Keith Vanstrom
Water Resource Manager
Jamestown Board of Public Utilities
PO Box 700
Jamestown, NY 14702-0700

Arcadis of New York, Inc.
201 Fuller Road
Suite 201
Albany
New York 12203
Tel 518 250 7352
www.arcadis.com

Subject:
December 2023 Reporting Period - Industrial Wastewater Discharge Monitoring Report, Industrial Wastewater Discharge Permit No. 037
Former D.C. Rollforms Site, 583 Allen Street, Jamestown, NY

ENVIRONMENT

Date:
January 28, 2024

Contact:
Todd Carignan

Phone:
518.250.7352

Email:
Todd.carignan@arcadis.com

Our ref:
30174313

Dear Mr. Vanstrom:

Pursuant to the Industrial Wastewater Discharge Permit for the former D.C. Rollforms Site (Permit No. 037), Arcadis, on behalf of Trane Technologies, is submitting this report summarizing the discharge monitoring activities related to the operation of the groundwater collection and treatment system at the former D.C. Rollforms Site located at 583 Allen Street in Jamestown, New York.

Groundwater Treatment System Summary

The groundwater collection and treatment system is currently operating to remediate groundwater at the former D.C. Rollforms Site. System analytical results and flows that were recorded during reporting period are summarized below.

Sample Collection and Analysis

Routine system effluent samples collected during the reporting period are summarized below. On December 12, 2023, a sample collection event was performed, as required by the discharge permit. Sampling consisted of the collection of four (4) grab samples during a typical production day for analysis of volatile organic compounds (VOCs) using United States Environmental Protection Agency (USEPA) Method 624, oil and grease (O&G) using USEPA Method 1664A, total suspended solids (TSS) using USEPA Method 2540D, and polychlorinated biphenyls (PCBs) using USEPA Method 608. The system effluent samples were collected from sample port SP-702, located post the air stripper unit liquid discharge point.

The VOCs, PCB, O&G, and TSS analysis was performed by SGS North America, Inc. laboratory located in Dayton, New Jersey. The sample collection field log (Attachment A) and laboratory analysis with the chain-of-custody (Attachment B) are attached.

Analytical Data Summary

All analytes were either non-detect or below the local discharge limits as set forth by the Permit. The laboratory analytical results are summarized in the table below.

Analysis	Local Discharge Limit	Sample ID			
		Effluent 1	Effluent 2	Effluent 3	Effluent 4
		Results			
pH (S.U.)	5.5-10.0	8.3	8.5	8.8	8.9
Oil & Grease (mg/L)	100	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
TSS (mg/L)	350	<4.0			
Total VOC (mg/L)	2.13	0.71 J			
PCB (mg/L)	ND	ND (<0.000050)			

Table Definitions:
Units – mg/L, milligram per liter unless otherwise noted.
B – Concentration detected in the laboratory method blank.
J – Estimated concentration.
NA – Sample lost/broken during shipping or by laboratory, and/or insufficient volume, therefore not analyzed.
ND – Non-detect, less than the laboratory method detection limits.
< - Less than the laboratory reporting limits.
TSS, Total VOC, and PCB samples are composited by the laboratory.

System Flow Measurements

The flow for the reporting period was 10,375 gallons, which corresponds to an approximate average flowrate of approximately 0.3 gallons per minute. As of December 12, 2023, the system has treated a total cumulative flow of 23,679,615 gallons.

Certification

On behalf of Trane Technologies, Arcadis certifies under penalty of law that this document and all attachments were prepared under Arcadis' direction of supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on Arcadis' inquiry of the person or persons who manage the system, or those Persons directly responsible for gathering the information, the information submitted is, to the best of Arcadis' knowledge and belief, true, accurate, and complete. Arcadis is aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations.

Should there be any unanticipated delay in receiving the analytical results, we will advise your office accordingly. If you have any questions, please contact me at (518) 250-7352.

Sincerely,

Arcadis of New York, Inc.

