	8260C				
		9/14/2021	1248	SMO / GESMERIAN	
		9/14/2021	1256	R-001 / GESMERIAN	
		9/21/2021	1721	In Lab / KRUEST	
		9/21/2021	1737	R-001-S12 / KRUEST	
R2109410-002.25					
		9/14/2021	1248	SMO / GESMERIAN	
		9/14/2021	1256	R-001 / GESMERIAN	
R2109410-002.26					
	8270D				
		9/14/2021	1250	SMO / GESMERIAN	
		9/14/2021	1257	R-002 / GESMERIAN	
		9/15/2021	0808	In Lab / VSTAUFFER	
R2109410-002.27					
		9/14/2021	1250	SMO / GESMERIAN	
		9/14/2021	1257	R-002 / GESMERIAN	
R2109410-002.28					
	8151A				
		9/14/2021	1250	SMO / GESMERIAN	
		9/14/2021	1257	R-002 / GESMERIAN	
		9/15/2021	0808	In Lab / VSTAUFFER	
R2109410-002.29					
		9/14/2021	1250	SMO / GESMERIAN	
	50 D. (Page 14 of 108		
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Internal Chain of Custody Report

Client: Inventum Engineering

Project: RITC Tanks

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		9/14/2021	1257	R-002 / GESMERIAN	
R2109410-002.30					
		9/14/2021	1250	SMO / GESMERIAN	
		9/14/2021	1257	R-002 / GESMERIAN	
R2109410-003.01					
	350.1,353.2				
		9/14/2021	1248	SMO / GESMERIAN	
		9/15/2021	1147	RT000226 / GLAFORCE	
		9/15/2021	1147	R-016 / GLAFORCE	
		9/29/2021	1549	R-002 / GLAFORCE	
R2109410-003.03					
	7470A	9/14/2021	1248	SMO / GESMERIAN	
		9/14/2021	1246	R-002 / GESMERIAN	
		9/14/2021	1237	In Lab / BDIAMOND	
		9/17/2021	1549	R-A01 / BDIAMOND	
D2100410 002 04		7/11/2021	1347	K-AUI / BDIAWOND	
R2109410-003.04	8270D				
	02100	9/14/2021	1248	SMO / GESMERIAN	
		9/14/2021	1257	R-002 / GESMERIAN	
		9/15/2021	0808	In Lab / VSTAUFFER	
R2109410-003.06					
		9/14/2021	1248	SMO / GESMERIAN	
		9/14/2021	1257	SUBBED / GESMERIAN	
R2109410-003.08					
	ASTM D4809-06				
		9/14/2021	1248	SMO / GESMERIAN	
		9/14/2021	1257	SUBBED / GESMERIAN	
R2109410-003.09					
				6010C,6010C,6010C,6010C,6010 C,6010C,6010C,6010C,6010C,601	
	, , , , , , , , ,	9/14/2021	1248	SMO / GESMERIAN	
		9/14/2021	1257	R-A01 / GESMERIAN	
		9/21/2021	1049	In Lab / BDIAMOND	
		9/21/2021	1238	R-A01 / BDIAMOND	
		9/22/2021	1326	In Lab / BDIAMOND	
		9/23/2021	0925	R-A01 / BDIAMOND	

Internal Chain of Custody Report

Client: Inventum Engineering

Project: RITC Tanks

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Service Request: R2109410

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
2109410-003.18	200 0 272 2 20 12				
	300.0,353.2,9040C		1040	CMO / CECMEDIAN	
		9/14/2021 9/15/2021	1248 1337	SMO / GESMERIAN R-017 / GLAFORCE	
		9/15/2021	1337	R-017 / GLAFORCE RT000540 / GLAFORCE	
		9/15/2021	1337	R-017 / GLAFORCE	
		9/13/2021	1510	R-002 / GESMERIAN	
R2109410-003.22		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	Kelada-01				
		9/14/2021	1248	SMO / GESMERIAN	
		9/15/2021	0928	RT000703 / GLAFORCE	
		9/15/2021	0928	R-015 / GLAFORCE	
		10/1/2021	1506	R-002 / GESMERIAN	
22109410-003.23					
	8260C	9/14/2021	1240	SMO / GESMERIAN	
			1248	SMO / GESMERIAN R-001 / GESMERIAN	
		9/14/2021 9/21/2021	1256 1721	R-001 / GESMERIAN In Lab / KRUEST	
		9/21/2021 9/21/2021	1721	In Lab / KRUEST R-001-S12 / KRUEST	
R2109410-003.24		7/41/4041	1/3/	K-001-312 / KKUE31	
X 41U941U-UU3.44					
		9/14/2021	1248	SMO / GESMERIAN	
		9/14/2021	1256	R-001 / GESMERIAN	
R2109410-003.25					
		0/14/2024	10.40	anto / aran repy to	
		9/14/2021	1248	SMO / GESMERIAN	
2100410 002 24		9/14/2021	1256	R-001 / GESMERIAN	
R2109410-003.26	8151A				
	010111	9/14/2021	1250	SMO / GESMERIAN	
		9/14/2021	1257	R-002 / GESMERIAN	
		9/15/2021	0808	In Lab / VSTAUFFER	
R2109410-003.27					
		0/14/2021	1250	SMO / GESMERIAN	
		9/14/2021 9/14/2021	1250 1257	R-002 / GESMERIAN	
R2109410-003.28		7/14/2U21	1437	K-UUZ / UESWEKIAN	
X 2107410-003,28					
		9/14/2021	1250	SMO / GESMERIAN	
		9/14/2021	1257	R-002 / GESMERIAN	

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Internal Chain of Custody Report

Client: Inventum Engineering

Project: RITC Tanks

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		9/14/2021	1250	SMO / GESMERIAN	
		9/14/2021	1257	R-002 / GESMERIAN	
R2109410-003.30					
	8081B,8082A				
		9/14/2021	1250	SMO / GESMERIAN	
		9/14/2021	1257	R-002 / GESMERIAN	



Miscellaneous Forms

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com



REPORT QUALIFIERS AND DEFINITIONS

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
- J Estimated value due to either being a
 Tentatively Identified Compound (TIC) or
 that the concentration is between the MRL
 and the MDL. Concentrations are not verified
 within the linear range of the calibration. For
 DoD: concentration >40% difference between
 two GC columns (pesticides/Arclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
- * Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
- H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
- # Spike was diluted out.

P:\INTRANET\QAQC\Forms Controlled\QUALIF_routine rev 6.doc

- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
- X See Case Narrative for discussion.
- MRL Method Reporting Limit. Also known as:
- LOQ Limit of Quantitation (LOQ)

 The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
- MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
- LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.
- ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Accreditations1



NELAP States	
Florida ID # E87674	
New Hampshire ID # 2941	
New York ID # 10145	
Pennsylvania ID# 68-786	
Virginia #460167	

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental

9/30/21

ALS Laboratory Group

Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but

greater than or equal to the MDL.

Analyst Summary report

Client: Inventum Engineering Service Request: R2109410

Project: RITC Tanks/

 Sample Name:
 TK-LQ-ST22-09102021
 Date Collected: 09/10/21

 Lab Code:
 R2109410-001
 Date Received: 09/11/21

Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		SMORGAN
350.1		SMEDBURY
353.2		SMEDBURY
353.2		MROGERSON
6010C	BDIAMOND	KMCLAEN
6020A	BDIAMOND	KMCLAEN
7470A	BDIAMOND	NMANSEN
8081B	KSERCU	AMOSES
8082A	KSERCU	AMOSES
<u>8</u> 151A	KSERCU	AMOSES
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ
9040C		KAWONG
ASTM D4809-06		WHYATT
Kelada-01		CWOODS

 Sample Name:
 TK-LQ-ST23-09102021
 Date Collected: 09/10/21

 Lab Code:
 R2109410-002
 Date Received: 09/11/21

Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		SMORGAN
350.1		SMEDBURY
353.2		MROGERSON
353.2		SMEDBURY
6010C	BDIAMOND	KMCLAEN
6020A	BDIAMOND	KMCLAEN
7470A	BDIAMOND	NMANSEN
8081B	KSERCU	AMOSES
8082A	KSERCU	AMOSES
8151A	KSERCU	AMOSES
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ
9040C		KAWONG

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Superset Reference:21-0000603479 rev 00

Analyst Summary report

Client: Inventum Engineering Service Request: R2109410

Project: RITC Tanks/

Sample Name: TK-LQ-ST23-09102021 **Date Collected:** 09/10/21

Lab Code: R2109410-002 **Date Received:** 09/11/21

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

ASTM D4809-06 WHYATT Kelada-01 CWOODS

Sample Name: TK-LQ-ST24-09102021 Date Collected: 09/10/21

Lab Code: R2109410-003 **Date Received:** 09/11/21

Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		SMORGAN
350.1		SMEDBURY
353.2		MROGERSON
353.2		SMEDBURY
<u>6010C</u>	BDIAMOND	KMCLAEN
6020A	BDIAMOND	KMCLAEN
7470A	BDIAMOND	NMANSEN
8081B	KSERCU	AMOSES
8082A	KSERCU	AMOSES
8151A	KSERCU	AMOSES
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ
9040C		KAWONG
ASTM D4809-06		WHYATT
Kelada-01		CWOODS



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method		
6010C	3050B		
6020A	3050B		
6010C TCLP (1311)	3005A/3010A		
extract			
6010 SPLP (1312) extract	3005A/3010A		
7199	3060A		
300.0 Anions/ 350.1/	DI extraction		
353.2/ SM 2320B/ SM			
5210B/ 9056A Anions			
For analytical methods not listed, the preparation method is the same as the analytical method reference.			



Sample Results

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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com

Analytical Report

Client: Inventum Engineering

Service Request: R2109410 **Date Collected:** 09/10/21 **Project:** RITC Tanks

Sample Matrix: Water **Date Received:** 09/11/21 09:35

Sample Name: TK-LQ-ST22-09102021 Units: ug/L Lab Code: R2109410-001 Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.20 U	5.0	0.20	1	09/22/21 06:46	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	09/22/21 06:46	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	09/22/21 06:46	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	09/22/21 06:46	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	09/22/21 06:46	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	09/22/21 06:46	
1,2,3-Trichlorobenzene	0.25 U	5.0	0.25	1	09/22/21 06:46	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	09/22/21 06:46	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	09/22/21 06:46	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	09/22/21 06:46	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	09/22/21 06:46	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	09/22/21 06:46	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	09/22/21 06:46	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	09/22/21 06:46	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	09/22/21 06:46	
1,4-Dioxane	13 U	100	13	1	09/22/21 06:46	
2-Butanone (MEK)	0.78 U	10	0.78	1	09/22/21 06:46	
2-Hexanone	0.20 U	10	0.20	1	09/22/21 06:46	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	09/22/21 06:46	
Acetone	5.0 U	10	5.0	1	09/22/21 06:46	
Benzene	1.0 J	5.0	0.20	1	09/22/21 06:46	
Bromochloromethane	0.20 U	5.0	0.20	1	09/22/21 06:46	
Bromodichloromethane	0.20 U	5.0	0.20	1	09/22/21 06:46	
Bromoform	0.25 U	5.0	0.25	1	09/22/21 06:46	
Bromomethane	0.70 U	5.0	0.70	1	09/22/21 06:46	
Carbon Disulfide	0.42 U	10	0.42	1	09/22/21 06:46	
Carbon Tetrachloride	0.42 U	5.0	0.34	1	09/22/21 06:46	
Chlorobenzene	0.20 U	5.0	0.20	1	09/22/21 06:46	
Chloroethane	0.20 U	5.0	0.23	1	09/22/21 06:46	
Chloroform	0.23 U 0.24 U	5.0	0.23	1	09/22/21 06:46	
Chloromethane	0.24 U	5.0	0.24	1	09/22/21 06:46	
Cyclohexane	0.26 U	10	0.26	1	09/22/21 06:46	
Dibromochloromethane	0.20 U	5.0	0.20	1	09/22/21 06:46	
Dichlorodifluoromethane (CFC 12)	0.20 U	5.0	0.20	1	09/22/21 06:46	
Dichloromethane (CFC 12)	0.21 U 0.65 U	5.0	0.21	1	09/22/21 06:46	
Ethylbenzene	0.03 U 0.20 U	5.0	0.03	1	09/22/21 06:46	
	0.20 U	5.0	0.20	1	09/22/21 06:46	
Isopropylbenzene (Cumene)	0.20 U 0.33 U	10	0.20	1	09/22/21 06:46	
Methyl Acetate						
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	09/22/21 06:46	
Methylcyclohexane	0.20 U	10	0.20	1	09/22/21 06:46	
Styrene	0.20 U	5.0	0.20	1	09/22/21 06:46	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	09/22/21 06:46	
Toluene	0.63 J	5.0	0.20	1	09/22/21 06:46	

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Superset Reference:21-0000603479 rev 00

Analytical Report

Client: Inventum Engineering

Project: RITC Tanks

Sample Matrix: Water

Service Request: R2109410

Date Collected: 09/10/21

Date Received: 09/11/21 09:35

Sample Name: TK-LQ-ST22-09102021

Lab Code: R2109410-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	09/22/21 06:46	_
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	09/22/21 06:46	
Vinyl Chloride	0.20 U	5.0	0.20	1	09/22/21 06:46	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	09/22/21 06:46	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	09/22/21 06:46	
m,p-Xylenes	0.45 J	5.0	0.20	1	09/22/21 06:46	
o-Xylene	0.20 U	5.0	0.20	1	09/22/21 06:46	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	09/22/21 06:46	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	09/22/21 06:46	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	09/22/21 06:46	
Dibromofluoromethane	109	80 - 116	09/22/21 06:46	
Toluene-d8	110	87 - 121	09/22/21 06:46	

Analytical Report

Client: Inventum Engineering

Service Request: R2109410 **Date Collected:** 09/10/21 **Project:** RITC Tanks

Sample Matrix: Water **Date Received:** 09/11/21 09:35

Sample Name: TK-LQ-ST23-09102021 Units: ug/L Lab Code: R2109410-002 Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	2.0 U	50	2.0	10	09/22/21 07:30	
1,1,2,2-Tetrachloroethane	2.0 U	50	2.0	10	09/22/21 07:30	
1,1,2-Trichloroethane	2.0 U	50	2.0	10	09/22/21 07:30	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0 U	50	2.0	10	09/22/21 07:30	
1,1-Dichloroethane (1,1-DCA)	2.0 U	50	2.0	10	09/22/21 07:30	
1,1-Dichloroethene (1,1-DCE)	2.0 U	50	2.0	10	09/22/21 07:30	
1,2,3-Trichlorobenzene	2.5 U	50	2.5	10	09/22/21 07:30	
1,2,4-Trichlorobenzene	3.4 U	50	3.4	10	09/22/21 07:30	
1,2-Dibromo-3-chloropropane (DBCP)	4.5 U	50	4.5	10	09/22/21 07:30	
1,2-Dibromoethane	2.0 U	50	2.0	10	09/22/21 07:30	
1,2-Dichlorobenzene	2.0 U	50	2.0	10	09/22/21 07:30	
1,2-Dichloroethane	2.0 U	50	2.0	10	09/22/21 07:30	
1,2-Dichloropropane	2.0 U	50	2.0	10	09/22/21 07:30	
1,3-Dichlorobenzene	2.0 U	50	2.0	10	09/22/21 07:30	
1,4-Dichlorobenzene	2.0 U	50	2.0	10	09/22/21 07:30	
1,4-Dioxane	130 U	1000	130	10	09/22/21 07:30	
2-Butanone (MEK)	11 J	100	7.8	10	09/22/21 07:30	
2-Hexanone	2.0 U	100	2.0	10	09/22/21 07:30	
4-Methyl-2-pentanone	2.0 U	100	2.0	10	09/22/21 07:30	
Acetone	50 U	100	50	10	09/22/21 07:30	
Benzene	440	50	2.0	10	09/22/21 07:30	
Bromochloromethane	2.0 U	50	2.0	10	09/22/21 07:30	
Bromodichloromethane	2.0 U	50	2.0	10	09/22/21 07:30	
Bromoform	2.5 U	50	2.5	10	09/22/21 07:30	
Bromomethane	7.0 U	50	7.0	10	09/22/21 07:30	
Carbon Disulfide	4.2 U	100	4.2	10	09/22/21 07:30	
Carbon Tetrachloride	3.4 U	50	3.4	10	09/22/21 07:30	
Chlorobenzene	2.0 U	50	2.0	10	09/22/21 07:30	
Chloroethane	2.3 U	50	2.3	10	09/22/21 07:30	
Chloroform	2.4 U	50	2.4	10	09/22/21 07:30	
Chloromethane	2.8 U	50	2.8	10	09/22/21 07:30	
Cyclohexane	2.6 U	100	2.6	10	09/22/21 07:30	
Dibromochloromethane	2.0 U	50	2.0	10	09/22/21 07:30	
Dichlorodifluoromethane (CFC 12)	2.1 U	50	2.1	10	09/22/21 07:30	
Dichloromethane (CFC 12)	6.5 U	50	6.5	10	09/22/21 07:30	
Ethylbenzene	4.4 J	50	2.0	10	09/22/21 07:30	
Isopropylbenzene (Cumene)	2.0 U	50	2.0	10	09/22/21 07:30	
Methyl Acetate	3.3 U	100	3.3	10	09/22/21 07:30	
Methyl tert-Butyl Ether	2.0 U	50	2.0	10	09/22/21 07:30	
Methylcyclohexane	2.0 U	100	2.0	10	09/22/21 07:30	
Styrene	14 J	50	2.0	10	09/22/21 07:30	
Tetrachloroethene (PCE)	2.1 U	50	2.0	10	09/22/21 07:30	
Toluene	170	50 50	2.1	10	09/22/21 07:30	
TOTUCITE	1/0	30	∠.∪	10	03/22/21 07:30	

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Superset Reference:21-0000603479 rev 00

Analytical Report

Client: Inventum Engineering

Project: RITC Tanks

Sample Matrix: Water **Date Collected:** 09/10/21

Service Request: R2109410

Date Received: 09/11/21 09:35

Sample Name: TK-LQ-ST23-09102021

Lab Code: R2109410-002 Units: ug/L Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	2.0 U	50	2.0	10	09/22/21 07:30	
Trichlorofluoromethane (CFC 11)	2.4 U	50	2.4	10	09/22/21 07:30	
Vinyl Chloride	2.0 U	50	2.0	10	09/22/21 07:30	
cis-1,2-Dichloroethene	2.3 U	50	2.3	10	09/22/21 07:30	
cis-1,3-Dichloropropene	2.0 U	50	2.0	10	09/22/21 07:30	
m,p-Xylenes	63	50	2.0	10	09/22/21 07:30	
o-Xylene	19 Ј	50	2.0	10	09/22/21 07:30	
trans-1,2-Dichloroethene	2.0 U	50	2.0	10	09/22/21 07:30	
trans-1,3-Dichloropropene	2.3 U	50	2.3	10	09/22/21 07:30	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	107	85 - 122	09/22/21 07:30	
Dibromofluoromethane	105	80 - 116	09/22/21 07:30	
Toluene-d8	109	87 - 121	09/22/21 07:30	

Analytical Report

Client: Inventum Engineering

Service Request: R2109410 **Date Collected:** 09/10/21 **Project:** RITC Tanks

Sample Matrix: Water **Date Received:** 09/11/21 09:35

Sample Name: TK-LQ-ST24-09102021 Units: ug/L Lab Code: R2109410-003 Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	2.0 U	50	2.0	10	09/22/21 07:08	
1,1,2,2-Tetrachloroethane	2.0 U	50	2.0	10	09/22/21 07:08	
1,1,2-Trichloroethane	2.0 U	50	2.0	10	09/22/21 07:08	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0 U	50	2.0	10	09/22/21 07:08	
1,1-Dichloroethane (1,1-DCA)	2.0 U	50	2.0	10	09/22/21 07:08	
1,1-Dichloroethene (1,1-DCE)	2.0 U	50	2.0	10	09/22/21 07:08	
1,2,3-Trichlorobenzene	2.5 U	50	2.5	10	09/22/21 07:08	
1,2,4-Trichlorobenzene	3.4 U	50	3.4	10	09/22/21 07:08	
1,2-Dibromo-3-chloropropane (DBCP)	4.5 U	50	4.5	10	09/22/21 07:08	
1,2-Dibromoethane	2.0 U	50	2.0	10	09/22/21 07:08	
1,2-Dichlorobenzene	2.0 U	50	2.0	10	09/22/21 07:08	
1,2-Dichloroethane	2.0 U	50	2.0	10	09/22/21 07:08	
1,2-Dichloropropane	2.0 U	50	2.0	10	09/22/21 07:08	
1,3-Dichlorobenzene	2.0 U	50	2.0	10	09/22/21 07:08	
1,4-Dichlorobenzene	2.0 U	50	2.0	10	09/22/21 07:08	
1,4-Dioxane	130 U	1000	130	10	09/22/21 07:08	
2-Butanone (MEK)	7.8 U	100	7.8	10	09/22/21 07:08	
2-Hexanone	2.0 U	100	2.0	10	09/22/21 07:08	
4-Methyl-2-pentanone	2.0 U	100	2.0	10	09/22/21 07:08	
Acetone	50 U	100	50	10	09/22/21 07:08	
Benzene	2.0 U	50	2.0	10	09/22/21 07:08	
Bromochloromethane	2.0 U	50	2.0	10	09/22/21 07:08	
Bromodichloromethane	2.0 U	50	2.0	10	09/22/21 07:08	
Bromoform	2.5 U	50	2.5	10	09/22/21 07:08	
Bromomethane	7.0 U	50	7.0	10	09/22/21 07:08	
Carbon Disulfide	4.2 U	100	4.2	10	09/22/21 07:08	
Carbon Tetrachloride	3.4 U	50	3.4	10	09/22/21 07:08	
Chlorobenzene	2.0 U	50	2.0	10	09/22/21 07:08	
Chloroethane	2.3 U	50	2.3	10	09/22/21 07:08	
Chloroform	2.4 U	50	2.4	10	09/22/21 07:08	
Chloromethane	2.8 U	50	2.8	10	09/22/21 07:08	
Cyclohexane	2.6 U	100	2.6	10	09/22/21 07:08	
Dibromochloromethane	2.0 U	50	2.0	10	09/22/21 07:08	
Dichlorodifluoromethane (CFC 12)	2.1 U	50	2.1	10	09/22/21 07:08	
Dichloromethane	6.5 U	50	6.5	10	09/22/21 07:08	
Ethylbenzene	2.0 U	50	2.0	10	09/22/21 07:08	
Isopropylbenzene (Cumene)	2.0 U	50	2.0	10	09/22/21 07:08	
Methyl Acetate	3.3 U	100	3.3	10	09/22/21 07:08	
Methyl tert-Butyl Ether	2.0 U	50	2.0	10	09/22/21 07:08	
Methylcyclohexane	2.0 U	100	2.0	10	09/22/21 07:08	
Styrene	2.0 U	50	2.0	10	09/22/21 07:08	
Tetrachloroethene (PCE)	2.1 U	50	2.1	10	09/22/21 07:08	
Toluene	2.0 U	50	2.0	10	09/22/21 07:08	

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Superset Reference:21-0000603479 rev 00

Analytical Report

Client: Inventum Engineering

Project: RITC Tanks

Sample Matrix: Water

Service Request: R2109410

Date Collected: 09/10/21

Date Received: 09/11/21 09:35

Units: ug/L

Basis: NA

Sample Name: TK-LQ-ST24-09102021 **Lab Code:** R2109410-003

R2109410-003

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	2.0 U	50	2.0	10	09/22/21 07:08	
Trichlorofluoromethane (CFC 11)	2.4 U	50	2.4	10	09/22/21 07:08	
Vinyl Chloride	2.0 U	50	2.0	10	09/22/21 07:08	
cis-1,2-Dichloroethene	2.3 U	50	2.3	10	09/22/21 07:08	
cis-1,3-Dichloropropene	2.0 U	50	2.0	10	09/22/21 07:08	
m,p-Xylenes	2.0 U	50	2.0	10	09/22/21 07:08	
o-Xylene	2.0 U	50	2.0	10	09/22/21 07:08	
trans-1,2-Dichloroethene	2.0 U	50	2.0	10	09/22/21 07:08	
trans-1,3-Dichloropropene	2.3 U	50	2.3	10	09/22/21 07:08	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	09/22/21 07:08	
Dibromofluoromethane	103	80 - 116	09/22/21 07:08	
Toluene-d8	111	87 - 121	09/22/21 07:08	



Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com

Analytical Report

Client: Inventum Engineering

Service Request: R2109410 **Date Collected:** 09/10/21 **Project:** RITC Tanks

Sample Matrix: Water **Date Received:** 09/11/21 09:35

Sample Name: TK-LQ-ST22-09102021 Units: ug/L Lab Code: R2109410-001 Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D **Prep Method:** EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	1.2 U	9.1	1.2	1	09/17/21 17:03	9/15/21	
2,3,4,6-Tetrachlorophenol	1.2 U	9.1	1.2	1	09/17/21 17:03	9/15/21	
2,4,5-Trichlorophenol	1.1 U	9.1	1.1	1	09/17/21 17:03	9/15/21	
2,4,6-Trichlorophenol	1.4 U	9.1	1.4	1	09/17/21 17:03	9/15/21	
2,4-Dichlorophenol	1.3 U	9.1	1.3	1	09/17/21 17:03	9/15/21	
2,4-Dimethylphenol	1.4 U	9.1	1.4	1	09/17/21 17:03	9/15/21	
2,4-Dinitrophenol	20 U	45	20	1	09/17/21 17:03	9/15/21	
2,4-Dinitrotoluene	2.4 U	9.1	2.4	1	09/17/21 17:03	9/15/21	
2,6-Dinitrotoluene	1.4 U	9.1	1.4	1	09/17/21 17:03	9/15/21	
2-Chloronaphthalene	1.4 U	9.1	1.4	1	09/17/21 17:03	9/15/21	
2-Chlorophenol	1.1 U	9.1	1.1	1	09/17/21 17:03	9/15/21	
2-Methylnaphthalene	11	9.1	1.3	1	09/17/21 17:03	9/15/21	
2-Methylphenol	1.0 U	9.1	1.0	1	09/17/21 17:03	9/15/21	
2-Nitroaniline	1.4 U	9.1	1.4	1	09/17/21 17:03	9/15/21	
2-Nitrophenol	1.5 U	9.1	1.5	1	09/17/21 17:03	9/15/21	
3,3'-Dichlorobenzidine	1.2 U	9.1	1.2	1	09/17/21 17:03	9/15/21	
3- and 4-Methylphenol Coelution	1.3 J	9.1	1.2	1	09/17/21 17:03	9/15/21	
3-Nitroaniline	1.1 U	9.1	1.1	1	09/17/21 17:03	9/15/21	
4,6-Dinitro-2-methylphenol	8.7 U	45	8.7	1	09/17/21 17:03	9/15/21	
4-Bromophenyl Phenyl Ether	1.7 U	9.1	1.7	1	09/17/21 17:03	9/15/21	
4-Chloro-3-methylphenol	1.1 U	9.1	1.1	1	09/17/21 17:03	9/15/21	
4-Chloroaniline	1.0 U	9.1	1.0	1	09/17/21 17:03	9/15/21	
4-Chlorophenyl Phenyl Ether	1.5 U	9.1	1.5	1	09/17/21 17:03	9/15/21	
4-Nitroaniline	1.4 U	9.1	1.4	1	09/17/21 17:03	9/15/21	
4-Nitrophenol	6.4 U	45	6.4	1	09/17/21 17:03	9/15/21	
Acenaphthene	1.8 J	9.1	1.4	1	09/17/21 17:03	9/15/21	
Acenaphthylene	13	9.1	1.4	1	09/17/21 17:03	9/15/21	
Acetophenone	1.3 U	9.1	1.3	1	09/17/21 17:03	9/15/21	
Anthracene	11	9.1	1.3	1	09/17/21 17:03	9/15/21	
Atrazine	2.1 U	9.1	2.1	1	09/17/21 17:03	9/15/21	
Benz(a)anthracene	57	9.1	1.6	1	09/17/21 17:03	9/15/21	
Benzaldehyde	1.0 U	9.1	1.0	1	09/17/21 17:03	9/15/21	
Benzo(a)pyrene	47	9.1	1.2	1	09/17/21 17:03	9/15/21	
Benzo(b)fluoranthene	53	9.1	1.2	1	09/17/21 17:03	9/15/21	
Benzo(g,h,i)perylene	19	9.1	1.0	1	09/17/21 17:03	9/15/21	
Benzo(k)fluoranthene	21	9.1	1.3	1	09/17/21 17:03	9/15/21	
Biphenyl	2.5 J	9.1	1.4	1	09/17/21 17:03	9/15/21	
2,2'-Oxybis(1-chloropropane)	1.4 U	9.1	1.4	1	09/17/21 17:03	9/15/21	
Bis(2-chloroethoxy)methane	1.9 U	9.1	1.9	1	09/17/21 17:03	9/15/21	
Bis(2-chloroethyl) Ether	1.3 U	9.1	1.3	1	09/17/21 17:03	9/15/21	
Bis(2-ethylhexyl) Phthalate	7.8 U	9.1	7.8	1	09/17/21 17:03	9/15/21	
Butyl Benzyl Phthalate	1.4 U	9.1	1.4	1	09/17/21 17:03	9/15/21	
Caprolactam	1.0 U	9.1	1.0	1	09/17/21 17:03	9/15/21	
Capiolaciani	1.0 0	7.1	1.0	1	07/11/21 11.03	7/13/21	

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Superset Reference:21-0000603479 rev 00

Analytical Report

Client: Inventum Engineering

Project: RITC Tanks

Sample Matrix: Water

Service Request: R2109410 **Date Collected:** 09/10/21

Date Received: 09/11/21 09:35

Sample Name: TK-LQ-ST22-09102021

Lab Code: R2109410-001

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D **Prep Method:** EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	26	9.1	1.6	1	09/17/21 17:03	9/15/21	
Chrysene	61	9.1	1.2	1	09/17/21 17:03	9/15/21	
Di-n-butyl Phthalate	1.7 U	9.1	1.7	1	09/17/21 17:03	9/15/21	
Di-n-octyl Phthalate	3.3 U	9.1	3.3	1	09/17/21 17:03	9/15/21	
Dibenz(a,h)anthracene	8.6 J	9.1	1.1	1	09/17/21 17:03	9/15/21	
Dibenzofuran	10	9.1	1.4	1	09/17/21 17:03	9/15/21	
Diethyl Phthalate	1.1 U	9.1	1.1	1	09/17/21 17:03	9/15/21	
Dimethyl Phthalate	1.3 U	9.1	1.3	1	09/17/21 17:03	9/15/21	
Fluoranthene	40	9.1	1.5	1	09/17/21 17:03	9/15/21	
Fluorene	19	9.1	1.3	1	09/17/21 17:03	9/15/21	
Hexachlorobenzene	1.6 U	9.1	1.6	1	09/17/21 17:03	9/15/21	
Hexachlorobutadiene	1.0 U	9.1	1.0	1	09/17/21 17:03	9/15/21	
Hexachlorocyclopentadiene	2.2 U	9.1	2.2	1	09/17/21 17:03	9/15/21	
Hexachloroethane	1.1 U	9.1	1.1	1	09/17/21 17:03	9/15/21	
Indeno(1,2,3-cd)pyrene	20	9.1	1.8	1	09/17/21 17:03	9/15/21	
Isophorone	1.4 U	9.1	1.4	1	09/17/21 17:03	9/15/21	
N-Nitrosodi-n-propylamine	1.2 U	9.1	1.2	1	09/17/21 17:03	9/15/21	
N-Nitrosodiphenylamine	2.7 U	9.1	2.7	1	09/17/21 17:03	9/15/21	
Naphthalene	61	9.1	1.2	1	09/17/21 17:03	9/15/21	
Nitrobenzene	1.5 U	9.1	1.5	1	09/17/21 17:03	9/15/21	
Pentachlorophenol (PCP)	9.7 U	45	9.7	1	09/17/21 17:03	9/15/21	
Phenanthrene	53	9.1	1.4	1	09/17/21 17:03	9/15/21	
Phenol	1.4 J	9.1	1.0	1	09/17/21 17:03	9/15/21	
Pyrene	32	9.1	1.5	1	09/17/21 17:03	9/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	78	35 - 141	09/17/21 17:03	
2-Fluorobiphenyl	75	31 - 118	09/17/21 17:03	
2-Fluorophenol	41	10 - 105	09/17/21 17:03	
Nitrobenzene-d5	68	31 - 110	09/17/21 17:03	
Phenol-d6	31	10 - 107	09/17/21 17:03	
Terphenyl-d14	79	10 - 165	09/17/21 17:03	

Analytical Report

Client: Inventum Engineering

Service Request: R2109410 **Date Collected:** 09/10/21 **Project:** RITC Tanks

Sample Matrix: Water **Date Received:** 09/11/21 09:35

TK-LQ-ST23-09102021 **Sample Name:** Units: ug/L Lab Code: R2109410-002 Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D **Prep Method:** EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	120 U	910	120	100	09/17/21 17:31	9/15/21	
2,3,4,6-Tetrachlorophenol	120 U	910	120	100	09/17/21 17:31	9/15/21	
2,4,5-Trichlorophenol	110 U	910	110	100	09/17/21 17:31	9/15/21	
2,4,6-Trichlorophenol	140 U	910	140	100	09/17/21 17:31	9/15/21	
2,4-Dichlorophenol	130 U	910	130	100	09/17/21 17:31	9/15/21	
2,4-Dimethylphenol	2300	910	140	100	09/17/21 17:31	9/15/21	_
2,4-Dinitrophenol	2000 U	4500	2000	100	09/17/21 17:31	9/15/21	
2,4-Dinitrotoluene	240 U	910	240	100	09/17/21 17:31	9/15/21	
2,6-Dinitrotoluene	140 U	910	140	100	09/17/21 17:31	9/15/21	
2-Chloronaphthalene	140 U	910	140	100	09/17/21 17:31	9/15/21	
2-Chlorophenol	110 U	910	110	100	09/17/21 17:31	9/15/21	_
2-Methylnaphthalene	810 J	910	130	100	09/17/21 17:31	9/15/21	
2-Methylphenol	9900	910	100	100	09/17/21 17:31	9/15/21	
2-Nitroaniline	140 U	910	140	100	09/17/21 17:31	9/15/21	
2-Nitrophenol	150 U	910	150	100	09/17/21 17:31	9/15/21	
3,3'-Dichlorobenzidine	120 U	910	120	100	09/17/21 17:31	9/15/21	
3- and 4-Methylphenol Coelution	28000	910	120	100	09/17/21 17:31	9/15/21	
3-Nitroaniline	110 U	910	110	100	09/17/21 17:31	9/15/21	
4,6-Dinitro-2-methylphenol	870 U	4500	870	100	09/17/21 17:31	9/15/21	
4-Bromophenyl Phenyl Ether	170 U	910	170	100	09/17/21 17:31	9/15/21	
4-Chloro-3-methylphenol	110 U	910	110	100	09/17/21 17:31	9/15/21	
4-Chloroaniline	100 U	910	100	100	09/17/21 17:31	9/15/21	
4-Chlorophenyl Phenyl Ether	150 U	910	150	100	09/17/21 17:31	9/15/21	
4-Nitroaniline	140 U	910	140	100	09/17/21 17:31	9/15/21	
4-Nitrophenol	640 U	4500	640	100	09/17/21 17:31	9/15/21	
Acenaphthene	140 U	910	140	100	09/17/21 17:31	9/15/21	
Acenaphthylene	910 J	910	140	100	09/17/21 17:31	9/15/21	
Acetophenone	130 U	910	130	100	09/17/21 17:31	9/15/21	
Anthracene	490 J	910	130	100	09/17/21 17:31	9/15/21	
Atrazine	210 U	910	210	100	09/17/21 17:31	9/15/21	
Benz(a)anthracene	500 J	910	160	100	09/17/21 17:31	9/15/21	
Benzaldehyde	100 U	910	100	100	09/17/21 17:31	9/15/21	
Benzo(a)pyrene	540 J	910	120	100	09/17/21 17:31	9/15/21	
Benzo(b)fluoranthene	550 J	910	120	100	09/17/21 17:31	9/15/21	
Benzo(g,h,i)perylene	330 J	910	100	100	09/17/21 17:31	9/15/21	
Benzo(k)fluoranthene	230 J	910	130	100	09/17/21 17:31	9/15/21	
Biphenyl	140 U	910	140	100	09/17/21 17:31	9/15/21	
2,2'-Oxybis(1-chloropropane)	140 U	910	140	100	09/17/21 17:31	9/15/21	
Bis(2-chloroethoxy)methane	190 U	910	190	100	09/17/21 17:31	9/15/21	
Bis(2-chloroethyl) Ether	130 U	910	130	100	09/17/21 17:31	9/15/21	
Bis(2-ethylhexyl) Phthalate	780 U	910	780	100	09/17/21 17:31	9/15/21	
Butyl Benzyl Phthalate	140 U	910	140	100	09/17/21 17:31	9/15/21	
Caprolactam	100 U	910	100	100	09/17/21 17:31	9/15/21	
Cap. omemin	100 0	, 10	- 50	-00	52, 1., 21 1, .51	2, 10, 21	

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Superset Reference:21-0000603479 rev 00

Analytical Report

Client: Inventum Engineering

Project: RITC Tanks

Sample Matrix: Water

Sample Name:

Lab Code:

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D **Prep Method:** EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	830 J	910	160	100	09/17/21 17:31	9/15/21	
Chrysene	670 J	910	120	100	09/17/21 17:31	9/15/21	
Di-n-butyl Phthalate	170 U	910	170	100	09/17/21 17:31	9/15/21	
Di-n-octyl Phthalate	330 U	910	330	100	09/17/21 17:31	9/15/21	
Dibenz(a,h)anthracene	110 U	910	110	100	09/17/21 17:31	9/15/21	
Dibenzofuran	460 J	910	140	100	09/17/21 17:31	9/15/21	
Diethyl Phthalate	110 U	910	110	100	09/17/21 17:31	9/15/21	
Dimethyl Phthalate	130 U	910	130	100	09/17/21 17:31	9/15/21	
Fluoranthene	1400	910	150	100	09/17/21 17:31	9/15/21	
Fluorene	740 J	910	130	100	09/17/21 17:31	9/15/21	
Hexachlorobenzene	160 U	910	160	100	09/17/21 17:31	9/15/21	
Hexachlorobutadiene	100 U	910	100	100	09/17/21 17:31	9/15/21	
Hexachlorocyclopentadiene	220 U	910	220	100	09/17/21 17:31	9/15/21	
Hexachloroethane	110 U	910	110	100	09/17/21 17:31	9/15/21	
Indeno(1,2,3-cd)pyrene	300 J	910	180	100	09/17/21 17:31	9/15/21	
Isophorone	140 U	910	140	100	09/17/21 17:31	9/15/21	
N-Nitrosodi-n-propylamine	120 U	910	120	100	09/17/21 17:31	9/15/21	
N-Nitrosodiphenylamine	270 U	910	270	100	09/17/21 17:31	9/15/21	
Naphthalene	3800	910	120	100	09/17/21 17:31	9/15/21	
Nitrobenzene	150 U	910	150	100	09/17/21 17:31	9/15/21	
Pentachlorophenol (PCP)	970 U	4500	970	100	09/17/21 17:31	9/15/21	
Phenanthrene	2300	910	140	100	09/17/21 17:31	9/15/21	
Phenol	26000	910	100	100	09/17/21 17:31	9/15/21	
Pyrene	1100	910	150	100	09/17/21 17:31	9/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	0 *	35 - 141	09/17/21 17:31	D
2-Fluorobiphenyl	0 *	31 - 118	09/17/21 17:31	D
2-Fluorophenol	0 *	10 - 105	09/17/21 17:31	D
Nitrobenzene-d5	0 *	31 - 110	09/17/21 17:31	D
Phenol-d6	0 *	10 - 107	09/17/21 17:31	D
Terphenyl-d14	0 *	10 - 165	09/17/21 17:31	D

Service Request: R2109410

Date Collected: 09/10/21

Date Received: 09/11/21 09:35

Analytical Report

Client: Inventum Engineering

Project: RITC Tanks

Sample Matrix: Water

Sample Name:

Lab Code:

TK-LQ-ST24-09102021 Units: ug/L R2109410-003 Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D **Prep Method:** EPA 3510C

