

SAMPLING TRIP REPORT

SITE NAME: PFAS and 1,4-dioxane at Fulton Ave, Liberty Industrial Finishing, & New Cassel Sites
CERCLIS ID NUMBER: N/A
SAMPLING DATE: 13-15 November 2018
CLP CASE NUMBER: None
SITE LOCATION: Long Island, New York
SAMPLE CRITERIA: Samples are provided to New York State for their analyses and actions as required.

1. Laboratories Receiving Samples:

Sample Type	Site/Number of Samples	Name and Address of Laboratory
Ground Water – PFAS standard 21+ list	Fulton Ave: 6	Test America 30 Community Drive Suite 11 South Burlington, VT
	Liberty Industrial Finishing: 6	
	New Cassel: 6	
Ground Water – 1,4-Dioxane	Fulton Ave: 6	Test America 777 New Durham Rd Edison, NJ
	Liberty Industrial Finishing: 6	
	New Cassel: 6	

2. Sample Dispatch Data:

The total number of samples delivered to the laboratory were 18 with a volume of 500 ml per sample per analysis. Of the 18 samples delivered to the laboratory, 14 were groundwater samples, 3 were duplicate samples, and three were equipment rinsate blank samples. The six samples from both Fulton Ave and Liberty Industrial Finishing sites were picked up from the EPA field team by Test America Laboratory's courier and delivered to the lab. The six samples from New Cassel were hand delivered to Test America Laboratory in Edison, NJ by the EPA field team for processing. All samples were collected using GeoInsight's PFAS free, high-density polyethylene HydraSleeves.

On 13 November 2018, the field team consisting of EPA Region II DESA-HWSB-SST personnel Michael A. Mercado, Charren Cabaroy, and Graham Ellison traveled to the Fulton Ave site. At the site, four monitoring wells were identified for sample collection. The wells identified were: GCP04, GCP08, DSB-02RS, and MW-15A. Rust was evident in MW-15A as the bag contained a few very small holes, possibly from the rusted well casing. The sampling team was able to collect the sample volume needed by changing the bag and lowering it into the well a second time. Samples were collected from all four identified wells, along with the equipment rinsate blank sample (RB-1) for Fulton Ave Site. MW-15A was selected for the matrix spike/matrix spike duplicate analyses (MS/MSD). A duplicate sample was collected from monitoring well GCP08 and was named GCP08D. All samples were placed on ice and secured overnight.

On the morning of 14 November 2018, the field team collected samples from MW-4A, MW-7A, MW-9A, and MW-11C, along with the equipment rinsate blank sample (RB-2) from the Liberty Industrial Finishing Site. MW-11C was selected for the matrix spike/matrix spike duplicate analyses (MS/MSD). A duplicate sample was collected from monitoring well MW-7A and was named MW-7AD.

During the afternoon of 14 Nov 2018, the field team collected samples from MW-4, MW-11D, MW-14, and OU3-MW3, along with the equipment rinsate blank sample (RB-3) from the New Cassel Site. MW-11D was selected for the matrix spike/matrix spike duplicate analyses. A duplicate sample was collected from monitoring well MW-4 and was named MW-4D.

All samples collected on 13 Nov 2018 from the Fulton Ave Site and samples collected in the morning of 14 Nov 2018 from Liberty Industrial Finishing Site were provided to Test America Laboratory's courier in four coolers, to accommodate the two lab facilities involved (VT and NJ). Two coolers contained samples for PFAS analyses and the other two for 1,4-Dioxane analysis. All samples were placed on ice and tagged. A completed chain of custody accompanied each cooler. (See Attachment 1 for copies of all Chain of Custody forms). Samples collected from the New Cassel Site in the afternoon of 14 Nov 2018 were placed on ice and secured overnight.

On 15 November 2018, samples collected from the New Cassel Site were transported by the EPA field team to the Test America Laboratory in Edison, NJ in two coolers, to accommodate the two lab facilities involved (VT and NJ). One cooler contained samples for PFAS analyses intended for the Test America Laboratory in Burlington, VT and one other for 1,4-Dioxane analysis by the Edison, NJ laboratory. All samples were placed on ice and tagged. A completed chain of custody accompanied each cooler. (See Attachment 1 for copies of all Chain of Custody forms).

3. Sampling Personnel:

Name	Organization	Site Duties
Michael A. Mercado	USEPA Region II DESA/HWSB	Project Manager/Sample Management
Graham Ellison	USEPA Region II DESA/HWSB	Field Personnel
Charren Cabaroy	USEPA Region II DESA/HWSB	Field Personnel
Amelia Jackson	USEPA Region II DESA/HWSB	Quality Assurance Officer

4. Sample Descriptions:

CLP Sample#	Tag#	Sample Location	DTG	Analysis	Laboratory	Remarks
Fulton Ave Site						
BE9N0	FA-1-P	RB-1	13NOV18/2030	PFAS	TestAmerica	Rinsate Blank
	FA-1-D			1,4-Dioxane		
BEC28	FA-6-P	DSB-02RS	13NOV18/1500	PFAS	TestAmerica	Downgradient well
	FA-6-D			1,4-Dioxane		
BEC29	FA-2-P	GCP04	13NOV18/1610	PFAS	TestAmerica	Background well
	FA-2-D			1,4-Dioxane		
BEC30	FA-3-P	GCP08	13NOV18/1420	PFAS	TestAmerica	Downgradient well
	FA-3-D			1,4-Dioxane		
BEC31	FA-4-P	GCP08D	13NOV18/1420	PFAS	TestAmerica	Duplicate of GCP08 downgradient well
	FA-4-D			1,4-Dioxane		
BEC32	FA-5-P	MW-15A	13NOV18/1400	PFAS	TestAmerica	Downgradient well MS/MSD
	FA-5-D			1,4-Dioxane		