Todd Carignan
Project Engineer

Copies:
Michael Goldstein, Trane Technologies
Megan Kuczka, NYSDEC

Enclosures:

Attachments

A. Sample Collection Field Log

B. Laboratory Analytical Report

ATTACHMENT A

Sampling Collection Field Log

JAMESTOWN BPU POTW
MONTHLY SELF MONITORING REPORT SAMPLE COLLECTION FIELD LOG

Permit Number: 037

Company: Trane Technologies
Address: 583 Allen Street
Jamestown, New York 14701

SIC: Groundwater Remediation

Sample Location: System Effluent

Type of Sample: Grab

Flow Measuring Method: Signet 2537 Paddlewheel Flowmeter

Sampler(s): AJS, BKW

Date: 12/12/2023

COLLECTION DATA

Sample Interval: Approx. 0.4 hour

Sample ID	Grab Sample Date/Time	Sample Interval (hr:m)	Totalizer (gallons)[2]	Total Flow (gallons)[2]	Average Flowrate (gpm)[2]	pH[1]
Effluent 1	12/12/23 8:25 AM	-	23,679,064	-	-	8.3
Effluent 2	12/12/23 8:50 AM	0:25	23,679,328	264	10.6	8.5
Effluent 3	12/12/23 12:50 PM	4:00	23,679,448	120	0.5	8.8
Effluent 4	12/12/23 1:10 PM	0:20	23,679,615	167	8.3	8.9

Observations

Water Discharge Appearance: Clear, yellow tint

Notes:

1. pH Meter Make/Model - Hanna Model # 98103

2. Flowmeter malfunction during the reporting period. The flowmeter was functional upon departure.

ATTACHMENT B

Laboratory Analytical Report

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Arcadis

DC Rollforms, 583 Allen Street, Jamestown, NY

30174313

SGS Job Number: JD78750

Sampling Date: 12/12/23

Report to:

Arcadis U.S., Inc.
855 Route 146 Suite 210
Clifton Park, NY 12065
Todd.Carignan@arcadis.com; Ben.Girard@Arcadis.com;
Kenneth.Varley@Arcadis.com; marie.meidhof@sgs.com;
ATTN: Todd Carignan

Total number of pages in report: 21

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

David Chastain
General Manager

Client Service contact: Marie Meidhof 732-329-0200
Certifications: NJ(12129),NY(10983),CA,CO,CT,FL,HI,IL,IN,KY,LA (120428),MA,MD,ME,MN,NC,NH,NV, AK (UST-103),AZ (AZ0786),PA(68-00408),RI,SC,TX (T104704234),UT,VA,WA,WV

Table of Contents

SGS North America Inc.

Sample Summary

Arcadis

Job No: JD78750

DC Rollforms, 583 Allen Street, Jamestown, NY
Project No: 30174313

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
This report contains results reported as ND = Not detected. The following applies: Organics ND = Not detected above the MDL							
JD78750-1	12/12/23	08:25	AJS	12/13/23	AQ	Effluent	EFFLUENT #1
JD78750-2	12/12/23	08:50	AJS	12/13/23	AQ	Effluent	EFFLUENT #2
JD78750-3	12/12/23	12:50	AJS	12/13/23	AQ	Effluent	EFFLUENT #3
JD78750-4	12/12/23	13:10	AJS	12/13/23	AQ	Effluent	EFFLUENT #4
JD78750-5	12/12/23	13:10	AJS	12/13/23	AQ	Effluent	EFFLUENT #1-4 COMPOSITE
JD78750-6	12/12/23	13:10		12/13/23	AQ	Trip Blank Water	TRIP BLANK

Summary of Hits

Job Number: JD78750
Account: Arcadis
Project: DC Rollforms, 583 Allen Street, Jamestown, NY
Collected: 12/12/23

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD78750-1	**EFFLUENT #1**					
No hits reported in this sample.						
JD78750-2	**EFFLUENT #2**					
No hits reported in this sample.						
JD78750-3	**EFFLUENT #3**					
No hits reported in this sample.						
JD78750-4	**EFFLUENT #4**					
No hits reported in this sample.						
JD78750-5	**EFFLUENT #1-4 COMPOSITE**					
cis-1,2-Dichloroethene [a]		0.71 J	1.0	0.51	ug/l	EPA 624.1
JD78750-6	**TRIP BLANK**					
No hits reported in this sample.						