1,2,4,5-Tertachlorophenol	Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2.4.5-Trichlorophenol	1,2,4,5-Tetrachlorobenzene	1.2 U	9.1	1.2	1	09/17/21 17:59	9/15/21	
2.4.6-Trichlorophenol 1.3 U 9.1 1.4 U 9.1 1.3 U 9.1 1.3 U 9.1 1.3 U 9.1 1.3 U 9.175/21 1.2.59 9/15/21 2.4-Dimethylphenol 1.4 U 9.1 1.4 I 1.09/17/21 17:59 9/15/21 2.4-Dimitrotoluene 2.4 U 9.1 2.4 I 1.09/17/21 17:59 9/15/21 2.6-Dinitrotoluene 1.4 U 9.1 1.4 I 0.09/17/21 17:59 9/15/21 2-Chlorophenol 1.1 U 9.1 1.4 I 0.09/17/21 17:59 9/15/21 2-Chlorophenol 1.1 U 9.1 1.1 I 0.09/17/21 17:59 9/15/21 2-Methylphenol 1.0 U 9.1 1.3 U 0.09/17/21 17:59 9/15/21 2-Mitrophenol 1.5 U 9.1 1.0 U 0.09/17/21 17:59 9/15/21 2-Nitrophenol 1.5 U 9.1 L 1.5 U 0.09/17/21 17:59 9/15/21 2-Nitrophenol 1.5 U 9.1 L 1.5 U 0.09/17/21 17:59 9/15/21 2-Nitrophenol 1.5 U <td>2,3,4,6-Tetrachlorophenol</td> <td>1.2 U</td> <td>9.1</td> <td>1.2</td> <td>1</td> <td>09/17/21 17:59</td> <td>9/15/21</td> <td></td>	2,3,4,6-Tetrachlorophenol	1.2 U	9.1	1.2	1	09/17/21 17:59	9/15/21	
2.4-Dichlorophenol 1.3 U 9.1 1.3 U 9.1 1.3 U 9.1 1.3 U 9.15(21) 2.4-Dimethylphenol 1.4 U 9.1 1.4 U 9.1 1.4 U 9.15(21) 2.4-Dinitrotoluene 2.4 U 9.1 2.4 I 09/17/21 17:59 9/15/21 2.6-Dinitrotoluene 1.4 U 9.1 1.4 I 09/17/21 17:59 9/15/21 2.6-Dinitrotoluene 1.4 U 9.1 1.4 I 09/17/21 17:59 9/15/21 2.Chlorophenol 1.1 U 9.1 1.4 U 9.0 1.7 1.7:59 9/15/21 2.Methylaphthalene 1.3 U 9.1 1.3 I 09/17/21 17:59 9/15/21 2Methylaphthalene 1.3 U 9.1 1.0 I 09/17/21 17:59 9/15/21 2Methylaphthalene 1.3 U 9.1 I.1 I 0.0 09/17/21 17:59 9/15/21 2Methylaphthalene 1.3 U 9.1 I.1 I 0.0 09/17/21 17:59 9/15/21 2Mitrophenol 1.5 U 9.1 I.5 II.0 II.0 II.0 09/17/21 17:59 9/15/21 2	2,4,5-Trichlorophenol	1.1 U	9.1	1.1	1	09/17/21 17:59	9/15/21	
2.4-Dichlorophenol 1.3 U 9.1 1.3 I 09/17/21 17:59 9/15/21 2.4-Dimitrophenol 20 U 45 20 I 09/17/21 17:59 9/15/21 2.4-Dimitrophenol 20 U 45 20 I 09/17/21 17:59 9/15/21 2.4-Dimitrotoluene 2.4 U 9.1 2.4 I 09/17/21 17:59 9/15/21 2.6-Dinitrotoluene 1.4 U 9.1 1.4 I 09/17/21 17:59 9/15/21 2.Chlorophenol 1.1 U 9.1 1.4 I 09/17/21 17:59 9/15/21 2.Chlorophenol 1.1 U 9.1 1.3 I 09/17/21 17:59 9/15/21 2.Methylphenol 1.0 U 9.1 1.0 U 09/17/21 17:59 9/15/21 2.Mitroaniline 1.4 U 9.1 I 1.0 U 09/17/21 17:59 9/15/21 2.Nitrophenol 1.5 U 9.1 I 1.5 U 09/17/21 17:59 9/15/21 2.Autrophenol 1.5 U 9.1 I 1.5 U 09/17/21 17:59 9/15/21 3.autrophenol 1.5 U 9.1 I 1.5 U 09/17/21 17:59 9/15/21 3.autrophenol 1.2 U 9.1 I </td <td>2,4,6-Trichlorophenol</td> <td>1.4 U</td> <td>9.1</td> <td>1.4</td> <td>1</td> <td>09/17/21 17:59</td> <td>9/15/21</td> <td></td>	2,4,6-Trichlorophenol	1.4 U	9.1	1.4	1	09/17/21 17:59	9/15/21	
2.4-Dimethylphenol		1.3 U	9.1	1.3	1	09/17/21 17:59	9/15/21	
2.4-Dinitrophenol 20 U 45 20 1 09/17/21 17:59 9/15/21 2.4-Dinitrotoluene 2.4 U 9.1 2.4 1 09/17/21 17:59 9/15/21 2.6-Dinitrotoluene 1.4 U 9.1 1.4 1 09/17/21 17:59 9/15/21 2.Chlorophenol 1.1 U 9.1 1.1 1 09/17/21 17:59 9/15/21 2.Methylnaphthalene 1.3 U 9.1 1.3 1 09/17/21 17:59 9/15/21 2.Methylphenol 1.0 U 9.1 1.0 1 09/17/21 17:59 9/15/21 2.Nitroaniline 1.4 U 9.1 1.4 1 09/17/21 17:59 9/15/21 2.Nitrophenol 1.5 U 9.1 1.5 1 09/17/21 17:59 9/15/21 2.Nitrophenol 1.5 U 9.1 1.5 1 09/17/21 17:59 9/15/21 2.Nitrophenol 1.2 U 9.1 1.5 1 09/17/21 17:59 9/15/21 3.3-Dichlorobenzidine 1.2 U 9.1 1.2		1.4 U			1			
2.4-Dinitrotoluene 2.4 U 9.1 2.4 1 09/17/21 17:59 9/15/21 2.6-Dinitrotoluene 1.4 U 9.1 1.4 1 09/17/21 17:59 9/15/21 2Chloronaphthalene 1.1 U 9.1 1.1 1 09/17/21 17:59 9/15/21 2-Methylaphtalene 1.3 U 9.1 1.3 1 09/17/21 17:59 9/15/21 2-Methylphenol 1.0 U 9.1 1.0 1 09/17/21 17:59 9/15/21 2-Nitrophenol 1.5 U 9.1 1.4 1 09/17/21 17:59 9/15/21 2-Nitrophenol 1.5 U 9.1 1.5 1 09/17/21 17:59 9/15/21 3-Pichlorobenzidine 1.2 U 9.1 1.2 1 09/17/21 17:59 9/15/21 3-Pichlorobenzidine 1.1 U 9.1 1.2 1 09/17/21 17:59 9/15/21 3-Pichlorobenzidine 1.2 U 9.1 1.2 1 09/17/21 17:59 9/15/21 3-Pichlorobenzidine 1.1 U 9.1		20 U	45	20	1	09/17/21 17:59	9/15/21	
2-Chlorophthalene 1.4 U 9.1 1.4 I 09/17/21 17:59 (9/15/21) 2-Chlorophenol 1.1 U 9.1 1.3 I 09/17/21 17:59 (9/15/21) 2-Methylaphthalene 1.3 U 9.1 1.3 I 09/17/21 17:59 (9/15/21) 2-Methylaphthol 1.0 U 9.1 1.0 I 09/17/21 17:59 (9/15/21) 2-Nitrophenol 1.5 U 9.1 1.4 I 09/17/21 17:59 (9/15/21) 2-Nitrophenol 1.5 U 9.1 1.5 I 09/17/21 17:59 (9/15/21) 3.3-Dichlorobenzidine 1.2 U 9.1 1.2 I 09/17/21 17:59 (9/15/21) 3.3-Dichlorobenzidine 1.2 U 9.1 1.2 I 09/17/21 17:59 (9/15/21) 3-Nitroaniline 1.1 U 9.1 1.1 I 09/17/21 17:59 (9/15/21) 3-Nitroaniline 1.1 U 9.1 1.1 I 09/17/21 17:59 (9/15/21) 4-Bromophenyl Phenyl Ether 1.7 U 9.1 1.7 I 09/17/21 17:59 (9/15/21) 4-Chloro-3-methylphenol 1.1 U 9.1 1.1 I 09/17/21 17:59 (9/15/21) 4-Chloro-3-methylphenol 1.1 U <		2.4 U	9.1	2.4	1	09/17/21 17:59	9/15/21	
2-Chiorophenol 1.1 U 9.1 1.1 1 1.0 9/17/21 17:59 9/15/21 2-Methylnaphthalene 1.3 U 9.1 1.3 1 0.917/21 17:59 9/15/21 2-Methylphenol 1.0 U 9.1 1.0 1 0.9/17/21 17:59 9/15/21 2-Nitrophenol 1.5 U 9.1 1.4 1 0.9/17/21 17:59 9/15/21 2-Nitrophenol 1.5 U 9.1 1.5 1 0.9/17/21 17:59 9/15/21 3-and 4-Methylphenol Coelution 1.2 U 9.1 1.2 1 0.9/17/21 17:59 9/15/21 3-and 4-Methylphenol Coelution 1.2 U 9.1 1.1 1 0.9/17/21 17:59 9/15/21 3-Nitroaniline 1.1 U 9.1 1.1 1 0.9/17/21 17:59 9/15/21 4-G-Dinitro-2-methylphenol 8.7 U 45 8.7 1 0.9/17/21 17:59 9/15/21 4-Bromophenyl Phenyl Ether 1.7 U 9.1 1.7 1 0.9/17/21 17:59 9/15/21 4-Chloro-3-methylphenol 1.1 U 9.1 1.1 1 0.9/17/21 17:59 9/15/21 4-Chlorophenyl Phenyl Ether 1.5 U 9.1 1.5 1 0.9/17/21 17:59 9/15/21 4-Nitroaniline </td <td>2,6-Dinitrotoluene</td> <td>1.4 U</td> <td>9.1</td> <td>1.4</td> <td>1</td> <td>09/17/21 17:59</td> <td>9/15/21</td> <td></td>	2,6-Dinitrotoluene	1.4 U	9.1	1.4	1	09/17/21 17:59	9/15/21	
2-Chiorophenol 1.1 U 9.1 1.1 1 1.0 9/17/21 17:59 9/15/21 2-Methylnaphthalene 1.3 U 9.1 1.3 1 0.917/21 17:59 9/15/21 2-Methylphenol 1.0 U 9.1 1.0 1 0.9/17/21 17:59 9/15/21 2-Nitrophenol 1.5 U 9.1 1.4 1 0.9/17/21 17:59 9/15/21 2-Nitrophenol 1.5 U 9.1 1.5 1 0.9/17/21 17:59 9/15/21 3-and 4-Methylphenol Coelution 1.2 U 9.1 1.2 1 0.9/17/21 17:59 9/15/21 3-and 4-Methylphenol Coelution 1.2 U 9.1 1.1 1 0.9/17/21 17:59 9/15/21 3-Nitroaniline 1.1 U 9.1 1.1 1 0.9/17/21 17:59 9/15/21 4-G-Dinitro-2-methylphenol 8.7 U 45 8.7 1 0.9/17/21 17:59 9/15/21 4-Bromophenyl Phenyl Ether 1.7 U 9.1 1.7 1 0.9/17/21 17:59 9/15/21 4-Chloro-3-methylphenol 1.1 U 9.1 1.1 1 0.9/17/21 17:59 9/15/21 4-Chlorophenyl Phenyl Ether 1.5 U 9.1 1.5 1 0.9/17/21 17:59 9/15/21 4-Nitroaniline </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
2-MethyInaphthalene 1.3 U 9.1 1.3 U 09/17/21 17:59 9/15/21 2-MethyIphenol 1.0 U 9.1 1.0 U 9.0 1.0 U 9.1 J.2 2-Nitrophenol 1.5 U 9.1 1.5 U 9.1 J.5 1 09/17/21 17:59 9/15/21 2-Nitrophenol 1.5 U 9.1 J.2 U 1.0 U 9.1 J.2 U 1 09/17/21 17:59 9/15/21 3.3-Dichlorobenzidine 1.2 U 9.1 J.2 U 1 09/17/21 17:59 9/15/21 3-Mitroaniline 1.1 U 9.1 J.1 U 9.1 J.1 U 09/17/21 17:59 9/15/21 3-Nitroaniline 1.1 U 9.1 J.1 U 9.1 J.7 U 09/17/21 17:59 9/15/21 4-Bromophenyl Phenyl Ether 1.7 U 9.1 J.7 U 9.1 J.7 U 09/17/21 17:59 9/15/21 4-Chloroaniline 1.0 U 9.1 J.1 U 9.1 J.7 U 09/17/21 17:59 9/15/21 4-Chlorophenyl Phenyl Ether 1.5 U 9.1 J.1 U 9.1 J.1 U 09/17/21 17:59 9/15/21 4-Chlorophenyl Phenyl Ether 1.5 U 9.1 J.2 U 9.1 J.2 U 09/17					1			
2-Methylphenol		1.3 U	9.1	1.3	1		9/15/21	
2-Nitroniline								
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3.3°-Dichlorobenzidine								
3- and 4-Methylphenol Coelution 1.2 U 9.1 1.2 U 9.1 (0.7)(7.21 17:59) 9/15/21 3-Nitroaniline 1.1 U 9.1 1.1 I 1 (0.7)(7.21 17:59) 9/15/21 4,6-Dinitro-2-methylphenol 8.7 U 45 8.7 I 0.9/17/21 17:59 9/15/21 4-Bromophenyl Phenyl Ether 1.7 U 9.1 1.7 I 1 (0.7)(7.21 17:59) 9/15/21 4-Chloroaniline 1.0 U 9.1 1.0 I 0.9/17/21 17:59 9/15/21 4-Chlorophenyl Phenyl Ether 1.5 U 9.1 I.5 I 1 (0.7)(7.21 17:59) 9/15/21 4-Chlorophenyl Phenyl Ether 1.5 U 9.1 I.4 I 1 (0.7)(7.21 17:59) 9/15/21 4-Nitroaniline 1.4 U 9.1 I.4 I 1 (0.7)(7.21 17:59) 9/15/21 4-Nitroaniline 1.4 U 9.1 I.4 I 1 (0.7)(7.21 17:59) 9/15/21 4-Nitroaniline 1.4 U 9.1 I.4 I 1 (0.7)(7.21 17:59) 9/15/21 4-Nitroaniline 1.4 U 9.1 I.4 II 1 (0.7)(7.21 17:59) 9/15/21 4-Chlorophenol 1.4 U 9.1 I.4 II					1			
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4-Chloro-3-methylphenol 1.1 U 9.1 1.1 1 09/17/21 17:59 9/15/21 4-Chlorophenyl Phenyl Ether 1.0 U 9.1 1.0 1 09/17/21 17:59 9/15/21 4-Chlorophenyl Phenyl Ether 1.5 U 9.1 1.5 1 09/17/21 17:59 9/15/21 4-Nitrophenol 6.4 U 9.1 1.4 1 09/17/21 17:59 9/15/21 Acenaphthene 1.4 U 9.1 1.4 1 09/17/21 17:59 9/15/21 Acenaphthylene 1.4 U 9.1 1.4 1 09/17/21 17:59 9/15/21 Acenaphthylene 1.4 U 9.1 1.4 1 09/17/21 17:59 9/15/21 Acetophenone 1.3 U 9.1 1.3 1 09/17/21 17:59 9/15/21 Actazine 1.3 U 9.1 1.3 1 09/17/21 17:59 9/15/21 Benz(a)anthracene 1.6 U 9.1 1.6 1					1			
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4-Chlorophenyl Phenyl Ether 1.5 U 9.1 1.5 I 09/17/21 17:59 9/15/21 4-Nitroaniline 1.4 U 9.1 1.4 I 09/17/21 17:59 9/15/21 4-Nitrophenol 6.4 U 45 6.4 I 09/17/21 17:59 9/15/21 Acenaphthene 1.4 U 9.1 1.4 I 09/17/21 17:59 9/15/21 Acenaphthylene 1.4 U 9.1 1.4 I 09/17/21 17:59 9/15/21 Acetophenone 1.3 U 9.1 1.3 I 09/17/21 17:59 9/15/21 Anthracene 1.3 U 9.1 1.3 I 09/17/21 17:59 9/15/21 Atrazine 2.1 U 9.1 2.1 I 09/17/21 17:59 9/15/21 Benz(a)anthracene 1.6 U 9.1 1.6 I 09/17/21 17:59 9/15/21 Benza(a)pyrene 1.2 U 9.1 1.0 I 09/17/21 17:59 9/15/21 Benzo(b)fluoranthene 1.2 U 9.1 1.2 I 09/17/21 17:59 9/15/21 Benzo(g,h,i)perylene 1.0 U 9.1 1.2 I 09/17/21 17:59 9/15/21 Benzo(k)fluoranthene 1.3 U 9.1 1.3 I 09/17/21 17:59 9/15/21 Benzo(k)fluoranthene 1.3 U </td <td></td> <td>1.0 U</td> <td>9.1</td> <td>1.0</td> <td>1</td> <td></td> <td></td> <td></td>		1.0 U	9.1	1.0	1			
4-Nitroaniline 1.4 U 9.1 1.4 Image: 1.4 U 9.1 Image		1.5 U	9.1	1.5	1	09/17/21 17:59	9/15/21	
Acenaphthene 1.4 U 9.1 1.4 I 09/17/21 17:59 9/15/21 Acenaphthylene 1.4 U 9.1 1.4 I 09/17/21 17:59 9/15/21 Acetophenone 1.3 U 9.1 1.3 I 09/17/21 17:59 9/15/21 Anthracene 1.3 U 9.1 1.3 I 09/17/21 17:59 9/15/21 Atrazine 2.1 U 9.1 2.1 I 09/17/21 17:59 9/15/21 Benz(a)anthracene 1.6 U 9.1 1.6 I 09/17/21 17:59 9/15/21 Benzaldehyde 1.0 U 9.1 I.0 I 1.0 I 09/17/21 17:59 9/15/21 Benzo(a)pyrene 1.2 U 9.1 I.2 I 09/17/21 17:59 9/15/21 Benzo(b)fluoranthene 1.2 U 9.1 I.2 I 09/17/21 17:59 9/15/21 Benzo(g,h,i)perylene 1.0 U 9.1 I.0 II.0 II.0 III.0 II			9.1	1.4	1		9/15/21	
Acenaphthene 1.4 U 9.1 1.4 I 09/17/21 17:59 9/15/21 Acenaphthylene 1.4 U 9.1 1.4 I 1 09/17/21 17:59 9/15/21 Acetophenone 1.3 U 9.1 1.3 I 1 09/17/21 17:59 9/15/21 Anthracene 1.3 U 9.1 1.3 I 1 09/17/21 17:59 9/15/21 Atrazine 2.1 U 9.1 2.1 I 1 09/17/21 17:59 9/15/21 Benz(a)anthracene 1.6 U 9.1 1.6 I 1 09/17/21 17:59 9/15/21 Benzaldehyde 1.0 U 9.1 1.0 I 1 09/17/21 17:59 9/15/21 Benzo(a)pyrene 1.2 U 9.1 1.2 I 1 09/17/21 17:59 9/15/21 Benzo(b)fluoranthene 1.2 U 9.1 1.2 I 1 09/17/21 17:59 9/15/21 Benzo(g,h,i)perylene 1.0 U 9.1 1.0 I 09/17/21 17:59 9/15/21 Benzo(k)fluoranthene 1.3 U 9.1 1.3 I 09/17/21 17:59 9/15/21 Biphenyl 1.4 U 9.1 1.4 I </td <td>4-Nitrophenol</td> <td>6.4 U</td> <td>45</td> <td>6.4</td> <td>1</td> <td>09/17/21 17:59</td> <td>9/15/21</td> <td></td>	4-Nitrophenol	6.4 U	45	6.4	1	09/17/21 17:59	9/15/21	
Acenaphthylene 1.4 U 9.1 1.4 I 09/17/21 17:59 9/15/21 Acetophenone 1.3 U 9.1 1.3 I 09/17/21 17:59 9/15/21 Anthracene 1.3 U 9.1 1.3 I 09/17/21 17:59 9/15/21 Atrazine 2.1 U 9.1 2.1 I 09/17/21 17:59 9/15/21 Benz(a)anthracene 1.6 U 9.1 1.6 I 09/17/21 17:59 9/15/21 Benzaldehyde 1.0 U 9.1 1.0 I 09/17/21 17:59 9/15/21 Benzo(a)pyrene 1.2 U 9.1 1.2 I 09/17/21 17:59 9/15/21 Benzo(b)fluoranthene 1.2 U 9.1 1.2 I 09/17/21 17:59 9/15/21 Benzo(g,h,i)perylene 1.0 U 9.1 1.0 I 09/17/21 17:59 9/15/21 Benzo(k)fluoranthene 1.3 U 9.1 I.3 I 09/17/21 17:59 9/15/21 Benzo(k)fluoranthene 1.3 U 9.1 I.4 I 09/17/21 17:59 9/15/21 Biphenyl 1.4 U 9.1 I.4 I 09/17/21 17:59 9/15/21 Bis(2-chloroethoxy)methane 1.9 U 9.1 I.4 II.4 III.4 III.5 III.5 III		1.4 U	9.1	1.4	1		9/15/21	
Acetophenone 1.3 U 9.1 1.3 I 09/17/21 17:59 9/15/21 Anthracene 1.3 U 9.1 1.3 I 09/17/21 17:59 9/15/21 Atrazine 2.1 U 9.1 2.1 I 1 09/17/21 17:59 9/15/21 Benz(a)anthracene 1.6 U 9.1 I.6 I 1 09/17/21 17:59 9/15/21 Benzaldehyde 1.0 U 9.1 I.0 I 09/17/21 17:59 9/15/21 Benzo(a)pyrene 1.2 U 9.1 I.2 I 09/17/21 17:59 9/15/21 Benzo(b)fluoranthene 1.2 U 9.1 I.2 I 09/17/21 17:59 9/15/21 Benzo(g,h,i)perylene 1.0 U 9.1 I.0 III O9/17/21 17:59 9/15/21 Benzo(k)fluoranthene 1.3 U 9.1 I.3 III O9/17/21 17:59 9/15/21 Biphenyl 1.4 U 9.1 I.4 III O9/17/21 17:59 9/15/21 2,2'-Oxybis(1-chloropropane) 1.4 U 9.1 I.4 III O9/17/21 17:59 9/15/21 Bis(2-chloroethoxy)methane 1.9 U 9.1 I.3 III O9/17/21 17:59 9/15/21 Bis(2-chloroethyl) Ether 1.3 U 9.1 I.3 III O9/17/21 17:59 9/15/21 Butyl Benzyl Phthalate 7.8 U 9.1 I.4 III O9/17/21 17:		1.4 U	9.1	1.4	1	09/17/21 17:59	9/15/21	
Anthracene 1.3 U 9.1 1.3 I 09/17/21 17:59 9/15/21 Atrazine 2.1 U 9.1 2.1 I 09/17/21 17:59 9/15/21 Benz(a)anthracene 1.6 U 9.1 I.6 I 09/17/21 17:59 9/15/21 Benzaldehyde 1.0 U 9.1 I.0 I 09/17/21 17:59 9/15/21 Benzo(a)pyrene 1.2 U 9.1 I.2 I 09/17/21 17:59 9/15/21 Benzo(b)fluoranthene 1.2 U 9.1 I.2 I 09/17/21 17:59 9/15/21 Benzo(g,h,i)perylene 1.0 U 9.1 I.0 I 09/17/21 17:59 9/15/21 Benzo(k)fluoranthene 1.3 U 9.1 I.3 I 09/17/21 17:59 9/15/21 Biphenyl 1.4 U 9.1 I.4 I 09/17/21 17:59 9/15/21 2,2'-Oxybis(1-chloropropane) 1.4 U 9.1 I.4 I 09/17/21 17:59 9/15/21 Bis(2-chloroethoxy)methane 1.9 U 9.1 I.9 II.9 II.9 II.9 II.9 II.9 II.9 II		1.3 U	9.1	1.3	1	09/17/21 17:59	9/15/21	
Atrazine 2.1 U 9.1 2.1 1 09/17/21 17:59 9/15/21 Benz(a)anthracene 1.6 U 9.1 1.6 I 09/17/21 17:59 9/15/21 Benzaldehyde 1.0 U 9.1 1.0 I 09/17/21 17:59 9/15/21 Benzo(a)pyrene 1.2 U 9.1 1.2 I 09/17/21 17:59 9/15/21 Benzo(b)fluoranthene 1.2 U 9.1 1.2 I 09/17/21 17:59 9/15/21 Benzo(g,h,i)perylene 1.0 U 9.1 1.0 I 09/17/21 17:59 9/15/21 Benzo(k)fluoranthene 1.3 U 9.1 1.3 I 09/17/21 17:59 9/15/21 Biphenyl 1.4 U 9.1 1.4 I 1 09/17/21 17:59 9/15/21 2,2'-Oxybis(1-chloropropane) 1.4 U 9.1 1.4 I 1 09/17/21 17:59 9/15/21 Bis(2-chloroethyl) Ether 1.3 U 9.1 1.3 I 09/17/21 17:59 9/15/21 Bis(2-ethylhexyl) Phthalate 7.8 U 9.1 7.8 I 1 09/17/21 17:59 9/15/21		1.3 U	9.1	1.3	1	09/17/21 17:59	9/15/21	
Benz(a)anthracene 1.6 U 9.1 1.6 I 09/17/21 17:59 9/15/21 Benzaldehyde 1.0 U 9.1 1.0 I 09/17/21 17:59 9/15/21 Benzo(a)pyrene 1.2 U 9.1 1.2 I 09/17/21 17:59 9/15/21 Benzo(b)fluoranthene 1.2 U 9.1 1.2 I 09/17/21 17:59 9/15/21 Benzo(g,h,i)perylene 1.0 U 9.1 1.0 I 09/17/21 17:59 9/15/21 Benzo(k)fluoranthene 1.3 U 9.1 I.3 I 09/17/21 17:59 9/15/21 Biphenyl 1.4 U 9.1 I.4 I 09/17/21 17:59 9/15/21 2,2'-Oxybis(1-chloropropane) 1.4 U 9.1 I.4 I 09/17/21 17:59 9/15/21 Bis(2-chloroethoxy)methane 1.9 U 9.1 I.9 II.9 III.9 III	Atrazine				1			
Benzaldehyde 1.0 U 9.1 1.0 U 9.1 09/17/21 17:59 9/15/21 Benzo(a)pyrene 1.2 U 9.1 1.2 U 1 09/17/21 17:59 9/15/21 Benzo(b)fluoranthene 1.2 U 9.1 1.2 I 09/17/21 17:59 9/15/21 Benzo(g,h,i)perylene 1.0 U 9.1 1.0 I 09/17/21 17:59 9/15/21 Benzo(k)fluoranthene 1.3 U 9.1 1.3 I 09/17/21 17:59 9/15/21 Biphenyl 1.4 U 9.1 1.4 I 09/17/21 17:59 9/15/21 2,2'-Oxybis(1-chloropropane) 1.4 U 9.1 1.4 I 09/17/21 17:59 9/15/21 Bis(2-chloroethoxy)methane 1.9 U 9.1 1.9 I 09/17/21 17:59 9/15/21 Bis(2-chloroethyl) Ether 1.3 U 9.1 1.3 I 09/17/21 17:59 9/15/21 Bis(2-ethylhexyl) Phthalate 7.8 U 9.1 7.8 I 09/17/21 17:59 9/15/21 Butyl Benzyl Phthalate 1.4 U 9.1 1.4 I 09/17/21 17:59 9/15/21	Benz(a)anthracene	1.6 U			1		9/15/21	
Benzo(a)pyrene 1.2 U 9.1 1.2 I 09/17/21 17:59 9/15/21 Benzo(b)fluoranthene 1.2 U 9.1 1.2 I 09/17/21 17:59 9/15/21 Benzo(g,h,i)perylene 1.0 U 9.1 1.0 I 09/17/21 17:59 9/15/21 Benzo(k)fluoranthene 1.3 U 9.1 1.3 I 09/17/21 17:59 9/15/21 Biphenyl 1.4 U 9.1 1.4 I 09/17/21 17:59 9/15/21 2,2'-Oxybis(1-chloropropane) 1.4 U 9.1 1.4 I 09/17/21 17:59 9/15/21 Bis(2-chloroethoxy)methane 1.9 U 9.1 1.9 I 09/17/21 17:59 9/15/21 Bis(2-chloroethyl) Ether 1.3 U 9.1 1.3 I 09/17/21 17:59 9/15/21 Bis(2-ethylhexyl) Phthalate 7.8 U 9.1 7.8 I 09/17/21 17:59 9/15/21 Butyl Benzyl Phthalate 1.4 U 9.1 1.4 I 09/17/21 17:59 9/15/21		1.0 U	9.1	1.0	1	09/17/21 17:59	9/15/21	
Benzo(b)fluoranthene 1.2 U 9.1 1.2 I 09/17/21 17:59 9/15/21 Benzo(g,h,i)perylene 1.0 U 9.1 1.0 I 09/17/21 17:59 9/15/21 Benzo(k)fluoranthene 1.3 U 9.1 1.3 I 09/17/21 17:59 9/15/21 Biphenyl 1.4 U 9.1 1.4 I 09/17/21 17:59 9/15/21 2,2'-Oxybis(1-chloropropane) 1.4 U 9.1 1.4 I 09/17/21 17:59 9/15/21 Bis(2-chloroethoxy)methane 1.9 U 9.1 1.9 I 09/17/21 17:59 9/15/21 Bis(2-chloroethyl) Ether 1.3 U 9.1 1.3 I 09/17/21 17:59 9/15/21 Bis(2-ethylhexyl) Phthalate 7.8 U 9.1 7.8 I 09/17/21 17:59 9/15/21 Butyl Benzyl Phthalate 1.4 U 9.1 1.4 I 09/17/21 17:59 9/15/21		1.2 U	9.1	1.2	1	09/17/21 17:59	9/15/21	
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Benzo(k)fluoranthene 1.3 U 9.1 1.3 I 09/17/21 17:59 9/15/21 Biphenyl 1.4 U 9.1 1.4 I 09/17/21 17:59 9/15/21 2,2'-Oxybis(1-chloropropane) 1.4 U 9.1 1.4 I 09/17/21 17:59 9/15/21 Bis(2-chloroethoxy)methane 1.9 U 9.1 1.9 I 09/17/21 17:59 9/15/21 Bis(2-chloroethyl) Ether 1.3 U 9.1 1.3 I 09/17/21 17:59 9/15/21 Bis(2-ethylhexyl) Phthalate 7.8 U 9.1 7.8 I 09/17/21 17:59 9/15/21 Butyl Benzyl Phthalate 1.4 U 9.1 1.4 1 09/17/21 17:59 9/15/21		1.0 U	9.1	1.0	1	09/17/21 17:59	9/15/21	
Biphenyl 1.4 U 9.1 1.4 I 09/17/21 17:59 9/15/21 2,2'-Oxybis(1-chloropropane) 1.4 U 9.1 1.4 I 09/17/21 17:59 9/15/21 Bis(2-chloroethoxy)methane 1.9 U 9.1 1.9 I 09/17/21 17:59 9/15/21 Bis(2-chloroethyl) Ether 1.3 U 9.1 1.3 I 09/17/21 17:59 9/15/21 Bis(2-ethylhexyl) Phthalate 7.8 U 9.1 7.8 I 09/17/21 17:59 9/15/21 Butyl Benzyl Phthalate 1.4 U 9.1 1.4 I 09/17/21 17:59 9/15/21					1			
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Bis(2-ethylhexyl) Phthalate 7.8 U 9.1 7.8 I 09/17/21 17:59 9/15/21 Butyl Benzyl Phthalate 1.4 U 9.1 1.4 1 09/17/21 17:59 9/15/21								
Butyl Benzyl Phthalate 1.4 U 9.1 1.4 1 09/17/21 17:59 9/15/21								
Caprolactam 1.0 U 9.1 1.0 1 09/17/21 17:59 9/15/21		1.0 U	9.1	1.0			9/15/21	

Printed 10/26/2021 5:39:14 PM

Superset Reference:21-0000603479 rev 00

Service Request: R2109410

Date Collected: 09/10/21

Date Received: 09/11/21 09:35

Analytical Report

Client: Inventum Engineering

Project: RITC Tanks

Sample Matrix: Water

Service Request: R2109410

Date Collected: 09/10/21

Date Received: 09/11/21 09:35

 Sample Name:
 TK-LQ-ST24-09102021
 Units: ug/L

 Lab Code:
 R2109410-003
 Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D **Prep Method:** EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	1.6 U	9.1	1.6	1	09/17/21 17:59	9/15/21	
Chrysene	1.2 U	9.1	1.2	1	09/17/21 17:59	9/15/21	
Di-n-butyl Phthalate	1.7 U	9.1	1.7	1	09/17/21 17:59	9/15/21	
Di-n-octyl Phthalate	3.3 U	9.1	3.3	1	09/17/21 17:59	9/15/21	
Dibenz(a,h)anthracene	1.1 U	9.1	1.1	1	09/17/21 17:59	9/15/21	
Dibenzofuran	1.4 U	9.1	1.4	1	09/17/21 17:59	9/15/21	
Diethyl Phthalate	1.1 U	9.1	1.1	1	09/17/21 17:59	9/15/21	
Dimethyl Phthalate	1.3 U	9.1	1.3	1	09/17/21 17:59	9/15/21	
Fluoranthene	1.5 U	9.1	1.5	1	09/17/21 17:59	9/15/21	
Fluorene	1.3 U	9.1	1.3	1	09/17/21 17:59	9/15/21	
Hexachlorobenzene	1.6 U	9.1	1.6	1	09/17/21 17:59	9/15/21	
Hexachlorobutadiene	1.0 U	9.1	1.0	1	09/17/21 17:59	9/15/21	
Hexachlorocyclopentadiene	2.2 U	9.1	2.2	1	09/17/21 17:59	9/15/21	
Hexachloroethane	1.1 U	9.1	1.1	1	09/17/21 17:59	9/15/21	
Indeno(1,2,3-cd)pyrene	1.8 U	9.1	1.8	1	09/17/21 17:59	9/15/21	
Isophorone	1.4 U	9.1	1.4	1	09/17/21 17:59	9/15/21	
N-Nitrosodi-n-propylamine	1.2 U	9.1	1.2	1	09/17/21 17:59	9/15/21	
N-Nitrosodiphenylamine	2.7 U	9.1	2.7	1	09/17/21 17:59	9/15/21	
Naphthalene	1.2 U	9.1	1.2	1	09/17/21 17:59	9/15/21	
Nitrobenzene	1.5 U	9.1	1.5	1	09/17/21 17:59	9/15/21	
Pentachlorophenol (PCP)	9.7 U	45	9.7	1	09/17/21 17:59	9/15/21	
Phenanthrene	1.4 U	9.1	1.4	1	09/17/21 17:59	9/15/21	
Phenol	1.0 U	9.1	1.0	1	09/17/21 17:59	9/15/21	
Pyrene	1.5 U	9.1	1.5	1	09/17/21 17:59	9/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	75	35 - 141	09/17/21 17:59	
2-Fluorobiphenyl	75	31 - 118	09/17/21 17:59	
2-Fluorophenol	41	10 - 105	09/17/21 17:59	
Nitrobenzene-d5	68	31 - 110	09/17/21 17:59	
Phenol-d6	32	10 - 107	09/17/21 17:59	
Terphenyl-d14	81	10 - 165	09/17/21 17:59	



Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com

Analytical Report

Client: Inventum Engineering

Project: RITC Tanks

TC Tanks

Date Collected: 09/10/21

Date Received: 09/11/21

Sample Matrix: Water Date Received: 09/11/21 09:35

 Sample Name:
 TK-LQ-ST22-09102021
 Units: ug/L

 Lab Code:
 R2109410-001
 Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B **Prep Method:** EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	_
4,4'-DDE	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	
4,4'-DDT	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	
Aldrin	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	
Dieldrin	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	
Endosulfan I	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	
Endosulfan II	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	
Endosulfan Sulfate	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	
Endrin	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	
Endrin Aldehyde	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	
Endrin Ketone	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	
Heptachlor	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	
Heptachlor Epoxide	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	
Methoxychlor	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	
Toxaphene	0.50 U	0.50	0.50	1	09/20/21 15:44	9/16/21	
alpha-BHC	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	
alpha-Chlordane	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	
beta-BHC	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	
delta-BHC	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	
gamma-BHC (Lindane)	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	
gamma-Chlordane	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	69	10 - 164	09/20/21 15:44	
Tetrachloro-m-xylene	51	10 - 147	09/20/21 15:44	

Service Request: R2109410

Analytical Report

Client: Inventum Engineering

Project: RITC Tanks

Sample Matrix: Water

Service Request: R2109410 **Date Collected:** 09/10/21

Date Received: 09/11/21 09:35

Sample Name: TK-LQ-ST23-09102021

Lab Code: R2109410-002

Units: ug/L Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B **Prep Method:** EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	
4,4'-DDE	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	
4,4'-DDT	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	
Aldrin	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	
Dieldrin	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	
Endosulfan I	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	
Endosulfan II	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	
Endosulfan Sulfate	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	
Endrin	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	
Endrin Aldehyde	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	
Endrin Ketone	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	
Heptachlor	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	
Heptachlor Epoxide	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	
Methoxychlor	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	
Toxaphene	5.0 U	5.0	5.0	10	09/20/21 16:03	9/16/21	
alpha-BHC	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	
alpha-Chlordane	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	
beta-BHC	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	
delta-BHC	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	
gamma-BHC (Lindane)	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	
gamma-Chlordane	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	88	10 - 164	09/20/21 16:03	
Tetrachloro-m-xylene	220 *	10 - 147	09/20/21 16:03	*

Analytical Report

Client: Inventum Engineering

Project: RITC Tanks

Service Request: R2109410 **Date Collected:** 09/10/21

Sample Matrix: Water

Date Received: 09/11/21 09:35

Sample Name: TK-LQ-ST24-09102021

Lab Code: R2109410-003

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B **Prep Method:** EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	
4,4'-DDE	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	
4,4'-DDT	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	
Aldrin	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	
Dieldrin	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	
Endosulfan I	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	
Endosulfan II	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	
Endosulfan Sulfate	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	
Endrin	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	
Endrin Aldehyde	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	
Endrin Ketone	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	
Heptachlor	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	
Heptachlor Epoxide	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	
Methoxychlor	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	
Toxaphene	0.50 U	0.50	0.50	1	09/20/21 16:23	9/16/21	
alpha-BHC	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	
alpha-Chlordane	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	
beta-BHC	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	
delta-BHC	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	
gamma-BHC (Lindane)	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	
gamma-Chlordane	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	24	10 - 164	09/20/21 16:23	
Tetrachloro-m-xylene	34	10 - 147	09/20/21 16:23	

Analytical Report

Client: Inventum Engineering

Project: RITC Tanks

Sample Matrix:

Service Request: R2109410 **Date Collected:** 09/10/21

Water **Date Received:** 09/11/21 09:35

Sample Name: TK-LQ-ST22-09102021

Units: ug/L Lab Code: R2109410-001 Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A **Prep Method:** EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.50 U	0.91	0.50	1	09/20/21 23:17	9/16/21	
Aroclor 1221	1.0 U	1.8	1.0	1	09/20/21 23:17	9/16/21	
Aroclor 1232	0.50 U	0.91	0.50	1	09/20/21 23:17	9/16/21	
Aroclor 1242	0.50 U	0.91	0.50	1	09/20/21 23:17	9/16/21	
Aroclor 1248	0.50 U	0.91	0.50	1	09/20/21 23:17	9/16/21	
Aroclor 1254	0.50 U	0.91	0.50	1	09/20/21 23:17	9/16/21	-
Aroclor 1260	0.50 U	0.91	0.50	1	09/20/21 23:17	9/16/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	30	10 - 152	09/20/21 23:17	
Tetrachloro-m-xylene	50	14 - 129	09/20/21 23:17	

Analytical Report

Client: Inventum Engineering

Project: RITC Tanks

TC Tanks

Date Collected: 09/10/21

Pate Received: 09/11/21 0

Sample Matrix: Water Date Received: 09/11/21 09:35

 Sample Name:
 TK-LQ-ST23-09102021
 Units: ug/L

 Lab Code:
 R2109410-002
 Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A **Prep Method:** EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.50 U	0.91	0.50	1	09/20/21 23:37	9/16/21	
Aroclor 1221	1.0 U	1.8	1.0	1	09/20/21 23:37	9/16/21	
Aroclor 1232	0.50 U	0.91	0.50	1	09/20/21 23:37	9/16/21	
Aroclor 1242	0.50 U	0.91	0.50	1	09/20/21 23:37	9/16/21	
Aroclor 1248	0.50 U	0.91	0.50	1	09/20/21 23:37	9/16/21	
Aroclor 1254	0.50 U	0.91	0.50	1	09/20/21 23:37	9/16/21	
Aroclor 1260	0.50 U	0.91	0.50	1	09/20/21 23:37	9/16/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	12	10 - 152	09/20/21 23:37	
Tetrachloro-m-xylene	25	14 - 129	09/20/21 23:37	

Service Request: R2109410

Analytical Report

Client: Inventum Engineering

Project: RITC Tanks

Sample Matrix: Water

Service Request: R2109410 **Date Collected:** 09/10/21

Date Received: 09/11/21 09:35

Sample Name: TK-LQ-ST24-09102021

Lab Code: R2109410-003

Units: ug/L Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A **Prep Method:** EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.50 U	0.91	0.50	1	09/20/21 23:56	9/16/21	
Aroclor 1221	1.0 U	1.8	1.0	1	09/20/21 23:56	9/16/21	
Aroclor 1232	0.50 U	0.91	0.50	1	09/20/21 23:56	9/16/21	
Aroclor 1242	0.50 U	0.91	0.50	1	09/20/21 23:56	9/16/21	
Aroclor 1248	0.50 U	0.91	0.50	1	09/20/21 23:56	9/16/21	
Aroclor 1254	0.50 U	0.91	0.50	1	09/20/21 23:56	9/16/21	
Aroclor 1260	0.50 U	0.91	0.50	1	09/20/21 23:56	9/16/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	12	10 - 152	09/20/21 23:56	
Tetrachloro-m-xylene	38	14 - 129	09/20/21 23:56	

Analytical Report

Client: Inventum Engineering

Project: RITC Tanks

Sample Matrix: Water

Service Request: R2109410

Date Collected: 09/10/21

Date Received: 09/11/21 09:35

Sample Name: TK-LQ-ST22-09102021

Lab Code: R2109410-001

Units: ug/L
Basis: NA

Chlorinated Herbicides by GC

Analysis Method: 8151A **Prep Method:** Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	0.14 U	0.45	0.14	1	09/17/21 09:26	9/15/21	
2,4,5-TP	0.12 U	0.45	0.12	1	09/17/21 09:26	9/15/21	
2,4-D	0.35 U	0.45	0.35	1	09/17/21 09:26	9/15/21	
Dicamba	0.12 U	0.45	0.12	1	09/17/21 09:26	9/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	75	10 - 136	09/17/21 09:26	

Analytical Report

Client: Inventum Engineering

Project: RITC Tanks

Sample Matrix: Water

Service Request: R2109410

Date Collected: 09/10/21

Date Received: 09/11/21 09:35

Sample Name: TK-LQ-ST23-09102021

Lab Code: R2109410-002

Units: ug/L
Basis: NA

Chlorinated Herbicides by GC

Analysis Method: 8151A **Prep Method:** Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	14 U	45	14	100	09/17/21 13:23	9/15/21	
2,4,5-TP	12 U	45	12	100	09/17/21 13:23	9/15/21	
2,4-D	310 P	45	35	100	09/17/21 13:23	9/15/21	
Dicamba	12 U	45	12	100	09/17/21 13:23	9/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q	
2,4-Dichlorophenylacetic Acid	0 *	10 - 136	09/17/21 13:23	D	

Analytical Report

Client: Inventum Engineering

Project: RITC Tanks

Sample Matrix: Water

Service Request: R2109410

Date Collected: 09/10/21

Date Received: 09/11/21 09:35

Sample Name: TK-LQ-ST24-09102021

Lab Code: R2109410-003

Units: ug/L
Basis: NA

Chlorinated Herbicides by GC

Analysis Method: 8151A **Prep Method:** Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	0.14 U	0.45	0.14	1	09/17/21 10:06	9/15/21	
2,4,5-TP	0.12 U	0.45	0.12	1	09/17/21 10:06	9/15/21	
2,4-D	0.35 U	0.45	0.35	1	09/17/21 10:06	9/15/21	
Dicamba	0.12 U	0.45	0.12	1	09/17/21 10:06	9/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	57	10 - 136	09/17/21 10:06	



Metals

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METALS - 1 INORGANIC ANALYSIS DATA PACKAGE

Client: Inventum Engineering Service Request: TK-LQ-ST22-09102021

Project No.: R2109410 **Date Collected:** 9/10/2021

Project Name: Date Received: 9/11/2021

Matrix: WATER ug/L

Basis:

Sample Name: TK-LQ-ST22-09102021 Lab Code: R2109410-001

	Analysis			Dil.			
Analyte	Method	PQL	MDL	Factor	Result	С	Q
Aluminum	6010C	100	23.0	1.0	51.6	J	
Antimony	6010C	60.0	6.3	1.0	60.0	Ū	
Arsenic	6010C	10.0	5.5	1.0	10.0	Ū	
Barium	6010C	20.0	3.0	1.0	9.3	J	
Beryllium	6010C	3.0	0.130	1.0	3.0	Ū	
Boron	6010C	200	12.0	1.0	119	J	
Cadmium	6010C	5.0	0.350	1.0	5.0	U	
Mercury	7470A	0.200	0.077	1.0	0.861		
Calcium	6010C	1000	220	1.0	21000		
Chromium	6010C	10.0	1.4	1.0	10.0	U	
Cobalt	6010C	50.0	0.890	1.0	50.0	Ū	
Copper	6010C	20.0	3.9	1.0	7.1	J	
Iron	6010C	100	61.0	1.0	2330		
Uranium	6020A	5.0	0.17	5.0	5.0	Ū	
Lead	6010C	50.0	2.1	1.0	4.2	J	
Magnesium	6010C	1000	29.0	1.0	9990		
Manganese	6010C	10.0	3.7	1.0	185		
Molybdenum	6010C	25.0	2.9	1.0	25.0	Ū	
Nickel	6010C	40.0	2.6	1.0	40.0	Ū	
Potassium	6010C	2000	380	1.0	1500	J	
Selenium	6010C	10.0	6.4	1.0	10.0	U	
Silver	6010C	10.0	0.570	1.0	10.0	Ū	
Sodium	6010C	10000	1300	10.0	239000		
Thallium	6010C	10.0	6.6	1.0	10.0	Ū	
Tin	6010C	500	8.0	1.0	500	U	
Vanadium	6010C	50.0	0.670	1.0	50.0	U	
Zinc	6010C	20.0	2.4	1.0	12.3	J	

% Solids: 0.0

Comments:

METALS - 1 INORGANIC ANALYSIS DATA PACKAGE

Client: Inventum Engineering Service Request: TK-LQ-ST22-09102021

Project No.: R2109410 **Date Collected:** 9/10/2021

Project Name: Date Received: 9/11/2021

 $\label{eq:matrix:matrix:matrix} \textbf{Water} \qquad \qquad \textbf{Units:} \quad \textbf{ug/L}$

Basis:

Sample Name: TK-LQ-ST23-09102021 Lab Code: R2109410-002

	Analysis			Dil.			
Analyte	Method	PQL	MDL	Factor	Result	С	Q
Aluminum	6010C	100	23.0	1.0	2480		
Antimony	6010C	60.0	6.3	1.0	60.0	Ū	
Arsenic	6010C	10.0	5.5	1.0	17.3		
Barium	6010C	20.0	3.0	1.0	39.6		
Beryllium	6010C	3.0	0.130	1.0	0.200	J	
Boron	6010C	200	12.0	1.0	404		
Cadmium	6010C	5.0	0.350	1.0	1.8	J	
Mercury	7470A	0.200	0.077	1.0	0.241		
Calcium	6010C	1000	220	1.0	29000		
Chromium	6010C	10.0	1.4	1.0	40.3		
Cobalt	6010C	50.0	0.890	1.0	9.4	J	
Copper	6010C	20.0	3.9	1.0	34.3		
Iron	6010C	100	61.0	1.0	29400		
Uranium	6020A	5.0	0.17	5.0	5.0	Ū	
Lead	6010C	50.0	2.1	1.0	111		
Magnesium	6010C	1000	29.0	1.0	3900		
Manganese	6010C	10.0	3.7	1.0	1160		
Molybdenum	6010C	25.0	2.9	1.0	25.0	Ū	
Nickel	6010C	40.0	2.6	1.0	10.0	J	
Potassium	6010C	2000	380	1.0	2800		
Selenium	6010C	10.0	6.4	1.0	45.3		
Silver	6010C	10.0	0.570	1.0	10.0	Ū	
Sodium	6010C	1000	130	1.0	104000		
Thallium	6010C	10.0	6.6	1.0	10.0	Ū	
Tin	6010C	500	8.0	1.0	500	Ū	
Vanadium	6010C	50.0	0.670	1.0	7.3	J	
Zinc	6010C	20.0	2.4	1.0	147		

% Solids: 0.0

Comments:

METALS - 1 INORGANIC ANALYSIS DATA PACKAGE

Client: Inventum Engineering Service Request: TK-LQ-ST22-09102021

Project No.: R2109410 **Date Collected:** 9/10/2021

Project Name: Date Received: 9/11/2021

 $\label{eq:matrix:matrix:matrix} \textbf{Water} \qquad \qquad \textbf{Units:} \quad \textbf{ug/L}$

Basis:

Sample Name: TK-LQ-ST24-09102021 Lab Code: R2109410-003

	Analysis			Dil.			
Analyte	Method	PQL	MDL	Factor	Result	С	Q
Aluminum	6010C	100	23.0	1.0	5620		
Antimony	6010C	60.0	6.3	1.0	60.0	Ū	
Arsenic	6010C	10.0	5.5	1.0	10.0	Ū	
Barium	6010C	20.0	3.0	1.0	66.7		
Beryllium	6010C	3.0	0.130	1.0	0.200	J	
Boron	6010C	200	12.0	1.0	59.6	J	
Cadmium	6010C	5.0	0.350	1.0	5.0	Ū	
Mercury	7470A	0.200	0.077	1.0	0.313		
Calcium	6010C	1000	220	1.0	45100		
Chromium	6010C	10.0	1.4	1.0	12.0		
Cobalt	6010C	50.0	0.890	1.0	50.0	Ū	
Copper	6010C	20.0	3.9	1.0	22.8		
Iron	6010C	1000	610	10.0	61300		
Uranium	6020A	5.0	0.17	5.0	0.17	J	
Lead	6010C	50.0	2.1	1.0	261		
Magnesium	6010C	1000	29.0	1.0	10600		
Manganese	6010C	10.0	3.7	1.0	288		
Molybdenum	6010C	25.0	2.9	1.0	25.0	Ū	
Nickel	6010C	40.0	2.6	1.0	2.7	J	
Potassium	6010C	2000	380	1.0	5650		
Selenium	6010C	10.0	6.4	1.0	10.0	Ū	
Silver	6010C	10.0	0.570	1.0	10.0	Ū	
Sodium	6010C	1000	130	1.0	2830		
Thallium	6010C	10.0	6.6	1.0	10.0	Ū	
Tin	6010C	500	8.0	1.0	500	Ū	
Vanadium	6010C	50.0	0.670	1.0	10.5	J	
Zinc	6010C	20.0	2.4	1.0	26.1		

% Solids: 0.0

Comments:



General Chemistry

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Analytical Report

Client: Inventum Engineering

Service Request: R2109410 **Project: Date Collected:** 09/10/21 RITC Tanks

Date Received: 09/11/21 09:35 **Sample Matrix:** Water

TK-LQ-ST22-09102021 **Sample Name:** Basis: NA

Lab Code: R2109410-001

Inorganic Parameters

	Analysis							
Analyte Name	Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen, undistilled	350.1	0.026 U	mg/L	0.050	0.026	1	09/25/21 15:52	
Cyanide, Total	Kelada-01	0.40 U	mg/L	0.50	0.40	100	09/22/21 14:05	
Fluoride, undistilled	300.0	2.65	mg/L	0.10	0.010	1	09/13/21 08:46	
Nitrate+Nitrite as Nitrogen	353.2	0.2 U	mg/L	5.0	0.2	100	09/29/21 21:20	
Nitrite as Nitrogen	353.2	0.007 U	mg/L	0.010	0.007	1	09/15/21 19:39	
pН	9040C	7.63	pH Units	-	-	1	09/24/21 08:20	

Analytical Report

Client: Inventum Engineering

Service Request: R2109410 **Date Collected:** 09/10/21 **Project:** RITC Tanks

Date Received: 09/11/21 09:35 **Sample Matrix:** Water

Sample Name: TK-LQ-ST23-09102021 Basis: NA

Lab Code: R2109410-002

Inorganic Parameters

	Analysis							
Analyte Name	Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen, undistilled	350.1	765000	mg/L	50	26	1000	09/30/21 13:53	
Cyanide, Total	Kelada-01	164	mg/L	5.0	4.0	1000	09/22/21 15:49	
Fluoride, undistilled	300.0	18	mg/L	10	1.0	100	09/13/21 09:21	
Nitrate+Nitrite as Nitrogen	353.2	2 U	mg/L	50	2	1000	09/29/21 21:21	
Nitrite as Nitrogen	353.2	0.7 U	mg/L	1.0	0.7	100	09/15/21 19:40	
pН	9040C	7.51	pH Units	-	-	1	09/24/21 08:20	

Analytical Report

Client: Inventum Engineering

Service Request: R2109410 **Date Collected:** 09/10/21 **Project:** RITC Tanks

Date Received: 09/11/21 09:35 **Sample Matrix:** Water

Sample Name: TK-LQ-ST24-09102021 Basis: NA

Lab Code: R2109410-003

Inorganic Parameters

	Analysis							
Analyte Name	Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen, undistilled	350.1	0.086	mg/L	0.050	0.026	1	09/30/21 14:25	
Cyanide, Total	Kelada-01	0.16 U	mg/L	0.20	0.16	40	09/22/21 13:53	
Fluoride, undistilled	300.0	0.17	mg/L	0.10	0.010	1	09/13/21 09:35	
Nitrate+Nitrite as Nitrogen	353.2	0.2 U	mg/L	5.0	0.2	100	09/29/21 21:28	
Nitrite as Nitrogen	353.2	0.007 U	mg/L	0.010	0.007	1	09/15/21 19:40	
pН	9040C	7.44	pH Units	-	-	1	09/24/21 08:20	



QC Summary Forms

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Volatile Organic Compounds by GC/MS

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QA/QC Report

Client: Inventum Engineering Service Request: R2109410

Project: RITC Tanks **Sample Matrix:** Water

SURROGATE RECOVERY SUMMARYVolatile Organic Compounds by GC/MS

Analysis Method: 8260C

Extraction Method: EPA 5030C

		4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
Sample Name	Lab Code	85-122	80-116	87-121
TK-LQ-ST22-09102021	R2109410-001	105	109	110
TK-LQ-ST23-09102021	R2109410-002	107	105	109
TK-LQ-ST24-09102021	R2109410-003	105	103	111
Method Blank	RQ2111706-04	102	105	109
Lab Control Sample	RQ2111706-03	109	109	111

Analytical Report

Client: Inventum Engineering Service Request: R2109410

Project:RITC TanksDate Collected:NASample Matrix:WaterDate Received:NA

 Sample Name:
 Method Blank
 Units: ug/L

 Lab Code:
 RQ2111706-04
 Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.20 U	5.0	0.20	1	09/21/21 23:28	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	09/21/21 23:28	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	09/21/21 23:28	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	09/21/21 23:28	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	09/21/21 23:28	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	09/21/21 23:28	
1,2,3-Trichlorobenzene	0.25 U	5.0	0.25	1	09/21/21 23:28	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	09/21/21 23:28	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	09/21/21 23:28	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	09/21/21 23:28	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	09/21/21 23:28	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	09/21/21 23:28	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	09/21/21 23:28	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	09/21/21 23:28	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	09/21/21 23:28	
1,4-Dioxane	13 U	100	13	1	09/21/21 23:28	
2-Butanone (MEK)	0.78 U	10	0.78	1	09/21/21 23:28	
2-Hexanone	0.20 U	10	0.20	1	09/21/21 23:28	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	09/21/21 23:28	
Acetone	5.0 U	10	5.0	1	09/21/21 23:28	
Benzene	0.20 U	5.0	0.20	1	09/21/21 23:28	
Bromochloromethane	0.20 U	5.0	0.20	1	09/21/21 23:28	
Bromodichloromethane	0.20 U	5.0	0.20	1	09/21/21 23:28	
Bromoform	0.25 U	5.0	0.25	1	09/21/21 23:28	
Bromomethane	0.70 U	5.0	0.70	1	09/21/21 23:28	
Carbon Disulfide	0.42 U	10	0.42	1	09/21/21 23:28	
Carbon Tetrachloride	0.42 U	5.0	0.34	1	09/21/21 23:28	
Chlorobenzene	0.20 U	5.0	0.20	1	09/21/21 23:28	
Chloroethane	0.20 U	5.0	0.23	1	09/21/21 23:28	
Chloroform	0.23 U 0.24 U	5.0	0.23	1	09/21/21 23:28	
Chloromethane	0.24 U	5.0	0.24	1	09/21/21 23:28	
Cyclohexane	0.26 U	10	0.26	1	09/21/21 23:28	
Dibromochloromethane	0.20 U	5.0	0.20	1	09/21/21 23:28	
Dichlorodifluoromethane (CFC 12)	0.20 U	5.0	0.20	1	09/21/21 23:28	
Dichloromethane (CFC 12)	0.21 U 0.65 U	5.0	0.21	1	09/21/21 23:28	
Ethylbenzene	0.03 U 0.20 U	5.0	0.03			
	0.20 U 0.20 U	5.0	0.20	1 1	09/21/21 23:28	
Isopropylbenzene (Cumene)	0.20 U 0.33 U	10	0.20	1	09/21/21 23:28 09/21/21 23:28	
Methyl Acetate						
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	09/21/21 23:28	
Methylcyclohexane	0.20 U	10	0.20	1	09/21/21 23:28	
Styrene	0.20 U	5.0	0.20	1	09/21/21 23:28	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	09/21/21 23:28	
Toluene	0.20 U	5.0	0.20	1	09/21/21 23:28	

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Superset Reference:21-0000603479 rev 00

Analytical Report

Client: Inventum Engineering Service Request: R2109410

Project:RITC TanksDate Collected:NASample Matrix:WaterDate Received:NA

Sample Name:Method BlankUnits: ug/LLab Code:RQ2111706-04Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	09/21/21 23:28	_
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	09/21/21 23:28	
Vinyl Chloride	0.20 U	5.0	0.20	1	09/21/21 23:28	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	09/21/21 23:28	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	09/21/21 23:28	
m,p-Xylenes	0.20 U	5.0	0.20	1	09/21/21 23:28	
o-Xylene	0.20 U	5.0	0.20	1	09/21/21 23:28	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	09/21/21 23:28	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	09/21/21 23:28	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	09/21/21 23:28	
Dibromofluoromethane	105	80 - 116	09/21/21 23:28	
Toluene-d8	109	87 - 121	09/21/21 23:28	

QA/QC Report

Client: Inventum Engineering

Project: RITC Tanks

Sample Matrix: Water

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Lab Control Sample Summary Volatile Organic Compounds by GC/MS

Units:ug/L Basis:NA

Service Request: R2109410

Date Analyzed: 09/21/21

Lab Control Sample

RQ2111706-03

Analytical

	Analytical				
Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	22.0	20.0	110	75-125
1,1,2,2-Tetrachloroethane	8260C	23.5	20.0	117	78-126
1,1,2-Trichloroethane	8260C	21.9	20.0	109	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	21.4	20.0	107	67-124
1,1-Dichloroethane (1,1-DCA)	8260C	24.2	20.0	121	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	23.6	20.0	118	71-118
1,2,3-Trichlorobenzene	8260C	23.3	20.0	116	67-136
1,2,4-Trichlorobenzene	8260C	23.0	20.0	115	75-132
1,2-Dibromo-3-chloropropane (DBCP)	8260C	22.3	20.0	111	55-136
1,2-Dibromoethane	8260C	22.8	20.0	114	82-127
1,2-Dichlorobenzene	8260C	22.3	20.0	111	80-119
1,2-Dichloroethane	8260C	21.3	20.0	107	71-127
1,2-Dichloropropane	8260C	22.3	20.0	112	80-119
1,3-Dichlorobenzene	8260C	21.7	20.0	109	83-121
1,4-Dichlorobenzene	8260C	21.2	20.0	106	79-119
1,4-Dioxane	8260C	465	400	116	44-154
2-Butanone (MEK)	8260C	22.7	20.0	114	61-137
2-Hexanone	8260C	22.8	20.0	114	63-124
4-Methyl-2-pentanone	8260C	22.7	20.0	114	66-124
Acetone	8260C	23.9	20.0	119	40-161
Benzene	8260C	22.4	20.0	112	79-119
Bromochloromethane	8260C	22.4	20.0	112	81-126
Bromodichloromethane	8260C	22.0	20.0	110	81-123
Bromoform	8260C	21.4	20.0	107	65-146
Bromomethane	8260C	24.0	20.0	120	42-166
Carbon Disulfide	8260C	25.7	20.0	129 *	66-128
Carbon Tetrachloride	8260C	19.9	20.0	100	70-127
Chlorobenzene	8260C	22.2	20.0	111	80-121
Chloroethane	8260C	25.1	20.0	125	62-131
Chloroform	8260C	22.9	20.0	114	79-120
Chloromethane	8260C	30.0	20.0	150 *	65-135
Cyclohexane	8260C	20.2	20.0	101	69-120
Dibromochloromethane	8260C	22.4	20.0	112	72-128
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Superset Reference:21-0000603479 rev 00

QA/QC Report

Client: Inventum Engineering

Project: RITC Tanks

Sample Matrix: Water

Service Request: R2109410 Date Analyzed: 09/21/21

Lab Control Sample Summary Volatile Organic Compounds by GC/MS

Units:ug/L Basis:NA

Lab Control Sample

RQ2111706-03

Angleda Nama	Analytical Mathad	D a sur l4	Carilan Amanan	0/ Dag	0/ Dog Limita
Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260C	23.7	20.0	118	59-155
Dichloromethane	8260C	23.5	20.0	118	73-122
Ethylbenzene	8260C	21.9	20.0	109	76-120
Isopropylbenzene (Cumene)	8260C	23.7	20.0	119	77-128
Methyl Acetate	8260C	27.2	20.0	136 *	61-133
Methyl tert-Butyl Ether	8260C	24.0	20.0	120 *	75-118
Methylcyclohexane	8260C	21.8	20.0	109	51-129
Styrene	8260C	22.6	20.0	113	80-124
Tetrachloroethene (PCE)	8260C	20.5	20.0	103	72-125
Toluene	8260C	23.2	20.0	116	79-119
Trichloroethene (TCE)	8260C	21.0	20.0	105	74-122
Trichlorofluoromethane (CFC 11)	8260C	21.8	20.0	109	71-136
Vinyl Chloride	8260C	26.8	20.0	134	74-159
cis-1,2-Dichloroethene	8260C	23.7	20.0	118	80-121
cis-1,3-Dichloropropene	8260C	23.3	20.0	116	77-122
m,p-Xylenes	8260C	44.2	40.0	110	80-126
o-Xylene	8260C	22.6	20.0	113	79-123
trans-1,2-Dichloroethene	8260C	23.4	20.0	117	73-118
trans-1,3-Dichloropropene	8260C	23.1	20.0	115	71-133



Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com

QA/QC Report

Client: Inventum Engineering Service Request: R2109410

Project: RITC Tanks

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D **Extraction Method:** EPA 3510C

		2,4,6-Tribromophenol	2-Fluorobiphenyl	2-Fluorophenol
Sample Name	Lab Code	35-141	31-118	10-105
TK-LQ-ST22-09102021	R2109410-001	78	75	41
TK-LQ-ST23-09102021	R2109410-002	0*	0*	0*
TK-LQ-ST24-09102021	R2109410-003	75	75	41
Method Blank	RQ2111388-03	79	62	39
Lab Control Sample	RQ2111388-04	75	70	40
Duplicate Lab Control Sample	RQ2111388-05	79	70	30

QA/QC Report

Client: Inventum Engineering Service Request: R2109410

Project: RITC Tanks **Sample Matrix:** Water

SURROGATE RECOVERY SUMMARY Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D **Extraction Method:** EPA 3510C

		Nitrobenzene-d5	Phenol-d6	Terphenyl-d14
Sample Name	Lab Code	31-110	10-107	10-165
TK-LQ-ST22-09102021	R2109410-001	68	31	79
TK-LQ-ST23-09102021	R2109410-002	0*	0*	0*
TK-LQ-ST24-09102021	R2109410-003	68	32	81
Method Blank	RQ2111388-03	56	29	106
Lab Control Sample	RQ2111388-04	59	36	93
Duplicate Lab Control Sample	RQ2111388-05	53	31	99

Analytical Report

Client: Inventum Engineering Service Request: R2109410

Project:RITC TanksDate Collected:NASample Matrix:WaterDate Received:NA

 Sample Name:
 Method Blank
 Units: ug/L

 Lab Code:
 RQ2111388-03
 Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D **Prep Method:** Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	1.2 U	10	1.2	1	09/16/21 16:14	9/15/21	
2,3,4,6-Tetrachlorophenol	1.2 U	10	1.2	1	09/16/21 16:14	9/15/21	
2,4,5-Trichlorophenol	1.1 U	10	1.1	1	09/16/21 16:14	9/15/21	
2,4,6-Trichlorophenol	1.4 U	10	1.4	1	09/16/21 16:14	9/15/21	
2,4-Dichlorophenol	1.3 U	10	1.3	1	09/16/21 16:14	9/15/21	
2,4-Dimethylphenol	1.4 U	10	1.4	1	09/16/21 16:14	9/15/21	
2,4-Dinitrophenol	20 U	50	20	1	09/16/21 16:14	9/15/21	
2,4-Dinitrotoluene	2.4 U	10	2.4	1	09/16/21 16:14	9/15/21	
2,6-Dinitrotoluene	1.4 U	10	1.4	1	09/16/21 16:14	9/15/21	
2-Chloronaphthalene	1.4 U	10	1.4	1	09/16/21 16:14	9/15/21	
2-Chlorophenol	1.1 U	10	1.1	1	09/16/21 16:14	9/15/21	
2-Methylnaphthalene	1.3 U	10	1.3	1	09/16/21 16:14	9/15/21	
2-Methylphenol	1.0 U	10	1.0	1	09/16/21 16:14	9/15/21	
2-Nitroaniline	1.4 U	10	1.4	1	09/16/21 16:14	9/15/21	
2-Nitrophenol	1.5 U	10	1.5	1	09/16/21 16:14	9/15/21	
3,3'-Dichlorobenzidine	1.2 U	10	1.2	1	09/16/21 16:14	9/15/21	
3- and 4-Methylphenol Coelution	1.2 U	10	1.2	1	09/16/21 16:14	9/15/21	
3-Nitroaniline	1.1 U	10	1.1	1	09/16/21 16:14	9/15/21	
4,6-Dinitro-2-methylphenol	8.7 U	50	8.7	1	09/16/21 16:14	9/15/21	
4-Bromophenyl Phenyl Ether	1.7 U	10	1.7	1	09/16/21 16:14	9/15/21	
4-Chloro-3-methylphenol	1.1 U	10	1.1	1	09/16/21 16:14	9/15/21	
4-Chloroaniline	1.0 U	10	1.0	1	09/16/21 16:14	9/15/21	
4-Chlorophenyl Phenyl Ether	1.5 U	10	1.5	1	09/16/21 16:14	9/15/21	
4-Nitroaniline	1.4 U	10	1.4	1	09/16/21 16:14	9/15/21	
4-Nitrophenol	6.4 U	50	6.4	1	09/16/21 16:14	9/15/21	
Acenaphthene	1.4 U	10	1.4	1	09/16/21 16:14	9/15/21	
Acenaphthylene	1.4 U	10	1.4	1	09/16/21 16:14	9/15/21	
Acetophenone	1.3 U	10	1.3	1	09/16/21 16:14	9/15/21	
Anthracene	1.3 U	10	1.3	1	09/16/21 16:14	9/15/21	
Atrazine	2.1 U	10	2.1	1	09/16/21 16:14	9/15/21	
Benz(a)anthracene	1.6 U	10	1.6	1	09/16/21 16:14	9/15/21	
Benzaldehyde	1.0 U	10	1.0	1	09/16/21 16:14	9/15/21	
Benzo(a)pyrene	1.2 U	10	1.2	1	09/16/21 16:14	9/15/21	
Benzo(b)fluoranthene	1.2 U	10	1.2	1	09/16/21 16:14	9/15/21	
Benzo(g,h,i)perylene	1.0 U	10	1.0	1	09/16/21 16:14	9/15/21	
Benzo(k)fluoranthene	1.3 U	10	1.3	1	09/16/21 16:14	9/15/21	
Biphenyl	1.4 U	10	1.4	1	09/16/21 16:14	9/15/21	
2,2'-Oxybis(1-chloropropane)	1.4 U	10	1.4	1	09/16/21 16:14	9/15/21	
Bis(2-chloroethoxy)methane	1.9 U	10	1.9	1	09/16/21 16:14	9/15/21	
Bis(2-chloroethyl) Ether	1.3 U	10	1.3	1	09/16/21 16:14	9/15/21	
Bis(2-ethylhexyl) Phthalate	7.8 U	10	7.8	1	09/16/21 16:14	9/15/21	
Butyl Benzyl Phthalate	1.4 U	10	1.4	1	09/16/21 16:14	9/15/21	
Caprolactam	1.0 U	10	1.0	1	09/16/21 16:14	9/15/21	
Capiolaciani	1.0 0	10	1.0	•	07/10/21 10:1T), 13/41	

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Superset Reference:21-0000603479 rev 00

Analytical Report

Client: Inventum Engineering

Project:RITC TanksDate Collected:NASample Matrix:WaterDate Received:NA

 Sample Name:
 Method Blank
 Units: ug/L

 Lab Code:
 RQ2111388-03
 Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D **Prep Method:** Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed D	ate Extracted	Q
Carbazole	1.6 U	10	1.6	1	09/16/21 16:14	9/15/21	
Chrysene	1.2 U	10	1.2	1	09/16/21 16:14	9/15/21	
Di-n-butyl Phthalate	1.7 U	10	1.7	1	09/16/21 16:14	9/15/21	
Di-n-octyl Phthalate	3.3 U	10	3.3	1	09/16/21 16:14	9/15/21	
Dibenz(a,h)anthracene	1.1 U	10	1.1	1	09/16/21 16:14	9/15/21	
Dibenzofuran	1.4 U	10	1.4	1	09/16/21 16:14	9/15/21	
Diethyl Phthalate	1.1 U	10	1.1	1	09/16/21 16:14	9/15/21	
Dimethyl Phthalate	1.3 U	10	1.3	1	09/16/21 16:14	9/15/21	
Fluoranthene	1.5 U	10	1.5	1	09/16/21 16:14	9/15/21	
Fluorene	1.3 U	10	1.3	1	09/16/21 16:14	9/15/21	
Hexachlorobenzene	1.6 U	10	1.6	1	09/16/21 16:14	9/15/21	
Hexachlorobutadiene	1.0 U	10	1.0	1	09/16/21 16:14	9/15/21	
Hexachlorocyclopentadiene	2.2 U	10	2.2	1	09/16/21 16:14	9/15/21	
Hexachloroethane	1.1 U	10	1.1	1	09/16/21 16:14	9/15/21	
Indeno(1,2,3-cd)pyrene	1.8 U	10	1.8	1	09/16/21 16:14	9/15/21	
Isophorone	1.4 U	10	1.4	1	09/16/21 16:14	9/15/21	
N-Nitrosodi-n-propylamine	1.2 U	10	1.2	1	09/16/21 16:14	9/15/21	
N-Nitrosodiphenylamine	2.7 U	10	2.7	1	09/16/21 16:14	9/15/21	
Naphthalene	1.2 U	10	1.2	1	09/16/21 16:14	9/15/21	
Nitrobenzene	1.5 U	10	1.5	1	09/16/21 16:14	9/15/21	
Pentachlorophenol (PCP)	9.7 U	50	9.7	1	09/16/21 16:14	9/15/21	
Phenanthrene	1.4 U	10	1.4	1	09/16/21 16:14	9/15/21	
Phenol	1.0 U	10	1.0	1	09/16/21 16:14	9/15/21	
Pyrene	1.5 U	10	1.5	1	09/16/21 16:14	9/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	79	35 - 141	09/16/21 16:14	
2-Fluorobiphenyl	62	31 - 118	09/16/21 16:14	
2-Fluorophenol	39	10 - 105	09/16/21 16:14	
Nitrobenzene-d5	56	31 - 110	09/16/21 16:14	
Phenol-d6	29	10 - 107	09/16/21 16:14	
Terphenyl-d14	106	10 - 165	09/16/21 16:14	

Service Request: R2109410

QA/QC Report

Client: Inventum Engineering

Project: RITC Tanks

Sample Matrix: Water

Duplicate Lab Control Sample Summary Semivolatile Organic Compounds by GC/MS

Units:ug/L Basis:NA

Service Request: R2109410

Date Analyzed: 09/16/21

Lab Control Sample

Duplicate Lab Control Sample

RQ2111388-04

RQ2111388-05

Analyte Name	Analytica l Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	8270D	82.0	80.1	102	92.5	80.1	116	15-132	13	30
2,3,4,6-Tetrachlorophenol	8270D	66.0	80.0	83	69.8	80.0	87	42-136	5	30
2,4,5-Trichlorophenol	8270D	63.4	80.0	79	68.1	80.0	85	48-134	7	30
2,4,6-Trichlorophenol	8270D	56.5	80.0	71	59.3	80.0	74	44-135	4	30
2,4-Dichlorophenol	8270D	49.6	80.0	62	50.4	80.0	63	48-127	2	30
2,4-Dimethylphenol	8270D	53.5	80.0	67	55.1	80.0	69	35-99	3	30
2,4-Dinitrophenol	8270D	29.5 J	80.0	37	48.8 J	80.0	61	21-154	49*	30
2,4-Dinitrotoluene	8270D	67.0	80.0	84	69.4	80.0	87	54-130	4	30
2,6-Dinitrotoluene	8270D	73.3	80.0	92	72.6	80.0	91	51-127	1	30
2-Chloronaphthalene	8270D	57.6	80.0	72	58.3	80.0	73	40-108	1	30
2-Chlorophenol	8270D	39.0	80.0	49	33.0	80.0	41 *	42-112	18	30
2-Methylnaphthalene	8270D	54.2	80.0	68	52.6	80.0	66	34-102	3	30
2-Methylphenol	8270D	48.6	80.0	61	43.7	80.0	55	47-100	10	30
2-Nitroaniline	8270D	72.5	80.0	91	72.9	80.0	91	52-133	<1	30
2-Nitrophenol	8270D	45.6	80.0	57	42.5	80.0	53	43-131	7	30
3,3'-Dichlorobenzidine	8270D	68.9	80.0	86	60.6	80.0	76	43-126	12	30
3- and 4-Methylphenol Coelution	8270D	48.3	80.0	60	46.3	80.0	58	40-92	3	30
3-Nitroaniline	8270D	60.6	80.0	76	59.3	80.0	74	42-111	3	30
4,6-Dinitro-2-methylphenol	8270D	52.7	80.0	66	60.2	80.0	75	36-152	13	30
4-Bromophenyl Phenyl Ether	8270D	75.0	80.0	94	73.1	80.0	91	48-114	3	30
4-Chloro-3-methylphenol	8270D	59.6	80.0	75	61.6	80.0	77	52-113	3	30
4-Chloroaniline	8270D	57.0	80.0	71	50.4	80.0	63	44-109	12	30
4-Chlorophenyl Phenyl Ether	8270D	68.7	80.0	86	70.5	80.0	88	51-107	2	30
4-Nitroaniline	8270D	65.3	80.0	82	65.8	80.0	82	54-133	<1	30
4-Nitrophenol	8270D	29.7 J	80.0	37	31.4 J	80.0	39	10-126	5	30
Acenaphthene	8270D	65.6	80.0	82	65.3	80.0	82	52-107	<1	30
Acenaphthylene	8270D	69.9	80.0	87	69.4	80.0	87	55-109	<1	30
Acetophenone	8270D	102	160	64	92.2	160	58	46-114	10	30
Anthracene	8270D	74.1	80.0	93	76.8	80.0	96	55-116	3	30
Atrazine	8270D	84.8	80.0	106	94.6	80.0	118	61-164	11	30
Benz(a)anthracene	8270D	69.7	80.0	87	70.1	80.0	88	61-121	1	30
Benzaldehyde	8270D	45.8	80.0	57	11.0	80.0	14 *	45-132	121*	30
Benzo(a)pyrene	8270D	83.1	80.0	104	83.3	80.0	104	44-114	<1	30
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Superset Reference:21-0000603479 rev 00

QA/QC Report

Client: Inventum Engineering

Project: RITC Tanks

Sample Matrix: Water

Duplicate Lab Control Sample Summary Semivolatile Organic Compounds by GC/MS

Units:ug/L Basis:NA

Service Request: R2109410

Date Analyzed: 09/16/21

Lab Control Sample

Duplicate Lab Control Sample

RQ2111388-04

RQ2111388-05

Analyte Name	Analytica l Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Benzo(b)fluoranthene	8270D	71.0	80.0	89	71.2	80.0	89	62-115	<1	30
Benzo(g,h,i)perylene	8270D	75.9	80.0	95	76.9	80.0	96	63-136	1	30
Benzo(k)fluoranthene	8270D	77.0	80.0	96	77.4	80.0	97	49-133	1	30
Biphenyl	8270D	53.0	80.0	66	55.3	80.0	69	39-106	4	30
2,2'-Oxybis(1-chloropropane)	8270D	48.2	80.0	60	41.7	80.0	52	32-122	14	30
Bis(2-chloroethoxy)methane	8270D	68.4	80.0	86	64.7	80.0	81	55-110	6	30
Bis(2-chloroethyl) Ether	8270D	43.6	80.0	55	36.1	80.0	45 *	46-102	20	30
Bis(2-ethylhexyl) Phthalate	8270D	63.4	80.0	79	66.7	80.0	83	51-132	5	30
Butyl Benzyl Phthalate	8270D	69.8	80.0	87	69.0	80.0	86	41-148	1	30
Caprolactam	8270D	25.3	80.0	32	28.0	80.0	35	10-41	9	30
Carbazole	8270D	82.5	80.0	103	83.1	80.0	104	56-139	<1	30
Chrysene	8270D	74.8	80.0	94	75.5	80.0	94	57-118	<1	30
Di-n-butyl Phthalate	8270D	86.2	80.0	108	86.2	80.0	108	57-128	<1	30
Di-n-octyl Phthalate	8270D	68.6	80.0	86	69.9	80.0	87	62-124	1	30
Dibenz(a,h)anthracene	8270D	78.1	80.0	98	77.0	80.0	96	54-135	2	30
Dibenzofuran	8270D	69.2	80.0	86	69.0	80.0	86	55-110	<1	30
Diethyl Phthalate	8270D	66.0	80.0	83	66.2	80.0	83	53-113	<1	30
Dimethyl Phthalate	8270D	71.7	80.0	90	73.5	80.0	92	51-112	2	30
Fluoranthene	8270D	77.0	80.0	96	78.9	80.0	99	66-127	3	30
Fluorene	8270D	70.3	80.0	88	71.4	80.0	89	54-106	1	30
Hexachlorobenzene	8270D	71.7	80.0	90	72.0	80.0	90	53-123	<1	30
Hexachlorobutadiene	8270D	40.4	80.0	50	36.3	80.0	45	16-95	11	30
Hexachlorocyclopentadiene	8270D	17.0	80.0	21	16.5	80.0	21	10-99	<1	30
Hexachloroethane	8270D	31.5	80.0	39	22.7	80.0	28	15-92	33*	30
Indeno(1,2,3-cd)pyrene	8270D	72.2	80.0	90	71.8	80.0	90	62-137	<1	30
Isophorone	8270D	63.6	80.0	80	60.1	80.0	75	50-116	6	30
N-Nitrosodi-n-propylamine	8270D	52.8	80.0	66	48.0	80.0	60	49-115	10	30
N-Nitrosodiphenylamine	8270D	79.3	80.0	99	79.4	80.0	99	45-123	<1	30
Naphthalene	8270D	45.9	80.0	57	44.0	80.0	55	38-99	4	30
Nitrobenzene	8270D	48.3	80.0	60	44.1	80.0	55	46-108	9	30
Pentachlorophenol (PCP)	8270D	59.0	80.0	74	64.8	80.0	81	29-164	9	30
Phenanthrene	8270D	74.3	80.0	93	73.8	80.0	92	58-118	1	30
Phenol	8270D	28.4	80.0	36	24.9	80.0	31	10-113	15	30

Printed 10/26/2021 5:39:15 PM

Superset Reference:21-0000603479 rev 00

QA/QC Report

Client: Inventum Engineering

Project: RITC Tanks Date Analyzed: 09/16/21

Sample Matrix: Water

Duplicate Lab Control Sample Summary Semivolatile Organic Compounds by GC/MS

> Units:ug/L Basis:NA

Service Request: R2109410

Lab Control Sample

Duplicate Lab Control Sample

RQ2111388-04

RQ2111388-05

	Analytica		Spike			Spike		% Rec		RPD	
Analyte Name	l Method	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit	
Pyrene	8270D	73.0	80.0	91	76.1	80.0	95	61-122	4	30	



Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com

QA/QC Report

Client: Inventum Engineering Service Request: R2109410

Project: RITC Tanks **Sample Matrix:** Water

SURROGATE RECOVERY SUMMARY Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B **Extraction Method:** EPA 3510C

		Decachlorobiphenyl	Tetrachloro-m-xylene
Sample Name	Lab Code	10-164	10-147
TK-LQ-ST22-09102021	R2109410-001	69	51
TK-LQ-ST23-09102021	R2109410-002	88	220*
TK-LQ-ST24-09102021	R2109410-003	24	34
Method Blank	RQ2111454-01	74	50
Lab Control Sample	RQ2111454-02	78	54
Duplicate Lab Control Sample	RQ2111454-03	78	54

Analytical Report

Client: Inventum Engineering Service Request: R2109410

Project:RITC TanksDate Collected:NASample Matrix:WaterDate Received:NA

 Sample Name:
 Method Blank
 Units: ug/L

 Lab Code:
 RQ2111454-01
 Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B **Prep Method:** EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	
4,4'-DDE	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	
4,4'-DDT	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	
Aldrin	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	
Dieldrin	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	
Endosulfan I	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	
Endosulfan II	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	
Endosulfan Sulfate	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	
Endrin	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	
Endrin Aldehyde	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	
Endrin Ketone	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	
Heptachlor	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	
Heptachlor Epoxide	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	
Methoxychlor	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	
Toxaphene	0.50 U	0.50	0.50	1	09/20/21 12:13	9/16/21	
alpha-BHC	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	
alpha-Chlordane	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	
beta-BHC	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	
delta-BHC	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	
gamma-BHC (Lindane)	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	
gamma-Chlordane	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	74	10 - 164	09/20/21 12:13	
Tetrachloro-m-xylene	50	10 - 147	09/20/21 12:13	

QA/QC Report

Client: Inventum Engineering

Service Request: R2109410 **Project:** RITC Tanks **Date Analyzed:** 09/20/21

Sample Matrix: Water

Duplicate Lab Control Sample Summary Organochlorine Pesticides by Gas Chromatography

Units:ug/L Basis:NA

Lab Control Sample

Duplicate Lab Control Sample

RQ2111454-02

RQ2111454-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
4,4'-DDD	8081B	0.355	0.400	89	0.348	0.400	87	42-159	2	30
4,4'-DDE	8081B	0.326	0.400	81	0.327	0.400	82	47-147	<1	30
4,4'-DDT	8081B	0.410	0.400	102	0.399	0.400	100	41-149	3	30
Aldrin	8081B	0.231	0.400	58	0.230	0.400	58	22-137	<1	30
Dieldrin	8081B	0.346	0.400	86	0.340	0.400	85	52-144	2	30
Endosulfan I	8081B	0.341	0.400	85	0.334	0.400	83	52-136	2	30
Endosulfan II	8081B	0.357	0.400	89	0.349	0.400	87	57-138	2	30
Endosulfan Sulfate	8081B	0.367	0.400	92	0.373	0.400	93	34-156	1	30
Endrin	8081B	0.371	0.400	93	0.363	0.400	91	56-143	2	30
Endrin Aldehyde	8081B	0.399	0.400	100	0.423	0.400	106	10-166	6	30
Endrin Ketone	8081B	0.384	0.400	96	0.383	0.400	96	59-143	<1	30
Heptachlor	8081B	0.289	0.400	72	0.292	0.400	73	32-141	<1	30
Heptachlor Epoxide	8081B	0.341	0.400	85	0.335	0.400	84	51-143	2	30
Methoxychlor	8081B	0.424	0.400	106	0.426	0.400	107	56-149	<1	30
alpha-BHC	8081B	0.315	0.400	79	0.309	0.400	77	36-151	2	30
alpha-Chlordane	8081B	0.331	0.400	83	0.329	0.400	82	50-139	<1	30
beta-BHC	8081B	0.327	0.400	82	0.320	0.400	80	55-149	2	30
delta-BHC	8081B	0.320	0.400	80	0.313	0.400	78	29-159	2	30
gamma-BHC (Lindane)	8081B	0.317	0.400	79	0.312	0.400	78	41-149	2	30
gamma-Chlordane	8081B	0.325	0.400	81	0.330	0.400	82	50-140	1	30

QA/QC Report

Client: Inventum Engineering Service Request: R2109410

Project: RITC Tanks

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A **Extraction Method:** EPA 3510C

		Decachlorobiphenyl	Tetrachloro-m-xylene
Sample Name	Lab Code	10-152	14-129
TK-LQ-ST22-09102021	R2109410-001	30	50
TK-LQ-ST23-09102021	R2109410-002	12	25
TK-LQ-ST24-09102021	R2109410-003	12	38
Method Blank	RQ2111454-01	63	50
Lab Control Sample	RQ2111454-02	66	57
Duplicate Lab Control Sample	RQ2111454-03	72	57

Analytical Report

Client: Inventum Engineering

Project:RITC TanksDate Collected:NASample Matrix:WaterDate Received:NA

Sample Name:Method BlankUnits: ug/LLab Code:RQ2111454-01Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A **Prep Method:** EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.50 U	1.0	0.50	1	09/20/21 18:41	9/16/21	
Aroclor 1221	1.0 U	2.0	1.0	1	09/20/21 18:41	9/16/21	
Aroclor 1232	0.50 U	1.0	0.50	1	09/20/21 18:41	9/16/21	
Aroclor 1242	0.50 U	1.0	0.50	1	09/20/21 18:41	9/16/21	
Aroclor 1248	0.50 U	1.0	0.50	1	09/20/21 18:41	9/16/21	
Aroclor 1254	0.50 U	1.0	0.50	1	09/20/21 18:41	9/16/21	
Aroclor 1260	0.50 U	1.0	0.50	1	09/20/21 18:41	9/16/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	63	10 - 152	09/20/21 18:41	
Tetrachloro-m-xylene	50	14 - 129	09/20/21 18:41	

Service Request: R2109410

QA/QC Report

Client: Inventum Engineering

Project: RITC Tanks

Sample Matrix: Water

Service Request: R2109410

Date Analyzed: 09/20/21

Duplicate Lab Control Sample Summary Polychlorinated Biphenyls (PCBs) by GC

Units:ug/L Basis:NA

Lab Control Sample

Duplicate Lab Control Sample

RQ2111454-02

RQ2111454-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aroclor 1016	8082A	3.55	4.00	89	3.68	4.00	92	49-123	4	30
Aroclor 1260	8082A	3.74	4.00	94	3.99	4.00	100	30-120	7	30

QA/QC Report

Client: Inventum Engineering Service Request: R2109410

Project: RITC Tanks

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY Chlorinated Herbicides by GC

Analysis Method: 8151A **Extraction Method:** Method

2,4-Dichlorophenylacetic

		Acid	
Sample Name	Lab Code	10-136	
TK-LQ-ST22-09102021	R2109410-001	75	
TK-LQ-ST23-09102021	R2109410-002	0*	
TK-LQ-ST24-09102021	R2109410-003	57	
Method Blank	RQ2111389-01	70	
Lab Control Sample	RQ2111389-02	75	
Duplicate Lab Control Sample	RQ2111389-03	65	

Analytical Report

Client: Inventum Engineering

Inventum Engineering

RITC Tanks

Service Request: R2109410

Date Collected: NA

Project:RITC TanksDate Collected:NASample Matrix:WaterDate Received:NA

Sample Name:Method BlankUnits: ug/LLab Code:RQ2111389-01Basis: NA

Chlorinated Herbicides by GC

Analysis Method: 8151A **Prep Method:** Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	0.14 U	0.50	0.14	1	09/17/21 10:26	9/15/21	
2,4,5-TP	0.12 U	0.50	0.12	1	09/17/21 10:26	9/15/21	
2,4-D	0.35 U	0.50	0.35	1	09/17/21 10:26	9/15/21	
Dicamba	0.12 U	0.50	0.12	1	09/17/21 10:26	9/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	70	10 - 136	09/17/21 10:26	

QA/QC Report

Client: Inventum Engineering

Project: RITC Tanks

Sample Matrix: Water

Service Request: R2109410 Date Analyzed: 09/17/21

Duplicate Lab Control Sample Summary Chlorinated Herbicides by GC

Units:ug/L Basis:NA

Lab Control Sample

Duplicate Lab Control Sample

RQ2111389-02

RQ2111389-03

	Analytical		Spike			Spike		% Rec		RPD
Analyte Name	Method	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
2,4,5-T	8151A	1.15	2.00	57	1.27	2.00	64	21-125	10	30
2,4,5-TP	8151A	1.07	2.00	54	1.13	2.00	56	21-120	5	30
2,4-D	8151A	1.39	2.00	70	1.36	2.00	68	26-154	2	30
Dicamba	8151A	1.21	2.00	61	1.21	2.00	60	22-125	<1	30



Metals

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com

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BLANKS

Contract:	R2109410			
Lab Code:	Case No.:	SAS No.:	SDG NO.:	TK-LQ-ST22-0
Preparation	Blank Matrix (soil/water):	WATER		
Preparation	Blank Concentration Units (ug/L,	ppt, or mg/kg): UG/L		

	Initial Calib. Blank		Continuing Calibration Blank ug/L Preparation Blank									
Analyte	ug/L	С	1	С	2	С	3	С		С	Щ	M
Aluminum	23.00	Ū	23.00	Ū	23.00	Ū	23.00	Ū	23.000	U	Ш	P
Antimony	15.20	J	9.50	J	6.60	J	8.20	J	6.300	U	Ш	P
Arsenic	5.50	Ū	5.50	Ū	5.50	Ū	5.50	Ū	5.500	Ū	Ш	P
Barium	3.00	Ū	3.00	Ū	3.00	Ū	3.00	U	3.000	U	Ш	P
Beryllium	0.13	ם	0.13	ŭ	0.13	ט	0.13	Ū	0.130	U	Ш	P
Boron	12.00	U	12.00	ŭ	12.00	U	12.00	U	12.000	U	Ш	P
Cadmium	0.35	ם	0.35	υ	0.35	ŭ	0.35	U	0.350	U	LĿ	P
Mercury	0.077	ŭ	0.077	ט	0.077	ŭ	0.077	U	0.077	U		cv
Calcium	220.00	Ū	220.00	Ū	220.00	Ū	220.00	Ū	220.000	Ū	Ħ	P
Chromium	1.40	Ū	1.40	Ū	1.40	Ū	1.40	Ū	1.400	Ū		P
Cobalt	0.89	Ū	0.89	Ū	0.89	U	0.89	Ū	0.890	Ū	П	P
Copper	3.90	ū	3.90	ט	3.90	Ū	3.90	Ū	3.900	U	Πī	P
Iron	61.00	Ū	61.00	Ū	61.00	Ū	61.00	Ū	61.000	Ū	Ħ	P
Uranium	0.03	U	0.03	ט	0.03	U	0.03	U	0.03	U		MS
Lead	2.10	ū	2.10	ט	2.10	Ū	2.10	Ū	2.100	U	Πī	P
Magnesium	29.00	Ū	29.00	Ū	29.00	Ū	29.00	Ū	29.000	Ū	Ħ	P
Manganese	3.70	Ū	3.70	Ū	3.70	Ū	3.70	Ū	3.700	U		P
Molybdenum	11.10	J	9.30	J	8.60	J	8.70	J	2.900	Ū	Π	P
Nickel	2.60	Ū	2.60	Ū	2.60	Ū	2.60	Ū	2.600	Ū	Ħ	P
Potassium	380.00	Ū	380.00	Ū	380.00	Ū	380.00	Ū	380.000	Ū	Ħ	P
Selenium	6.40	Ū	6.40	Ū	6.40	Ū	6.40	Ū	6.400	U		P
Silver	0.57	Ū	0.57	Ū	0.57	Ū	0.57	Ū	0.570	U	П	P
Sodium	130.00	Ū	130.00	Ū	130.00	Ū	130.00	Ū	130.000	Ū		P
Thallium	6.60	Ū	6.60	Ū	7.00	J	6.60	Ū	6.600	Ū		P
Tin	8.00	Ū	8.00	Ū	8.00	Ū	8.00	Ū	8.000	Ū		P
Vanadium	0.67	Ū	0.67	Ū	0.67	Ū	0.67	Ū	0.670	Ū	\prod	P
Zinc	2.40	U	2.40	ŭ	2.40	U	2.40	Ū	2.400	Ū		P

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BLANKS

Contract:	R2109410			
Lab Code:	Case No.:	SAS No.:	SDG NO.:	TK-LQ-ST22-0
Preparation	Blank Matrix (soil/water):	WATER		
Preparation	n Blank Concentration Units (ug/l	L, ppt, or mg/kg): UG/L		

	Initial Calib. Blank		Conti	inu	ing Calibrati	lon	Blank ug/L		Preparation Blank			
Analyte	ug/L	С	1	С	2	С	3	С		С		М
Aluminum			23.00	บ	23.00	υ	23.00	U			Ī	P
Antimony		i	6.30	υ	6.80	J	15.10	J		İ	ī	P
Arsenic		i	5.50	υ	5.50	U	6.10	J		İ	ī	P
Barium			3.00	υ	3.00	υ	3.00	U		İ	Ī	P
Beryllium		i	0.13	υ	0.13	υ	0.13	U		ĺ	ī	P
Boron		i	12.00	υ	12.00	υ	12.00	U		İ	ī	P
Cadmium		i	0.35	υ	0.35	υ	0.35	U		İ	ī	P
Mercury		i	0.077	υ	0.077	υ				ĺ	ī	cv
Calcium		i	220.00	υ	220.00	υ	220.00	U		ĺ	ī	P
Chromium		i	1.40	υ	1.40	υ	1.40	U		İ	ī	P
Cobalt		i	0.89	υ	0.89	υ	0.89	U		İ	ī	P
Copper			3.90	υ	3.90	υ	3.90	U			Ī	P
Iron			61.00	υ	61.00	υ	61.00	U		İ	Ī	P
Uranium		i	0.03	υ	0.03	U	0.03	U		İ	Ī	MS
Lead			2.10	υ	2.10	υ	2.10	U			Ī	P
Magnesium			29.00	υ	29.00	υ	29.00	U			Ī	P
Manganese		i	3.70	υ	3.70	υ	3.70	U		İ	ī	P
Molybdenum		i	8.10	J	8.20	J	11.20	J		İ	ī	P
Nickel			2.60	υ	2.60	υ	2.60	U			Ī	P
Potassium			380.00	υ	380.00	υ	380.00	U			Ī	P
Selenium		i	6.40	υ	6.40	υ	6.40	U		İ	ī	P
Silver		i	0.57	υ	0.57	υ	0.57	U			Ī	P
Sodium			130.00	υ	130.00	υ	130.00	U			ī	P
Thallium		Ī	6.60	υ	7.10	J	8.70	J			Ī	P
Tin			8.00	υ	8.00	υ	8.00	U			ī	P
Vanadium		İ	0.67	υ	0.67	υ	0.67	U		İ	ī	P
Zinc		Ī	2.40	υ	2.40	υ	2.40	U		l	Ī	P

-3-

BLANKS

Contract:	R2109410					
Lab Code:		Case No.:	SAS No.:		SDG NO.:	TK-LQ-ST22-0
Preparation	Blank Matrix	(soil/water):	WATER			
Preparation	Blank Concent	ration Units (ug	/L, ppt, or mg/kg):	UG/L		

	Initial Calib. Blank		Cont	inu	ing Calibrati	on	Blank ug/L		Preparation Blank		
Analyte	ug/L	С	1	С	2	С	3	С		С	M
Arsenic	5.50	U	5.50	Ū	5.50	U	5.50	Ū			P
Iron	61.00	Ū	61.00	Ū	61.00	U	61.00	Ū			P
Sodium	130.00	U	130.00	U	130.00	U	130.00	Ū			P

-3-

BLANKS

Contract:	R2109410					
Lab Code:	Cas	se No.:	SAS No.:		SDG NO.:	TK-LQ-ST22-0
Preparation	Blank Matrix (soi	il/water):	WATER			
Preparation	Blank Concentrati	ion Units (ug/L, pp	t, or mg/kg):	UG/L		

	Initial Calib. Blank		Cont	inu	ing Calibrat	ion	Blank ug/L		Preparation Blank			
Analyte	ug/L	С	1	С	2	С	3	С		С	1	M
Arsenic			6.10	J	5.50	Ū	5.50	Ū			P	,
Iron			61.00	Ū	61.00	U	61.00	Ū			P	,]
Sodium			130.00	Ū	130.00	U	130.00	Ū		l ĺ	P	, [

-7-

LABORATORY CONTROL SAMPLE

Contract:	R2109410				
Lab Code:		Case No.:	SAS No.:	SDG NO.:	TK-LQ-ST22-0
Solid LCS S	ource:				
Aqueous LCS	Source:	ACCUSTANDARD			

	Aqueous	(ug/L				Solid	(mg/K	
Analyte	True	Found	%R	True	Found	С	Limits	%R
Aluminum	2000	1980	99					
Antimony	500	479	96					
Arsenic	40	41	102					
Barium	2000	2010	100					
Beryllium	50	50	100					
Boron	1000	977	98					
Cadmium	50	51	102					
Mercury	1.000	1.080	108					
Calcium	2000	2030	102					ĺ
Chromium	200	205	102					
Cobalt	500	511	102					
Copper	250	243	97					
Iron	1000	999	100					
Uranium	20.0	19.7	98					
Lead	500	496	99					
Magnesium	2000	1950	98					
Manganese	500	495	99					
Molybdenum	500	493	99					
Nickel	500	507	101					
Potassium	20000	19400	97					
Selenium	1010	982	97					ĺ
Silver	J 50	48	96					
Sodium	20000	19800	99					
Thallium	2000	1870	94			Ιİ		
Tin	5000	4860	97			Ιİ		
Vanadium	J 500	494	99					
Zinc	500	496	99		Ī		İ	

Comments:		



General Chemistry

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com

Analytical Report

Client: Inventum Engineering

Service Request: R2109410 **Project:** Date Collected: NA RITC Tanks

Date Received: NA **Sample Matrix:** Water

Sample Name: Method Blank Basis: NA

Lab Code: R2109410-MB1

Inorganic Parameters

	Analysis							
Analyte Name	Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen, undistilled	350.1	0.026 U	mg/L	0.050	0.026	1	09/25/21 15:29	
Cyanide, Total	Kelada-01	0.0040 U	mg/L	0.0050	0.0040	1	09/22/21 13:25	
Fluoride, undistilled	300.0	0.010 U	mg/L	0.10	0.010	1	09/13/21 08:33	
Nitrate+Nitrite as Nitrogen	353.2	0.002 U	mg/L	0.050	0.002	1	09/29/21 20:45	
Nitrite as Nitrogen	353.2	0.007 U	mg/L	0.010	0.007	1	09/15/21 19:38	

Analytical Report

Client: Inventum Engineering

Service Request: R2109410 Date Collected: NA RITC Tanks

Project: Sample Matrix: Water Date Received: NA

Basis: NA **Sample Name:** Method Blank

Lab Code: R2109410-MB2

Inorganic Parameters

Analysis **Analyte Name** Method Result Units MRL **MDL** Dil. **Date Analyzed** Q mg/L Ammonia as Nitrogen, undistilled 350.1 0.026 U 0.050 0.026 09/30/21 13:50 Nitrate+Nitrite as Nitrogen 353.2 0.002 U mg/L 0.0500.0021 09/29/21 21:18

QA/QC Report

Client: Inventum Engineering

Project: RITC Tanks

Sample Matrix: Water

Service Request: R2109410

Date Analyzed: 09/13/21 - 09/29/21

Lab Control Sample Summary General Chemistry Parameters

Units:mg/L Basis:NA

Lab Control Sample

R2109410-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen, undistilled	350.1	0.500	0.500	100	90-110
Cyanide, Total	Kelada-01	0.0999	0.100	100	90-110
Fluoride, undistilled	300.0	0.940	1.00	94	90-110
Nitrate+Nitrite as Nitrogen	353.2	0.520	0.500	104	90-110
Nitrite as Nitrogen	353.2	0.241	0.250	97	90-110

QA/QC Report

Client: Inventum Engineering

Project: RITC Tanks

Sample Matrix: Water

Service Request: R2109410

Date Analyzed: 09/29/21 - 09/30/21

Lab Control Sample Summary General Chemistry Parameters

Units:mg/L Basis:NA

Lab Control Sample

R2109410-LCS2

	Analytical				
Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen, undistilled	350.1	0.496	0.500	99	90-110
Nitrate+Nitrite as Nitrogen	353.2	0.516	0.500	103	90-110



Subcontracted Analytical Parameters

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com





NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

October 12, 2021

Reports and Invoices ALS Environmental 1565 Jefferson Road Building 300, Suite 360 Rochester, NY 14623

Certificate of Analysis

Workorder:

3201053

Revised Report - 10/12/2021 2:43:25 PM - See workorder comment section for explanation

Project Name: 2021-TCLP BORON; TOTAL

URANIUM,SULFUR

Purchase Order: 58-R2109410 Workorder ID: AER635|R2109410

Dear Reports Invoices:

Enclosed are the analytical results for samples received by the laboratory on Wednesday, September 15, 2021.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Sarah S Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Mr. Michael Chevalier , Ms. Meghan Pedro , Mr. Brady Kalkman , Ms. Janice Jaeger

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Ms. Sarah S Leung
Project Coordinator

ALS Environmental Laboratory Locations Across North America





NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

SAMPLE SUMMARY

Workorder: 3201053 AER635|R2109410

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3201053001	TK-LQ-ST22-09102021	Water	9/10/2021 00:00	9/15/2021 09:55	Collected by Clien
3201053002	TL-LQ-ST23-09102021	Water	9/10/2021 00:00	9/15/2021 09:55	Collected by Clien
3201053003	TL-LQ-ST24-09102021	Water	9/10/2021 00:00	9/15/2021 09:55	Collected by Clien





NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

SAMPLE SUMMARY

Workorder: 3201053 AER635|R2109410

Notes

- -- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 Field Services Sampling Plan).
- -- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- -- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- -- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- -- The Chain of Custody document is included as part of this report.
- -- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- -- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- -- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- -- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- -- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.

Standard Acronyms/Flags

- C Please reference the Project Summary section of this Certificate of Analysis for case narrative comments.
- J Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
- U Indicates that the analyte was Not Detected (ND)
- N Indicates presumptive evidence of the presence of a compound
- MDL Method Detection Limit
 PQL Practical Quantitation Limit
- RDL Reporting Detection Limit
- ND Not Detected indicates that the analyte was Not Detected at the RDL
- Cntr Analysis was performed using this container

RegLmt Regulatory Limit

- LCS Laboratory Control Sample
- MS Matrix Spike
- MSD Matrix Spike Duplicate
- DUP Sample Duplicate
- %Rec Percent Recovery
- RPD Relative Percent Difference
- LOD DoD Limit of Detection
- LOQ DoD Limit of Quantitation
- DL DoD Detection Limit
- I Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
- (S) Surrogate Compound
- NC Not Calculated
- Result outside of QC limits

ALS Environmental Laboratory Locations Across North America





NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

PROJECT SUMMARY

Workorder: 3201053 AER635|R2109410

Workorder Comments

Temperature of sample taken at time of sample receipt in the laboratory. See chain of custody for actual temperature.

This certificate of analysis was reissued to generate a level IV data pacakge. SSL 10/11/21

ALS Environmental Laboratory Locations Across North America





NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

ANALYTICAL RESULTS

Workorder: 3201053 AER635|R2109410

Lab ID: 3201053001 Date Collected: 9/10/2021 00:00 Matrix: Water

Sample ID: TK-LQ-ST22-09102021 Date Received: 9/15/2021 09:55

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	Ву	Cntr
METALS										
Sulfur	93.2	С	mg/L	0.11	0.036	SW846 6010C	9/23/21 20:00 SXC	9/24/21 08:32	SRT	A1

Ms. Sarah S Leung
Project Coordinator





NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

ANALYTICAL RESULTS

Workorder: 3201053 AER635|R2109410

Lab ID: 3201053002 Date Collected: 9/10/2021 00:00 Matrix: Water

Sample ID: TL-LQ-ST23-09102021 Date Received: 9/15/2021 09:55

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	Ву	Cntr
METALS										
Sulfur	642	С	mg/L	0.55	0.18	SW846 6010C	9/23/21 20:00 SXC	9/24/21 08:35	SRT	A1

Ms. Sarah S Leung Project Coordinator





NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

ANALYTICAL RESULTS

Workorder: 3201053 AER635|R2109410

Lab ID: 3201053003 Date Collected: 9/10/2021 00:00 Matrix: Water

Sample ID: TL-LQ-ST24-09102021 Date Received: 9/15/2021 09:55

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	Ву	Cntr
METALS										
Sulfur	35.7	С	mg/L	0.11	0.036	SW846 6010C	9/23/21 20:00 SXC	9/24/21 08:39	SRT	A1

Ms. Sarah S Leung
Project Coordinator





NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3201053 AER635|R2109410

Lab ID	Sample ID	Analysis Method	Prep Method	Leachate Method
3201053001	TK-LQ-ST22-09102021	SW846 6010C	SW846 3015	
3201053002	TL-LQ-ST23-09102021	SW846 6010C	SW846 3015	
3201053003	TL-LQ-ST24-09102021	SW846 6010C	SW846 3015	





NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

QUALITY CONTROL DATA

Workorder: 3201053 AER635|R2109410

QC Batch: MDIG/91750 Analysis Method: SW846 6010C

QC Batch Method: SW846 3015

Associated Lab Samples: 3201053001, 3201053002, 3201053003

METHOD BLANK: 3395483

ParameterBlank ResultReporting LimitSulfurNDmg/L0.11

LABORATORY CONTROL SAMPLE: 3395484

	L	CS %		Spike	LCS	% Rec
Parameter		Rec	Units	Conc.	Result	Limit
Sulfur		107	mg/L	11.1	11.9	80 - 120

ALS Environmental Laboratory Locations Across North America





NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 3201053 AER635|R2109410

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
3201053001	TK-LQ-ST22-09102021	SW846 3015	MDIG/91750	SW846 6010C	META/83223
3201053002	TL-LQ-ST23-09102021	SW846 3015	MDIG/91750	SW846 6010C	META/83223
3201053003	TL-LQ-ST24-09102021	SW846 3015	MDIG/91750	SW846 6010C	META/83223

ALS Environmental Chain of Custody

1565 Jefferson Rd, Building 300 • Rochester, NY 14623 • 585-288-5380 • FAX 585-288-8475

Meghan Pedro R2109410 Project Manager: Project Number:

LAB QAP QAP:

QAP:	LAB QAP							None Out 1
					Sample	le		V
Lab Code	Sample ID	# of (# of Cont.	Matrix	Date	Time	Time Lab ID	
R21094TD-001	R24094T0-604 TK-LQ-ST22-09102021	_		Water	9/10/21		Middletown ALS	x
R2T09440-002	R2T09440_002 TK-LQ-ST23-09102021	/		Water	9/10/21		Middletown ALS	×
R2109410-005	R2109410-865 TK-LQ-ST24-09102021	_		Water	9/10/21		Middletown ALS	×

TOTAL SULFUR

R2109410-001,2,3

Misc Out 1 - None

Fest Comments

Invoice Information 58R2109410 Bill to III. Results + QC and Calibration Summaries X IV. Data Validation Report with Raw Data EGEOD Equis HorugeWV Report Requirements 11. Results + QC Summaries WYSOCZ SQULS 4 I. Results Only PQL/MDL/J EDD 10 573 PLEASE CIRCLE WORK DAYS Requested Report Date: 10/01/21 **Turnaround Requirements** RUSH (Surcharges Apply) Requested FAX Date: STANDARD P - Test is Authorized for Prep Only Special Instructions/Comments H - Test is On Hold

Relinquished By:

1600 Received By: Fed Ex

Airbill Number:

Shipping:	Overnight	2nd Day	Ground	
Instructions:	Ice	Dry Ice	No Ice	Bill to Client Account
			Date Wy	Date
Ship To: Middletown ALS	ALS Environmental - Middletown 301 Fulling Mill Rd.	Middletown, PA 17057	PC Aly Low	SMO

Comments:

ALS Group USA, Corp. www.alsglobal.com An ALS Limited Company



301 Fulling Mill Road Middletown, PA 17057 P: (717) 944-5541 F: (717) 944-1430

3201053

1

of Sample Receipt Form

1.(/1/)344.430	ALS Environ	nment a l – Roche	ster					
Client: W	ork Ord		it	tials:	SHC	Date:	9/15/	21
Were airbills / tracking numbers present a					<u> </u>	. NONE	(F)	NO
	Tracking number:	9889	5096	065	3	-		
2. Are Custody Seals on shipping containers	intact?					. NONE	(YE)	NO
3. Are Custody Seals on sample containers in	tact?					WOND	YES	NO
4. Is there a COC (Chain-of-Custody) present	·						YES	NO
5. Are the COC and bottle labels complete, le	gible and in agreeme	ent?						NO
5a. Does the COC contain sample location	ns?						(VB)	NO
5b. Does the COC contain date and time	of sample collection f	or all samples	?	<i>[</i> /	10 HIME	25	YES	(NO)
5c. Does the COC contain sample collectors 5d. Does the COC note the type(s) of pres	ors name?			SHE 9	45/21		. YES	(N)
5d. Does the COC note the type(s) of pres	ervation for all bottle	s?		~ A	ine U	UP.	YES	(N)
5e. Does the COC note the number of bo	tles submitted for ea	ch sample?					. (ES)	NO
5f. Does the COC note the type of sample							. YES	(NO)
5g. Does the COC note the matrix of the	sample(s)?				Water	<u> </u>	YES)	NO
Are all aqueous samples requiring preserv	ation preserved corre	ctly? ¹				Ø.	YES	NO
Were all samples placed in the proper con								NO
8. Are all samples within holding times for th								NO
9. Were all sample containers received intact	and headspace free	when required	l? (not broker	n, leaking	, frozen, etc.).		· (1)	МО
10. Did we receive trip blanks (applies only	or methods EPA 504,	EPA 524.2 an	d 1631E (LL I	Hg)?		(N/A)	YES	NO
11. Were the samples received on ice?							-	МО
12. Were sample temperatures measured at	0.0-6.0°C				· · · · · · · · · · · · · · · · · · ·		YES)	NO
13. Are the samples DW matrix ? If YES, fill o	ut Reportable Drinkin	g Water quest	ions below				YES	(O)
13a. Are the samples required for SDWA							YES	NO
13b. Did the client provide a SDWA PWS I						0.000	YES	NO
13c. Are all aqueous unpreserved SDWA s	amples pH 5-9?					. N/A	YES	NO
13d. Did the client provide the SDWA sam	ple location ID/Descr	ription?				. N/A	YES	NO
13e. Did the client provide the SDWA sam	ple type (D, E, R, C, P,	, S)?				N/A	YES	NO
Cooler #:							333	(3)
Temperature (°C):								
<u></u>								
Thermometer ID: 5+3								5
Radiological (µCi):								

COMMENTS (Required for all NO responses above and any sample non-conformance):

¹Final determination of correct preservation for analysis such as volatiles, microbiology, and oil and grease is made in the analytical department at the time of or following the analysis

Rev 1/20/2020



September 30, 2021

Client: Inventum Engineering

481 Carlisle Drive

Herndon, VA 20170

Attn: John Black

Project: RITC Tanks ALS: R2109410

Date Received: September 11, 2021

Certificate of Analysis

Sample ID:	Sample Date and Time:	Lab #:	Heating Value D4809 As Received BTU/lb
TK-LQ-ST22-09102021	9/10/21 n/a	R2109410-001	<100
TK-LQ-ST23-09102021	9/10/21 n/a	R2109410-002	585
TK-LQ-ST24-09102021	9/10/21 n/a	R2109410-003	<100

Wendy Hyatt, Laboratory Director



September 30, 2021

Client: Inventum Engineering

481 Carlisle Drive Herndon, VA 20170

Attn: John Black

Project: RITC Tanks

ALS: R2109410 Date Received: September 11, 2021

Quality Control

	Samula Data		Heating Value
Sample ID:	Sample Date and Time:	Lab #:	D4809
	and Time.		As Received BTU/lb
Analysis Date			9/28/21
Prep Blank			n/a
LCS			AR 100

LCS	AR 100
CN	6068
Observed Value	18,584
True Value	18,408
%R	101.0

Duplicate K2110323-001

Observed Value 7,159
Duplicate Value 7,119
%RPD 0.6



Service Request No:R2109413

Mr. John Black Inventum Engineering 481 Carlisle Drive Herndon, VA 20170

Laboratory Results for: RITC Tanks

Dear Mr.Black,

Enclosed are the results of the sample(s) submitted to our laboratory September 11, 2021 For your reference, these analyses have been assigned our service request number **R2109413**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Meghan.Pedro@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Meghan Pedro Project Manager



Narrative Documents

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com



Client: Inventum Engineering Service Request: R2109413

Project: RITC Tanks Date Received: 09/11/2021

Sample Matrix: Waste

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Two waste samples were received for analysis at ALS Environmental on 09/11/2021. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivolatiles by GC/MS:

Method 8270D, 10/06/2021: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8270D, 10/06/2021: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

2,4-Dinitrophenol has been reported as zero percent recovery in the LCS/LCSD due to a limitation in LIMs. 2,4-Dinitrophenol was detected at 97% and 86% recovery, respectively, within laboratory limits. The LCS/LCSD is acceptable and should not be flagged on the summary form.

Method 8270D, 10/06/2021: The lower control limit for the spike recovery of the Laboratory Control Sample (LCS) was exceeded for one or more analyte. There were no detections of the analyte(s) in the associated field samples. The are within normal laboratory limits. The limits for these samples are generic 50-150. The analytes affected are flagged in the LCS Summary. Method 8270D, 10/12/2021: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Semivoa GC:

Method 8081B, 09/27/2021: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8081B, 740349: The control limits for one or more surrogates in the sample are not applicable. The analysis of the sample required a dilution, which resulted in a surrogate concentration below the Method Reporting Limit (MRL). No further corrective action was appropriate.

Method 8081B, 740349: The reporting limit is elevated for one or more analytes. The sample extract was diluted prior to instrumental analysis due to relatively high levels of non-target background components. The extract was highly colored and viscous, which indicated the need to perform a dilution prior to injection into the instrument. Clean-up of the extract was performed within the scope of the method, but did not eliminate enough of the background components to prevent dilution. The result(s) are flagged to indicate the matrix interference.

Method 8082A, 09/27/2021: The lower control limit was exceeded for one or more analytes in the Continuing Calibration

	Michael Pedro		
Approved by	S	Date	10/25/2021



Verification (CCV) on the confirmation column. Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8082A, 09/27/2021: The control limits were exceeded for one or more surrogates in one or more QC samples associated with samples in this report. The associated recoveries of target compounds were in control, indicating the analysis was in control. The surrogate outlier is flagged accordingly. No further corrective action was appropriate.

Method 8082A, 09/27/2021: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8082A: The upper control limit was exceeded for one or more surrogates in one or more samples in this report. The elevated recovery equates to a high bias. Since no target analytes were detected in the sample(s), the quality of the sample data is not significantly affected. No further corrective action was appropriate.

Method 8151A, 09/23/2021: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Subcontracted Analytical Parameters:

One or more samples were subcontracted to another laboratory for testing. The certified analytical report from the subcontractor has been included in its entirety at the end of this report and includes the name and address of the subcontracted laboratory. **Volatiles by GC/MS:**

Method 8260C, 09/20/2021: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260C, R2109413-001,002: Sample(s) required dilution due to a high nontarget compound The reporting limits are adjusted to reflect the dilution.

Method 8260C, 09/20/2021: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

	Mistran Pedio		
Approved by	<u> </u>	Date	10/25/2021
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SAMPLE DETECTION SUMMARY

CLIENT ID: TK-SD-ST22-09102021		Lal	D: R2109	9413-001		
Analyte	Results	Flag	MDL	MRL	Units	Method
Ammonia as Nitrogen, undistilled	19.0		1.4	5.0	mg/Kg	350.1M
Cyanide, Total	4.26			0.25	mg/Kg	9012B
Water	11.6		0.003	0.10	Percent	ASTM E203-01
2-Butanone (MEK)	4200	J	3900	50000	ug/Kg	8260C
Benzene	12000	J	1000	25000	ug/Kg	8260C
Chloromethane	1500	J	1400	25000	ug/Kg	8260C
Methyl Acetate	1800	J	1700	50000	ug/Kg	8260C
Toluene	9700	J	1000	25000	ug/Kg	8260C
m,p-Xylenes	10000	J	1000	25000	ug/Kg	8260C
o-Xylene	2400	J	1000	25000	ug/Kg	8260C
2-Methylnaphthalene	4400000		140000	1000000	ug/Kg	8270D
2-Methylphenol	310000	J	110000	1000000	ug/Kg	8270D
3- and 4-Methylphenol Coelution	950000	J	130000	1000000	ug/Kg	8270D
Acenaphthene	1500000		150000	1000000	ug/Kg	8270D
Acenaphthylene	1300000		150000	1000000	ug/Kg	8270D
Anthracene	4900000		140000	1000000	ug/Kg	8270D
Benz(a)anthracene	10000000		170000	1000000	ug/Kg	8270D
Benzo(a)pyrene	14000000	Е	130000	1000000	ug/Kg	8270D
Benzo(b)fluoranthene	15000000	Е	130000	1000000	ug/Kg	8270D
Benzo(g,h,i)perylene	8100000		110000	1000000	ug/Kg	8270D
Benzo(k)fluoranthene	4400000		140000	1000000	ug/Kg	8270D
Biphenyl	1100000		150000	1000000	ug/Kg	8270D
Carbazole	5900000		170000	1000000	ug/Kg	8270D
Chrysene	12000000	Е	130000	1000000	ug/Kg	8270D
Dibenz(a,h)anthracene	1600000		120000	1000000	ug/Kg	8270D
Dibenzofuran	5600000		150000	1000000	ug/Kg	8270D
Fluoranthene	31000000	Е	160000	1000000	ug/Kg	8270D
Fluorene	9400000		140000	1000000	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	8400000		190000	1000000	ug/Kg	8270D
Naphthalene	31000000	Е	130000	1000000	ug/Kg	8270D
Phenanthrene	34000000	Е	150000	1000000	ug/Kg	8270D
Phenol	930000	J	110000	1000000	ug/Kg	8270D
Pyrene	24000000	Е	160000	1000000	ug/Kg	8270D
2-Methylnaphthalene	4400000	J	680000	5200000	ug/Kg	8270D
3- and 4-Methylphenol Coelution	760000	J	630000	5200000	ug/Kg	8270D
Acenaphthene	1400000	J	730000	5200000	ug/Kg	8270D
Acenaphthylene	1000000	J	730000	5200000	ug/Kg	8270D
Anthracene	4800000	J	680000	5200000	ug/Kg	8270D
Benz(a)anthracene	10000000		840000	5200000	ug/Kg	8270D
Benzo(a)pyrene	13000000	D	630000	5200000	ug/Kg	8270D
Benzo(b)fluoranthene	14000000	D	630000	5200000	ug/Kg	8270D



Method

8270D

Units

ug/Kg

SAMPLE DETECTION SUMMARY

Flag

Results

8800000

Lab ID: R2109413-001

MRL

5200000

MDL

530000

CLIENT ID: TK-SD-ST22-09102021

Analyte

Benzo(g,h,i)perylene

201120(9,11,1/201710110	000000		00000	0_0000	~g,g	02.02
Benzo(k)fluoranthene	4200000	J	680000	5200000	ug/Kg	8270D
Biphenyl	1100000	J	730000	5200000	ug/Kg	8270D
Carbazole	5400000		840000	5200000	ug/Kg	8270D
Chrysene	12000000	D	630000	5200000	ug/Kg	8270D
Dibenz(a,h)anthracene	1400000	J	580000	5200000	ug/Kg	8270D
Dibenzofuran	5600000		730000	5200000	ug/Kg	8270D
Fluoranthene	34000000	D	790000	5200000	ug/Kg	8270D
Fluorene	9500000		680000	5200000	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	8500000		940000	5200000	ug/Kg	8270D
Naphthalene	41000000	D	630000	5200000	ug/Kg	8270D
Phenanthrene	4000000	D	730000	5200000	ug/Kg	8270D
Phenol	820000	J	530000	5200000	ug/Kg	8270D
Pyrene	24000000	D	790000	5200000	ug/Kg	8270D
CLIENT ID: TK-SD-ST23-09102021		Lal	b ID: R2109	9413-002		
Analyte	Results	Flag	MDL	MRL	Units	Method
Ammonia as Nitrogen, undistilled	53.3		1.4	5.0	mg/Kg	350.1M
Cyanide, Total	1.08			0.28	mg/Kg	9012B
Water	7.52		0.003	0.10	Percent	ASTM E203-01
2-Butanone (MEK)	4300	J	3900	50000	ug/Kg	8260C
Benzene	110000		1000	25000	ug/Kg	8260C
Chloromethane	1900	J	1400	25000	ug/Kg	8260C
Ethylbenzene	4100	J	1000	25000	ug/Kg	8260C
Methyl Acetate	1700	J	1700	50000	ug/Kg	8260C
Styrene	11000	J	1000	25000	ug/Kg	8260C
Toluene	78000		1000	25000	ug/Kg	8260C
m,p-Xylenes	65000		1000	25000	ug/Kg	8260C
o-Xylene	17000	J	1000	25000	ug/Kg	8260C
6.4.51				_0000		
2,4-Dimethylphenol	280000	J	160000	1100000	ug/Kg	8270D
2,4-Dimethylphenol 2-Methylnaphthalene	280000 3100000					8270D 8270D
			160000	1100000	ug/Kg	
2-Methylnaphthalene	3100000	J	160000 140000	1100000 1100000	ug/Kg ug/Kg	8270D
2-Methylnaphthalene 2-Methylphenol	3100000 480000	J	160000 140000 110000	1100000 1100000 1100000	ug/Kg ug/Kg ug/Kg	8270D 8270D
2-Methylnaphthalene2-Methylphenol3- and 4-Methylphenol Coelution	3100000 480000 1000000	J J	160000 140000 110000 130000	1100000 1100000 1100000 1100000	ug/Kg ug/Kg ug/Kg ug/Kg	8270D 8270D 8270D
2-Methylnaphthalene 2-Methylphenol 3- and 4-Methylphenol Coelution Acenaphthene	3100000 480000 1000000 290000	J J	160000 140000 110000 130000 160000	1100000 1100000 1100000 1100000	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	8270D 8270D 8270D 8270D
2-Methylnaphthalene 2-Methylphenol 3- and 4-Methylphenol Coelution Acenaphthene Acenaphthylene	3100000 480000 1000000 290000 2700000	J J	160000 140000 110000 130000 160000	1100000 1100000 1100000 1100000 1100000	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	8270D 8270D 8270D 8270D 8270D
2-Methylnaphthalene 2-Methylphenol 3- and 4-Methylphenol Coelution Acenaphthene Acenaphthylene Anthracene	3100000 480000 1000000 290000 2700000 1700000	J J	160000 140000 110000 130000 160000 140000	1100000 1100000 1100000 1100000 1100000 1100000	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	8270D 8270D 8270D 8270D 8270D 8270D
2-Methylnaphthalene 2-Methylphenol 3- and 4-Methylphenol Coelution Acenaphthene Acenaphthylene Anthracene Benz(a)anthracene	3100000 480000 1000000 290000 2700000 1700000	J J	160000 140000 110000 130000 160000 140000 180000	1100000 1100000 1100000 1100000 1100000 1100000 1100000	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	8270D 8270D 8270D 8270D 8270D 8270D 8270D
2-Methylnaphthalene 2-Methylphenol 3- and 4-Methylphenol Coelution Acenaphthene Acenaphthylene Anthracene Benz(a)anthracene Benzo(a)pyrene	3100000 480000 1000000 290000 2700000 1700000 1700000 2000000	J J	160000 140000 110000 130000 160000 140000 180000 130000	1100000 1100000 1100000 1100000 1100000 1100000 1100000	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	8270D 8270D 8270D 8270D 8270D 8270D 8270D 8270D
2-Methylnaphthalene 2-Methylphenol 3- and 4-Methylphenol Coelution Acenaphthene Acenaphthylene Anthracene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene	3100000 480000 1000000 290000 2700000 1700000 2000000 2100000)]]	160000 140000 110000 130000 160000 140000 180000 130000	1100000 1100000 1100000 1100000 1100000 1100000 1100000 1100000	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	8270D 8270D 8270D 8270D 8270D 8270D 8270D 8270D 8270D



SAMPLE DETECTION SUMMARY

CLIENT ID: TK-SD-ST23-09102021						
Analyte	Results	Flag	MDL	MRL	Units	Method
Carbazole	1200000		180000	1100000	ug/Kg	8270D
Chrysene	1900000		130000	1100000	ug/Kg	8270D
Dibenz(a,h)anthracene	220000	J	120000	1100000	ug/Kg	8270D
Dibenzofuran	1600000		160000	1100000	ug/Kg	8270D
Fluoranthene	5900000		170000	1100000	ug/Kg	8270D
Fluorene	2600000		140000	1100000	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	1100000		200000	1100000	ug/Kg	8270D
Naphthalene	15000000	Ε	130000	1100000	ug/Kg	8270D
Phenanthrene	8600000		160000	1100000	ug/Kg	8270D
Phenol	910000	J	110000	1100000	ug/Kg	8270D
Pyrene	4400000		170000	1100000	ug/Kg	8270D
2-Methylnaphthalene	3100000		280000	2200000	ug/Kg	8270D
2-Methylphenol	430000	J	220000	2200000	ug/Kg	8270D
3- and 4-Methylphenol Coelution	870000	J	260000	2200000	ug/Kg	8270D
Acenaphthylene	2700000		310000	2200000	ug/Kg	8270D
Anthracene	1600000	J	280000	2200000	ug/Kg	8270D
Benz(a)anthracene	1800000	J	350000	2200000	ug/Kg	8270D
Benzo(a)pyrene	2000000	J	260000	2200000	ug/Kg	8270D
Benzo(b)fluoranthene	2100000	J	260000	2200000	ug/Kg	8270D
Benzo(g,h,i)perylene	1100000	J	220000	2200000	ug/Kg	8270D
Benzo(k)fluoranthene	620000	J	280000	2200000	ug/Kg	8270D
Biphenyl	450000	J	310000	2200000	ug/Kg	8270D
Carbazole	1200000	J	350000	2200000	ug/Kg	8270D
Chrysene	1900000	J	260000	2200000	ug/Kg	8270D
Dibenzofuran	1500000	J	310000	2200000	ug/Kg	8270D
Fluoranthene	6000000		330000	2200000	ug/Kg	8270D
Fluorene	2600000		280000	2200000	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	1000000	J	390000	2200000	ug/Kg	8270D
Naphthalene	16000000	D	260000	2200000	ug/Kg	8270D
Phenanthrene	8600000		310000	2200000	ug/Kg	8270D
Phenol	830000	J	220000	2200000	ug/Kg	8270D
Pyrene	4100000		330000	2200000	ug/Kg	8270D



Sample Receipt Information

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com Client: Inventum Engineering Service Request:R2109413

Project: RITC Tanks

SAMPLE CROSS-REFERENCE

 SAMPLE #
 CLIENT SAMPLE ID
 DATE
 TIME

 R2109413-001
 TK-SD-ST22-09102021
 9/10/2021

 R2109413-002
 TK-SD-ST23-09102021
 9/10/2021



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

060028

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1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE ANALYSIS REQUESTED (Include Method Number and Container Preservative) 8 PRESERVATIVE ישנים לענים Preservative Key D. NONE 170

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Sempler's Ponted Name

Sempler's Ponted Name 1. HCL 2. HNO₃ 3. H₂SO₄ 4. NaOH TOTAL SULFUR METAS DISOLUED METALS, TOTAL (List in comments belo 5. Zn. Acetate 6. MeOH 7. NaHSO₄ 8. Other REMARKS/ ALTERNATE DESCRIPTION SEE ATTACKED SAMPLING FOR OFFICE USE ASI PARAMETERS MATRIX TIME ONLY LAB ID DATE **CLIENT SAMPLE ID** 9/10 TK-LO-ST21-0910202 9/10 1. ST22-0910202 1/10 a iO 110 9/10 INVOICE INFORMATION REPORT REQUIREMENTS TURNAROUND REQUIREMENTS SPECIAL INSTRUCTIONS/COMMENTS RUSH (SURCHARGES APPLY) I. Results Only Metals PO# II, Results + QC Summaries 1 day _____ 2 day _____ 3 day (LCS, DUP, MS/MSD as required) BILL TO: III. Results + QC and Calibration _ Standard (10 business days-No Surcharge Summarles REQUESTED REPORT DATE X IV. Data Validation Report with Raw Data MYS DEC, HONEYWELL COS See QAPP Edata Yes STATE WHERE SAMPLES WERE COLLECTED (>) RECEIVED BY RELINQUISHED BY RECEIVED BY RELINQUISHED BY RECEIVED BY RELINQUISHED BY Signature Signature Printed Name Printed Name Printed Name Inventum Engineering RITC Tanks Date/Time Date/Time 9:35 Date/Time

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Cooler Receipt and Preservation Check Form

R2109413	5
RITC Tanks	

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Labels	secondary r	eviewed by:_	(A)		<u>_</u>						••	
חת כ	ondary Rev	·ian:			*ci	enificant	air bul	bles: VOA	> 5-6 mm :	WC >1 in	. diamete	er
PU Sec	ondary Kev	ICW.				Philipant	J., 741					

PC Secondary Review: ___

03/02/2021

Internal Chain of Custody Report

Service Request: R2109413

Client: Inventum Engineering

Project: RITC Tanks

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2109413-001.01					
		0/14/2021	1216	CMO / CECMEDIANI	
		9/14/2021	1316	SMO / GESMERIAN	
		9/14/2021	1322	R-002 / GESMERIAN	
R2109413-001.31	. GET 1 D 1201 0		00.04		
	ASTM D5291-09	9,9056,ASTM D48		GMO / GEGMEDIAN	
		9/14/2021	1316	SMO / GESMERIAN	
		9/14/2021	1322	R-002 / GESMERIAN	
R2109413-001.37	0.4.7.4.000.4.77.00				
	8151A,8081B,80	082A,8270D,8270D		GMO / CEGMEDIAN	
		9/14/2021	1318	SMO / GESMERIAN	
		9/14/2021	1322	R-002 / GESMERIAN	
		9/21/2021	0825	In Lab / VSTAUFFER	
		9/21/2021	1659	R-002 / BALLGEIER	
R2109413-001.38	7471D (0100 (0	100 (0100 (0100	(0100 (0100	C010C C010C C010C C010C C010	
				6010C,6010C,6010C,6010C,6010 C,6010C,6010C,6010C,601	
	0C,6010C,6010C		,c,0010c,0010	e,0010e,0010e,0010e,0010e,001	
		9/14/2021	1318	SMO / GESMERIAN	
		9/14/2021	1322	R-002 / GESMERIAN	
		9/15/2021	1132	In Lab / BDIAMOND	
R2109413-001.39					
		9/14/2021	1318	SMO / GESMERIAN	
		9/14/2021	1322	R-002 / GESMERIAN	
R2109413-001.40					
	350.1M,ASTM I	E203-01,9012B			
		9/14/2021	1319	SMO / GESMERIAN	
		9/14/2021	1322	R-002 / GESMERIAN	
		9/27/2021	1033	In Lab / AMOSES	
R2109413-001.41					
	8260C				
		9/14/2021	1320	SMO / GESMERIAN	
		9/14/2021	1322	R-010 / GESMERIAN	
R2109413-001.42					
		9/14/2021	1320	SMO / GESMERIAN	
		9/14/2021	1322	R-010 / GESMERIAN	
R2109413-001.43					
R2109413-001.43					

Page 12 of 111

Internal Chain of Custody Report

Client: Inventum Engineering

Project: RITC Tanks

Service Request: R2109413

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		9/14/2021	1322	R-002 / GESMERIAN	
		10/6/2021	0819	In Lab / VSTAUFFER	
		10/6/2021	1600	R-002 / VSTAUFFER	
R2109413-002.01					
		9/14/2021	1316	SMO / GESMERIAN	
		9/14/2021	1322	R-002 / GESMERIAN	
R2109413-002.04		6010C,6010C,6010		6010C,6010C,6010C,6010C,6010 C,6010C,6010C,6010C,6010C,601	
		9/14/2021	1316	SMO / GESMERIAN	
		9/14/2021	1322	R-002 / GESMERIAN	
		9/15/2021	1132	In Lab / BDIAMOND	
		9/15/2021	1144	In Lab / BDIAMOND	
R2109413-002.31	9056,ASTM D48	809-06,ASTM D529	91-09		
		9/14/2021	1316	SMO / GESMERIAN	
		9/14/2021	1322	R-002 / GESMERIAN	
R2109413-002.37	8151A,8081B,80)82A,8270D,8270D	ı		
		9/14/2021	1320	SMO / GESMERIAN	
		9/14/2021	1322	R-002 / GESMERIAN	
		9/21/2021	0825	In Lab / VSTAUFFER	
		9/21/2021	1659	R-002 / BALLGEIER	
R2109413-002.38	250 135 : ~~~	7000 04 00457			
	350.1M,ASTM I	E203-01,9012B 9/14/2021	1221	SMO / GESMERIAN	
		9/14/2021 9/14/2021	1321 1322	SMO / GESMERIAN R-002 / GESMERIAN	
		10/6/2021	0819	In Lab / VSTAUFFER	
		10/6/2021	1601	R-002 / VSTAUFFER	
R2109413-002.39					
	8260C				
		9/14/2021	1321	SMO / GESMERIAN	
		9/14/2021	1322	R-010 / GESMERIAN	
R2109413-002.40					
		9/14/2021	1321	SMO / GESMERIAN	
		9/14/2021	1322	R-010 / GESMERIAN	

Internal Chain of Custody Report

Client: Inventum Engineering

Project: RITC Tanks

Service Request: R2109413

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		9/14/2021	1322	R-002 / GESMERIAN	
		9/14/2021	1322	SMO / GESMERIAN	
		9/15/2021	1132	In Lab / BDIAMOND	
		9/15/2021	1144	In Lab / BDIAMOND	
R2109413-002.42					
		9/14/2021	1322	R-002 / GESMERIAN	
		9/14/2021	1322	SMO / GESMERIAN	



Miscellaneous Forms

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com



REPORT QUALIFIERS AND DEFINITIONS

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
- Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
- Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- Е Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- Organics- Concentration has exceeded the Е calibration range for that specific analysis.
- Concentration is a result of a dilution, D typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
- Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
- Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
- # Spike was diluted out.