(a) Results reported from the HCl preserved sample. The reported result for acrolein is for screening only and cannot be used for compliance purposes.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	EFFLUENT #1		
Lab Sample ID:	JD78750-1	**Date Sampled:**	12/12/23
Matrix:	AQ - Effluent	**Date Received:**	12/13/23
		Percent Solids:	n/a
Project:	DC Rollforms, 583 Allen Street, Jamestown, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
HEM Oil and Grease	< 5.0	5.0	mg/l	1	12/15/23 18:00	AS	EPA 1664A

RL = Reporting Limit

Report of Analysis

Client Sample ID:	EFFLUENT #2		
Lab Sample ID:	JD78750-2	**Date Sampled:**	12/12/23
Matrix:	AQ - Effluent	**Date Received:**	12/13/23
		Percent Solids:	n/a
Project:	DC Rollforms, 583 Allen Street, Jamestown, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
HEM Oil and Grease	< 5.0	5.0	mg/l	1	12/15/23 18:00	AS	EPA 1664A

RL = Reporting Limit

Report of Analysis

Client Sample ID:	EFFLUENT #3		
Lab Sample ID:	JD78750-3	**Date Sampled:**	12/12/23
Matrix:	AQ - Effluent	**Date Received:**	12/13/23
		Percent Solids:	n/a
Project:	DC Rollforms, 583 Allen Street, Jamestown, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
HEM Oil and Grease	< 5.0	5.0	mg/l	1	12/15/23 18:00	AS	EPA 1664A

RL = Reporting Limit

Report of Analysis

Client Sample ID:	EFFLUENT #4		
Lab Sample ID:	JD78750-4	**Date Sampled:**	12/12/23
Matrix:	AQ - Effluent	**Date Received:**	12/13/23
		Percent Solids:	n/a
Project:	DC Rollforms, 583 Allen Street, Jamestown, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
HEM Oil and Grease	< 5.0	5.0	mg/l	1	12/15/23 18:00	AS	EPA 1664A

RL = Reporting Limit

Report of Analysis

Client Sample ID:	EFFLUENT #1-4 COMPOSITE		
Lab Sample ID:	JD78750-5	**Date Sampled:**	12/12/23
Matrix:	AQ - Effluent	**Date Received:**	12/13/23
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	DC Rollforms, 583 Allen Street, Jamestown, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L361459.D	1	12/15/23 05:33	LD	n/a	n/a	VL11014
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	10	3.7	ug/l	
107-13-1	Acrylonitrile	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	1.0	0.71	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.94	ug/l	
75-25-2	Bromoform	ND	1.0	0.60	ug/l	
74-83-9	Bromomethane	ND	1.0	0.87	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.87	ug/l	
75-00-3	Chloroethane	ND	1.0	0.54	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.78	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.98	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.91	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.69	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.96	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.45	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.71	1.0	0.51	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.46	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.96	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.93	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.84	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.41	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.73	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.77	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.43	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EFFLUENT #1-4 COMPOSITE		
Lab Sample ID:	JD78750-5	**Date Sampled:**	12/12/23
Matrix:	AQ - Effluent	**Date Received:**	12/13/23
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	DC Rollforms, 583 Allen Street, Jamestown, NY		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.76	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	93%		80-128%
2037-26-5	Toluene-D8 (SUR)	100%		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	84%		79-117%
1868-53-7	Dibromofluoromethane (S)	114%		84-121%