P:\INTRANET\QAQC\Forms Controlled\QUALIF_routine rev 6.doc

- + Correlation coefficient for MSA is <0.995.
- Ν Inorganics- Matrix spike recovery was outside laboratory limits.
- Organics- Presumptive evidence of a compound Ν (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- Concentration >40% difference between the two P GC columns.
- \mathbf{C} Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
- X See Case Narrative for discussion.
- MRL Method Reporting Limit. Also known as:
- LOQ Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
- MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
- LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.
- ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Accreditations1



NEL	AP States
Flori	da ID # E87674
New	Hampshire ID # 2941
New	York ID # 10145
Penn	sylvania ID# 68-786
Virgi	nia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental

9/30/21

ALS Laboratory Group

Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but

greater than or equal to the MDL.

Client: Inventum Engineering Service Request: R2109413

Project: RITC Tanks

Non-Certified Analytes

Method	Matrix	Analyte
350.1M	Waste	Ammonia as Nitrogen, undistilled
6010C	Waste	Aluminum, Total
6010C	Waste	Antimony, Total
6010C	Waste	Arsenic, Total
6010C	Waste	Barium, Total
6010C	Waste	Beryllium, Total
6010C	Waste	Boron, Total
6010C	Waste	Cadmium, Total
6010C	Waste	Calcium, Total
6010C	Waste	Chromium, Total
6010C	Waste	Cobalt, Total
6010C	Waste	Copper, Total
6010C	Waste	Iron, Total
6010C	Waste	Lead, Total
6010C	Waste	Magnesium, Total
6010C	Waste	Manganese, Total
6010C	Waste	Molybdenum, Total
6010C	Waste	Nickel, Total
6010C	Waste	Potassium, Total
6010C	Waste	Selenium, Total
6010C	Waste	Silver, Total
6010C	Waste	Sodium, Total
6010C	Waste	Thallium, Total
6010C	Waste	Tin, Total
6010C	Waste	Vanadium, Total
6010C	Waste	Zinc, Total
7471B	Waste	Mercury, Total
8081B	Waste	4,4'-DDD
8081B	Waste	4,4'-DDE
8081B	Waste	4,4'-DDT
8081B	Waste	Aldrin
8081B	Waste	Dieldrin
8081B	Waste	Endosulfan I
8081B	Waste	Endosulfan II
8081B	Waste	Endosulfan Sulfate
8081B	Waste	Endrin
8081B	Waste	Endrin Aldehyde
8081B	Waste	Endrin Ketone
8081B	Waste	Heptachlor
8081B	Waste	Heptachlor Epoxide
8081B	Waste	Methoxychlor
8081B	Waste	Toxaphene
8081B	Waste	alpha-BHC
8081B	Waste	alpha-Chlordane
8081B	Waste	beta-BHC
8081B	Waste	delta-BHC
8081B	Waste	gamma-BHC (Lindane)
		· , ,

Client: Inventum Engineering Service Request: R2109413

Project: RITC Tanks

Non-Certified Analytes

Method	Matrix	Analyte
8081B	Waste	gamma-Chlordane
8082A	Waste	Aroclor 1016
8082A	Waste	Aroclor 1221
8082A	Waste	Aroclor 1232
8082A	Waste	Aroclor 1242
8082A	Waste	Aroclor 1248
8082A	Waste	Aroclor 1254
8082A	Waste	Aroclor 1260
8151A	Waste	2,4,5-T
8151A	Waste	2,4,5-TP
8151A	Waste	2,4-D
8151A	Waste	Dicamba
8260C	Waste	1,1,1-Trichloroethane (TCA)
8260C	Waste	1,1,2,2-Tetrachloroethane
8260C	Waste	1,1,2-Trichloro-1,2,2-trifluoroethane
8260C	Waste	1,1,2-Trichloroethane
8260C	Waste	1,1-Dichloroethane (1,1-DCA)
8260C	Waste	1,1-Dichloroethene (1,1-DCE)
8260C	Waste	1,2,3-Trichlorobenzene
8260C	Waste	1,2,4-Trichlorobenzene
8260C	Waste	1,2-Dibromo-3-chloropropane (DBCP)
8260C	Waste	1,2-Dibromoethane
8260C	Waste	1,2-Dichlorobenzene
8260C	Waste	1,2-Dichloroethane
8260C	Waste	1,2-Dichloropropane
8260C	Waste	1,3-Dichlorobenzene
8260C	Waste	1,4-Dichlorobenzene
8260C	Waste	1,4-Dioxane
8260C	Waste	2-Butanone (MEK)
8260C	Waste	2-Hexanone
8260C	Waste	4-Methyl-2-pentanone
8260C	Waste	Acetone
8260C	Waste	Benzene
8260C	Waste	Bromochloromethane
8260C	Waste	Bromodichloromethane
8260C	Waste	Bromoform
8260C	Waste	Bromomethane
8260C	Waste	Carbon Disulfide
8260C	Waste	Carbon Tetrachloride
8260C	Waste	Chlorobenzene
8260C	Waste	Chloroethane
8260C	Waste	Chloroform
8260C	Waste	Chloromethane
8260C	Waste	Cyclohexane
8260C	Waste	Dibromochloromethane
8260C	Waste	Dichlorodifluoromethane (CFC 12)
8260C	Waste	Dichloromethane

Client: Inventum Engineering Service Request: R2109413

Project: RITC Tanks

Non-Certified Analytes

Method	Matrix	Analyte
8260C	Waste	Ethylbenzene
8260C	Waste	Isopropylbenzene (Cumene)
8260C	Waste	Methyl Acetate
8260C	Waste	Methyl tert-Butyl Ether
8260C	Waste	Methylcyclohexane
8260C	Waste	Styrene
8260C	Waste	Tetrachloroethene (PCE)
8260C	Waste	Toluene
8260C	Waste	Trichloroethene (TCE)
8260C	Waste	Trichlorofluoromethane (CFC 11)
8260C	Waste	Vinyl Chloride
8260C	Waste	cis-1,2-Dichloroethene
8260C	Waste	cis-1,3-Dichloropropene
8260C	Waste	m,p-Xylenes
8260C	Waste	o-Xylene
8260C	Waste	trans-1,2-Dichloroethene
8260C	Waste	trans-1,3-Dichloropropene
8270D	Waste	1,2,4,5-Tetrachlorobenzene
8270D	Waste	2,2'-Oxybis(1-chloropropane)
8270D	Waste	2,3,4,6-Tetrachlorophenol
8270D	Waste	2,4,5-Trichlorophenol
8270D	Waste	2,4,6-Trichlorophenol
8270D	Waste	2,4-Dichlorophenol
8270D	Waste	2,4-Dimethylphenol
8270D	Waste	2,4-Dinitrophenol
8270D	Waste	2,4-Dinitrotoluene
8270D	Waste	2,6-Dinitrotoluene
8270D	Waste	2-Chloronaphthalene
8270D	Waste	2-Chlorophenol
8270D	Waste	2-Methylnaphthalene
8270D	Waste	2-Methylphenol
8270D	Waste	2-Nitroaniline
8270D	Waste	2-Nitrophenol
8270D	Waste	3,3'-Dichlorobenzidine
8270D	Waste	3- and 4-Methylphenol Coelution
8270D	Waste	3-Nitroaniline
8270D	Waste	4,6-Dinitro-2-methylphenol
8270D	Waste	4-Bromophenyl Phenyl Ether
8270D	Waste	4-Chloro-3-methylphenol
8270D	Waste	4-Chloroaniline
8270D	Waste	4-Chlorophenyl Phenyl Ether
8270D	Waste	4-Nitroaniline
8270D	Waste	4-Nitrophenol
8270D	Waste	Acenaphthene
8270D	Waste	Acenaphthylene
8270D	Waste	Acetophenone
8270D	Waste	Anthracene

Client: Inventum Engineering

Project: RITC Tanks

Service Request: R2109413

Non-Certified Analytes

Method	Matrix	Analyte
8270D	Waste	Atrazine
8270D	Waste	Benz(a)anthracene
8270D	Waste	Benzaldehyde
8270D	Waste	Benzo(a)pyrene
8270D	Waste	Benzo(b)fluoranthene
8270D	Waste	Benzo(g,h,i)perylene
8270D	Waste	Benzo(k)fluoranthene
8270D	Waste	Biphenyl
8270D	Waste	Bis(2-chloroethoxy)methane
8270D	Waste	Bis(2-chloroethyl) Ether
8270D	Waste	Bis(2-ethylhexyl) Phthalate
8270D	Waste	Butyl Benzyl Phthalate
8270D	Waste	Caprolactam
8270D	Waste	Carbazole
8270D	Waste	Chrysene
8270D	Waste	Di-n-butyl Phthalate
8270D	Waste	Di-n-octyl Phthalate
8270D	Waste	Dibenz(a,h)anthracene
8270D	Waste	Dibenzofuran
8270D	Waste	Diethyl Phthalate
8270D	Waste	Dimethyl Phthalate
8270D	Waste	Fluoranthene
8270D	Waste	Fluorene
8270D	Waste	Hexachlorobenzene
8270D	Waste	Hexachlorobutadiene
8270D	Waste	Hexachlorocyclopentadiene
8270D	Waste	Hexachloroethane
8270D	Waste	Indeno(1,2,3-cd)pyrene
8270D	Waste	Isophorone
8270D	Waste	N-Nitrosodi-n-propylamine
8270D	Waste	N-Nitrosodiphenylamine
8270D	Waste	Naphthalene
8270D	Waste	Nitrobenzene
8270D	Waste	Pentachlorophenol (PCP)
8270D	Waste	Phenanthrene
8270D	Waste	Phenol
8270D	Waste	Pyrene
9012B	Waste	Cyanide, Total
ASTM E203-01	Waste	Water

Analyst Summary report

Client: Inventum Engineering Service Request: R2109413

Project: RITC Tanks/

 Sample Name:
 TK-SD-ST22-09102021

 Date Collected:
 09/10/21

Lab Code: R2109413-001 **Date Received:** 09/11/21

Sample Matrix: Waste

Analysis Method	Extracted/Digested By	Analyzed By
350.1M	MROGERSON	MROGERSON
6010C	BDIAMOND	KMCLAEN
7471B	NMANSEN	NMANSEN
8081B	AMOSES	AMOSES
8082A	AMOSES	AMOSES
8151A	KSERCU	AMOSES
8260C		FNAEGLER
8270D	VSTAUFFER	JMISIUREWICZ
9012B	CKUTZER	MROGERSON
9056		LPORTER
ASTM D4809-06		LPORTER
ASTM D5291-09		WHYATT
ASTM E203-01		CWOODS

 Sample Name:
 TK-SD-ST22-09102021
 Date Collected: 09/10/21

 Lab Code:
 R2109413-001.R01
 Date Received: 09/11/21

Sample Matrix: Waste

Analysis MethodExtracted/Digested ByAnalyzed By8270DVSTAUFFERJMISIUREWICZ

Sample Name: TK-SD-ST23-09102021 Date Collected: 09/10/21

Lab Code: R2109413-002 **Date Received:** 09/11/21

Sample Matrix: Waste

Analysis Method	Extracted/Digested By	Analyzed By
350.1M	MROGERSON	MROGERSON
6010C	BDIAMOND	KMCLAEN
7471B	NMANSEN	NMANSEN
8081B	AMOSES	AMOSES
8082A	AMOSES	AMOSES
8151A	KSERCU	AMOSES

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Analyst Summary report

Client: Inventum Engineering

Project: RITC Tanks/

Service Request: R2109413

Sample Name: TK-SD-ST23-09102021

Lab Code: R2109413-002

Sample Matrix:

Waste

Date Collected: 09/10/21

Date Received: 09/11/21

Analysis Method Extracted/Digested By Analyzed By

8260CFNAEGLER8270DVSTAUFFERJMISIUREWICZ9012BCKUTZERMROGERSON

9056 LPORTER

ASTM D4809-06

ASTM D5291-09

WHYATT

ASTM E203-01

CWOODS

 Sample Name:
 TK-SD-ST23-09102021
 Date Collected: 09/10/21

 Lab Code:
 R2109413-002.R01
 Date Received: 09/11/21

Sample Matrix: Waste

Analysis Method Extracted/Digested By Analyzed By

8270D VSTAUFFER JMISIUREWICZ



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311)	3005A/3010A
extract	
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/	DI extraction
353.2/ SM 2320B/ SM	
5210B/ 9056A Anions	
For analytical methods not listed, method is the same as the analytic reference.	



Sample Results

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com



Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com

Analytical Report

Inventum Engineering **Client:**

Service Request: R2109413 **Date Collected:** 09/10/21 **Project:** RITC Tanks

Sample Matrix: Waste **Date Received:** 09/11/21 09:35

Sample Name: TK-SD-ST22-09102021 Units: ug/Kg

Lab Code: R2109413-001 Basis: As Received

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1000 U	25000	1000	5000	09/20/21 14:36	
1,1,2,2-Tetrachloroethane	1000 U	25000	1000	5000	09/20/21 14:36	
1,1,2-Trichloroethane	1000 U	25000	1000	5000	09/20/21 14:36	
1,1,2-Trichloro-1,2,2-trifluoroethane	1000 U	25000	1000	5000	09/20/21 14:36	
1,1-Dichloroethane (1,1-DCA)	1000 U	25000	1000	5000	09/20/21 14:36	
1,1-Dichloroethene (1,1-DCE)	1000 U	25000	1000	5000	09/20/21 14:36	
1,2,3-Trichlorobenzene	1300 U	25000	1300	5000	09/20/21 14:36	
1,2,4-Trichlorobenzene	1700 U	25000	1700	5000	09/20/21 14:36	
1,2-Dibromo-3-chloropropane (DBCP)	2300 U	25000	2300	5000	09/20/21 14:36	
1,2-Dibromoethane	1000 U	25000	1000	5000	09/20/21 14:36	
1,2-Dichlorobenzene	1000 U	25000	1000	5000	09/20/21 14:36	
1,2-Dichloroethane	1000 U	25000	1000	5000	09/20/21 14:36	
1,2-Dichloropropane	1000 U	25000	1000	5000	09/20/21 14:36	
1,3-Dichlorobenzene	1000 U	25000	1000	5000	09/20/21 14:36	
1,4-Dichlorobenzene	1000 U	25000	1000	5000	09/20/21 14:36	
1,4-Dioxane	65000 U	500000	65000	5000	09/20/21 14:36	
2-Butanone (MEK)	4200 J	50000	3900	5000	09/20/21 14:36	
2-Hexanone	1000 U	50000	1000	5000	09/20/21 14:36	
4-Methyl-2-pentanone	1000 U	50000	1000	5000	09/20/21 14:36	
Acetone	11000 U	50000	11000	5000	09/20/21 14:36	
Benzene	12000 J	25000	1000	5000	09/20/21 14:36	
Bromochloromethane	1000 U	25000	1000	5000	09/20/21 14:36	
Bromodichloromethane	1000 U	25000	1000	5000	09/20/21 14:36	
Bromoform	1300 U	25000	1300	5000	09/20/21 14:36	
Bromomethane	3500 U	25000	3500	5000	09/20/21 14:36	
Carbon Disulfide	2100 U	50000	2100	5000	09/20/21 14:36	
Carbon Tetrachloride	1700 U	25000	1700	5000	09/20/21 14:36	
Chlorobenzene	1000 U	25000	1000	5000	09/20/21 14:36	
Chloroethane	1200 U	25000	1200	5000	09/20/21 14:36	
Chloroform	1200 U	25000	1200	5000	09/20/21 14:36	
Chloromethane	1500 J	25000	1400	5000	09/20/21 14:36	
Cyclohexane	1300 J	50000	1300	5000	09/20/21 14:36	
Dibromochloromethane	1000 U	25000	1000	5000	09/20/21 14:36	
Dichlorodifluoromethane (CFC 12)	1100 U	25000	1100	5000	09/20/21 14:36	
Dichloromethane (CFC 12)	3300 U	25000	3300	5000	09/20/21 14:36	
Ethylbenzene	1000 U	25000	1000	5000	09/20/21 14:36	
Isopropylbenzene (Cumene)	1000 U	25000	1000	5000	09/20/21 14:36	
Methyl Acetate	1800 J	50000	1700	5000	09/20/21 14:36	
Methyl tert-Butyl Ether	1000 U	25000	1000	5000	09/20/21 14:36	
Methylcyclohexane	1000 U	50000	1000	5000	09/20/21 14:36	
Styrene	1000 U	25000	1000	5000	09/20/21 14:36	
Tetrachloroethene (PCE)	1100 U	25000	1100	5000	09/20/21 14:36	
Toluene	9700 J	25000	1000	5000	09/20/21 14:36	
Totale	7/UU J	23000	1000	2000	09/20/21 14:30	

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Superset Reference:21-0000603583 rev 00

Analytical Report

Client: Inventum Engineering

Service Request: R2109413 **Date Collected:** 09/10/21 **Project:** RITC Tanks

Sample Matrix: Waste **Date Received:** 09/11/21 09:35

Sample Name: TK-SD-ST22-09102021 Units: ug/Kg

Lab Code: R2109413-001 Basis: As Received

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1000 U	25000	1000	5000	09/20/21 14:36	
Trichlorofluoromethane (CFC 11)	1200 U	25000	1200	5000	09/20/21 14:36	
Vinyl Chloride	1000 U	25000	1000	5000	09/20/21 14:36	
cis-1,2-Dichloroethene	1200 U	25000	1200	5000	09/20/21 14:36	
cis-1,3-Dichloropropene	1000 U	25000	1000	5000	09/20/21 14:36	
m,p-Xylenes	10000 J	25000	1000	5000	09/20/21 14:36	
o-Xylene	2400 Ј	25000	1000	5000	09/20/21 14:36	
trans-1,2-Dichloroethene	1000 U	25000	1000	5000	09/20/21 14:36	
trans-1,3-Dichloropropene	1200 U	25000	1200	5000	09/20/21 14:36	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	31 - 154	09/20/21 14:36	
Dibromofluoromethane	92	63 - 138	09/20/21 14:36	
Toluene-d8	95	66 - 138	09/20/21 14:36	

Analytical Report

Inventum Engineering **Client:**

Service Request: R2109413 **Date Collected:** 09/10/21 **Project:** RITC Tanks

Sample Matrix: Waste **Date Received:** 09/11/21 09:35

Sample Name: TK-SD-ST23-09102021 Units: ug/Kg

Lab Code: R2109413-002 Basis: As Received

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1000 U	25000	1000	5000	09/20/21 14:59	
1,1,2,2-Tetrachloroethane	1000 U	25000	1000	5000	09/20/21 14:59	
1,1,2-Trichloroethane	1000 U	25000	1000	5000	09/20/21 14:59	
1,1,2-Trichloro-1,2,2-trifluoroethane	1000 U	25000	1000	5000	09/20/21 14:59	
1,1-Dichloroethane (1,1-DCA)	1000 U	25000	1000	5000	09/20/21 14:59	
1,1-Dichloroethene (1,1-DCE)	1000 U	25000	1000	5000	09/20/21 14:59	
1,2,3-Trichlorobenzene	1300 U	25000	1300	5000	09/20/21 14:59	
1,2,4-Trichlorobenzene	1700 U	25000	1700	5000	09/20/21 14:59	
1,2-Dibromo-3-chloropropane (DBCP)	2300 U	25000	2300	5000	09/20/21 14:59	
1,2-Dibromoethane	1000 U	25000	1000	5000	09/20/21 14:59	
1,2-Dichlorobenzene	1000 U	25000	1000	5000	09/20/21 14:59	
1,2-Dichloroethane	1000 U	25000	1000	5000	09/20/21 14:59	
1,2-Dichloropropane	1000 U	25000	1000	5000	09/20/21 14:59	
1,3-Dichlorobenzene	1000 U	25000	1000	5000	09/20/21 14:59	
1,4-Dichlorobenzene	1000 U	25000	1000	5000	09/20/21 14:59	
1,4-Dioxane	65000 U	500000	65000	5000	09/20/21 14:59	
2-Butanone (MEK)	4300 J	50000	3900	5000	09/20/21 14:59	
2-Hexanone	1000 U	50000	1000	5000	09/20/21 14:59	
4-Methyl-2-pentanone	1000 U	50000	1000	5000	09/20/21 14:59	
Acetone	11000 U	50000	11000	5000	09/20/21 14:59	
Benzene	110000 C	25000	1000	5000	09/20/21 14:59	
Bromochloromethane	1000 U	25000	1000	5000	09/20/21 14:59	
Bromodichloromethane	1000 U	25000	1000	5000	09/20/21 14:59	
Bromoform	1300 U	25000	1300	5000	09/20/21 14:59	
Bromomethane	3500 U	25000	3500	5000	09/20/21 14:59	
Carbon Disulfide	2100 U	50000	2100	5000	09/20/21 14:59	
Carbon Tetrachloride	1700 U	25000	1700	5000	09/20/21 14:59	
Chlorobenzene	1000 U	25000	1000	5000	09/20/21 14:59	
Chloroethane	1200 U	25000	1200	5000	09/20/21 14:59	
Chloroform	1200 U	25000	1200	5000	09/20/21 14:59	
Chloromethane	1900 J	25000	1400	5000	09/20/21 14:59	
Cyclohexane	1300 U	50000	1300	5000	09/20/21 14:59	
Dibromochloromethane	1000 U	25000	1000	5000	09/20/21 14:59	
Dichlorodifluoromethane (CFC 12)	1100 U	25000	1100	5000	09/20/21 14:59	
Dichloromethane (CFC 12)	3300 U	25000	3300	5000	09/20/21 14:59	
Ethylbenzene	4100 J	25000	1000	5000	09/20/21 14:59	
Isopropylbenzene (Cumene)	1000 U	25000	1000	5000	09/20/21 14:59	
Methyl Acetate	1700 J	50000	1700	5000	09/20/21 14:59	
Methyl tert-Butyl Ether	1000 U	25000	1000	5000	09/20/21 14:59	
Methylcyclohexane	1000 U	50000	1000	5000	09/20/21 14:59	
Styrene Styrene	11000 J	25000	1000	5000	09/20/21 14:59	
Tetrachloroethene (PCE)	11000 J 1100 U	25000	1100	5000	09/20/21 14:59	
· · · · · · · · · · · · · · · · · · ·	78000	25000	1000	5000		
Toluene	/8000	23000	1000	2000	09/20/21 14:59	

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Superset Reference:21-0000603583 rev 00

Analytical Report

Client: Inventum Engineering

Service Request: R2109413 **Date Collected:** 09/10/21 **Project:** RITC Tanks

Sample Matrix: Waste **Date Received:** 09/11/21 09:35

Sample Name: TK-SD-ST23-09102021 Units: ug/Kg

Lab Code: R2109413-002 Basis: As Received

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1000 U	25000	1000	5000	09/20/21 14:59	
Trichlorofluoromethane (CFC 11)	1200 U	25000	1200	5000	09/20/21 14:59	
Vinyl Chloride	1000 U	25000	1000	5000	09/20/21 14:59	
cis-1,2-Dichloroethene	1200 U	25000	1200	5000	09/20/21 14:59	
cis-1,3-Dichloropropene	1000 U	25000	1000	5000	09/20/21 14:59	
m,p-Xylenes	65000	25000	1000	5000	09/20/21 14:59	
o-Xylene	17000 J	25000	1000	5000	09/20/21 14:59	
trans-1,2-Dichloroethene	1000 U	25000	1000	5000	09/20/21 14:59	
trans-1,3-Dichloropropene	1200 U	25000	1200	5000	09/20/21 14:59	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	31 - 154	09/20/21 14:59	
Dibromofluoromethane	91	63 - 138	09/20/21 14:59	
Toluene-d8	95	66 - 138	09/20/21 14:59	



Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com

Analytical Report

Client: Inventum Engineering

Service Request: R2109413 **Date Collected:** 09/10/21 **Project:** RITC Tanks

Sample Matrix: Waste **Date Received:** 09/11/21 09:35

Sample Name: TK-SD-ST22-09102021 Units: ug/Kg

Lab Code: R2109413-001 Basis: As Received

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D **Prep Method:** EPA 3580A

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	130000	U	1000000	130000	10	10/06/21 21:26	10/6/21	
2,3,4,6-Tetrachlorophenol	130000	U	1000000	130000	10	10/06/21 21:26	10/6/21	
2,4,5-Trichlorophenol	120000	U	1000000	120000	10	10/06/21 21:26	10/6/21	
2,4,6-Trichlorophenol	150000	U	1000000	150000	10	10/06/21 21:26	10/6/21	
2,4-Dichlorophenol	140000	U	1000000	140000	10	10/06/21 21:26	10/6/21	
2,4-Dimethylphenol	150000	U	1000000	150000	10	10/06/21 21:26	10/6/21	
2,4-Dinitrophenol	2100000	U	5200000	2100000	10	10/06/21 21:26	10/6/21	
2,4-Dinitrotoluene	260000	U	1000000	260000	10	10/06/21 21:26	10/6/21	
2,6-Dinitrotoluene	150000	U	1000000	150000	10	10/06/21 21:26	10/6/21	
2-Chloronaphthalene	150000		1000000	150000	10	10/06/21 21:26	10/6/21	
2-Chlorophenol	120000	U	1000000	120000	10	10/06/21 21:26	10/6/21	
2-Methylnaphthalene	4400000		1000000	140000	10	10/06/21 21:26	10/6/21	
2-Methylphenol	310000	J	1000000	110000	10	10/06/21 21:26	10/6/21	
2-Nitroaniline	150000	U	5200000	150000	10	10/06/21 21:26	10/6/21	
2-Nitrophenol	160000	U	1000000	160000	10	10/06/21 21:26	10/6/21	
3,3'-Dichlorobenzidine	130000	U	1000000	130000	10	10/06/21 21:26	10/6/21	
3- and 4-Methylphenol Coelution	950000	J	1000000	130000	10	10/06/21 21:26	10/6/21	
3-Nitroaniline	120000	U	5200000	120000	10	10/06/21 21:26	10/6/21	
4,6-Dinitro-2-methylphenol	910000	U	5200000	910000	10	10/06/21 21:26	10/6/21	
4-Bromophenyl Phenyl Ether	180000	U	1000000	180000	10	10/06/21 21:26	10/6/21	
4-Chloro-3-methylphenol	120000	U	1000000	120000	10	10/06/21 21:26	10/6/21	
4-Chloroaniline	110000	U	1000000	110000	10	10/06/21 21:26	10/6/21	
4-Chlorophenyl Phenyl Ether	160000	U	1000000	160000	10	10/06/21 21:26	10/6/21	
4-Nitroaniline	150000	U	5200000	150000	10	10/06/21 21:26	10/6/21	
4-Nitrophenol	670000	U	5200000	670000	10	10/06/21 21:26	10/6/21	
Acenaphthene	1500000		1000000	150000	10	10/06/21 21:26	10/6/21	
Acenaphthylene	1300000		1000000	150000	10	10/06/21 21:26	10/6/21	
Acetophenone	140000	U	1000000	140000	10	10/06/21 21:26	10/6/21	
Anthracene	4900000		1000000	140000	10	10/06/21 21:26	10/6/21	
Atrazine	220000	U	1000000	220000	10	10/06/21 21:26	10/6/21	
Benz(a)anthracene	10000000		1000000	170000	10	10/06/21 21:26	10/6/21	
Benzaldehyde	110000	U	5200000	110000	10	10/06/21 21:26	10/6/21	
Benzo(a)pyrene	14000000	E	1000000	130000	10	10/06/21 21:26	10/6/21	
Benzo(b)fluoranthene	15000000	E	1000000	130000	10	10/06/21 21:26	10/6/21	
Benzo(g,h,i)perylene	8100000		1000000	110000	10	10/06/21 21:26	10/6/21	
Benzo(k)fluoranthene	4400000		1000000	140000	10	10/06/21 21:26	10/6/21	
Biphenyl	1100000		1000000	150000	10	10/06/21 21:26	10/6/21	
2,2'-Oxybis(1-chloropropane)	150000	U	1000000	150000	10	10/06/21 21:26	10/6/21	
Bis(2-chloroethoxy)methane	200000		1000000	200000	10	10/06/21 21:26	10/6/21	
Bis(2-chloroethyl) Ether	140000		1000000	140000	10	10/06/21 21:26	10/6/21	
Bis(2-ethylhexyl) Phthalate	820000	U	1000000	820000	10	10/06/21 21:26	10/6/21	
Butyl Benzyl Phthalate	150000	U	1000000	150000	10	10/06/21 21:26	10/6/21	
Caprolactam	110000	U	1000000	110000	10	10/06/21 21:26	10/6/21	

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Superset Reference:21-0000603583 rev 00

Analytical Report

Client: Inventum Engineering

Service Request: R2109413 **Date Collected:** 09/10/21 **Project:** RITC Tanks

Sample Matrix: Waste **Date Received:** 09/11/21 09:35

Sample Name: TK-SD-ST22-09102021 Units: ug/Kg

Lab Code: R2109413-001 Basis: As Received

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D **Prep Method:** EPA 3580A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	5900000	1000000	170000	10	10/06/21 21:26	10/6/21	
Chrysene	12000000 E	1000000	130000	10	10/06/21 21:26	10/6/21	
Di-n-butyl Phthalate	180000 U	1000000	180000	10	10/06/21 21:26	10/6/21	
Di-n-octyl Phthalate	350000 U	1000000	350000	10	10/06/21 21:26	10/6/21	
Dibenz(a,h)anthracene	1600000	1000000	120000	10	10/06/21 21:26	10/6/21	
Dibenzofuran	5600000	1000000	150000	10	10/06/21 21:26	10/6/21	
Diethyl Phthalate	120000 U	1000000	120000	10	10/06/21 21:26	10/6/21	
Dimethyl Phthalate	140000 U	1000000	140000	10	10/06/21 21:26	10/6/21	
Fluoranthene	31000000 E	1000000	160000	10	10/06/21 21:26	10/6/21	
Fluorene	9400000	1000000	140000	10	10/06/21 21:26	10/6/21	
Hexachlorobenzene	170000 U	1000000	170000	10	10/06/21 21:26	10/6/21	
Hexachlorobutadiene	110000 U	1000000	110000	10	10/06/21 21:26	10/6/21	
Hexachlorocyclopentadiene	230000 U	1000000	230000	10	10/06/21 21:26	10/6/21	
Hexachloroethane	120000 U	1000000	120000	10	10/06/21 21:26	10/6/21	
Indeno(1,2,3-cd)pyrene	8400000	1000000	190000	10	10/06/21 21:26	10/6/21	
Isophorone	150000 U	1000000	150000	10	10/06/21 21:26	10/6/21	
N-Nitrosodi-n-propylamine	130000 U	1000000	130000	10	10/06/21 21:26	10/6/21	
N-Nitrosodiphenylamine	290000 U	1000000	290000	10	10/06/21 21:26	10/6/21	
Naphthalene	31000000 E	1000000	130000	10	10/06/21 21:26	10/6/21	
Nitrobenzene	160000 U	1000000	160000	10	10/06/21 21:26	10/6/21	
Pentachlorophenol (PCP)	1100000 U	5200000	1100000	10	10/06/21 21:26	10/6/21	
Phenanthrene	34000000 E	1000000	150000	10	10/06/21 21:26	10/6/21	
Phenol	930000 J	1000000	110000	10	10/06/21 21:26	10/6/21	
Pyrene	24000000 E	1000000	160000	10	10/06/21 21:26	10/6/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	65	10 - 180	10/06/21 21:26	
2-Fluorobiphenyl	91	49 - 157	10/06/21 21:26	
2-Fluorophenol	89	59 - 113	10/06/21 21:26	
Nitrobenzene-d5	92	66 - 143	10/06/21 21:26	
Phenol-d6	90	35 - 125	10/06/21 21:26	
Terphenyl-d14	114	72 - 172	10/06/21 21:26	

Analytical Report

Client: Inventum Engineering

Service Request: R2109413 **Date Collected:** 09/10/21 **Project:** RITC Tanks

Sample Matrix: Waste **Date Received:** 09/11/21 09:35

Sample Name: TK-SD-ST22-09102021 Units: ug/Kg

Lab Code: R2109413-001 Basis: As Received

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D **Prep Method:** EPA 3580A

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	630000 U	U	5200000	630000	50	10/12/21 18:10	10/6/21	
2,3,4,6-Tetrachlorophenol	630000 U	U	5200000	630000	50	10/12/21 18:10	10/6/21	
2,4,5-Trichlorophenol	580000 U	U	5200000	580000	50	10/12/21 18:10	10/6/21	
2,4,6-Trichlorophenol	730000 U	U	5200000	730000	50	10/12/21 18:10	10/6/21	
2,4-Dichlorophenol	680000 U	U	5200000	680000	50	10/12/21 18:10	10/6/21	
2,4-Dimethylphenol	730000 U	U	5200000	730000	50	10/12/21 18:10	10/6/21	
2,4-Dinitrophenol	11000000 U	U	26000000	11000000	50	10/12/21 18:10	10/6/21	
2,4-Dinitrotoluene	1300000 U	U	5200000	1300000	50	10/12/21 18:10	10/6/21	
2,6-Dinitrotoluene	730000 U	U	5200000	730000	50	10/12/21 18:10	10/6/21	
2-Chloronaphthalene	730000 U	U	5200000	730000	50	10/12/21 18:10	10/6/21	
2-Chlorophenol	580000 U	U	5200000	580000	50	10/12/21 18:10	10/6/21	
2-Methylnaphthalene	4400000 J	J	5200000	680000	50	10/12/21 18:10	10/6/21	
2-Methylphenol	530000 U	U	5200000	530000	50	10/12/21 18:10	10/6/21	
2-Nitroaniline	730000 U	U	26000000	730000	50	10/12/21 18:10	10/6/21	
2-Nitrophenol	790000 U	U	5200000	790000	50	10/12/21 18:10	10/6/21	
3,3'-Dichlorobenzidine	630000 U	U	5200000	630000	50	10/12/21 18:10	10/6/21	
3- and 4-Methylphenol Coelution	760000 J	J	5200000	630000	50	10/12/21 18:10	10/6/21	
3-Nitroaniline	580000 U	U	26000000	580000	50	10/12/21 18:10	10/6/21	
4,6-Dinitro-2-methylphenol	4600000 U	U	26000000	4600000	50	10/12/21 18:10	10/6/21	
4-Bromophenyl Phenyl Ether	890000 U	U	5200000	890000	50	10/12/21 18:10	10/6/21	
4-Chloro-3-methylphenol	580000 U	U	5200000	580000	50	10/12/21 18:10	10/6/21	
4-Chloroaniline	530000 U	U	5200000	530000	50	10/12/21 18:10	10/6/21	
4-Chlorophenyl Phenyl Ether	790000 U	U	5200000	790000	50	10/12/21 18:10	10/6/21	
4-Nitroaniline	730000 U	U	26000000	730000	50	10/12/21 18:10	10/6/21	
4-Nitrophenol	3400000 U	U	26000000	3400000	50	10/12/21 18:10	10/6/21	
Acenaphthene	1400000 J	J	5200000	730000	50	10/12/21 18:10	10/6/21	
Acenaphthylene	1000000 J	J	5200000	730000	50	10/12/21 18:10	10/6/21	
Acetophenone	680000 U	U	5200000	680000	50	10/12/21 18:10	10/6/21	
Anthracene	4800000 J	J	5200000	680000	50	10/12/21 18:10	10/6/21	
Atrazine	1100000 U	U	5200000	1100000	50	10/12/21 18:10	10/6/21	
Benz(a)anthracene	10000000		5200000	840000	50	10/12/21 18:10	10/6/21	
Benzaldehyde	530000 U		26000000	530000	50	10/12/21 18:10	10/6/21	
Benzo(a)pyrene	13000000 I		5200000	630000	50	10/12/21 18:10	10/6/21	
Benzo(b)fluoranthene	14000000 I	D	5200000	630000	50	10/12/21 18:10	10/6/21	
Benzo(g,h,i)perylene	8800000		5200000	530000	50	10/12/21 18:10	10/6/21	
Benzo(k)fluoranthene	4200000 J		5200000	680000	50	10/12/21 18:10	10/6/21	
Biphenyl	1100000 J		5200000	730000	50	10/12/21 18:10	10/6/21	
2,2'-Oxybis(1-chloropropane)	730000 U		5200000	730000	50	10/12/21 18:10	10/6/21	
Bis(2-chloroethoxy)methane	990000 U		5200000	990000	50	10/12/21 18:10	10/6/21	
Bis(2-chloroethyl) Ether	680000 U	U	5200000	680000	50	10/12/21 18:10	10/6/21	
Bis(2-ethylhexyl) Phthalate	4100000 U		5200000	4100000	50	10/12/21 18:10	10/6/21	_
Butyl Benzyl Phthalate	730000 U		5200000	730000	50	10/12/21 18:10	10/6/21	
Caprolactam	530000 U	U	5200000	530000	50	10/12/21 18:10	10/6/21	

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Superset Reference:21-0000603583 rev 00

Analytical Report

Client: Inventum Engineering

Service Request: R2109413 **Date Collected:** 09/10/21 **Project:** RITC Tanks

Sample Matrix: Waste **Date Received:** 09/11/21 09:35

Sample Name: TK-SD-ST22-09102021 Units: ug/Kg

Lab Code: R2109413-001 Basis: As Received

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D **Prep Method:** EPA 3580A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	5400000	5200000	840000	50	10/12/21 18:10	10/6/21	
Chrysene	12000000 D	5200000	630000	50	10/12/21 18:10	10/6/21	
Di-n-butyl Phthalate	890000 U	5200000	890000	50	10/12/21 18:10	10/6/21	
Di-n-octyl Phthalate	1800000 U	5200000	1800000	50	10/12/21 18:10	10/6/21	
Dibenz(a,h)anthracene	1400000 J	5200000	580000	50	10/12/21 18:10	10/6/21	
Dibenzofuran	5600000	5200000	730000	50	10/12/21 18:10	10/6/21	
Diethyl Phthalate	580000 U	5200000	580000	50	10/12/21 18:10	10/6/21	
Dimethyl Phthalate	680000 U	5200000	680000	50	10/12/21 18:10	10/6/21	
Fluoranthene	34000000 D	5200000	790000	50	10/12/21 18:10	10/6/21	
Fluorene	9500000	5200000	680000	50	10/12/21 18:10	10/6/21	
Hexachlorobenzene	840000 U	5200000	840000	50	10/12/21 18:10	10/6/21	
Hexachlorobutadiene	530000 U	5200000	530000	50	10/12/21 18:10	10/6/21	
Hexachlorocyclopentadiene	1200000 U	5200000	1200000	50	10/12/21 18:10	10/6/21	
Hexachloroethane	580000 U	5200000	580000	50	10/12/21 18:10	10/6/21	
Indeno(1,2,3-cd)pyrene	8500000	5200000	940000	50	10/12/21 18:10	10/6/21	
Isophorone	730000 U	5200000	730000	50	10/12/21 18:10	10/6/21	
N-Nitrosodi-n-propylamine	630000 U	5200000	630000	50	10/12/21 18:10	10/6/21	
N-Nitrosodiphenylamine	1500000 U	5200000	1500000	50	10/12/21 18:10	10/6/21	
Naphthalene	41000000 D	5200000	630000	50	10/12/21 18:10	10/6/21	
Nitrobenzene	790000 U	5200000	790000	50	10/12/21 18:10	10/6/21	
Pentachlorophenol (PCP)	5100000 U	26000000	5100000	50	10/12/21 18:10	10/6/21	
Phenanthrene	40000000 D	5200000	730000	50	10/12/21 18:10	10/6/21	
Phenol	820000 J	5200000	530000	50	10/12/21 18:10	10/6/21	
Pyrene	24000000 D	5200000	790000	50	10/12/21 18:10	10/6/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	0 *	10 - 180	10/12/21 18:10	D
2-Fluorobiphenyl	0 *	49 - 157	10/12/21 18:10	D
2-Fluorophenol	0 *	59 - 113	10/12/21 18:10	D
Nitrobenzene-d5	0 *	66 - 143	10/12/21 18:10	D
Phenol-d6	0 *	35 - 125	10/12/21 18:10	D
Terphenyl-d14	0 *	72 - 172	10/12/21 18:10	D

Analytical Report

Client: Inventum Engineering

Service Request: R2109413 **Date Collected:** 09/10/21 **Project:** RITC Tanks

Sample Matrix: Waste **Date Received:** 09/11/21 09:35

Sample Name: TK-SD-ST23-09102021 Units: ug/Kg

Lab Code: R2109413-002 Basis: As Received

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D **Prep Method:** EPA 3580A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	130000 U	1100000	130000	10	10/06/21 21:54	10/6/21	
2,3,4,6-Tetrachlorophenol	130000 U	1100000	130000	10	10/06/21 21:54	10/6/21	
2,4,5-Trichlorophenol	120000 U	1100000	120000	10	10/06/21 21:54	10/6/21	
2,4,6-Trichlorophenol	160000 U	1100000	160000	10	10/06/21 21:54	10/6/21	
2,4-Dichlorophenol	140000 U	1100000	140000	10	10/06/21 21:54	10/6/21	
2,4-Dimethylphenol	280000 J	1100000	160000	10	10/06/21 21:54	10/6/21	
2,4-Dinitrophenol	2200000 U	5400000	2200000	10	10/06/21 21:54	10/6/21	
2,4-Dinitrotoluene	260000 U	1100000	260000	10	10/06/21 21:54	10/6/21	
2,6-Dinitrotoluene	160000 U	1100000	160000	10	10/06/21 21:54	10/6/21	
2-Chloronaphthalene	160000 U	1100000	160000	10	10/06/21 21:54	10/6/21	
2-Chlorophenol	120000 U	1100000	120000	10	10/06/21 21:54	10/6/21	
2-Methylnaphthalene	3100000	1100000	140000	10	10/06/21 21:54	10/6/21	
2-Methylphenol	480000 J	1100000	110000	10	10/06/21 21:54	10/6/21	
2-Nitroaniline	160000 U	5400000	160000	10	10/06/21 21:54	10/6/21	
2-Nitrophenol	170000 U	1100000	170000	10	10/06/21 21:54	10/6/21	
3,3'-Dichlorobenzidine	130000 U	1100000	130000	10	10/06/21 21:54	10/6/21	
3- and 4-Methylphenol Coelution	1000000 J	1100000	130000	10	10/06/21 21:54	10/6/21	
3-Nitroaniline	120000 U	5400000	120000	10	10/06/21 21:54	10/6/21	
4,6-Dinitro-2-methylphenol	940000 U	5400000	940000	10	10/06/21 21:54	10/6/21	
4-Bromophenyl Phenyl Ether	190000 U	1100000	190000	10	10/06/21 21:54	10/6/21	
4-Chloro-3-methylphenol	120000 U	1100000	120000	10	10/06/21 21:54	10/6/21	
4-Chloroaniline	110000 U	1100000	110000	10	10/06/21 21:54	10/6/21	
4-Chlorophenyl Phenyl Ether	170000 U	1100000	170000	10	10/06/21 21:54	10/6/21	
4-Nitroaniline	160000 U	5400000	160000	10	10/06/21 21:54	10/6/21	
4-Nitrophenol	690000 U	5400000	690000	10	10/06/21 21:54	10/6/21	
Acenaphthene	290000 J	1100000	160000	10	10/06/21 21:54	10/6/21	
Acenaphthylene	2700000	1100000	160000	10	10/06/21 21:54	10/6/21	
Acetophenone	140000 U	1100000	140000	10	10/06/21 21:54	10/6/21	
Anthracene	1700000	1100000	140000	10	10/06/21 21:54	10/6/21	
Atrazine	230000 U	1100000	230000	10	10/06/21 21:54	10/6/21	
Benz(a)anthracene	1700000	1100000	180000	10	10/06/21 21:54	10/6/21	
Benzaldehyde	110000 U	5400000	110000	10	10/06/21 21:54	10/6/21	
Benzo(a)pyrene	2000000	1100000	130000	10	10/06/21 21:54	10/6/21	
Benzo(b)fluoranthene	2100000	1100000	130000	10	10/06/21 21:54	10/6/21	
Benzo(g,h,i)perylene	1000000 J	1100000	110000	10	10/06/21 21:54	10/6/21	
Benzo(k)fluoranthene	630000 J	1100000	140000	10	10/06/21 21:54	10/6/21	
Biphenyl	430000 J	1100000	160000	10	10/06/21 21:54	10/6/21	
2,2'-Oxybis(1-chloropropane)	160000 U	1100000	160000	10	10/06/21 21:54	10/6/21	
Bis(2-chloroethoxy)methane	210000 U	1100000	210000	10	10/06/21 21:54	10/6/21	
Bis(2-chloroethyl) Ether	140000 U	1100000	140000	10	10/06/21 21:54	10/6/21	
Bis(2-ethylhexyl) Phthalate	840000 U	1100000	840000	10	10/06/21 21:54	10/6/21	
Butyl Benzyl Phthalate	160000 U	1100000	160000	10	10/06/21 21:54	10/6/21	
Caprolactam	110000 U	1100000	110000	10	10/06/21 21:54	10/6/21	