(a) Results reported from the HCl preserved sample. The reported result for acrolein is for screening only and cannot be used for compliance purposes.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EFFLUENT #1-4 COMPOSITE		
Lab Sample ID:	JD78750-5	**Date Sampled:**	12/12/23
Matrix:	AQ - Effluent	**Date Received:**	12/13/23
Method:	EPA 608.3 EPA 608	**Percent Solids:**	n/a
Project:	DC Rollforms, 583 Allen Street, Jamestown, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2509109.D	1	12/21/23 02:07	CP	12/20/23 09:30	OP51295A	GXX8402
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.050	0.034	ug/l	
11104-28-2	Aroclor 1221	ND	0.050	0.029	ug/l	
11141-16-5	Aroclor 1232	ND	0.050	0.020	ug/l	
53469-21-9	Aroclor 1242	ND	0.050	0.027	ug/l	
12672-29-6	Aroclor 1248	ND	0.050	0.025	ug/l	
11097-69-1	Aroclor 1254	ND	0.050	0.034	ug/l	
11096-82-5	Aroclor 1260	ND	0.050	0.027	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	93%		10-156%
877-09-8	Tetrachloro-m-xylene	67%		10-156%
2051-24-3	Decachlorobiphenyl	30%		10-143%
2051-24-3	Decachlorobiphenyl	31%		10-143%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EFFLUENT #1-4 COMPOSITE		
Lab Sample ID:	JD78750-5	**Date Sampled:**	12/12/23
Matrix:	AQ - Effluent	**Date Received:**	12/13/23
		Percent Solids:	n/a
Project:	DC Rollforms, 583 Allen Street, Jamestown, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Total Suspended	< 4.0	4.0	mg/l	1	12/14/23 17:21	AS	SM2540 D-11/15

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JD78750-6	**Date Sampled:**	12/12/23
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/13/23
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	DC Rollforms, 583 Allen Street, Jamestown, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L361456.D	1	12/15/23 04:23	LD	n/a	n/a	VL11014
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	10	3.7	ug/l	
107-13-1	Acrylonitrile	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	1.0	0.71	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.94	ug/l	
75-25-2	Bromoform	ND	1.0	0.60	ug/l	
74-83-9	Bromomethane	ND	1.0	0.87	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.87	ug/l	
75-00-3	Chloroethane	ND	1.0	0.54	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.78	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.98	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.91	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.69	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.96	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.45	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.46	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.96	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.93	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.84	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.41	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.73	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.77	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.43	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JD78750-6	**Date Sampled:**	12/12/23
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/13/23
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	DC Rollforms, 583 Allen Street, Jamestown, NY		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.76	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	95%		80-128%
2037-26-5	Toluene-D8 (SUR)	100%		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	86%		79-117%
1868-53-7	Dibromofluoromethane (S)	115%		84-121%

(a) Results reported from the HCl preserved sample. The reported result for acrolein is for screening only and cannot be used for compliance purposes.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

SGS GW TB

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200
www.sgs.com/ehsusa

GW Comp

FED-EX Tracking #: 7003 7833 2590 | Bottle Order Control #: MM-103123-120
SGS Quote # | SGS Job #: JD78750

Client / Reporting Information
Company Name: ARCADIS
Street Address: 855 Route 146, Suite 210
City: Clifton Park, State: NY, Zip:
Project Contact: Todd Carignan, E-mail:
Phone #: 646-748-4208
Sampler(s) Name(s): A. Svensson, Phone #: 716-407-9063

Project Information
Project Name: IR DC ROLLFORMS
Street: 583 Allen ST
City: Jamestown, State: NY
Project #: 30174313
Client Purchase Order #:
Project Manager:

Billing Information (If different from Report to): Company Name, Street Address, City, State, Zip, Attention:

Analyses: HEM OIL & GREASE 1664A; VOCs USEPA 624.1; PCBs USEPA 608; TSS USEPA 160.2

Matrix Codes: DW - Drinking Water, GW - Ground Water, WW - Water, SW - Surface Water, SO - Soil, SL- Sludge, SED-Sediment, OI - Oil, LIQ - Other Liquid, AIR - Air, SOL - Other Solid, WP - Wipe, FB - Field Blank, EB-Equipment Blank, RB - Rinse Blank, TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Date	Time	Sampled by	Grab (G) Comp (C)	Source Chlorinated (Y/N)	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	HEM Oil & Grease 1664A	VOCs USEPA 624.1	PCBs USEPA 608	TSS USEPA 160.2	LAB USE ONLY
1	EFFLUENT #1		12/12/23	0825	AJS	G	N	GW	9	5				4				2	3	2	2	
2	EFFLUENT #2		12/12/23	0850	AJS	G	N	GW	9	5				4				2	3	2	2	
3	EFFLUENT #3		12/12/23	1250	AJS	G	N	GW	9	5				4				2	3	2	2	
4	EFFLUENT #4		12/12/23	1310	AJS	G	N	GW	9	5				4				2	3	2	2	
5	EFFLUENT #1-4 Composite		12/12/23	—	AJS	C	N	GW	9	—				—				0	X	X	X	
6	TRIP BLANK		11/6/23	0600	—	G	N	TB	2	2				0				0	2	0	0	

pH Check (Lab Use Only)

Ref: MM-103123-120 Date: 06Nov23 SHIPPING: 0.00
Dep: Wgt: 16.15 LBS SPECIAL: 0.00
HANDLING: 0.00
DV: 0.00 TOTAL: 0.00
PRIORITY OVERNIGHT Master 7003 7833 2590
TRCK: 7003 7833 2605

Ref: MM-103123-120 Date: 06Nov23 SHIPPING: 0.00
Dep: Wgt: 16.15 LBS SPECIAL: 0.00
HANDLING: 0.00
DV: 0.00 TOTAL: 0.00
PRIORITY OVERNIGHT Master 7003 7833 2590
TRCK: 7003 7833 2590

Turn Around Time (Business Days) — Approved By (SGS PM) / Date:
- ☐ 10 Business Days
- ☐ 5 Business Days
- ☐ 3 Business Days*
- ☐ 2 Business Days*
- ☐ 1 Business Day*
- ☒ Other Standard

All data available via SGS Engage
* Approval needed for 1-3 BD TAT

Deliverable
- ☐ Commercial "A" (Level 1)
- ☐ Commercial "B" (Level 2)
- ☐ NJ Reduced (Level 3)
- ☐ Full Tier I (Level 4)
- ☐ Commercial "C"
- ☐ NJ DKQP
- ☒ NYASP Category A
- ☐ NYASP Category B
- ☐ MA MCP Criteria
- ☐ CT RCP Criteria
- ☐ State Forms
- ☒ EDD Format NYSDEC EQuIS

Commercial "A" = Results only, Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions
EFFLUENT #1-4 composite sample to be made from EFFLUENT #1, #2, #3 and #4 samples
December 2023 monthly
2-coolers

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1 [signature]	12/12/23 1500	1 FEDEX	2 FEDEX	12/13/23 11:00	2 [signature]
3		3	4		4
5		5	Custody Seal #	☐ Intact ☐ Not intact ☐ Absent	Therm ID: On Ice ☒ Cooler Temp. °C 1.5, 1.9 cf, RUO

See Sample Receipt Summary

EHSA-QAC-0023-05 Rev.Date:8/5/22

4.1 4

JD78750: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: JD78750 **Client:** ARCADIS U.S., INC. **Project:** DC ROLLFORMS, JAMESTOWN, NY, OR

Date / Time Received: 12/13/2023 11:00:00 AM **Delivery Method:** FEDEX **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (1.3); Cooler 2: (1.4);

Cooler Temps (Corrected) °C: Cooler 1: (1.3); Cooler 2: (1.4);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	2		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JD78750: Chain of Custody
Page 2 of 2

Internal Sample Tracking Chronicle

Arcadis

Job No: JD78750

DC Rollforms, 583 Allen Street, Jamestown, NY
Project No: 30174313

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD78750-1	Collected: 12-DEC-23 08:25 By: AJS		Received: 13-DEC-23 By: HR			
EFFLUENT #1						
JD78750-1	EPA 1664A	15-DEC-23 18:00	AS	15-DEC-23	AS	OG1664
JD78750-2	Collected: 12-DEC-23 08:50 By: AJS		Received: 13-DEC-23 By: HR			
EFFLUENT #2						
JD78750-2	EPA 1664A	15-DEC-23 18:00	AS	15-DEC-23	AS	OG1664
JD78750-3	Collected: 12-DEC-23 12:50 By: AJS		Received: 13-DEC-23 By: HR			
EFFLUENT #3						
JD78750-3	EPA 1664A	15-DEC-23 18:00	AS	15-DEC-23	AS	OG1664
JD78750-4	Collected: 12-DEC-23 13:10 By: AJS		Received: 13-DEC-23 By: HR			
EFFLUENT #4						
JD78750-4	EPA 1664A	15-DEC-23 18:00	AS	15-DEC-23	AS	OG1664
JD78750-5	Collected: 12-DEC-23 13:10 By: AJS		Received: 13-DEC-23 By: HR			
EFFLUENT #1-4 COMPOSITE						
JD78750-5	SM2540 D-11/15	14-DEC-23 17:21	AS			TSS
JD78750-5	EPA 624.1	15-DEC-23 05:33	LD			V624PPL
JD78750-5	EPA 608.3	21-DEC-23 02:07	CP	20-DEC-23	AG	P608PCBLL
JD78750-6	Collected: 12-DEC-23 13:10 By:		Received: 13-DEC-23 By: HR			
TRIP BLANK						
JD78750-6	EPA 624.1	15-DEC-23 04:23	LD			V624PPL

SGS Internal Chain of Custody

Job Number: JD78750
Account: AGMNYA Arcadis
Project: DC Rollforms, 583 Allen Street, Jamestown, NY
Received: 12/13/23

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD78750-1.1	Suresh Patel	Secured Storage	12/13/23 17:41	Return to Storage
JD78750-1.2	Suresh Patel	Secured Storage	12/13/23 17:41	Return to Storage
JD78750-1.2	Secured Storage	Todd Shoemaker	12/14/23 12:00	Retrieve from Storage
JD78750-1.2	Todd Shoemaker	Secured Staging Area	12/14/23 12:01	Return to Storage
JD78750-1.2	Secured Staging Area	Arunna Sabapathy	12/14/23 19:13	Retrieve from Storage
JD78750-1.2	Arunna Sabapathy	Secured Storage	12/14/23 19:43	Return to Storage
JD78750-2.1	Suresh Patel	Secured Storage	12/13/23 17:41	Return to Storage
JD78750-2.2	Suresh Patel	Secured Storage	12/13/23 17:41	Return to Storage
JD78750-2.2	Secured Storage	Todd Shoemaker	12/14/23 12:00	Retrieve from Storage
JD78750-2.2	Todd Shoemaker	Secured Staging Area	12/14/23 12:01	Return to Storage
JD78750-2.2	Secured Staging Area	Arunna Sabapathy	12/14/23 19:13	Retrieve from Storage
JD78750-2.2	Arunna Sabapathy	Secured Storage	12/14/23 19:43	Return to Storage
JD78750-3.1	Suresh Patel	Secured Storage	12/13/23 17:41	Return to Storage
JD78750-3.1	Secured Storage	Todd Shoemaker	12/14/23 12:00	Retrieve from Storage
JD78750-3.1	Todd Shoemaker	Secured Staging Area	12/14/23 12:01	Return to Storage
JD78750-3.1	Secured Staging Area	Arunna Sabapathy	12/14/23 19:13	Retrieve from Storage
JD78750-3.1	Arunna Sabapathy	Secured Storage	12/14/23 19:43	Return to Storage
JD78750-3.2	Suresh Patel	Secured Storage	12/13/23 17:41	Return to Storage
JD78750-4.1	Suresh Patel	Secured Storage	12/13/23 17:41	Return to Storage
JD78750-4.1	Secured Storage	Todd Shoemaker	12/14/23 12:00	Retrieve from Storage
JD78750-4.1	Todd Shoemaker	Secured Staging Area	12/14/23 12:01	Return to Storage
JD78750-4.1	Secured Staging Area	Arunna Sabapathy	12/14/23 19:13	Retrieve from Storage
JD78750-4.1	Arunna Sabapathy	Secured Storage	12/14/23 19:43	Return to Storage
JD78750-4.2	Suresh Patel	Secured Storage	12/13/23 17:41	Return to Storage
JD78750-5.1	Dave Hunkele	Secured Storage	12/14/23 13:26	Return to Storage
JD78750-5.1	Secured Storage	Aleandi Rodriguez	12/19/23 23:18	Retrieve from Storage
JD78750-5.1	Aleandi Rodriguez	Secured Staging Area	12/19/23 23:18	Return to Storage
JD78750-5.1	Secured Staging Area	Naisha Torres	12/20/23 06:49	Retrieve from Storage
JD78750-5.1	Naisha Torres		12/21/23 10:58	Depleted
JD78750-5.1.1	Naisha Torres	Organics Prep	12/20/23 07:03	Extract from JD78750-5.1
JD78750-5.1.1	Organics Prep	Ellen Dondeo	12/20/23 19:30	Extract from JD78750-5.1
JD78750-5.1.1	Ellen Dondeo	Extract Storage	12/20/23 19:30	Return to Storage
JD78750-5.1.1	Extract Storage	Christine Phillips	12/21/23 01:23	Retrieve from Storage
JD78750-5.1.1	Christine Phillips	GCXX	12/21/23 01:23	Load on Instrument