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Superset Reference:21-0000603583 rev 00

Analytical Report

Client: Inventum Engineering

Service Request: R2109413 **Date Collected:** 09/10/21 **Project:** RITC Tanks

Sample Matrix: Waste **Date Received:** 09/11/21 09:35

Sample Name: TK-SD-ST23-09102021 Units: ug/Kg

Lab Code: R2109413-002 Basis: As Received

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D **Prep Method:** EPA 3580A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	1200000	1100000	180000	10	10/06/21 21:54	10/6/21	
Chrysene	1900000	1100000	130000	10	10/06/21 21:54	10/6/21	
Di-n-butyl Phthalate	190000 U	1100000	190000	10	10/06/21 21:54	10/6/21	
Di-n-octyl Phthalate	360000 U	1100000	360000	10	10/06/21 21:54	10/6/21	
Dibenz(a,h)anthracene	220000 J	1100000	120000	10	10/06/21 21:54	10/6/21	
Dibenzofuran	1600000	1100000	160000	10	10/06/21 21:54	10/6/21	
Diethyl Phthalate	120000 U	1100000	120000	10	10/06/21 21:54	10/6/21	
Dimethyl Phthalate	140000 U	1100000	140000	10	10/06/21 21:54	10/6/21	
Fluoranthene	5900000	1100000	170000	10	10/06/21 21:54	10/6/21	
Fluorene	2600000	1100000	140000	10	10/06/21 21:54	10/6/21	
Hexachlorobenzene	180000 U	1100000	180000	10	10/06/21 21:54	10/6/21	
Hexachlorobutadiene	110000 U	1100000	110000	10	10/06/21 21:54	10/6/21	
Hexachlorocyclopentadiene	240000 U	1100000	240000	10	10/06/21 21:54	10/6/21	
Hexachloroethane	120000 U	1100000	120000	10	10/06/21 21:54	10/6/21	
Indeno(1,2,3-cd)pyrene	1100000	1100000	200000	10	10/06/21 21:54	10/6/21	
Isophorone	160000 U	1100000	160000	10	10/06/21 21:54	10/6/21	
N-Nitrosodi-n-propylamine	130000 U	1100000	130000	10	10/06/21 21:54	10/6/21	
N-Nitrosodiphenylamine	300000 U	1100000	300000	10	10/06/21 21:54	10/6/21	
Naphthalene	15000000 E	1100000	130000	10	10/06/21 21:54	10/6/21	
Nitrobenzene	170000 U	1100000	170000	10	10/06/21 21:54	10/6/21	
Pentachlorophenol (PCP)	1100000 U	5400000	1100000	10	10/06/21 21:54	10/6/21	
Phenanthrene	8600000	1100000	160000	10	10/06/21 21:54	10/6/21	
Phenol	910000 J	1100000	110000	10	10/06/21 21:54	10/6/21	
Pyrene	440000	1100000	170000	10	10/06/21 21:54	10/6/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	84	10 - 180	10/06/21 21:54	
2-Fluorobiphenyl	94	49 - 157	10/06/21 21:54	
2-Fluorophenol	87	59 - 113	10/06/21 21:54	
Nitrobenzene-d5	108	66 - 143	10/06/21 21:54	
Phenol-d6	88	35 - 125	10/06/21 21:54	
Terphenyl-d14	121	72 - 172	10/06/21 21:54	

Analytical Report

Inventum Engineering **Client:**

Service Request: R2109413 **Date Collected:** 09/10/21 **Project:** RITC Tanks

Sample Matrix: Waste **Date Received:** 09/11/21 09:35

Sample Name: TK-SD-ST23-09102021 Units: ug/Kg

Lab Code: R2109413-002 Basis: As Received

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D **Prep Method:** EPA 3580A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	260000 U	2200000	260000	20	10/12/21 18:38	10/6/21	
2,3,4,6-Tetrachlorophenol	260000 U	2200000	260000	20	10/12/21 18:38	10/6/21	
2,4,5-Trichlorophenol	240000 U	2200000	240000	20	10/12/21 18:38	10/6/21	
2,4,6-Trichlorophenol	310000 U	2200000	310000	20	10/12/21 18:38	10/6/21	
2,4-Dichlorophenol	280000 U	2200000	280000	20	10/12/21 18:38	10/6/21	
2,4-Dimethylphenol	310000 U	2200000	310000	20	10/12/21 18:38	10/6/21	
2,4-Dinitrophenol	4400000 U	11000000	4400000	20	10/12/21 18:38	10/6/21	
2,4-Dinitrotoluene	520000 U	2200000	520000	20	10/12/21 18:38	10/6/21	
2,6-Dinitrotoluene	310000 U	2200000	310000	20	10/12/21 18:38	10/6/21	
2-Chloronaphthalene	310000 U	2200000	310000	20	10/12/21 18:38	10/6/21	
2-Chlorophenol	240000 U	2200000	240000	20	10/12/21 18:38	10/6/21	
2-Methylnaphthalene	3100000	2200000	280000	20	10/12/21 18:38	10/6/21	
2-Methylphenol	430000 J	2200000	220000	20	10/12/21 18:38	10/6/21	
2-Nitroaniline	310000 U	11000000	310000	20	10/12/21 18:38	10/6/21	
2-Nitrophenol	330000 U	2200000	330000	20	10/12/21 18:38	10/6/21	
3,3'-Dichlorobenzidine	260000 U	2200000	260000	20	10/12/21 18:38	10/6/21	
3- and 4-Methylphenol Coelution	870000 J	2200000	260000	20	10/12/21 18:38	10/6/21	
3-Nitroaniline	240000 U	11000000	240000	20	10/12/21 18:38	10/6/21	
4,6-Dinitro-2-methylphenol	1900000 U	11000000	1900000	20	10/12/21 18:38	10/6/21	
4-Bromophenyl Phenyl Ether	370000 U	2200000	370000	20	10/12/21 18:38	10/6/21	
4-Chloro-3-methylphenol	240000 U	2200000	240000	20	10/12/21 18:38	10/6/21	
4-Chloroaniline	220000 U	2200000	220000	20	10/12/21 18:38	10/6/21	
4-Chlorophenyl Phenyl Ether	330000 U	2200000	330000	20	10/12/21 18:38	10/6/21	
4-Nitroaniline	310000 U	11000000	310000	20	10/12/21 18:38	10/6/21	
4-Nitrophenol	1400000 U	11000000	1400000	20	10/12/21 18:38	10/6/21	
Acenaphthene	310000 U	2200000	310000	20	10/12/21 18:38	10/6/21	
Acenaphthylene	2700000	2200000	310000	20	10/12/21 18:38	10/6/21	
Acetophenone	280000 U	2200000	280000	20	10/12/21 18:38	10/6/21	
Anthracene	1600000 J	2200000	280000	20	10/12/21 18:38	10/6/21	
Atrazine	460000 U	2200000	460000	20	10/12/21 18:38	10/6/21	
Benz(a)anthracene	1800000 J	2200000	350000	20	10/12/21 18:38	10/6/21	
Benzaldehyde	220000 U	11000000	220000	20	10/12/21 18:38	10/6/21	
Benzo(a)pyrene	2000000 J	2200000	260000	20	10/12/21 18:38	10/6/21	
Benzo(b)fluoranthene	2100000 J	2200000	260000	20	10/12/21 18:38	10/6/21	
Benzo(g,h,i)perylene	1100000 J	2200000	220000	20	10/12/21 18:38	10/6/21	
Benzo(k)fluoranthene	620000 J	2200000	280000	20	10/12/21 18:38	10/6/21	
Biphenyl	450000 J	2200000	310000	20	10/12/21 18:38	10/6/21	
2,2'-Oxybis(1-chloropropane)	310000 U	2200000	310000	20	10/12/21 18:38	10/6/21	
Bis(2-chloroethoxy)methane	410000 U	2200000	410000	20	10/12/21 18:38	10/6/21	
Bis(2-chloroethyl) Ether	280000 U	2200000	280000	20	10/12/21 18:38	10/6/21	
Bis(2-ethylhexyl) Phthalate	1700000 U	2200000	1700000	20	10/12/21 18:38	10/6/21	
Butyl Benzyl Phthalate	310000 U	2200000	310000	20	10/12/21 18:38	10/6/21	
Caprolactam	220000 U	2200000	220000	20	10/12/21 18:38	10/6/21	

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Superset Reference:21-0000603583 rev 00

Analytical Report

Client: Inventum Engineering

Service Request: R2109413 **Date Collected:** 09/10/21 **Project:** RITC Tanks

Sample Matrix: Waste **Date Received:** 09/11/21 09:35

Sample Name: TK-SD-ST23-09102021 Units: ug/Kg

Lab Code: R2109413-002 Basis: As Received

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D **Prep Method:** EPA 3580A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	1200000 J	2200000	350000	20	10/12/21 18:38	10/6/21	
Chrysene	1900000 J	2200000	260000	20	10/12/21 18:38	10/6/21	
Di-n-butyl Phthalate	370000 U	2200000	370000	20	10/12/21 18:38	10/6/21	
Di-n-octyl Phthalate	710000 U	2200000	710000	20	10/12/21 18:38	10/6/21	
Dibenz(a,h)anthracene	240000 U	2200000	240000	20	10/12/21 18:38	10/6/21	
Dibenzofuran	1500000 J	2200000	310000	20	10/12/21 18:38	10/6/21	
Diethyl Phthalate	240000 U	2200000	240000	20	10/12/21 18:38	10/6/21	
Dimethyl Phthalate	280000 U	2200000	280000	20	10/12/21 18:38	10/6/21	
Fluoranthene	6000000	2200000	330000	20	10/12/21 18:38	10/6/21	
Fluorene	2600000	2200000	280000	20	10/12/21 18:38	10/6/21	
Hexachlorobenzene	350000 U	2200000	350000	20	10/12/21 18:38	10/6/21	
Hexachlorobutadiene	220000 U	2200000	220000	20	10/12/21 18:38	10/6/21	
Hexachlorocyclopentadiene	480000 U	2200000	480000	20	10/12/21 18:38	10/6/21	
Hexachloroethane	240000 U	2200000	240000	20	10/12/21 18:38	10/6/21	
Indeno(1,2,3-cd)pyrene	1000000 J	2200000	390000	20	10/12/21 18:38	10/6/21	
Isophorone	310000 U	2200000	310000	20	10/12/21 18:38	10/6/21	
N-Nitrosodi-n-propylamine	260000 U	2200000	260000	20	10/12/21 18:38	10/6/21	
N-Nitrosodiphenylamine	590000 U	2200000	590000	20	10/12/21 18:38	10/6/21	
Naphthalene	16000000 D	2200000	260000	20	10/12/21 18:38	10/6/21	
Nitrobenzene	330000 U	2200000	330000	20	10/12/21 18:38	10/6/21	
Pentachlorophenol (PCP)	2100000 U	11000000	2100000	20	10/12/21 18:38	10/6/21	
Phenanthrene	8600000	2200000	310000	20	10/12/21 18:38	10/6/21	
Phenol	830000 J	2200000	220000	20	10/12/21 18:38	10/6/21	_
Pyrene	4100000	2200000	330000	20	10/12/21 18:38	10/6/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	93	10 - 180	10/12/21 18:38	
2-Fluorobiphenyl	95	49 - 157	10/12/21 18:38	
2-Fluorophenol	83	59 - 113	10/12/21 18:38	
Nitrobenzene-d5	114	66 - 143	10/12/21 18:38	
Phenol-d6	82	35 - 125	10/12/21 18:38	
Terphenyl-d14	95	72 - 172	10/12/21 18:38	



Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com

Analytical Report

Client: Inventum Engineering

Service Request: R2109413 **Date Collected:** 09/10/21 **Project:** RITC Tanks

Sample Matrix: Waste **Date Received:** 09/11/21 09:35

Sample Name: TK-SD-ST22-09102021 Units: ug/Kg

Lab Code: R2109413-001 Basis: As Received

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B **Prep Method:** EPA 3580A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	
4,4'-DDE	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	
4,4'-DDT	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	
Aldrin	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	
Dieldrin	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	
Endosulfan I	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	
Endosulfan II	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	
Endosulfan Sulfate	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	
Endrin	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	
Endrin Aldehyde	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	
Endrin Ketone	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	
Heptachlor	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	
Heptachlor Epoxide	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	
Methoxychlor	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	
Toxaphene	5000 U	5000	5000	100	09/27/21 13:18	9/27/21	
alpha-BHC	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	
alpha-Chlordane	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	
beta-BHC	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	
delta-BHC	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	
gamma-BHC (Lindane)	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	
gamma-Chlordane	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q	
Decachlorobiphenyl	0 *	10 - 164	09/27/21 13:18	D	
Tetrachloro-m-xylene	0 *	10 - 147	09/27/21 13:18	D	

Analytical Report

Client: Inventum Engineering

Service Request: R2109413 **Date Collected:** 09/10/21 **Project:** RITC Tanks

Sample Matrix: Waste **Date Received:** 09/11/21 09:35

Sample Name: TK-SD-ST23-09102021 Units: ug/Kg

Lab Code: R2109413-002 Basis: As Received

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B **Prep Method:** EPA 3580A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	
4,4'-DDE	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	
4,4'-DDT	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	
Aldrin	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	
Dieldrin	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	
Endosulfan I	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	
Endosulfan II	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	
Endosulfan Sulfate	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	
Endrin	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	
Endrin Aldehyde	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	
Endrin Ketone	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	
Heptachlor	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	
Heptachlor Epoxide	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	
Methoxychlor	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	
Toxaphene	50000 U	50000	50000	1000	09/27/21 13:38	9/27/21	
alpha-BHC	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	
alpha-Chlordane	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	
beta-BHC	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	
delta-BHC	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	
gamma-BHC (Lindane)	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	
gamma-Chlordane	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q	
Decachlorobiphenyl	0 *	10 - 164	09/27/21 13:38	D	
Tetrachloro-m-xylene	0 *	10 - 147	09/27/21 13:38	D	

Analytical Report

Client: Inventum Engineering

Project: RITC Tanks

Sample Matrix: Waste

Sample Name:

TK-SD-ST22-09102021 Units: ug/Kg

Lab Code: R2109413-001 Basis: As Received

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A **Prep Method:** EPA 3580A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	2000 U	2000	2000	10	09/27/21 13:21	9/27/21	_
Aroclor 1221	4000 U	4000	4000	10	09/27/21 13:21	9/27/21	
Aroclor 1232	2000 U	2000	2000	10	09/27/21 13:21	9/27/21	
Aroclor 1242	2000 U	2000	2000	10	09/27/21 13:21	9/27/21	
Aroclor 1248	2000 U	2000	2000	10	09/27/21 13:21	9/27/21	
Aroclor 1254	2000 U	2000	2000	10	09/27/21 13:21	9/27/21	
Aroclor 1260	2000 U	2000	2000	10	09/27/21 13:21	9/27/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	100	44 - 131	09/27/21 13:21	
Tetrachloro-m-xylene	84	33 - 139	09/27/21 13:21	

Service Request: R2109413

Date Collected: 09/10/21

Date Received: 09/11/21 09:35

Analytical Report

Client: Inventum Engineering

Project: RITC Tanks

Date Collected: 09/10/21 Waste

Sample Matrix:

Date Received: 09/11/21 09:35

Units: ug/Kg

Service Request: R2109413

Sample Name: TK-SD-ST23-09102021

R2109413-002

Basis: As Received

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A **Prep Method:** EPA 3580A

Lab Code:

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	2000 U	2000	2000	10	09/27/21 13:41	9/27/21	
Aroclor 1221	4000 U	4000	4000	10	09/27/21 13:41	9/27/21	
Aroclor 1232	2000 U	2000	2000	10	09/27/21 13:41	9/27/21	
Aroclor 1242	2000 U	2000	2000	10	09/27/21 13:41	9/27/21	
Aroclor 1248	2000 U	2000	2000	10	09/27/21 13:41	9/27/21	
Aroclor 1254	2000 U	2000	2000	10	09/27/21 13:41	9/27/21	J
Aroclor 1260	2000 U	2000	2000	10	09/27/21 13:41	9/27/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q	
Decachlorobiphenyl	132 *	44 - 131	09/27/21 13:41	*	
Tetrachloro-m-xylene	67	33 - 139	09/27/21 13:41		

Analytical Report

Client: Inventum Engineering

Project: RITC Tanks

Sample Matrix:

Waste

Service Request: R2109413 **Date Collected:** 09/10/21

Date Received: 09/11/21 09:35

Sample Name: TK-SD-ST22-09102021

Lab Code: R2109413-001

Units: ug/Kg

Basis: As Received

Chlorinated Herbicides by GC

Analysis Method: 8151A **Prep Method:** Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed Da	ate Extracted	Q
2,4,5-T	100 U	100	100	1	09/23/21 01:57	9/21/21	
2,4,5-TP	100 U	100	100	1	09/23/21 01:57	9/21/21	
2,4-D	100 U	100	100	1	09/23/21 01:57	9/21/21	
Dicamba	100 U	100	100	1	09/23/21 01:57	9/21/21	

Surrogate Name% RecControl LimitsDate AnalyzedQ2,4-Dichlorophenylacetic Acid7110 - 15109/23/21 01:57

Analytical Report

Client: Inventum Engineering

Project: RITC Tanks

Sample Matrix: Waste

Service Request: R2109413 **Date Collected:** 09/10/21

Date Received: 09/11/21 09:35

Sample Name: TK-SD-ST23-09102021

Lab Code: R2109413-002

Units: ug/Kg

Basis: As Received

Chlorinated Herbicides by GC

Analysis Method: 8151A **Prep Method:** Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	100 U	100	100	1	09/23/21 02:17	9/21/21	
2,4,5-TP	100 U	100	100	1	09/23/21 02:17	9/21/21	
2,4-D	100 U	100	100	1	09/23/21 02:17	9/21/21	
Dicamba	100 U	100	100	1	09/23/21 02:17	9/21/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	58	10 - 151	09/23/21 02:17	



Metals

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METALS - 1 INORGANIC ANALYSIS DATA PACKAGE

Client: Inventum Engineering Service Request: TK-SD-ST22-09102021

Project Name: Date Received: 9/11/2021

Matrix: SOIL Units: mg/Kg

Basis:

Sample Name: TK-SD-ST22-09102021 Lab Code: R2109413-001

	Analysis			Dil.			
Analyte	Method	PQL	MDL	Factor	Result	С	Q
Aluminum	6010C	19.2	11.5	1.0	188		
Antimony	6010C	5.8	0.519	1.0	0.587	J	
Arsenic	6010C	0.962	0.673	1.0	18.3		
Barium	6010C	1.9	1.4	1.0	2.9		
Beryllium	6010C	0.288	0.058	1.0	0.067	J	
Boron	6010C	19.2	1.4	1.0	5.9	J	
Cadmium	6010C	0.481	0.083	1.0	27.7		
Mercury	7471B	0.100	0.039	5.0	1.8		
Calcium	6010C	96.2	30.8	1.0	1130		
Chromium	6010C	0.962	0.337	1.0	1.6		
Cobalt	6010C	4.8	0.080	1.0	0.202	J	
Copper	6010C	1.9	0.125	1.0	7.2		
Iron	6010C	19.2	12.5	1.0	1460		
Lead	6010C	4.8	0.385	1.0	730		
Magnesium	6010C	96.2	12.5	1.0	168		
Manganese	6010C	1.9	0.154	1.0	9.7		
Molybdenum	6010C	2.4	0.375	1.0	2.4	Ū	
Nickel	6010C	3.9	0.635	1.0	1.9	J	
Potassium	6010C	192	48.1	1.0	192	ŭ	
Selenium	6010C	0.962	0.519	1.0	19.1		
Silver	6010C	0.962	0.087	1.0	0.212	J	
Sodium	6010C	96.2	18.3	1.0	124		
Thallium	6010C	0.962	0.625	1.0	19.4		
Tin	6010C	48.1	1.8	1.0	28.3	J	
Vanadium	6010C	4.8	0.066	1.0	1.4	J	
Zinc	6010C	19.2	13.5	10.0	526		

% Solids: 100.0

Comments:

METALS - 1 INORGANIC ANALYSIS DATA PACKAGE

Client: Inventum Engineering Service Request: TK-SD-ST22-09102021

Project Name: Date Received: 9/11/2021

Matrix: SOIL Units: mg/Kg

Basis:

Sample Name: TK-SD-ST23-09102021 Lab Code: R2109413-002

	Analysis			Dil.			
Analyte	Method	PQL	MDL	Factor	Result	С	Q
Aluminum	6010C	18.9	11.3	1.0	18.9	ŭ	
Antimony	6010C	5.7	0.509	1.0	5.7	ŭ	
Arsenic	6010C	0.943	0.660	1.0	0.943	Ū	
Barium	6010C	1.9	1.4	1.0	1.9	Ū	
Beryllium	6010C	0.283	0.057	1.0	0.283	Ū	
Boron	6010C	18.9	1.4	1.0	3.0	J	
Cadmium	6010C	0.472	0.081	1.0	0.217	J	
Mercury	7471B	0.019	0.008	1.0	0.060		
Calcium	6010C	94.3	30.2	1.0	45.1	J	
Chromium	6010C	0.943	0.330	1.0	0.943	Ū	
Cobalt	6010C	4.7	0.078	1.0	4.7	Ū	
Copper	6010C	1.9	0.123	1.0	0.491	J	
Iron	6010C	18.9	12.3	1.0	347		
Lead	6010C	4.7	0.377	1.0	5.1		
Magnesium	6010C	94.3	12.3	1.0	94.3	Ū	
Manganese	6010C	1.9	0.151	1.0	1.9		
Molybdenum	6010C	2.4	0.368	1.0	2.4	Ū	
Nickel	6010C	3.8	0.623	1.0	5.5		
Potassium	6010C	189	47.2	1.0	189	Ū	
Selenium	6010C	0.943	0.509	1.0	5.2		
Silver	6010C	0.943	0.085	1.0	0.943	Ū	
Sodium	6010C	94.3	17.9	1.0	19.4	J	
Thallium	6010C	0.943	0.613	1.0	0.943	Ū	
Tin	6010C	47.2	1.8	1.0	47.2	Ū	
Vanadium	6010C	4.7	0.065	1.0	12.2		
Zinc	6010C	1.9	1.3	1.0	4.4		

% Solids: 100.0

Comments:



General Chemistry

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Analytical Report

Client: Inventum Engineering

Service Request: R2109413 **Date Collected:** 09/10/21 **Project:** RITC Tanks

Date Received: 09/11/21 09:35 **Sample Matrix:** Waste

Sample Name: TK-SD-ST22-09102021 Basis: As Received

Lab Code: R2109413-001

Inorganic Parameters

								Date	
Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Extracted	Q
Ammonia as Nitrogen, undistilled	350.1M	19.0	mg/Kg	5.0	1.4	1	10/01/21 22:14	10/01/21	
Cyanide, Total	9012B	4.26	mg/Kg	0.25	-	1	09/15/21 22:26	09/15/21	
Water	ASTM E203-01	11.6	Percent	0.10	0.003	1	09/21/21 10:00	NA	

Analytical Report

Client: Inventum Engineering

Service Request: R2109413 **Date Collected:** 09/10/21 **Project:** RITC Tanks

Date Received: 09/11/21 09:35 **Sample Matrix:** Waste

Sample Name: TK-SD-ST23-09102021 Basis: As Received

Lab Code: R2109413-002

Inorganic Parameters

								Date	
Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Extracted	Q
Ammonia as Nitrogen, undistilled	350.1M	53.3	mg/Kg	5.0	1.4	1	10/01/21 22:15	10/01/21	
Cyanide, Total	9012B	1.08	mg/Kg	0.28	-	1	09/15/21 22:29	09/15/21	
Water	ASTM E203-01	7.52	Percent	0.10	0.003	1	09/21/21 10:00	NA	



QC Summary Forms

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Volatile Organic Compounds by GC/MS

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QA/QC Report

Client: Inventum Engineering Service Request: R2109413

Project: RITC Tanks **Sample Matrix:** Waste

SURROGATE RECOVERY SUMMARY Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C

Extraction Method: EPA 5030C

		4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
Sample Name	Lab Code	31-154	63-138	66-138
TK-SD-ST22-09102021	R2109413-001	93	92	95
TK-SD-ST23-09102021	R2109413-002	94	91	95
Method Blank	RQ2111584-04	99	92	100
Lab Control Sample	RQ2111584-03	99	99	97

Analytical Report

Client: Inventum Engineering Service Request: R2109413

Project:RITC TanksDate Collected:NASample Matrix:WasteDate Received:NA

Sample Name:Method BlankUnits: ug/KgLab Code:RQ2111584-04Basis: As Received

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	10 U	250	10	50	09/20/21 14:14	
1,1,2,2-Tetrachloroethane	10 U	250	10	50	09/20/21 14:14	
1,1,2-Trichloroethane	10 U	250	10	50	09/20/21 14:14	
1,1,2-Trichloro-1,2,2-trifluoroethane	10 U	250	10	50	09/20/21 14:14	
1,1-Dichloroethane (1,1-DCA)	10 U	250	10	50	09/20/21 14:14	
1,1-Dichloroethene (1,1-DCE)	10 U	250	10	50	09/20/21 14:14	
1,2,3-Trichlorobenzene	13 U	250	13	50	09/20/21 14:14	
1,2,4-Trichlorobenzene	17 U	250	17	50	09/20/21 14:14	
1,2-Dibromo-3-chloropropane (DBCP)	23 U	250	23	50	09/20/21 14:14	
1,2-Dibromoethane	10 U	250	10	50	09/20/21 14:14	
1,2-Dichlorobenzene	10 U	250	10	50	09/20/21 14:14	
1,2-Dichloroethane	10 U	250	10	50	09/20/21 14:14	
1,2-Dichloropropane	10 U	250	10	50	09/20/21 14:14	
1,3-Dichlorobenzene	10 U	250	10	50	09/20/21 14:14	
1,4-Dichlorobenzene	10 U	250	10	50	09/20/21 14:14	
1,4-Dioxane	650 U	5000	650	50	09/20/21 14:14	
2-Butanone (MEK)	170 J	500	39	50	09/20/21 14:14	
2-Hexanone	10 U	500	10	50	09/20/21 14:14	
4-Methyl-2-pentanone	10 U	500	10	50	09/20/21 14:14	
Acetone	110 U	500	110	50	09/20/21 14:14	
Benzene	10 U	250	10	50	09/20/21 14:14	
Bromochloromethane	10 U	250	10	50	09/20/21 14:14	
Bromodichloromethane	10 U	250	10	50	09/20/21 14:14	
Bromoform	10 U	250	13	50 50		
	50 J	250 250	13 35	50 50	09/20/21 14:14 09/20/21 14:14	
Bromomethane Carbon Disulfide	21 U	500	21	50		
		250			09/20/21 14:14	
Carbon Tetrachloride	17 U		17	50	09/20/21 14:14	
Chlorobenzene	10 U	250	10	50	09/20/21 14:14	
Chloroethane	12 U	250	12	50	09/20/21 14:14	
Chloroform	12 U	250	12	50	09/20/21 14:14	
Chloromethane	54 J	250	14	50	09/20/21 14:14	
Cyclohexane	13 U	500	13	50	09/20/21 14:14	
Dibromochloromethane	10 U	250	10	50	09/20/21 14:14	
Dichlorodifluoromethane (CFC 12)	11 U	250	11	50	09/20/21 14:14	
Dichloromethane	33 U	250	33	50	09/20/21 14:14	
Ethylbenzene	10 U	250	10	50	09/20/21 14:14	
Isopropylbenzene (Cumene)	10 U	250	10	50	09/20/21 14:14	
Methyl Acetate	76 J	500	17	50	09/20/21 14:14	
Methyl tert-Butyl Ether	10 U	250	10	50	09/20/21 14:14	
Methylcyclohexane	10 U	500	10	50	09/20/21 14:14	
Styrene	10 U	250	10	50	09/20/21 14:14	
Tetrachloroethene (PCE)	11 U	250	11	50	09/20/21 14:14	
Toluene	10 U	250	10	50	09/20/21 14:14	

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Superset Reference:21-0000603583 rev 00

Analytical Report

Client: Inventum Engineering Service Request: R2109413

Project:RITC TanksDate Collected:NASample Matrix:WasteDate Received:NA

Sample Name: Method Blank Units: ug/Kg

Lab Code: RQ2111584-04 Basis: As Received

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C **Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	10 U	250	10	50	09/20/21 14:14	_
Trichlorofluoromethane (CFC 11)	12 U	250	12	50	09/20/21 14:14	
Vinyl Chloride	10 U	250	10	50	09/20/21 14:14	
cis-1,2-Dichloroethene	12 U	250	12	50	09/20/21 14:14	
cis-1,3-Dichloropropene	10 U	250	10	50	09/20/21 14:14	
m,p-Xylenes	10 U	250	10	50	09/20/21 14:14	
o-Xylene	10 U	250	10	50	09/20/21 14:14	
trans-1,2-Dichloroethene	10 U	250	10	50	09/20/21 14:14	
trans-1,3-Dichloropropene	12 U	250	12	50	09/20/21 14:14	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	31 - 154	09/20/21 14:14	
Dibromofluoromethane	92	63 - 138	09/20/21 14:14	
Toluene-d8	100	66 - 138	09/20/21 14:14	

QA/QC Report

Client: Inventum Engineering

Service Request: R2109413 **Project:** RITC Tanks **Date Analyzed:** 09/20/21

Sample Matrix: Waste

Printed 12/6/2021 12:54:32 PM

Lab Control Sample Summary Volatile Organic Compounds by GC/MS, Unpreserved

Units:ug/Kg Basis: As Received

Lab Control Sample

RQ2111584-03

Analytical

Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	22.4	20.0	112	68-123
1,1,2,2-Tetrachloroethane	8260C	20.4	20.0	102	78-121
1,1,2-Trichloroethane	8260C	20.5	20.0	103	84-117
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	19.8	20.0	99	54-121
1,1-Dichloroethane (1,1-DCA)	8260C	23.3	20.0	117	76-123
1,1-Dichloroethene (1,1-DCE)	8260C	18.9	20.0	94	65-115
1,2,3-Trichlorobenzene	8260C	20.9	20.0	105	60-128
1,2,4-Trichlorobenzene	8260C	21.8	20.0	109	62-130
1,2-Dibromo-3-chloropropane (DBCP)	8260C	17.7	20.0	89	54-135
1,2-Dibromoethane	8260C	18.9	20.0	95	77-117
1,2-Dichlorobenzene	8260C	20.0	20.0	100	75-116
1,2-Dichloroethane	8260C	21.6	20.0	108	74-116
1,2-Dichloropropane	8260C	21.6	20.0	108	79-112
1,3-Dichlorobenzene	8260C	20.1	20.0	101	72-118
1,4-Dichlorobenzene	8260C	19.1	20.0	95	72-117
1,4-Dioxane	8260C	354	400	88	59-147
2-Butanone (MEK)	8260C	19.6	20.0	98	67-129
2-Hexanone	8260C	17.6	20.0	88	68-118
4-Methyl-2-pentanone	8260C	18.4	20.0	92	64-123
Acetone	8260C	16.6	20.0	83	32-154
Benzene	8260C	21.1	20.0	105	77-114
Bromochloromethane	8260C	20.7	20.0	104	78-117
Bromodichloromethane	8260C	21.2	20.0	106	72-118
Bromoform	8260C	17.9	20.0	89	55-134
Bromomethane	8260C	10.7	20.0	54	10-150
Carbon Disulfide	8260C	23.4	20.0	117	44-139
Carbon Tetrachloride	8260C	22.2	20.0	111	51-123
Chlorobenzene	8260C	20.1	20.0	100	79-115
Chloroethane	8260C	12.5	20.0	62	10-140
Chloroform	8260C	19.9	20.0	100	76-115
Chloromethane	8260C	28.4	20.0	142 *	10-131
Cyclohexane	8260C	21.8	20.0	109	67-122
Dibromochloromethane	8260C	20.0	20.0	100	68-121

Superset Reference:21-0000603583 rev 00

QA/QC Report

Client: Inventum Engineering

Project: RITC Tanks

Sample Matrix: Waste

Lab Control Sample Summary Volatile Organic Compounds by GC/MS, Unpreserved

Units:ug/Kg
Basis:As Received

Service Request: R2109413

Date Analyzed: 09/20/21

Lab Control Sample

RQ2111584-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260C	25.1	20.0	126	51-144
·					
Dichloromethane	8260C	20.9	20.0	104	72-118
Ethylbenzene	8260C	21.3	20.0	106	64-118
Isopropylbenzene (Cumene)	8260C	21.6	20.0	108	60-123
Methyl Acetate	8260C	31.3	20.0	156 *	31-122
Methyl tert-Butyl Ether	8260C	20.8	20.0	104	76-118
Methylcyclohexane	8260C	22.4	20.0	112	70-124
Styrene	8260C	21.0	20.0	105	74-117
Tetrachloroethene (PCE)	8260C	20.3	20.0	101	58-124
Toluene	8260C	21.2	20.0	106	72-116
Trichloroethene (TCE)	8260C	19.2	20.0	96	69-118
Trichlorofluoromethane (CFC 11)	8260C	17.6	20.0	88	52-127
Vinyl Chloride	8260C	21.8	20.0	109	59-153
cis-1,2-Dichloroethene	8260C	21.8	20.0	109	79-113
cis-1,3-Dichloropropene	8260C	23.9	20.0	119 *	66-117
m,p-Xylenes	8260C	42.2	40.0	106	68-118
o-Xylene	8260C	20.8	20.0	104	71-116
trans-1,2-Dichloroethene	8260C	22.7	20.0	113	73-114
trans-1,3-Dichloropropene	8260C	24.0	20.0	120	57-135



Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com

QA/QC Report

Client: Inventum Engineering Service Request: R2109413

Project: RITC Tanks **Sample Matrix:** Waste

SURROGATE RECOVERY SUMMARY Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D **Extraction Method:** EPA 3580A

		2,4,6-Tribromophenol	2-Fluorobiphenyl	2-Fluorophenol
Sample Name	Lab Code	10-180	49-157	59-113
TK-SD-ST22-09102021	R2109413-001	65	91	89
TK-SD-ST22-09102021 DL	R2109413-001	0*	0*	0*
TK-SD-ST23-09102021	R2109413-002	84	94	87
TK-SD-ST23-09102021 DL	R2109413-002	93	95	83
Method Blank	RQ2112531-01	89	107	104
Lab Control Sample	RQ2112531-02	90	116	106
Duplicate Lab Control Sample	RQ2112531-03	87	110	102

QA/QC Report

Client: Inventum Engineering Service Request: R2109413

Project: RITC Tanks **Sample Matrix:** Waste

SURROGATE RECOVERY SUMMARY Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D **Extraction Method:** EPA 3580A

		Nitrobenzene-d5	Phenol-d6	Terphenyl-d14
Sample Name	Lab Code	66-143	35-125	72-172
TK-SD-ST22-09102021	R2109413-001	92	90	114
TK-SD-ST22-09102021 DL	R2109413-001	0*	0*	0*
TK-SD-ST23-09102021	R2109413-002	108	88	121
TK-SD-ST23-09102021 DL	R2109413-002	114	82	95
Method Blank	RQ2112531-01	108	99	136
Lab Control Sample	RQ2112531-02	105	103	130
Duplicate Lab Control Sample	RQ2112531-03	97	99	128

Analytical Report

Client: Inventum Engineering

Service Request: R2109413 **Project:** RITC Tanks **Date Collected:** NA **Sample Matrix:** Waste Date Received: NA

Sample Name: Method Blank Units: ug/Kg Lab Code: RQ2112531-01 Basis: As Received

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D **Prep Method:** EPA 3580A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	12000 U	100000	12000	1	10/06/21 19:02	10/6/21	
2,3,4,6-Tetrachlorophenol	12000 U	100000	12000	1	10/06/21 19:02	10/6/21	
2,4,5-Trichlorophenol	11000 U	100000	11000	1	10/06/21 19:02	10/6/21	
2,4,6-Trichlorophenol	14000 U	100000	14000	1	10/06/21 19:02	10/6/21	
2,4-Dichlorophenol	13000 U	100000	13000	1	10/06/21 19:02	10/6/21	
2,4-Dimethylphenol	14000 U	100000	14000	1	10/06/21 19:02	10/6/21	
2,4-Dinitrophenol	200000 U	500000	200000	1	10/06/21 19:02	10/6/21	
2,4-Dinitrotoluene	24000 U	100000	24000	1	10/06/21 19:02	10/6/21	
2,6-Dinitrotoluene	14000 U	100000	14000	1	10/06/21 19:02	10/6/21	
2-Chloronaphthalene	14000 U	100000	14000	1	10/06/21 19:02	10/6/21	
2-Chlorophenol	11000 U	100000	11000	1	10/06/21 19:02	10/6/21	,
2-Methylnaphthalene	13000 U	100000	13000	1	10/06/21 19:02	10/6/21	
2-Methylphenol	10000 U	100000	10000	1	10/06/21 19:02	10/6/21	
2-Nitroaniline	14000 U	500000	14000	1	10/06/21 19:02	10/6/21	
2-Nitrophenol	15000 U	100000	15000	1	10/06/21 19:02	10/6/21	
3,3'-Dichlorobenzidine	12000 U	100000	12000	1	10/06/21 19:02	10/6/21	
3- and 4-Methylphenol Coelution	12000 U	100000	12000	1	10/06/21 19:02	10/6/21	
3-Nitroaniline	11000 U	500000	11000	1	10/06/21 19:02	10/6/21	
4,6-Dinitro-2-methylphenol	87000 U	500000	87000	1	10/06/21 19:02	10/6/21	
4-Bromophenyl Phenyl Ether	17000 U	100000	17000	1	10/06/21 19:02	10/6/21	
4-Chloro-3-methylphenol	11000 U	100000	11000	1	10/06/21 19:02	10/6/21	
4-Chloroaniline	10000 U	100000	10000	1	10/06/21 19:02	10/6/21	
4-Chlorophenyl Phenyl Ether	15000 U	100000	15000	1	10/06/21 19:02	10/6/21	
4-Nitroaniline	14000 U	500000	14000	1	10/06/21 19:02	10/6/21	
4-Nitrophenol	64000 U	500000	64000	1	10/06/21 19:02	10/6/21	
Acenaphthene	14000 U	100000	14000	1	10/06/21 19:02	10/6/21	
Acenaphthylene	14000 U	100000	14000	1	10/06/21 19:02	10/6/21	
Acetophenone	13000 U	100000	13000	1	10/06/21 19:02	10/6/21	
Anthracene	13000 U	100000	13000	1	10/06/21 19:02	10/6/21	
Atrazine	21000 U	100000	21000	1	10/06/21 19:02	10/6/21	
Benz(a)anthracene	16000 U	100000	16000	1	10/06/21 19:02	10/6/21	
Benzaldehyde	10000 U	500000	10000	1	10/06/21 19:02	10/6/21	
Benzo(a)pyrene	12000 U	100000	12000	1	10/06/21 19:02	10/6/21	
Benzo(b)fluoranthene	12000 U	100000	12000	1	10/06/21 19:02	10/6/21	
Benzo(g,h,i)perylene	10000 U	100000	10000	1	10/06/21 19:02	10/6/21	
Benzo(k)fluoranthene	13000 U	100000	13000	1	10/06/21 19:02	10/6/21	
Biphenyl	14000 U	100000	14000	1	10/06/21 19:02	10/6/21	
2,2'-Oxybis(1-chloropropane)	14000 U	100000	14000	1	10/06/21 19:02	10/6/21	
Bis(2-chloroethoxy)methane	19000 U	100000	19000	1	10/06/21 19:02	10/6/21	
Bis(2-chloroethyl) Ether	13000 U	100000	13000	1	10/06/21 19:02	10/6/21	
Bis(2-ethylhexyl) Phthalate	78000 U	100000	78000	1	10/06/21 19:02	10/6/21	
Butyl Benzyl Phthalate	14000 U	100000	14000	1	10/06/21 19:02	10/6/21	
Caprolactam	10000 U	100000	10000	1	10/06/21 19:02	10/6/21	

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Superset Reference:21-0000603583 rev 00

Analytical Report

Client: Inventum Engineering

Service Request: R2109413 **Project:** RITC Tanks **Date Collected:** NA **Sample Matrix:** Waste Date Received: NA

Sample Name: Method Blank Units: ug/Kg Lab Code: RQ2112531-01

Basis: As Received

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D **Prep Method:** EPA 3580A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	16000 U	100000	16000	1	10/06/21 19:02	10/6/21	
Chrysene	12000 U	100000	12000	1	10/06/21 19:02	10/6/21	
Di-n-butyl Phthalate	17000 U	100000	17000	1	10/06/21 19:02	10/6/21	
Di-n-octyl Phthalate	33000 U	100000	33000	1	10/06/21 19:02	10/6/21	
Dibenz(a,h)anthracene	11000 U	100000	11000	1	10/06/21 19:02	10/6/21	
Dibenzofuran	14000 U	100000	14000	1	10/06/21 19:02	10/6/21	
Diethyl Phthalate	11000 U	100000	11000	1	10/06/21 19:02	10/6/21	
Dimethyl Phthalate	13000 U	100000	13000	1	10/06/21 19:02	10/6/21	
Fluoranthene	15000 U	100000	15000	1	10/06/21 19:02	10/6/21	
Fluorene	13000 U	100000	13000	1	10/06/21 19:02	10/6/21	
Hexachlorobenzene	16000 U	100000	16000	1	10/06/21 19:02	10/6/21	
Hexachlorobutadiene	10000 U	100000	10000	1	10/06/21 19:02	10/6/21	
Hexachlorocyclopentadiene	22000 U	100000	22000	1	10/06/21 19:02	10/6/21	
Hexachloroethane	11000 U	100000	11000	1	10/06/21 19:02	10/6/21	
Indeno(1,2,3-cd)pyrene	18000 U	100000	18000	1	10/06/21 19:02	10/6/21	
Isophorone	14000 U	100000	14000	1	10/06/21 19:02	10/6/21	
N-Nitrosodi-n-propylamine	12000 U	100000	12000	1	10/06/21 19:02	10/6/21	
N-Nitrosodiphenylamine	27000 U	100000	27000	1	10/06/21 19:02	10/6/21	
Naphthalene	12000 U	100000	12000	1	10/06/21 19:02	10/6/21	
Nitrobenzene	15000 U	100000	15000	1	10/06/21 19:02	10/6/21	
Pentachlorophenol (PCP)	97000 U	500000	97000	1	10/06/21 19:02	10/6/21	
Phenanthrene	14000 U	100000	14000	1	10/06/21 19:02	10/6/21	
Phenol	10000 U	100000	10000	1	10/06/21 19:02	10/6/21	_
Pyrene	15000 U	100000	15000	1	10/06/21 19:02	10/6/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	89	10 - 180	10/06/21 19:02	
2-Fluorobiphenyl	107	49 - 157	10/06/21 19:02	
2-Fluorophenol	104	59 - 113	10/06/21 19:02	
Nitrobenzene-d5	108	66 - 143	10/06/21 19:02	
Phenol-d6	99	35 - 125	10/06/21 19:02	
Terphenyl-d14	136	72 - 172	10/06/21 19:02	

QA/QC Report

Client: Inventum Engineering

Project: RITC Tanks

Sample Matrix: Waste

Duplicate Lab Control Sample Summary Semivolatile Organic Compounds by GC/MS

Units:ug/Kg
Basis:As Received

Service Request: R2109413

Date Analyzed: 10/06/21

Lab Control Sample

Duplicate Lab Control Sample

RQ2112531-02

RQ2112531-03

Analyte Name	Analytica l Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	8270D	144000	200000	72	135000	200000	68	50-150	6	30
2,3,4,6-Tetrachlorophenol	8270D	200000	200000	100	174000	200000	87	50-150	14	30
2,4,5-Trichlorophenol	8270D	192000	200000	96	194000	200000	97	50-150	1	30
2,4,6-Trichlorophenol	8270D	193000	200000	96	176000	200000	88	50-150	9	30
2,4-Dichlorophenol	8270D	181000	200000	90	174000	200000	87	50-150	4	30
2,4-Dimethylphenol	8270D	197000	200000	99	190000	200000	95	50-150	3	30
2,4-Dinitrophenol	8270D	200000 U	200000	0 *	200000 U	200000	0 *	30-178	NC	30
2,4-Dinitrotoluene	8270D	209000	200000	105	191000	200000	96	50-161	9	30
2,6-Dinitrotoluene	8270D	205000	200000	103	188000	200000	94	50-150	9	30
2-Chloronaphthalene	8270D	223000	200000	112	208000	200000	104	50-150	7	30
2-Chlorophenol	8270D	200000	200000	100	189000	200000	94	50-150	6	30
2-Methylnaphthalene	8270D	201000	200000	101	193000	200000	96	50-150	4	30
2-Methylphenol	8270D	202000	200000	101	192000	200000	96	50-150	6	30
2-Nitroaniline	8270D	227000 J	200000	114	227000 J	200000	114	50-150	<1	30
2-Nitrophenol	8270D	175000	200000	88	166000	200000	83	50-150	5	30
3,3'-Dichlorobenzidine	8270D	202000	200000	101	197000	200000	99	50-150	2	30
3- and 4-Methylphenol Coelution	8270D	201000	200000	100	197000	200000	98	50-150	2	30
3-Nitroaniline	8270D	167000 J	200000	84	152000 J	200000	76	50-150	10	30
4,6-Dinitro-2-methylphenol	8270D	183000 J	200000	92	184000 J	200000	92	15-180	<1	30
4-Bromophenyl Phenyl Ether	8270D	191000	200000	95	183000	200000	92	50-150	4	30
4-Chloro-3-methylphenol	8270D	174000	200000	87	174000	200000	87	39-168	<1	30
4-Chloroaniline	8270D	187000	200000	93 *	181000	200000	90 *	10-86	3	30
4-Chlorophenyl Phenyl Ether	8270D	189000	200000	94	187000	200000	93	50-150	1	30
4-Nitroaniline	8270D	199000 J	200000	100	189000 J	200000	94	50-150	5	30
4-Nitrophenol	8270D	217000 J	200000	108	202000 J	200000	101	28-164	7	30
Acenaphthene	8270D	219000	200000	109	210000	200000	105	50-150	4	30
Acenaphthylene	8270D	236000	200000	118	230000	200000	115	50-150	3	30
Acetophenone	8270D	307000	400000	77	292000	400000	73	50-150	5	30
Anthracene	8270D	225000	200000	112	207000	200000	103	50-150	8	30
Atrazine	8270D	133000	200000	66	126000	200000	63	50-150	5	30
Benz(a)anthracene	8270D	205000	200000	103	205000	200000	103	50-150	<1	30
Benzaldehyde	8270D	84800 J	200000	42 *	78700 J	200000	39 *	50-150	7	30
Benzo(a)pyrene	8270D	236000	200000	118	228000	200000	114	50-150	4	30
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Superset Reference:21-0000603583 rev 00

QA/QC Report

Client: Inventum Engineering

Project: RITC Tanks

Sample Matrix: Waste

Duplicate Lab Control Sample Summary Semivolatile Organic Compounds by GC/MS

Units:ug/Kg
Basis:As Received

Service Request: R2109413

Date Analyzed: 10/06/21

Lab Control Sample

Duplicate Lab Control Sample

RQ2112531-02

RQ2112531-03

Analyte Name	Analytica l Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Benzo(b)fluoranthene	8270D	185000	200000	93	179000	200000	89	50-150	4	30
Benzo(g,h,i)perylene	8270D	196000	200000	98	179000	200000	90	50-150	9	30
Benzo(k)fluoranthene	8270D	210000	200000	105	198000	200000	99	50-150	6	30
Biphenyl	8270D	129000	200000	65	121000	200000	60	50-150	7	30
2,2'-Oxybis(1-chloropropane)	8270D	227000	200000	113	201000	200000	101	50-150	12	30
Bis(2-chloroethoxy)methane	8270D	242000	200000	121	231000	200000	115	50-150	5	30
Bis(2-chloroethyl) Ether	8270D	206000	200000	103	208000	200000	104	50-150	1	30
Bis(2-ethylhexyl) Phthalate	8270D	191000	200000	96	188000	200000	94	50-150	1	30
Butyl Benzyl Phthalate	8270D	214000	200000	107	208000	200000	104	50-150	3	30
Caprolactam	8270D	90600 J	200000	45 *	82200 J	200000	41 *	50-150	10	30
Carbazole	8270D	243000	200000	121	235000	200000	117	50-150	3	30
Chrysene	8270D	208000	200000	104	200000	200000	100	50-150	4	30
Di-n-butyl Phthalate	8270D	246000	200000	123	226000	200000	113	50-150	9	30
Di-n-octyl Phthalate	8270D	156000	200000	78	147000	200000	74	50-150	6	30
Dibenz(a,h)anthracene	8270D	188000	200000	94	175000	200000	88	50-150	7	30
Dibenzofuran	8270D	212000	200000	106	205000	200000	102	50-150	4	30
Diethyl Phthalate	8270D	190000	200000	95	179000	200000	90	50-150	6	30
Dimethyl Phthalate	8270D	198000	200000	99	182000	200000	91	50-150	8	30
Fluoranthene	8270D	232000	200000	116	214000	200000	107	50-150	8	30
Fluorene	8270D	207000	200000	104	197000	200000	99	50-150	5	30
Hexachlorobenzene	8270D	199000	200000	100	190000	200000	95	50-150	5	30
Hexachlorobutadiene	8270D	192000	200000	96	181000	200000	91	50-150	6	30
Hexachlorocyclopentadiene	8270D	219000	200000	110	209000	200000	105	50-150	5	30
Hexachloroethane	8270D	199000	200000	99	197000	200000	98	50-150	1	30
Indeno(1,2,3-cd)pyrene	8270D	174000	200000	87	165000	200000	83	50-150	5	30
Isophorone	8270D	213000	200000	106	201000	200000	101	50-150	6	30
N-Nitrosodi-n-propylamine	8270D	202000	200000	101	181000	200000	91	47-145	11	30
N-Nitrosodiphenylamine	8270D	223000	200000	111	211000	200000	106	50-150	5	30
Naphthalene	8270D	211000	200000	105	196000	200000	98	50-150	7	30
Nitrobenzene	8270D	216000	200000	108	209000	200000	105	50-150	3	30
Pentachlorophenol (PCP)	8270D	267000 J	200000	134	252000 J	200000	126	10-164	6	30
Phenanthrene	8270D	218000	200000	109	204000	200000	102	50-150	6	30
Phenol	8270D	201000	200000	100	198000	200000	99	50-150	1	30
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Superset Reference:21-0000603583 rev 00

QA/QC Report

Client: Inventum Engineering

Project: RITC Tanks

Sample Matrix: Waste

Service Request: R2109413

Date Analyzed: 10/06/21

Duplicate Lab Control Sample Summary Semivolatile Organic Compounds by GC/MS

Units:ug/Kg

Basis: As Received

Lab Control Sample

Duplicate Lab Control Sample

RQ2112531-02

RQ2112531-03

	Analytica		Spike			Spike		% Rec		RPD
Analyte Name	l Method	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Pyrene	8270D	239000	200000	119	235000	200000	117	50-150	2	30



Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com

QA/QC Report

Client: Inventum Engineering Service Request: R2109413

Project: RITC Tanks **Sample Matrix:** Waste

SURROGATE RECOVERY SUMMARY Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B **Extraction Method:** EPA 3580A

		Decachlorobiphenyl	Tetrachloro-m-xylene	
Sample Name	Lab Code	10-164	10-147	
TK-SD-ST22-09102021	R2109413-001	0*	0*	
TK-SD-ST23-09102021	R2109413-002	0*	0*	
Method Blank	RQ2111974-01	105	115	
Lab Control Sample	RQ2111974-02	109	121	
Duplicate Lab Control Sample	RQ2111974-03	109	122	

Analytical Report

Client: Inventum Engineering Service Request: R2109413

Project:RITC TanksDate Collected:NASample Matrix:WasteDate Received:NA

Sample Name: Method Blank Units: ug/Kg

Lab Code: RQ2111974-01 Basis: As Received

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B **Prep Method:** EPA 3580A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	100 U	100	100	10	09/27/21 14:18	9/27/21	
4,4'-DDE	100 U	100	100	10	09/27/21 14:18	9/27/21	
4,4'-DDT	100 U	100	100	10	09/27/21 14:18	9/27/21	
Aldrin	100 U	100	100	10	09/27/21 14:18	9/27/21	
Dieldrin	100 U	100	100	10	09/27/21 14:18	9/27/21	
Endosulfan I	100 U	100	100	10	09/27/21 14:18	9/27/21	
Endosulfan II	100 U	100	100	10	09/27/21 14:18	9/27/21	
Endosulfan Sulfate	100 U	100	100	10	09/27/21 14:18	9/27/21	
Endrin	100 U	100	100	10	09/27/21 14:18	9/27/21	
Endrin Aldehyde	100 U	100	100	10	09/27/21 14:18	9/27/21	
Endrin Ketone	100 U	100	100	10	09/27/21 14:18	9/27/21	
Heptachlor	100 U	100	100	10	09/27/21 14:18	9/27/21	
Heptachlor Epoxide	100 U	100	100	10	09/27/21 14:18	9/27/21	
Methoxychlor	100 U	100	100	10	09/27/21 14:18	9/27/21	
Toxaphene	500 U	500	500	10	09/27/21 14:18	9/27/21	
alpha-BHC	100 U	100	100	10	09/27/21 14:18	9/27/21	
alpha-Chlordane	100 U	100	100	10	09/27/21 14:18	9/27/21	
beta-BHC	100 U	100	100	10	09/27/21 14:18	9/27/21	
delta-BHC	100 U	100	100	10	09/27/21 14:18	9/27/21	
gamma-BHC (Lindane)	100 U	100	100	10	09/27/21 14:18	9/27/21	
gamma-Chlordane	100 U	100	100	10	09/27/21 14:18	9/27/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	105	10 - 164	09/27/21 14:18	
Tetrachloro-m-xylene	115	10 - 147	09/27/21 14:18	

QA/QC Report

Client: Inventum Engineering

Service Request: R2109413 **Project:** RITC Tanks **Date Analyzed:** 09/27/21

Sample Matrix: Waste

Duplicate Lab Control Sample Summary Organochlorine Pesticides by Gas Chromatography

Units:ug/Kg Basis: As Received

Lab Control Sample

Duplicate Lab Control Sample

RQ2111974-02

RQ2111974-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
4,4'-DDD	8081B	2080	2000	104	2110	2000	106	42-159	2	30
4,4'-DDE	8081B	2390	2000	120	2410	2000	121	47-147	<1	30
4,4'-DDT	8081B	2350	2000	117	2360	2000	118	41-149	<1	30
Aldrin	8081B	2550	2000	127	2580	2000	129	22-137	1	30
Dieldrin	8081B	2520	2000	126	2560	2000	128	52-144	2	30
Endosulfan I	8081B	2430	2000	122	2470	2000	124	52-136	2	30
Endosulfan II	8081B	2490	2000	125	2530	2000	127	57-138	2	30
Endosulfan Sulfate	8081B	2470	2000	123	2510	2000	125	34-156	2	30
Endrin	8081B	2500	2000	125	2540	2000	127	56-143	2	30
Endrin Aldehyde	8081B	2380	2000	119	2430	2000	121	10-166	2	30
Endrin Ketone	8081B	2430	2000	122	2480	2000	124	59-143	2	30
Heptachlor	8081B	2430	2000	121	2480	2000	124	32-141	2	30
Heptachlor Epoxide	8081B	2500	2000	125	2530	2000	127	51-143	1	30
Methoxychlor	8081B	2020	2000	101	2060	2000	103	56-149	2	30
alpha-BHC	8081B	2540	2000	127	2580	2000	129	36-151	1	30
alpha-Chlordane	8081B	2490	2000	124	2530	2000	126	50-139	1	30
beta-BHC	8081B	2360	2000	118	2380	2000	119	55-149	1	30
delta-BHC	8081B	2600	2000	130	2640	2000	132	29-159	2	30
gamma-BHC (Lindane)	8081B	2520	2000	126	2550	2000	128	41-149	1	30

QA/QC Report

Client: Inventum Engineering Service Request: R2109413

Project: RITC Tanks **Sample Matrix:** Waste

SURROGATE RECOVERY SUMMARY Polychlorinated Biphenyls (PCBs) by GC

Torychrothiated Diplicity is (Tebs) by

Analysis Method: 8082A **Extraction Method:** EPA 3580A

		Decachlorobiphenyl	Tetrachloro-m-xylene
Sample Name	Lab Code	44-131	33-139
TK-SD-ST22-09102021	R2109413-001	100	84
TK-SD-ST23-09102021	R2109413-002	132*	67
Method Blank	RQ2111974-01	101	88
Lab Control Sample	RQ2111974-02	95	91
Duplicate Lab Control Sample	RQ2111974-03	102	93

Analytical Report

Client: Inventum Engineering

Service Request: R2109413 **Project:** RITC Tanks **Date Collected:** NA **Sample Matrix:** Waste Date Received: NA

Sample Name: Method Blank Units: ug/Kg

Lab Code: RQ2111974-01 Basis: As Received

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A **Prep Method:** EPA 3580A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	2000 U	2000	2000	10	09/27/21 14:01	9/27/21	
Aroclor 1221	4000 U	4000	4000	10	09/27/21 14:01	9/27/21	
Aroclor 1232	2000 U	2000	2000	10	09/27/21 14:01	9/27/21	
Aroclor 1242	2000 U	2000	2000	10	09/27/21 14:01	9/27/21	
Aroclor 1248	2000 U	2000	2000	10	09/27/21 14:01	9/27/21	
Aroclor 1254	2000 U	2000	2000	10	09/27/21 14:01	9/27/21	
Aroclor 1260	2000 U	2000	2000	10	09/27/21 14:01	9/27/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	101	44 - 131	09/27/21 14:01	
Tetrachloro-m-xylene	88	33 - 139	09/27/21 14:01	

QA/QC Report

Client: Inventum Engineering

Project: RITC Tanks

Sample Matrix: Waste

Service Request: R2109413

Date Analyzed: 09/27/21

Duplicate Lab Control Sample Summary Polychlorinated Biphenyls (PCBs) by GC

Units:ug/Kg

Basis: As Received

Lab Control Sample

Duplicate Lab Control Sample

RQ2111974-02

RQ2111974-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aroclor 1016	8082A	8100	10000	81	8820	10000	88	40-140	8	30
Aroclor 1260	8082A	7040	10000	70	8010	10000	80	53-127	13	30

QA/QC Report

Client: Inventum Engineering Service Request: R2109413

Project: RITC Tanks **Sample Matrix:** Waste

SURROGATE RECOVERY SUMMARY

Chlorinated Herbicides by GC

Analysis Method: 8151A **Extraction Method:** Method

2,4-Dichlorophenylacetic

		Acid	
Sample Name	Lab Code	10-151	
TK-SD-ST22-09102021	R2109413-001	71	
TK-SD-ST23-09102021	R2109413-002	58	
Method Blank	RQ2111612-04	75	
Lab Control Sample	RQ2111612-05	81	
Duplicate Lab Control Sample	RQ2111612-06	80	

Analytical Report

Client: Inventum Engineering

Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413

Date Collected: NA

Date Received: NA

Sample Matrix: Waste

Sample Name:

Method Blank

Units: ug/Kg

Lab Code: RQ2111612-04 Basis: As Received

Chlorinated Herbicides by GC

Analysis Method: 8151A **Prep Method:** Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	100 U	100	100	1	09/22/21 23:57	9/21/21	
2,4,5-TP	100 U	100	100	1	09/22/21 23:57	9/21/21	
2,4-D	100 U	100	100	1	09/22/21 23:57	9/21/21	
Dicamba	100 U	100	100	1	09/22/21 23:57	9/21/21	

Surrogate Name% RecControl LimitsDate AnalyzedQ2,4-Dichlorophenylacetic Acid7510 - 15109/22/21 23:57

QA/QC Report

Client: Inventum Engineering

Project: RITC Tanks

Sample Matrix: Waste

Service Request: R2109413 Date Analyzed: 09/23/21

Duplicate Lab Control Sample Summary Chlorinated Herbicides by GC

Units:ug/Kg
Basis:As Received

Lab Control Sample

Duplicate Lab Control Sample

RQ2111612-05

RQ2111612-06

	Analytical		Spike			Spike		% Rec		RPD
Analyte Name	Method	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
2,4,5-T	8151A	100 U	50.0	0 *	100 U	50.2	0 *	19-127	NC	30
2,4,5-TP	8151A	100 U	50.0	0 *	100 U	50.2	0 *	18-122	NC	30
2,4-D	8151A	100 U	50.0	0 *	100 U	50.2	0 *	24-165	NC	30
Dicamba	8151A	100 U	50.0	0 *	100 U	50.2	0 *	26-128	NC	30



Metals

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BLANKS

Contract:	R2109413			
Lab Code:	Case No.:	SAS No.:	SDG NO.:	TK-SD-ST22-0
Preparation	Blank Matrix (soil/water):	SOIL		
Preparation	Blank Concentration Units (ug/L,	ppt, or mg/kg): MG	/KG	

	Initial Calib. Blank		Conti	nu	ing Calibrati	ion	Blank ug/L		Preparation Blank			
Analyte	ug/L	С	1	С	2	С	3	С		С	М	
Aluminum	120.00	U	120.00	U	120.00	Ū	120.00	Ū	12.000	U	P	Ī
Antimony	9.40	J	5.60	J	12.00	J	8.30	J	0.540	U	P	Ī
Arsenic	7.00	Ū	7.00	Ū	7.00	ŭ	7.00	Ū	0.700	U	P	Ī
Barium	15.00	Ū	15.00	U	15.00	ŭ	15.00	Ū	1.500	υ	P	Ī
Beryllium	0.60	Ū	0.60	U	0.60	ŭ	0.60	Ū	0.060	υ	P	Ī
Boron	15.00	Ū	15.00	U	15.00	ŭ	15.00	Ū	1.540	J	P	Ī
Cadmium	0.86	U	0.86	U	0.86	υ	0.86	U	0.086	U	P	Ī
Mercury	0.078	Ū	0.078	U	0.078	ŭ	0.078	Ū	0.008	υ	cv	Ī
Calcium	320.00	Ū	320.00	U	320.00	ŭ	320.00	Ū	32.000	υ	P	Ī
Chromium	3.50	Ū	3.50	U	3.50	ŭ	3.50	Ū	0.350	U	P	Ī
Cobalt	0.83	ט	0.83	Ū	0.83	ŭ	0.83	Ū	0.083	υ	P	Ī
Copper	1.30	Ū	1.30	U	1.30	ŭ	1.30	Ū	0.130	υ	P	Ī
Iron	130.00	Ū	130.00	U	130.00	ŭ	130.00	Ū	13.000	υ	P	Ī
Lead	4.00	Ū	4.00	Ū	4.00	ŭ	4.00	Ū	0.400	U	P	Ī
Magnesium	130.00	Ū	130.00	U	130.00	ŭ	130.00	Ū	13.000	υ	P	Ī
Manganese	1.60	Ū	1.60	U	1.60	ŭ	1.60	Ū	0.170	J	P	Ī
Molybdenum	8.60	J	6.40	J	8.90	J	7.20	J	0.390	υ	P	Ī
Nickel	6.60	Ū	6.60	Ū	6.60	ŭ	6.60	Ū	0.660	U	P	Ī
Potassium	500.00	Ū	500.00	U	500.00	ŭ	500.00	Ū	50.000	υ	P	Ī
Selenium	5.40	ם	5.40	U	5.40	ט	5.40	Ū	0.540	U	P	Ī
Silver	0.90	ט	0.90	U	0.90	υ	0.90	Ū	0.090	U	P	Ī
Sodium	190.00	U	190.00	U	190.00	Ū	190.00	Ū	19.000	U	P	Ī
Thallium	6.50	U	6.50	Ū	6.50	ŭ	6.50	U	0.650	υ	P	Ĩ
Tin	19.00	U	19.00	U	19.00	υ	19.00	U	1.900	U	P	Ī
Vanadium	0.69	Ū	0.69	U	0.69	Ū	0.69	Ū	0.069	U	P	Ī
Zinc	14.00	Ū	14.00	U	14.00	υ	14.00	Ū	1.400	U	P	Ī

Comments:

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BLANKS

Contract:	R2109413			
Lab Code:	Case No.:	SAS No.:	SDG NO.:	TK-SD-ST22-0
Preparation	Blank Matrix (soil/water):	WATER		
Preparation	Blank Concentration Units (ug/	L, ppt, or mg/kg): UG/L		

	Initial Calib. Blank		Cont	inu	ing Calibrati	on	Blank ug/L			Preparation Blank			
Analyte	ug/L	С	1	С	2	С	3	С			С		M
Aluminum			120.00	υ	120.00	U	120.00	U				P	?
Antimony		İ	6.60	J	5.70	J	6.50	J	İ			P	?
Arsenic			7.00	U	7.00	U	7.00	U				P	?
Barium			15.00	υ	15.00	U	15.00	ŭ				P	?
Beryllium		İ	0.60	υ	0.60	ŭ	0.60	מ	İ			P	?
Boron			15.00	ŭ	15.00	ŭ	15.00	U				P	?
Cadmium		İ İ	0.86	ŭ	0.86	ŭ	0.86	ם	İ		l İ	P	?
Mercury		ĺĺ	0.078	ט	0.078	U	0.078	U	i		ĺ	С	cv
Calcium		ĺĺ	320.00	ŭ	320.00	Ū	320.00	Ū	Î			P	·
Chromium		Ī	3.50	υ	3.50	U	3.50	Ū	i		İ	P	?
Cobalt		ĺĺ	0.83	ŭ	0.83	บ	0.83	U			ΙÍ	P	٦ :
Copper		ĺĺ	1.30	ט	1.30	U	1.30	U	i		ĺ	P	?
Iron		ĺĺ	130.00	ט	130.00	U	130.00	U	i		ĺ	P	?
Lead			4.00	U	4.00	U	4.00	U				P	?
Magnesium		İ	130.00	υ	130.00	ŭ	130.00	מ	İ			P	?
Manganese		ĺĺ	1.60	ט	1.60	U	1.60	U	i		ĺ	P	?
Molybdenum		ĺĺ	7.10	J	7.30	J	7.50	J	i		ĺ	P	?
Nickel		ĺĺ	6.60	υ	6.60	U	6.60	U	ĺ		ĺĺ	P	?
Potassium			500.00	υ	500.00	U	500.00	U	i		Ī	P	?
Selenium			5.40	υ	5.40	U	5.40	U	i		Ī	P	?
Silver	<u> </u>		0.90	υ	0.90	U	0.90	Ū				P	?
Sodium	<u> </u>		190.00	υ	190.00	U	190.00	Ū				P	?
Thallium	<u> </u>		6.50	υ	6.50	υ	6.50	Ū	ĺ			P	?
Tin		i i	19.00	υ	19.00	U	19.00	U	li			P	?
Vanadium		ii	0.69	υ	0.69	υ	0.69	U	ĺ			P	?
Zinc		i i	14.00	υ	14.00	υ	14.00	Ū	ĺ		<u> </u>	P	?

Comments:

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BLANKS

Contract:	R2109413			_		
Lab Code:		Case No.:	SAS No.	:	SDG NO.:	TK-SD-ST22-0
Preparation	Blank Matrix	(soil/water):	WATER			
Preparation	Blank Concent	tration Units (ug/L, ppt, or mg/k	g): UG/L		

	Initial Calib. Blank		Cont	inu	ing Calibrat	ion	Blank ug/L		Preparation Blank			
Analyte	ug/L	С	1	С	2	С	3	С		С	ı	M
Aluminum			120.00	U							ΙĪ	P
Antimony			5.70	J		Ī					ΠĪ	P
Arsenic			7.00	Ū		Ī					\prod	P
Barium			15.00	U		ĺ					ĺΪ	P
Beryllium			0.60	ŭ		Ī					ΠĪ	P
Boron		ĺĺ	15.00	ŭ		Ī					ΠĪ	P
Cadmium		İ	0.86	ט		İ					ΠĪ	P
Calcium		ĺĺ	320.00	ŭ		Ī					ΠĪ	P
Chromium		i	3.50	υ		ĺ					ΠĪ	P
Cobalt		i	0.83	υ		ĺ					ΠĪ	P
Copper		ĺĺ	1.30	บ		Ī					Π	P
Iron		ĺĺ	130.00	ŭ		Ī					ΠĪ	P
Lead		ĺĺ	4.00	ŭ		Ī					ΠĪ	P
Magnesium		ĺĺ	130.00	U		Ī					ΠĪ	P
Manganese			1.60	ŭ		Ī					ΠĪ	P
Molybdenum		ĺĺ	7.80	J		Ī					ΠĪ	P
Nickel		i	6.60	υ		ĺ					ΠĪ	P
Potassium		i	500.00	ŭ		Ī					ΠĪ	P
Selenium		i	5.40	υ		Ĭ	j j				Π	P
Silver		i	0.90	υ		Ĭ	j j				Π	P
Sodium			190.00	U		Ī	İ				Π	P
Thallium	1	iii	6.50	U		Ī	j j				П	P
Tin			19.00	U		Ī	j j				Π	P
Vanadium		ii	0.69	υ		Ì	j			Ì	ΠĪ	P
Zinc			14.00	υ		İ	i				Π	P

Comments:

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LABORATORY CONTROL SAMPLE

Contract:	R2109413				
Lab Code:		Case No.:	SAS No.:	SDG NO.:	TK-SD-ST22-0
Solid LCS	Source:	CPI			
Amussus TC	C Course.				

	Aqueou	ıs (ug/L			Sol	id (mg/K		
Analyte	True	Found	%R	True	Found (Lir	nits	%R
Aluminum	İ			200	196.15	160	240	98
Antimony				50	46.23	40	60	92
Arsenic				4	3.86	3.2	4.8	96
Barium				200	199.81	160	240	100
Beryllium				5	4.83	4	6	97
Boron				100	93.87	160	240	94
Cadmium				5	4.89	4	6	98
Mercury				0.10	0.097	0.077	0.133	97
Calcium				200	204.66	160	240	102
Chromium				20	20.13	16	24	101
Cobalt				50	49.88	40	60	100
Copper				25	24.68	20	30	99
Iron				100	99.33	80	120	99
Lead				50	47.94	40	60	96
Magnesium				200	188.41	160	240	94
Manganese				50	48.85	40	60	98
Molybdenum				50	49.11	40	60	98
Nickel				50	48.91	40	60	98
Potassium				2000	1931.14	1600	2400	97
Selenium				101	84.13	80.8	121	83
Silver	l j			5	4.68	4	6	94
Sodium				2000	1966.67	1600	2400	98
Thallium	l j			200	179.95	160	240	90
Tin	l j			500	479.16	400	600	96
Vanadium	l			50	49.05	40	60	98
Zinc				50	47.06	40	60	94

Comments:	



General Chemistry

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Analytical Report

Client: Inventum Engineering

Project:RITC TanksDate Collected:NASample Matrix:WasteDate Received:NA

Sample Name: Method Blank Basis: As Received

Lab Code: R2109413-MB

Inorganic Parameters

	Analysis							Date	
Analyte Name	Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Extracted	Q
Ammonia as Nitrogen, undistilled	350.1M	1.4 U	mg/Kg	5.0	1.4	1	10/01/21 22:10	10/01/21	
Cyanide, Total	9012B	0.30 U	mg/Kg	0.30	-	1	09/15/21 22:16	09/15/21	

Service Request: R2109413

QA/QC Report

Client: Inventum Engineering

Project: RITC Tanks

Sample Matrix: Waste

Service Request: R2109413

Date Analyzed: 09/15/21 - 10/01/21

Lab Control Sample Summary General Chemistry Parameters

Units:mg/Kg
Basis:As Received

Lab Control Sample R2109413-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen, undistilled	350.1M	26.1	25.0	105	90-110
Cyanide, Total	9012B	3.00	3.00	100	85-115

QA/QC Report

Client: Inventum Engineering

Project: RITC Tanks

Sample Matrix: Waste

Service Request: R2109413

Date Analyzed: 09/21/21

Lab Control Sample Summary General Chemistry Parameters

Units:Percent
Basis: As Received

Lab Control Sample R2109413-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Water	ASTM E203-01	102	100	102	90-110

QA/QC Report

Client: Inventum Engineering

Project: RITC Tanks

Sample Matrix: Waste

Service Request: R2109413

Date Analyzed: 09/15/21

Lab Control Sample Summary General Chemistry Parameters

Units:mg/Kg
Basis:As Received

Lab Control Sample

R2109413-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Cyanide, Total	9012B	17.8	18.0	99	85-115

QA/QC Report

Client: Inventum Engineering

Project: RITC Tanks

Sample Matrix: Waste

Service Request: R2109413

Date Analyzed: 09/21/21

Lab Control Sample Summary General Chemistry Parameters

Units:Percent
Basis:As Received

Lab Control Sample R2109413-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Water	ASTM E203-01	102	100	102	90-110



Subcontracted Analytical Parameters

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

October 31, 2021

Ms. Meghan Pedro ALS Environmental-Rochester 1565 Jefferson Road Bldg 300, Suite 360 Rochester, NY 14623

Certificate of Analysis

Project Name: 2021-TCLP BORON; TOTAL

URANIUM, SULFUR

58-R2109413

Workorder:

3201052

Workorder ID: AER623|R2109413

Purchase Order: Dear Ms. Pedro:

Enclosed are the analytical results for samples received by the laboratory on Wednesday, September 15, 2021.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Sarah S Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Mr. Michael Chevalier , Mr. Brady Kalkman , Reports and Invoices , Ms. Janice Jaeger

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Ms. Sarah S Leung

Project Coordinator

ALS Environmental Laboratory Locations Across North America





NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

SAMPLE SUMMARY

Workorder: 3201052 AER623|R2109413

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3201052001	TK-SD-ST22-09102021	Solid	9/10/2021 00:00	9/15/2021 09:55	Collected by Clien
3201052002	TK-SD-ST23-09102021	Solid	9/10/2021 00:00	9/15/2021 09:55	Collected by Clien





NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

SAMPLE SUMMARY

Workorder: 3201052 AER623|R2109413

Notes

- -- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 Field Services Sampling Plan).
- -- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- -- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- -- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- -- The Chain of Custody document is included as part of this report.
- -- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- -- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- -- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- -- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- -- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.

Standard Acronyms/Flags

- C Please reference the Project Summary section of this Certificate of Analysis for case narrative comments.
- J Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
- U Indicates that the analyte was Not Detected (ND)
- N Indicates presumptive evidence of the presence of a compound
- MDL Method Detection Limit
 PQL Practical Quantitation Limit
- RDL Reporting Detection Limit
- ND Not Detected indicates that the analyte was Not Detected at the RDL
- Cntr Analysis was performed using this container

RegLmt Regulatory Limit

- LCS Laboratory Control Sample
- MS Matrix Spike
- MSD Matrix Spike Duplicate
- DUP Sample Duplicate
- %Rec Percent Recovery
- RPD Relative Percent Difference
- LOD DoD Limit of Detection
- LOQ DoD Limit of Quantitation
- DL DoD Detection Limit
- I Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
- (S) Surrogate Compound
- NC Not Calculated
- * Result outside of QC limits

ALS Environmental Laboratory Locations Across North America





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PROJECT SUMMARY

Workorder: 3201052 AER623|R2109413

Workorder Comments

Temperature of sample taken at time of sample receipt in the laboratory. See chain of custody for actual temperature.

Sample Comments

Lab ID: 3201052001 **Sample ID:** TK-SD-ST22- **Sample Type:** SAMPLE 09102021

The analysis for ignitability is performed using a modified method 1010A that provides a flashpoint temperature for a solid sample.

Lab ID: 3201052002 Sample ID: TK-SD-ST23- Sample Type: SAMPLE

09102021

The analysis for ignitability is performed using a modified method 1010A that provides a flashpoint temperature for a solid sample.





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ANALYTICAL RESULTS

Workorder: 3201052 AER623|R2109413

Lab ID: 3201052001 Date Collected: 9/10/2021 00:00 Matrix: Solid

Sample ID: TK-SD-ST22-09102021 Date Received: 9/15/2021 09:55

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	Ву	Cntr
WET CHEMISTRY										
Cyanide, Reactive	ND	С	mg/kg	10	0.011	SW-846 7.3CN	9/19/21 17:00 VXF	9/23/21 17:20	MXF	Α
Ignitability	See comment	C,1, 2	Deg. F			SW-846 1010AM		9/17/21 09:35	П	Α
Moisture	26.2	С	%	0.1	0.01	S2540G-11		9/17/21 11:50	IXK	Α
Sulfide, Reactive	5.6J	C,J	mg/kg	6.2	1.4	SW846 7.3	9/19/21 17:00 VXF	9/20/21 02:48	VXF	Α
Total Solids	73.8	С	%	0.1	0.01	S2540G-11		9/17/21 11:50	IXK	Α
METALS										
Sulfur	3890	С	mg/kg	110	36.6	SW846 6010C	9/26/21 20:15 SXC	9/27/21 21:34	SRT	A1
Uranium, Total	ND	С	mg/kg	6.3	2.0	SW846 6020A	10/24/21 20:16 SXC	10/31/21 14:20	MSA	A2

Ms. Sarah S Leung Project Coordinator





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ANALYTICAL RESULTS

Workorder: 3201052 AER623|R2109413

Lab ID: 3201052002 Date Collected: 9/10/2021 00:00 Matrix: Solid

Sample ID: TK-SD-ST23-09102021 Date Received: 9/15/2021 09:55

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	Ву	Cntr
WET CHEMISTRY										
Cyanide, Reactive	ND	С	mg/kg	10	0.011	SW-846 7.3CN	9/19/21 17:00 VXF	9/23/21 17:20	MXF	Α
Ignitability	See comment	C,1, 2	Deg. F			SW-846 1010AM		9/17/21 09:35	П	Α
Moisture	21.2	С	%	0.1	0.01	S2540G-11		9/17/21 11:50	IXK	Α
Sulfide, Reactive	6.4	С	mg/kg	6.2	1.4	SW846 7.3	9/19/21 17:00 VXF	9/20/21 02:48	VXF	Α
Total Solids	78.8	С	%	0.1	0.01	S2540G-11		9/17/21 11:50	IXK	Α
METALS										
Sulfur	3790	С	mg/kg	103	34.3	SW846 6010C	9/21/21 22:13 SXC	9/22/21 10:09	SRT	A1
Uranium, Total	ND	С	mg/kg	5.2	1.6	SW846 6020A	9/21/21 22:13 SXC	10/22/21 08:47	MSA	A1

Ms. Sarah S Leung Project Coordinator





NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

ANALYTICAL RESULTS

Workorder: 3201052 AER623|R2109413

The sample did not flash up to 200°F.

PARAMETER QU	ALIFIER	es .			
Lab ID	#	Sample ID	Analytical Method	Analyte	
3201052001	1	TK-SD-ST22-09102021	SW-846 1010AM	Ignitability	
According to Pa/U	SEPA re	gulations, this sample is not cons	idered to be ignitable. (Ref 40 CF	R 261.21)	
3201052001	2	TK-SD-ST22-09102021	SW-846 1010AM	Ignitability	
The sample did no	ot flash u	p to 200°F.			
3201052002	1	TK-SD-ST23-09102021	SW-846 1010AM	Ignitability	
According to Pa/U	SEPA re	gulations, this sample is not cons	idered to be ignitable. (Ref 40 CF	R 261.21)	
3201052002	2	TK-SD-ST23-09102021	SW-846 1010AM	Ignitability	

ALS Environmental Laboratory Locations Across North America





NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3201052 AER623|R2109413

Lab ID	Sample ID	Analysis Method	Prep Method	Leachate Method
3201052001	TK-SD-ST22-09102021	S2540G-11		
3201052001	TK-SD-ST22-09102021	SW-846 1010AM		
3201052001	TK-SD-ST22-09102021	SW-846 7.3CN	SW-846 7.3CN	
3201052001	TK-SD-ST22-09102021	SW846 6010C	SW846 3051	
3201052001	TK-SD-ST22-09102021	SW846 6020A	SW846 3051	
3201052001	TK-SD-ST22-09102021	SW846 7.3	SW846 7.3	
3201052002	TK-SD-ST23-09102021	S2540G-11		
3201052002	TK-SD-ST23-09102021	SW-846 1010AM		
3201052002	TK-SD-ST23-09102021	SW-846 7.3CN	SW-846 7.3CN	
3201052002	TK-SD-ST23-09102021	SW846 6010C	SW846 3051	
3201052002	TK-SD-ST23-09102021	SW846 6020A	SW846 3051	
3201052002	TK-SD-ST23-09102021	SW846 7.3	SW846 7.3	

ALS Environmental Laboratory Locations Across North America





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QUALITY CONTROL DATA

Workorder: 3201052 AER623|R2109413

QC Batch: MDIG/91728 Analysis Method: SW846 6010C

QC Batch Method: SW846 3051

Associated Lab Samples: 3201052001, 3201052002

METHOD BLANK: 3394616

Parameter	Blank Result	Units	Reporting Limit
Sulfur	ND	mg/kg	10.0
Uranium, Total	ND	mg/kg	2.5

LABORATORY CONTROL SAMPLE: 3394617

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Sulfur	105	ma/ka	1000	1050	80 - 12

LABORATORY CONTROL SAMPLE: 3394618

MATRIX SPIKE: 3394621 DUPLICATE: 3394622 ORIGINAL: 3199919001

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such. Original Spike MS **MSD** MS % MSD % % Rec Max Result Conc. Result Result Rec Rec Limit **RPD RPD** Parameter Units Sulfur 2780.1047 mg/kg 921 3682.320 3381.944 98 60.7* 75 - 125 8.5 20

ALS Environmental Laboratory Locations Across North America





NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

QUALITY CONTROL DATA

Workorder: 3201052 AER623|R2109413

QC Batch: MDIG/91769 Analysis Method: SW846 6010C

QC Batch Method: SW846 3051
Associated Lab Samples: 3201052001

METHOD BLANK: 3396467

ParameterBlank ResultReporting UnitsSulfurNDmg/kg10.0

LABORATORY CONTROL SAMPLE: 3396468

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Sulfur	99.1	mg/kg	1000	991	80 - 120

ALS Environmental Laboratory Locations Across North America





NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

QUALITY CONTROL DATA

Workorder: 3201052 AER623|R2109413

QC Batch: MDIG/92243 Analysis Method: SW846 6020A

QC Batch Method: SW846 3051
Associated Lab Samples: 3201052001

METHOD BLANK: 3410652

Parameter

Blank Reporting
Result Units Limit

Uranium, Total

ND mg/kg 2.5

LABORATORY CONTROL SAMPLE: 3410653

Parameter

LCS % Rec Conc. Result Limit

Uranium, Total

91.6 mg/kg 10 9.2

ALS Environmental Laboratory Locations Across North America





NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

QUALITY CONTROL DATA

Workorder: 3201052 AER623|R2109413

QC Batch: WCPR/55807 Analysis Method: SW-846 7.3CN

QC Batch Method: SW-846 7.3CN

Associated Lab Samples: 3201052001, 3201052002

METHOD BLANK: 3392336

Parameter

Blank Reporting Limit

Cyanide, Reactive

ND mg/kg 10

LABORATORY CONTROL SAMPLE: 3392337

LCS % LCS Spike % Rec Rec Conc. Result Limit Parameter Units Cyanide, Reactive 18.3 mg/kg 10 1.8J 0 - 92

SAMPLE DUPLICATE: 3392338 ORIGINAL: 3199655002

Parameter
Cyanide, Reactive

ALS Environmental Laboratory Locations Across North America





NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

QUALITY CONTROL DATA

Workorder: 3201052 AER623|R2109413

QC Batch: WCPR/55808 Analysis Method: SW846 7.3

QC Batch Method: SW846 7.3

Associated Lab Samples: 3201052001, 3201052002

METHOD BLANK: 3392339

Parameter

Blank Reporting
Result Units Limit

Sulfide, Reactive

2.8J mg/kg

6.2

LABORATORY CONTROL SAMPLE: 3392340

LCS % LCS Spike % Rec Rec Conc. Result Limit Parameter Units Sulfide, Reactive 67.6 mg/kg 569 384 49 - 148

SAMPLE DUPLICATE: 3392341 ORIGINAL: 3199655002

Original DUP Parameter Result Units Result RI
ide, Reactive 5.58325 mg/kg 2.39521 79

ALS Environmental Laboratory Locations Across North America





NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

QUALITY CONTROL DATA

Workorder: 3201052 AER623|R2109413

QC Batch: WETC/260327 Analysis Method: S2540G-11

QC Batch Method: S2540G-11

Associated Lab Samples: 3201052001, 3201052002

SAMPLE DUPLICA	TE: 3392715	ORIGINAL	DRIGINAL: 3200420001						
		Original		DUP	DDD	Max			
Parameter		Result	Units	Result	RPD	RPD			
Moisture		.0994	%	.4016	121*	10			
Total Solids		99.9005	%	99.5983	.3	5			

5	SAMPLE DUPLICATE: 3392716	ORIGINAL	RIGINAL: 3200420011							
F	Parameter	Original Result	Units	DUP Result	RPD	Max RPD				
	Noisture	1.8348	%	2.1621	16.4*	10				
٦	otal Solids	98.1651	%	97.8378	.33	5				

S	AMPLE DUPLICATE: 3392717	ORIGINAL	DRIGINAL: 3200798001							
P	arameter	Original Result	Units	DUP Result	RPD	Max RPD				
N	loisture	99.734	%	99.7916	.06	10				
Т	otal Solids	.2659	%	.2083	24.3*	5				

SAMPLI	E DUPLICATE: 3392718	ORIGINAL	DRIGINAL: 3200905001							
Parame	ter	Original Result	Units	DUP Result	RPD	Max RPD				
Moisture	Э	23.6566	%	24.5622	3.76	10				
Total So	lids	76.3433	%	75.4377	1.19	5				

SAMPLE DUPLICATE: 3392719	ORIGINAL	ORIGINAL: 3200938001							
Parameter	Original Result	Units	DUP Result	RPD	Max RPD				
Moisture	11.4811	%	11.8103	2.83	10				
Total Solids	88.5188	%	88.1896	.37	5				

ALS Environmental Laboratory Locations Across North America





NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

QUALITY CONTROL DATA

Workorder: 3201052 AER623|R2109413

SAMPLE DUPLICATE: 3392	2720 ORIGINAL	DRIGINAL: 3201050001							
Parameter	Original Result	Units	DUP Result	RPD	Max RPD				
Moisture	47.5777	%	47.7219	.3	10				
Total Solids	52.4222	%	52.278	.28	5				

SAMPLE DUPLICATE: 339	2721 ORIGINAL	ORIGINAL: 3201063002								
Parameter	Original Result	Units	DUP Result	RPD	Max RPD					
Moisture	6.8027	%	6.8716	1.01	10					
Total Solids	93.1972	%	93.1283	.07	5					

ALS Environmental Laboratory Locations Across North America





NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

QUALITY CONTROL DATA

Workorder: 3201052 AER623|R2109413

QC Batch: WETC/260376 Analysis Method: SW846 7.3

QC Batch Method: SW846 7.3 Associated Lab Samples:

METHOD BLANK: 3393338

ParameterBlank ResultReporting LimitSulfide, ReactiveNDmg/kg6.3

METHOD BLANK: 3393340

Parameter

Blank Result Units Limit

Sulfide, Reactive

ND mg/kg 6.3

METHOD BLANK: 3393342

ParameterBlank ResultReporting LimitSulfide, ReactiveNDmg/kg6.3

ALS Environmental Laboratory Locations Across North America





NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 3201052 AER623|R2109413

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
3201052001	TK-SD-ST22-09102021	SW-846 7.3CN	WCPR/55807	SW-846 7.3CN	WETC/260467
3201052002	TK-SD-ST23-09102021	SW-846 7.3CN	WCPR/55807	SW-846 7.3CN	WETC/260467
3201052001	TK-SD-ST22-09102021	SW846 7.3	WCPR/55808	SW846 7.3	WETC/260376
3201052002	TK-SD-ST23-09102021	SW846 7.3	WCPR/55808	SW846 7.3	WETC/260376
3201052001	TK-SD-ST22-09102021			S2540G-11	WETC/260327
3201052002	TK-SD-ST23-09102021			S2540G-11	WETC/260327
3201052002	TK-SD-ST23-09102021	SW846 3051	MDIG/91728	SW846 6010C	META/83191
3201052002	TK-SD-ST23-09102021	SW846 3051	MDIG/91728	SW846 6020A	META/83714
3201052001	TK-SD-ST22-09102021	SW846 3051	MDIG/91769	SW846 6010C	META/83257
3201052001	TK-SD-ST22-09102021	SW846 3051	MDIG/92243	SW846 6020A	META/83915

ALS Environmental Laboratory Locations Across North America

ALS Environmental Chain of Custody

ALS Con

1565 Jefferson Rd, Building 300 • Rochester, NY 14623 • 585-288-5380 • FAX 585-288-8475

R2109413 Project Number: Project Ma QAP:

Project Manager: Meghan Pedro	Meghan Pedro										3201
(AP:	LAB QAP			Sample	ب		0014 CN Kesct	Flash A0101	Misc Out I Jone	Misc Out 2 Mone	Sulfide Reac
Lab Code Sample ID	Sample ID	# of Cont.	Matrix	Date	Time	Lab ID					Í
R2109413:801	R21094H3:801 TK-SD-ST22-09102021	11	Waste	9/10/21		Middletown ALS	х	Х	×	×	×
R21094T3-002	R21094T3-002 TK-SD-ST23-09102021	1 1/	Waste	9/10/21		Middletown ALS	×	×	×	×	×

Total Uranium Total Sulfur

> R2109413-001,2 R2109413-001,2

			2 070	The second secon
Special Instructions/Comments	nts	Turnaround Requirements	Report Requirements	Invoice Information
		RUSH (Surcharges Apply)	1. Results Only K II Results + OC Summaries	
		PLEASE CIRCLE WORK DAYS 1 2 3 4 5	III. Results + QC and Calibration Summaries	PO# 58R2109413
		X STANDARD	V. Data Validation Report with Raw Data	
		Requested FAX Date:	PQL/MDL/J Y	Bill to
H - Test is On Hold	P - Test is Authorized for Prep Only	Requested Report Date: 10/01/21	EDD Y	

Mero Received By: Fed &

Relinquished By:

ALS

Equis Egizbo Harraywell

Airbill Number:

740 alichi

Page 1

Test Comments

Misc Out 1 - None Misc Out 2 - None

Shipping: Overnight 2nd Day Ground Bill to Client Account Instructions: Dry Ice No Ice Ice Date Date Ship To: Middletown ALS ALS Environmental - Middletown 301 Fulling Mill Rd. Middletown, PA 17057 SMO PC

Comments:

ALS Group USA, Corp. www.alsglobal.com An ALS Limited Company



301 Fulling Mill Road Middletown, PA 17057 P: (717) 944-5541 F: (717) 944-1430

Condition of Sample Receipt Form

3201052 Client: Work Orde tials: ALS Environmental - Rochester 9/15/21 Were airbills / tracking numbers present and records NO 4889 5096 0653 Tracking numper: NO NO 4. Is there a COC (Chain-of-Custody) present?..... NO 5. Are the COC and bottle labels complete, legible and in agreement?..... (NO) Sa. Does the COC contain sample locations?.... 5c. Does the COC contain sample collectors name?..... 5d. Does the COC note the type(s) of preservation for all bottles? Se. Does the COC note the number of bottles submitted for each sample?..... Sf. Does the COC note the type of sample, composite or grab?..... MO) NO 6. Are all aqueous samples requiring preservation preserved correctly?1 NO 7. Were all samples placed in the proper containers for the requested analyses, with sufficient volume?..... NO 8. Are all samples within holding times for the requested analyses?..... NO 9. Were all sample containers received intact and headspace free when required? (not broken, leaking, frozen, etc.)..... NO 10. Did we receive trip blanks (applies only for methods EPA 504, EPA 524.2 and 1631E (LL Hg)?......(N/A) NO 11. Were the samples received on ice?..... NO 12. Were sample temperatures measured at 0.0-6.0°C NO 13. Are the samples DW matrix ? If YES, fill out Reportable Drinking Water questions below..... (NO 13a. Are the samples required for SDWA compliance reporting?..... NO 13b. Did the client provide a SDWA PWS ID#?.... YES NO 13c. Are all aqueous unpreserved SDWA samples pH 5-9?.... 13d. Did the client provide the SDWA sample location ID/Description?.... YES NO 13e. Did the client provide the SDWA sample type (D, E, R, C, P, S)?..... YES NO Cooler #: Thermometer ID: 5

COMMENTS (Required for all NO responses above and any sample non-conformance):

³Final determination of correct preservation for analysis such as volatiles, microbiology, and oil and grease is made in the analytical department at the time of or following the analytics

Radiological (µCi):



October 14, 2021

Client: Inventum Engineering

481 Carlisle Drive Herndon, VA 20170

Attn: John Black

Project: RITC Tanks ALS: R2109413

Date Received: 9/11/21 0935

Certificate of Analysis

	Sample ID:	Sample Date and Time:		Lab #:	Carbon, Total	Hydrogen, Total	Nitrogen, Total	Heating Value	Fluorine, Total
						D5291		D4809	EPA 5050/9056
		4114 1			As Received wt%	As Received wt%	As Received wt%	As Received BTU/lb	As Received ppm
Т	K-SD-ST22-09102021	n/a	n/a	R2109413-001	56.47	4.99	0.51	15,054	974
Т	K-SD-ST23-09102021	n/a	n/a	R2109413-002	74.03	9.77	0.37	17,185	<44

Ralph V. Poulsen, Client Services Manager

Ralph V. Poulsen



October 14, 2021

Client: Inventum Engineering

481 Carlisle Drive Herndon, VA 20170

Attn: John Black

Project: RITC Tanks ALS: R2109413

Date Received: 9/11/21 0935

Quality Control

	Commis Date		Carbon, Total	Hydrogen, Total	Nitrogen, Total	Heating Value	Fluorine, Total
Sample ID:	Sample Date and Time:	Lab #:		D5291		D4809	EPA 5050/9056
	and Time.		As Received wt%	As Received wt%	As Received wt%	As Received BTU/lb	As Received ppm
Analysis Date			10/13/21	10/13/21	10/13/21	10/09/21	10/09/21
Prep Blank			0.57	<0.5	<0.1	n/a	<52
LCS			ACET	ACET	ACET	Benzoic Acid	IV-59
CN			6709	6709	6709	6643	6650
	Observed Value		72.25	6.96	10.5	11,387	1,047
	True Value		71.09	6.71	10.4	11,373	1,000
	%R		101.6	103.7	101.0	100.1	104.7
Duplicate			T2101713-001	T2101713-001	T2101713-001	T2101593-001	R2109413-001
	Observed Value		85.16	14.23	<0.1	8,929	974
	Duplicate Value		84.44	14.34	<0.1	8,890	1,140
	%RPD		0.8	0.8	n/a	0.4	15.7



Analytical Report For

Inventum Engineering, P.C.

For Lab Project ID

221448

Referencing

ST23 Remaining Parameters

*Prepared**

Friday, April 15, 2022

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

Portions of the enclosed report reflects analysis that has been subcontracted and are presented in their original form.

Emily Farmen

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



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: ST23 Remaining Parameters

Sample Identifier: ST23-TCLP-04052022

Lab Sample ID: 221448-01 **Date Sampled:** 4/5/2022 11:45

Matrix: TCLP Extract Date Received 4/6/2022

TCLP Semi-Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Regulatory Limit Qua	lifier	Date Analy	yzed
1,4-Dichlorobenzene	< 4000	ug/L	7500		4/14/2022	13:45
2,4,5-Trichlorophenol	< 4000	ug/L	400000		4/14/2022	13:45
2,4,6-Trichlorophenol	< 4000	ug/L	2000		4/14/2022	13:45
2,4-Dinitrotoluene	< 4000	ug/L	130		4/14/2022	13:45
Cresols (as m,p,o-Cresol)	58900	ug/L	200000		4/14/2022	13:45
Hexachlorobenzene	< 4000	ug/L	130		4/14/2022	13:45
Hexachlorobutadiene	< 4000	ug/L	500		4/14/2022	13:45
Hexachloroethane	< 4000	ug/L	3000		4/14/2022	13:45
Nitrobenzene	< 4000	ug/L	2000		4/14/2022	13:45
Pentachlorophenol	< 8000	ug/L	100000		4/14/2022	13:45
Pyridine	< 4000	ug/L	5000	В	4/14/2022	13:45
Surrogate	Perce	nt Recovery	<u>Limits</u> Out	<u>liers</u>	Date Analy	zed

<u>Surrogate</u>	Percent Recovery	<u>Limits</u>	<u>Outliers</u>	Date An	<u>alyzed</u>
2,4,6-Tribromophenol	NC	29.6 - 139		4/14/2022	13:45
2-Fluorobiphenyl	NC	10 - 124		4/14/2022	13:45
2-Fluorophenol	NC	10 - 122		4/14/2022	13:45
Nitrobenzene-d5	NC	28.7 - 119		4/14/2022	13:45
Phenol-d5	NC	10 - 115		4/14/2022	13:45
Terphenyl-d14	NC	32.2 - 142		4/14/2022	13:45

Method Reference(s): EPA 8270D

EPA 1311 / 3510C

Preparation Date: 4/12/2022 Data File: B61122.D

TCLP Mercury

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Regulatory Limit Qualifier	Date Analyzed
Mercury	< 0.00200	mg/L	0.2	4/8/2022 10:38

Method Reference(s): EPA 7470A
EPA 1311
Preparation Date: 4/7/2022
Data File: Hg220408A



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: ST23 Remaining Parameters

Sample Identifier: ST23-TCLP-04052022

Lab Sample ID: 221448-01 **Date Sampled:** 4/5/2022 11:45

Matrix: TCLP Extract Date Received 4/6/2022

TCLP Pesticides

<u>Result</u>	<u>Units</u>	Regulatory Lim	it Qualifier	Date Ana	lyzed
< 2.00	ug/L	30		4/14/202	2 16:15
< 2.00	ug/L	20		4/14/202	2 16:15
< 1.00	ug/L	400		4/14/202	2 16:15
< 1.00	ug/L	8		4/14/202	2 16:15
< 1.00	ug/L	8		4/14/202	2 16:15
< 2.00	ug/L	10000		4/14/202	2 16:15
< 20.0	ug/L	500		4/14/202	2 16:15
Perce	ent Recovery	Limits	Outliers	Date Ana	lyzed
	177	15.5 - 160	*	4/14/2022	16:15
	186	16.9 - 135	*	4/14/2022	16:15
	< 2.00 < 2.00 < 1.00 < 1.00 < 1.00 < 2.00 < 20.0	< 2.00 ug/L < 2.00 ug/L < 1.00 ug/L < 1.00 ug/L < 1.00 ug/L < 1.00 ug/L < 2.00 ug/L < 2.00 ug/L < 20.0 ug/L Percent Recovery 177	< 2.00	<pre>< 2.00</pre>	< 2.00

Method Reference(s): EPA 8081B

EPA 1311 / 3510C

Preparation Date: 4/12/2022

TCLP RCRA Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Regulatory Limit Qualifier	Date Analyzed
Arsenic	< 0.500	mg/L	5	4/7/2022 12:25
Barium	< 0.500	mg/L	100	4/7/2022 12:25
Cadmium	< 0.0250	mg/L	1	4/7/2022 12:25
Chromium	< 0.500	mg/L	5	4/7/2022 12:25
Lead	< 0.500	mg/L	5	4/7/2022 12:25
Selenium	< 0.200	mg/L	1	4/7/2022 12:25
Silver	< 0.500	mg/L	5	4/7/2022 12:25

Method Reference(s): EPA 6010C

EPA 1311 / 3005A

Preparation Date: 4/7/2022 Data File: 220407A



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: ST23 Remaining Parameters

Sample Identifier: ST23-TCLP-04052022

Lab Sample ID: 221448-01 **Date Sampled:** 4/5/2022 11:45

Matrix: TCLP Extract Date Received 4/6/2022

TCLP Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Regulatory Limi	t Qualifier	Date A	nalyzed
1,1-Dichloroethene	< 200	ug/L	700		4/8/20	22 13:54
1,2-Dichloroethane	< 200	ug/L	500		4/8/20	22 13:54
2-Butanone	< 1000	ug/L	200000		4/8/20	22 13:54
Benzene	2160	ug/L	500		4/8/20	22 13:54
Carbon Tetrachloride	< 200	ug/L	500		4/8/20	22 13:54
Chlorobenzene	< 200	ug/L	100000		4/8/20	22 13:54
Chloroform	< 200	ug/L	6000		4/8/20	22 13:54
Tetrachloroethene	< 200	ug/L	700		4/8/20	22 13:54
Trichloroethene	< 200	ug/L	500		4/8/20	22 13:54
Vinyl chloride	< 200	ug/L	200		4/8/20	22 13:54
Surrogate	Percer	nt Recovery	Limits	Outliers	Date An	alyzed
1,2-Dichloroethane-d4		106	81.1 - 136		4/8/2022	13:54
4-Bromofluorobenzene		94.5	75.8 - 132		4/8/2022	13.54

T ercent Necovery	Limits	<u>Outhers</u>	Date An	aiyzeu
106	81.1 - 136		4/8/2022	13:54
94.5	75.8 - 132		4/8/2022	13:54
102	82 - 132		4/8/2022	13:54
99.6	64.6 - 137		4/8/2022	13:54
	106 94.5 102	106 81.1 - 136 94.5 75.8 - 132 102 82 - 132	106 81.1 - 136 94.5 75.8 - 132 102 82 - 132	106 81.1 - 136 4/8/2022 94.5 75.8 - 132 4/8/2022 102 82 - 132 4/8/2022

Method Reference(s): EPA 8260C

EPA 1311 / 5030C

Data File: z08334.D



Method Blank Report

Client:

Inventum Engineering, P.C.

Project Reference:

ST23 Remaining Parameters

Lab Project ID:

221448

Matrix:

TCLP Fluid

TCLP Semi-Volatile Organics

<u>Analyte</u>	Result	<u>Units</u>	Qualifier	Date Analyzed	
1,4-Dichlorobenzene	<40.0	ug/L		4/12/2022	11:58
2,4,5-Trichlorophenol	<40.0	ug/L		4/12/2022	11:58
2,4,6-Trichlorophenol	<40.0	ug/L		4/12/2022	11:58
2,4-Dinitrotoluene	<40.0	ug/L		4/12/2022	11:58
Cresols (as m,p,o-Cresol)	<80.0	ug/L		4/12/2022	11:58
Hexachlorobenzene	<40.0	ug/L		4/12/2022	11:58
Hexachlorobutadiene	<40.0	ug/L		4/12/2022	11:58
Hexachloroethane	<40.0	ug/L		4/12/2022	11:58
Nitrobenzene	<40.0	ug/L		4/12/2022	11:58
Pentachlorophenol	<80.0	ug/L		4/12/2022	11:58
Pyridine	381	ug/L		4/12/2022	11:58
Surrogate	Percent Recovery	<u>Limits</u>	Outliers	Date Anal	yzed
2,4,6-Tribromophenol	89.1	29.6 - 139		4/12/2022	11:58
2-Fluorobiphenyl	59.6	10 - 124		4/12/2022	11:58
2-Fluorophenol	72.8	10 - 122		4/12/2022	11:58
Nitrobenzene-d5	65.7	28.7 - 119		4/12/2022	11:58
Phenol-d5	66.1	10 - 115		4/12/2022	11:58
Terphenyl-d14	72.9	32.2 - 142		4/12/2022	11:58
Mathad Deference(-). FDA 0070D					

Method Reference(s):

EPA 8270D

EPA 3510C

Preparation Date:

4/12/2022

Data File:

B61030.D

QC Batch ID:

QC220412ABNT

QC Number:

Blk 1



QC Report for Laboratory Control Sample

Client: <u>Inventum Engineering, P.C.</u>

Project Reference: ST23 Remaining Parameters

Lab Project ID: 221448

TCLP Fluid

Matrix:

TCLP Semi-Volatile Organics

Method Reference(s): Preparation Date: Data File: QC Number: QC Batch ID:	Pentachlorophenol	2,4-Dinitrotoluene	2,4,6-Trichlorophenol	1,4-Dichlorobenzene	Analyte
EPA 8270D EPA 3510C 4/12/2022 B61031.D LCS 1 QC220412ABNT					
	300	200	300	200	<u>Spike</u> <u>Added</u>
	ug/L	ug/L	ug/L	ug/L	<u>Spike</u> Units
	341	195	303	169	<u>LCS</u> <u>Result</u>
	114	97.7	101	84.7	LCS % Recovery
	26.5 - 160	55.2 - 112	50.5 = 126	27.5 - 93.4	% Rec Limits
					<u>LCS</u> <u>Outliers</u>
	4/12/2022	4/12/2022	4/12/2022	4/12/2022	<u>Date</u> Analyzed

compliance with the sample condition requirements upon receipt. 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



Method Blank Report

Client:

Inventum Engineering, P.C.

Project Reference:

ST23 Remaining Parameters

Lab Project ID:

221448

Matrix:

TCLP Fluid

TCLP Mercury

Analyte Result Units Qualifier Date Analyzed

Mercury <0.00200 mg/L 4/8/2022 10:25

Method Reference(s):

EPA 7470A

Preparation Date:

4/7/2022

Data File:

Hg220408A

QC Batch ID:

QC220407HgTCLP

QC Number:

Blk 1



QC Report for Laboratory Control Sample and Control Sample Duplicate

Client: Inventum Engineering, P.C.

Project Reference: ST23 Remaining Parameters

Lab Project ID: 221448

Matrix: TCLP Fluid

TCLP Mercury

Mercury <u>Analyte</u> 0.0200Added **LCS** 0.0200Added LCSD mg/L Units <u>Spike</u> Result LCS 0.0192Result 0.0205LCSD Recovery Recovery LCS % 96.2 LCSD % 103 80 - 120 % Rec Limits Outliers Outliers Difference **LCS** LCSD Relative % 6.32 Limit RPD 20 **Outliers** RPD 4/8/2022 <u>Analyzed</u> Date

Method Reference(s): EPA 7470A

Preparation Date: Hg220408A 4/7/2022

QC Batch ID: QC Number: QC220407HgTCLP

compliance with the sample condition requirements upon receipt. 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



Method Blank Report

Client: <u>Inventum Engineering, P.C.</u>

Project Reference: ST23 Remaining Parameters

Lab Project ID: 221448

Matrix: TCLP Fluid

TCLP Pesticides

<u>Analyte</u>	Result	<u>Units</u> <u>Qualifier</u>		Date Analyzed	
Chlordane	<2.00	ug/L		4/14/2022	14:53
Endrin	<2.00	ug/L		4/14/2022	14:53
gamma-BHC (Lindane)	<1.00	ug/L		4/14/2022	14:53
Heptachlor	<1.00	ug/L		4/14/2022	14:53
Heptachlor Epoxide	<1.00	ug/L		4/14/2022	14:53
Methoxychlor	<2.00	ug/L		4/14/2022	14:53
Toxaphene	<20.0	ug/L		4/14/2022	14:53
Surrogate	Percent Recovery	<u>Limits</u>	Outliers	Date Anal	yzed
Decachlorobiphenyl (1)	146	15.5 - 160		4/14/2022	14:53
Tetrachloro-m-xylene (1)	74.6	16.9 - 135		4/14/2022	14:53

Method Reference(s):

EPA 8081B

EPA 3510C

Preparation Date:

4/12/2022

QC Batch ID:

QC220412PESTT

QC Number:

Blk 1

QC Report for Laboratory Control Sample

Client: Inventum Engineering, P.C.

Project Reference: ST23 Remaining Parameters

Lab Project ID: 221448

TCLP Fluid

Matrix:

Method Reference(s): Preparation Date: QC Number: QC Batch ID:	Methoxychlor (1)	Heptachlor Epoxide (1)	Heptachlor (1)	gamma-BHC (Lindane) (1)	Endrin (1)	Chlordane (1)	Analyte		TCLP Pesticides
EPA 8081B EPA 3510C 4/12/2022 LCS 1 QC220412PESTT									
	5.00	5.00	5.00	5.00	5.00	10.0	Added	Spike	
	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	Units	Spike	
	8.33	5.34	5.07	4.80	6.27	10.9	Result	LCS	
	167	107	101	96.0	125	109	Recovery	LCS %	
	39.2 - 198	51.9 - 132	36.2 - 136	46.5 - 126	33 - 140	NC	Limits	% Rec	
							Outliers	LCS	
	4/14/2022	4/14/2022	4/14/2022	4/14/2022	4/14/2022	4/14/2022	Analyzed	Date	



Method Blank Report

Client:

Inventum Engineering, P.C.

Project Reference:

ST23 Remaining Parameters

Lab Project ID:

221448

Matrix:

TCLP Fluid

TCLP RCRA Metals (ICP)

<u>Analyte</u>	Result	<u>Units</u>	Qualifier	Date Analy	zed
Arsenic	<0.500	mg/L		4/7/2022	11:21
Barium	< 0.500	mg/L		4/7/2022	11:21
Cadmium	< 0.0250	mg/L		4/7/2022	11:21
Chromium	< 0.500	mg/L		4/7/2022	11:21
Lead	< 0.500	mg/L		4/7/2022	11:21
Selenium	< 0.200	mg/L		4/7/2022	11:21
Silver	< 0.500	mg/L		4/7/2022	11:21

Method Reference(s):

EPA 6010C

EPA 3005

Preparation Date:

4/7/2022

Data File:

220407A

QC Batch ID:

QC220407TCLP

QC Number:

Blk 1

QC Report for Laboratory Control Sample and Control Sample Duplicate

Inventum Engineering, P.C.

Client:

Project Reference: ST23 Remaining Parameters

Lab Project ID: 221448

TCLP Fluid

Matrix:

TCLP Metals (ICP)

		Silver	Selenium	Lead	Chromium	Cadmium	Barium	Arsenic	<u>Analyte</u>	
Preparation Date:	Method Reference(s):	1.25	12.5	12.5	12.5	5.00	12.5	12.5	Added	LCS
	ؿ									
4/7/2022	EPA 6010C	1.25	12.5	12.5	12.5	5.00	12.5	12.5	Added	LCSD
005	010C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	Units	<u>Spike</u>
		1.23	12.7	12.7	12.2	5.04	12.9	11.8	Result	LCS
		1.23	13.1	12.9	12.2	5.08	13.0	12.1	Result	LCSD
		98.2	102	101	97.2	101	103	94.7	Recovery	LCS %
		98.8	105	103	97.8	102	104	96.4	Recovery	LCSD %
		80 - 120	80 - 120	80 - 120	80 - 120	80 - 120	80 - 120	80 - 120	Limits	% Rec
									<u>Outliers</u>	<u>LCS</u>
									<u>Outliers</u>	LCSD
		0.598	2.62	1.87	0.557	0.679	0.609	1.84	Outliers Difference	LCSD Relative %
		20	20	20	20	20	20	20	Limit	RPD
									Outliers	RPD
		4/7/2022	4/7/2022	4/7/2022	4/7/2022	4/7/2022	4/7/2022	4/7/2022	<u>Analyzed</u>	Date

QC Number: QC Batch ID:

QC220407TCLP

Data File:

220407A

compliance with the sample condition requirements upon receipt. 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



Method Blank Report

Client:

Inventum Engineering, P.C.

Project Reference:

ST23 Remaining Parameters

Lab Project ID:

221448

Matrix:

TCLP Fluid

TCLP Volatile Organics

<u>Analyte</u>		<u>Result</u>	<u>Units</u>	Qualifier	Date Analy	zed
1,1-Dichloroethene		<20.0	ug/L		4/8/2022	11:48
1,2-Dichloroethane		<20.0	ug/L		4/8/2022	11:48
2-Butanone		<100	ug/L		4/8/2022	11:48
Benzene		<20.0	ug/L		4/8/2022	11:48
Carbon Tetrachloride		<20.0	ug/L		4/8/2022	11:48
Chlorobenzene		<20.0	ug/L		4/8/2022	11:48
Chloroform		<20.0	ug/L		4/8/2022	11:48
Tetrachloroethene		<20.0	ug/L		4/8/2022	11:48
Trichloroethene		<20.0	ug/L		4/8/2022	11:48
Vinyl chloride		<20.0	ug/L		4/8/2022	11:48
<u>Surrogate</u>		Percent Recovery	<u>Limits</u>	Outliers	Date Anal	yzed
1,2-Dichloroethane-d4		110	81.1 - 136		4/8/2022	11:48
4-Bromofluorobenzene		96.9	75.8 - 132		4/8/2022	11:48
Pentafluorobenzene		99.3	82 - 132		4/8/2022	11:48
Toluene-D8		106	64.6 - 137		4/8/2022	11:48
Method Reference(s):	EPA 8260C					

EPA 5030

Data File: QC Batch ID: z08328.D

voax220408

QC Number:

Blk 1

QC Report for Laboratory Control Sample

Inventum Engineering, P.C.

Client:

Project Reference: ST23 Remaining Parameters

Lab Project ID: 221448

TCLP Fluid

Matrix:

TCLP Volatile Organics

1,1-Dichloroethene 1,2-Dichloroethane Benzene Carbon Tetrachloride Chlorobenzene Chloroform		20.0 20.0 20.0 20.0 20.0 20.0	ug/L ug/L ug/L	18.3 19.6 18.7 18.5 19.1	91.7 97.9 93.4 92.5 95.7 92.8	65.5 - 116 78.3 - 122 81.6 - 114 76.4 - 129 77.2 - 106 84.5 - 122	4/8/2022 4/8/2022 4/8/2022 4/8/2022 4/8/2022 4/8/2022
Chlorobenzene		20.0	ug/L	19.1	95.7	77.2 - 106	4/8/2022
Chloroform		20.0	ug/L	18.6	92.8	84.5 - 122	4/8/2022
Tetrachloroethene		20.0	ug/L	18.5	92.6	64.4 • 130	4/8/2022
Trichloroethene		20.0	ug/L	18.8	94.1	73.4 - 122	4/8/2022
Vinyl chloride		20.0	ug/L	19.8	98.9	50.9 - 164	4/8/2022
Method Reference(s):	EPA 8260C EPA 5030						
Data File:	z08327.D						

compliance with the sample condition requirements upon receipt. 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

QC Number: QC Batch ID:

LCS 1 voax220408



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.
- "H" = Denotes a parameter analyzed outside of holding time.
- "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.
- "I" = 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.

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, tern 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 wi 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 reperform 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.

CHAIN OF CUSTODY



	Date Needed Other please indicate date needed: please indicate package needed:	Rush 1 day	Rush 2 day Category B	Rush 3 day Category A	10 day Batch QC	Standard 5 day None Required	Availability contingent upon lab approval; additional fees may apply.	Turnaround Time		~				V 65	V #: :: 55	DATE COLLECTED COLLEC		REMAINING PREAMETERS	PROJECT REFERENCE				TARADIGM	
	Other EDD Other EDD needed :			NYSDEC EDD X	Basic EDD	None Required	proval; additional fees may apply.	Report Supplements	•.					20702010-110-10-10-10-10-10-10-10-10-10-10-10	570 2-TO 1 P-04760 501	SAMPLE IDENTIFIER		AQ - Aqueous Liquid AQ - Non-Aqueous Liquid	ROXANNE BIEX	252	STATE:	DR SU	NVENT M ENG	REPORT TO
	By signing this form, client agrees to Paradi	Date	0	enzent "	Reinquished By	Simpled by Date	ANNE DIEX 4/5						1	1	7	X-X-ABS WMUOO TO XMUSCZ WXMZ-D-ZOO FULTCLP BTU	REQUESTED ANALY	WA - Water DW - Drinking Water WG - Groundwater WW - Wastewater	JOHN DLACK	PHONE:	2017O CITY: STATE:	ADDRESS:	CLIENT	INVOIGETO
See additional pag	to Paradigm Terms and Conditions (reverse).			122 15:40	Date/Time	12:40	122		() () () ()	ANO DIV on	SE S and	Soparate Ropert	1000000	& tull	17	REM	SiS	SO - Soil SD - Solid SL - Sludge PT - Paint	7. A. K.O.	Email:	Quotation #:	ر له اله	\$	St. Service and St.
See additional page for sample conditions.	everse).		τ: 			Total Cost:			1 415/22/617	7 51:25	T = 1	generate a	March Carry 1	Atual Con Libor		PARADIGM LAB SAMPLE NUMBER		WP - Wipe CK - Caulk	inventumena, con	,	ion #:	31448	_	



Chain of Custody Supplement

Client:	Inventum Engineering	Completed by:	Glenn Pezzulo
Lab Project ID:	221448	Date:	4/6/22
	Sample Condition Per NELAC/ELAP 210,	n Requirements /241/242/243/244	
Condition	NELAC compliance with the sample co Yes	ndition requirements u No	upon receipt N/A
Container Type	X		
Comments			
Transferred to method- compliant container			
Headspace (<1 mL) Comments		TCLP VO	A X
Preservation Comments			
Chlorine Absent (<0.10 ppm per test strip) Comments			\
Holding Time Comments			
Temperature Comments	6°Ciced		Mitals
Compliant Sample Quantity/	Туре		



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Work Order No: 220407062

ELAP#: 10709

April 11, 2022

Emily Farmen
Paradigm Environmental
179 Lake Avenue
Rochester, NY 14608

TEL: (800) 724-1997

RE: Analysis of Samples Project# 221448

Dear Emily Farmen:

Adirondack Environmental Services, Inc received 1 sample on 4/7/2022 for the analyses presented in the following report.

Please see case narrative for specifics on analysis.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Tara Daniels

Laboratory Director

Page 1 of 3

Adirondack Environmental Services, Inc

CASE NARRATIVE

Paradigm Environmental

Analysis of Samples

Project# 221448

Date: 11-Apr-22

Lab WorkOrder: 220407062

Sample containers were not supplied by Adirondack Environmental Services.

The client performed the TCLP extraction procedure. The TCLP extract was provided for analysis.

Definitions - RL: Reporting Limit DF: Dilution factor

Qualifiers: ND: Not Detected at reporting limit C: CCV below acceptable Limits

J: Analyte detected below quantitation limit C+: CCV above acceptable Limits

B: Analyte detected in Blank S: LCS Spike recovery is below acceptable limits X: Exceeds maximum contamination limit S+: LCS Spike recovery is above acceptable limits

H: Hold time exceeded Z: Duplication outside acceptable limits

 $N: Matrix \ Spike \ below \ acceptable \ limits \\ T: Tentatively \ Identified \ Compound-Estimated$

N+: Matrix Spike is above acceptable limits E :Above quantitation range-Estimated

Note: All Results are reported as wet weight unless noted

The results relate only to the items tested. Information supplied by the client is assumed to be correct.

Adirondack Environmental Services, Inc

CLIENT: Paradigm Environmental LabWork Order: 220407062

Project: Analysis of Samples PO#:

Project# 221448

Lab SampleID: 220407062-001 **Collection Date:** 4/5/2022

Client Sample ID: 221448-01 Matrix: TCLP-EXTRACT

Client Sample ID: 221448-01			Ma	trix: TCLP-1	EXTRACT
Analyses	Result	RL Q	Qual Units	DF	Date Analyzed
TCLP HERBICIDES - EPA 8321B (Prep: SW3535A - 4/8/2022)				Analyst: KF
2,4,5-TP (Silvex)-TCLP	ND	0.050	mg/L	1	4/8/2022 4:40:17 PM
2,4-D-TCLP	ND	0.050	mg/L	1	4/8/2022 4:40:17 PM
Surr: Acifluorfen	108	52.5-128	%REC	1	4/8/2022 4:40:17 PM
Surr: DCAA	68.3	56.2-139	%REC	1	4/8/2022 4:40:17 PM

Date: 11-Apr-22

Page 3 of 3

CLIENT: Paradigm Environmental **Work Order:** 220407062

Analysis of Samples

Project:

ANALYTICAL QC SUMMARY REPORT

BatchID: 92617

MBLK	SeqNo: 3286649			PrepDate:4/8/2022	1/8/2022		TestN	TestNo: SW1311/832 1	/8321	RunNo:	205869	
	Samp ID: MB-92617			PrepRef:(SW3535A)	W3535A)		Units	Units: mg/L			4/8/2022	
Analyte		<u>Result</u>	<u>PQL</u>	SPK value SPk	SPK Ref Val	%REC	LowLimit H	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4,5-TF	2,4,5-TP (Silvex)-TCLP	ND	0.050									
2,4-D-TCLP	CLP	ND	0.050									
Surr: ,	Surr: Acifluorfen	0.2617	0.050	0.5	0	52.3	52.5	128	0	0		S
Surr: DCAA	DCAA	0.4708	0	0.5	0	94.2	56.2	139	0	0		
LCS	SeqNo: 3286650			PrepDate:4/8/2022	1/8/2022		TestN	TestNo: SW1311/832 1	/8321	RunNo:	205869	
	Samp ID: LCS-92617			PrepRef:(SW3535A)	W3535A)		Units	Units: mg/L			4/8/2022	
Analyte		<u>Result</u>	<u>PQL</u>	SPK value SPK	SPK Ref Val	%REC	<u>LowLimit</u> H	<u>HighLimit</u>	RPD Ref Val	%RPD	RPDLimit	Qual
2,4,5-TF	2,4,5-TP (Silvex)-TCLP	ND	0.050	0.05	0	69.2	57.6	128	0	0		
2,4-D-TCLP	OLP	0.05545	0.050	0.05	0	111	52	138	0	0		
Surr:	Surr: Acifluorfen	0.4473	0.050	0.5	0	89.5	52.5	128	0	0		
Surr: DCAA	DCAA	0.5311	0	0.5	0	106	56.2	139	0	0		
MS	SeqNo: 3286656			PrepDate:4/8/2022	1/8/2022		TestN	TestNo: SW1311/832 1	/8321	RunNo:	205869	
	Samp ID: 220407064-002			PrepRef:(SW3535A)	W3535A)		Units	Units: mg/L		Analysis Date: 4	4/8/2022	
Analyte		Result	<u>PQL</u>	SPK value SPK	SPK Ref Val	%REC	<u>LowLimit</u> H	<u>HighLimit</u>	RPD Ref Val	%RPD	RPDLimit	Qual
2,4,5-TF	2,4,5-TP (Silvex)-TCLP	ND	0.050	0.05	0	80.8	53.1	121	0	0		
2,4-D-TCLP	CLP	0.05093	0.050	0.05	0	102	57.3	136	0	0		
Surr:	Surr: Acifluorfen	0.6806	0.050	0.5	0	136	52.5	128	0	0		S
Surr: DCAA	DCAA	0.5793	0	0.5	0	116	56.2	139	0	0		
MSD	SeqNo: 3286657			PrepDate:4/8/2022	1/8/2022		TestN	TestNo: SW1311/832 1	/8321	RunNo:	205869	
	Samp ID: 220407064-002			PrepRef:(SW3535A)	W3535A)		Units	Units: mg/L	Ana	Analysis Date: 4	4/8/2022	
Analyte		Result	<u>PQL</u>	SPK value SPK	SPK Ref Val	%REC	<u>LowLimit</u> H	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4,5-TF	2,4,5-TP (Silvex)-TCLP	ND	0.050	0.05	0	37.9	53.1	121	0.04041	0	20.8	S
2,4-D-TCLP	CLP	ND	0.050	0.05	0	60.3	57.3	136	0.05093	0	20	
Surr:	Surr: Acifluorfen	0.3093	0.050	0.5	0	61.9	52.5	128	0	0	0	
Surr:	Surr: DCAA	0.3724	0	0.5	0	74.5	56.2	139	0	0	0	

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Page 1 of 1



220407062

CHAIN OF CUSTODY

2	220407062	CHAIN OF CUSTODY	ELAP ID: 1	3 of 24
PARADIGU	REPORT TO:	INVOICE TO:		
	COMPANY: Paradigm Environmental		LAB PROJECT #: CLIENT PROJECT	
	ADDRESS:	ADDRESS:		-mo -mo
	CITY: STATE:	ZIP: CITY: STATE:	ZIP: TURNAROUND TIME: (WORKING DAYS)	204
	PHONE: FAX:	PHONE: FAX:	STD	22
PROJECT NAME/SITE NAME:	ATTN: Reporting	ATTN: Accounts Payable	1 2 3 5	
	comments: Please email results	Please email results to reporting@paradigmenv.com) L. ()	
		REQUESTED ANALYSIS	Date Due: 1 / 1 / 0 or	
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DATE TIME O	A SAMPLE LOCATION/FIELD ID B	DO NO NO NO NO NO NO NO NO NO NO NO NO NO	REMARKS SAMP	PARADIGM LAB SAMPLE NUMBER
1 4/5/22 11:45	8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- 0 extract X	Sample Spun at	
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S.			Batch QC	
0				
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0				
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10				
LAB USE ONLY BELOW THIS LINE	Exx			
Receipt Parameter N	NELAC Compliance			
Container Ty	~ 	nt		
Commence.		Date/)	,
Preservation:	~	Relinquished By Date/Time	7 08:30	
Holding Time:	~ 	Received By West 1/22 Received By Date/Time	CYYY P.I.F.	
Comments: Temperature:	~	Received @ Lab/By Date/Time	4,00	L



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TERMS, CONDITIONS & LIMITATIONS

All service rendered by the **Adirondack Environmental Services**, **Inc**. are undertaken and all rates are based upon the following terms:

- (a) Neither Adirondack Environmental Services, Inc., nor any of its employees, agents or sub-contractors shall be liable for any loss or damage arising out of Adirondack Environmental Services, Inc.'s performance or nonperformance, whether by way of negligence or breach of contract, or otherwise, in any amount greater than twice the amount billed to the customer for the work leading to the claim of the customer. Said remedy shall be the sole and exclusive remedy against Adirondack Environmental Services, Inc. arising out of its work.
- (b) All claims made must be in writing within forty-five (45) days after delivery of the **Adirondack Environmental Services, Inc.** report regarding said work or such claim shall be deemed or irrevocably waived.
- (c) Adirondack Environmental Services, Inc. reports are submitted in writing and are for our customers only. Our customers are considered to be only those entities being billed for our services. Acquisition of an Adirondack Environmental Services, Inc. report by other than our customer does not constitute a representation of Adirondack Environmental Services, Inc. as to the accuracy of the contents thereof.
- (d) In no event shall Adirondack Environmental Services, Inc., its employees, agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.
- (e) No deviation from the terms set forth herein shall bind **Adirondack Environmental Services, Inc.** unless in writing and signed by a Director of **Adirondack Environmental Services, Inc.**
- (f) Results pertain only to items analyzed. Information supplied by client is assumed to be correct. This information may be used on reports and in calculations and **Adirondack Environmental Services, Inc.** is not responsible for the accuracy of this information.
- (g) Payments by Credit Card/Purchase Cards are subject to a 3% additional charge.



Analytical Report For

Inventum Engineering, P.C.

For Lab Project ID

221570

Referencing

ST23

Prepared

Wednesday, April 13, 2022

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

Emily farmen

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



Client: <u>Inventum Engineering, P.C.</u>

Project Reference: ST23

Sample Identifier: ST23-AQ-04082022

Lab Sample ID: 221570-01 **Date Sampled:** 4/8/2022 12:30

Matrix: Water Date Received 4/11/2022

Ammonia-N

Analyte Result Units Qualifier Date Analyzed

Ammonia **618** mg/L 4/11/2022

Method Reference(s): SM 4500 NH3 BH

Subcontractor ELAP ID: 11148

Flash Point

Analyte Result Units Qualifier Date Analyzed

Flash Point, Celsius >70.0 C 4/13/2022

Method Reference(s): EPA 1010A

ELAP does not offer this test for approval as part of their laboratory certification program.

Total Cyanide

Analyte Result Units Qualifier Date Analyzed

Cyanide, Total **0.769** mg/L 4/13/2022

Method Reference(s): SM 4500 CN E - 2016

SM 4500 CN C - 2016

Preparation Date: 4/13/2022



Method Blank Report

Client:

Inventum Engineering, P.C.

Project Reference:

ST23

Lab Project ID:

221570

Matrix:

Water

Total Cyanide

Analyte

Result

<u>Units</u>

Qualifier

Date Analyzed

Cyanide, Total

< 0.0100

mg/L

4/13/2022

Method Reference(s):

SM 4500 CN E - 2016

SM 4500 CN C - 2016

Preparation Date:

4/13/2022

QC Batch ID:

QC220413wtcn

QC Number:

Blk 1



QC Report for Laboratory Control Sample

Client: <u>Inventum Engineering, P.C.</u>

Project Reference: ST23

Lab Project ID: 221570

Water

Matrix:

Total Cyanide

Cyanide, Total **Analyte** Method Reference(s): SM 4500 CN E - 2016 Added 0.100<u>Spike</u> mg/L Units <u>Spike</u> 0.0957 Result LCS Recovery 95.7 LCS % 85 - 115 Limits % Rec **Outliers LCS** 4/13/2022 <u>Analyzed</u> Date

QC Number: 1
QC Batch ID: QC220413wtcn

Preparation Date:

4/13/2022

SM 4500 CN C - 2016

compliance with the sample condition requirements upon receipt. 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



Analytical Report Appendix

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

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

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.
- "H" = Denotes a parameter analyzed outside of holding time.
- "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.
- "I" = 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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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.

S)

CHAIN OF CUSTODY

10 day Rush 3 day Rush 2 day	Turnaround Time Availability conti	DATE COLLECTED CO	PROJECT	PARA
Batch QC Category A Category B	ime contingent upon lab app None Required	TIME COLLECTED O R O A B W G R A A A A A B B A B A B COLLECTED COL	PROJECT REFERENCE	PARADIGM
Basic EDD NYSDEC EDD X	around Time Report Supplements Availability contingent upon lab approval; additional fees may apply. None Required None Required	SAMPLE IDENTIFIER \$723 - AQ - 04082022	0 = A	MENTUM ENGINEERIA APPENDICIONE MERNON WATER 2017EC PHONE: 85-734-5255
Received @ Lab By Dat	Sampled By	X-R-ABE WINDOO TO RINGELY WATEL A - NOO FLASHPOINT AMMONIA TOTAL CY	nking Water	CLIENT MENTALM ADDRESS: CITY: PHONE:
Date/Time 13 14/8/22 16:25 Date/Time 13	ammenia to sout Lest	REMARKS	iL - Sludge PT -	ZIP:
P.F.	Total Cost:	PARADIGM LAB SAMPLE NUMBER	Solid WP-Wipe OL-Oil Paint CK-Caulk AR-Air	LAB PROJECT ID A 157 () Quotation #: Email: Brail: Brail: Brail: Control Brail: Contro

lease indicate date needed:

please indicate package needed:

please indicate EDD needed :

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

See additional page for sample conditions.





Chain of Custody Supplement

Client:	Inventum	Completed by:	Myllan
Lab Project ID:	221570	Date:	4/11/22
		dition Requirements AP 210/241/242/243/244	
Condition	NELAC compliance with the san Yes	nple condition requirements u No	pon receipt N/A
Container Type			
Comments			
Transferred to method- compliant container			
Headspace (<1 mL) Comments			
Preservation Comments	TCA		Flash
Chlorine Absent (<0.10 ppm per test strip) Comments			
Holding Time Comments			
	-		
Temperature Comments	4°cial		
Compliant Sample Quantity/T			
Comments	Ammonia sent	dudy fest 1	o t