SGS Internal Chain of Custody

Job Number: JD78750
Account: AGMNYA Arcadis
Project: DC Rollforms, 583 Allen Street, Jamestown, NY
Received: 12/13/23

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD78750-5.1.2	Naisha Torres	Organics Prep	12/20/23 08:28	Extract from JD78750-5.1
JD78750-5.2	Dave Hunkele	Secured Storage	12/14/23 13:26	Return to Storage
JD78750-5.3	Dave Hunkele	Secured Storage	12/14/23 13:26	Return to Storage
JD78750-5.4	Dave Hunkele	Secured Storage	12/14/23 13:26	Return to Storage
JD78750-5.4	Secured Storage	Arunna Sabapathy	12/14/23 15:03	Retrieve from Storage
JD78750-5.4	Arunna Sabapathy	Secured Storage	12/14/23 18:59	Return to Storage
JD78750-5.9	Haleigh Rosado	Secured Storage	12/13/23 16:59	Return to Storage
JD78750-5.9	Secured Storage	Dave Hunkele	12/14/23 13:25	Retrieve from Storage
JD78750-5.9	Dave Hunkele	Secured Storage	12/14/23 13:25	Return to Storage
JD78750-5.10	Haleigh Rosado	Secured Storage	12/13/23 16:59	Return to Storage
JD78750-5.10	Secured Storage	Dave Hunkele	12/14/23 13:25	Retrieve from Storage
JD78750-5.10	Dave Hunkele	Secured Storage	12/14/23 13:25	Return to Storage
JD78750-5.11	Haleigh Rosado	Secured Storage	12/13/23 16:59	Return to Storage
JD78750-6.1	Suresh Patel	Secured Storage	12/13/23 17:39	Return to Storage
JD78750-6.2	Suresh Patel	Secured Storage	12/13/23 17:39	Return to Storage
JD78750-6.2	Nicholas Weigand	GCMSL	12/14/23 15:55	Load on Instrument
Analyst chain of custody update error.				
JD78750-6.2	GCMSL	Nicholas Weigand	12/15/23 13:53	Unload from Instrument
JD78750-6.2	Nicholas Weigand	Secured Storage	12/15/23 13:53	Return to Storage