Liberty Industrial Finishing						
BE9M9	LF-1-P	RB-2	13NOV18/2030	PFAS	TestAmerica	Rinsate Blank
	LF-1-D			1,4-Dioxane		
BEC23	LF-2-P	MW-4A	14NOV18/0915	PFAS	TestAmerica	Background well
	LF-2-D			1,4-Dioxane		
BEC24	LF-3-P	MW-7A	14NOV18/0945	PFAS	TestAmerica	On-site well
	LF-3-D			1,4-Dioxane		
BEC25	LF-4-P	MW-7AD	14NOV18/0945	PFAS	TestAmerica	Duplicate of MW-7A on-site well
	LF-4-D			1,4-Dioxane		
BEC26	LF-5-P	MW-11C	14NOV18/1015	PFAS	TestAmerica	Downgradient well and MS/MSD
	LF-5-D			1,4-Dioxane		
BEC27	LF-6-P	MW-9A	14NOV18/1045	PFAS	TestAmerica	Downgradient well
	LF-6-D			1,4-Dioxane		
New Cassel Site						
BE9M8	NC-1-P	RB-3	13NOV18/2030	PFAS	TestAmerica	Rinsate Blank
	NC-1-D			1,4-Dioxane		
BEC18	NC-6-P	MW-14	14NOV18/1550	PFAS	TestAmerica	Background well
	NC-6-D			1,4-Dioxane		
BEC19	NC-2-P	MW-4	14NOV18/1320	PFAS	TestAmerica	On-site well
	NC-2-D			1,4-Dioxane		
BEC20	NC-3-P	MW-4D	14NOV18/1320	PFAS	TestAmerica	Duplicate of MW-4 on-site well
	NC-3-D			1,4-Dioxane		
BEC21	NC-4-P	MW-11D	14NOV18/1515	PFAS	TestAmerica	Downgradient well and MS/MSD
	NC-4-D			1,4-Dioxane		
BEC22	NC-5-P	OU3-MW3	14NOV18/1635	PFAS	TestAmerica	Downgradient well
	NC-5-D			1,4-Dioxane		

5. Additional Comments:

A total of 18 samples were submitted to Test America Laboratories. The number of samples includes:

- 12 Ground Water samples for PFAS and 1,4-Dioxane, including three MS/MSD
- Three field duplicates
- Three equipment rinsate blanks

Enclosed is a table titled: "PFAS/1,4-Dioxane Sampling Event: Well Key Log for Long Island Sites, New York State". The Key Log provides information by Site: Well Numbers, both the CLP# and TAG# assigned to the samples from each well, GPS location in Lat/Long for each well sampled using Google Maps (WGS84), Diameter of the wells (inches), Screen Locations (ft), and Sampling Depths (ft).

Report Prepared By: Michael A. Mercado

Date November 20, 2018

PFAS/1,4-Dioxane Sampling Event Well Key Log for Long Island Sites, New York State

Site	Address				RPM		Phone #	
New Cassel	Southern End of Iris Place, New Cassel/Hicksville, NY 11590 (Westbury, NY)				Thomas Mongelli		(212)637-4256	
	Well#	CLP #	TAG #	GPS		Diameter (inches)	Screen Location (ft)	Sampling Depth (ft)
				Lat	Long			
	MW-14 (BG)	BEC18	NC-6-(P&D)	40.7535193888353	-73.5557014122605	2"	185-205	205
	MW-4 (OS)	BEC19	NC-2-(P&D)	40.7516950253930	-73.5633561015129	N/A	180-200	200
	MW-11D (DG)	BEC21	NC-4-(P&D)	40.7479257517921	-73.5677344724535	2"	275-285	285
	OU3-MW3 (DG)	BEC22	NC-5-(P&D)	N/A	N/A	2"	375-385	385
Site	Address				RPM		Phone #	
Liberty	55 Motor Parkway, Farmingdale, NY 11735				Lorenzo Thantu		(212)637-4240	
	Well#	CLP #	TAG #	GPS		Diameter (inches)	Screen Location (ft)	Sampling Depth (ft)
				Lat	Long			
	MW-4A (BG)	BEC23	LF-2-(P&D)	40.7286020764235	-73.4464751556516	2"	27.4-36.9	37
	MW-7A (OS)	BEC24	LF-3-(P&D)	40.7251015907365	-73.4480016678572	4"	10.5-25.5	26
	MW-9A (DG)	BEC27	LF-6-(P&D)	40.7116454805290	-73.4502198847125	4"	3.5-13.5	13.5
MW-11C (DG)	BEC26	LF-5-(P&D)	40.7172536036711	-73.4493400901556	4"	110-120	120	
Site	Address				RPM		Phone #	
Fulton Ave	150 Fulton Ave, Garden City, NY 11040				Kevin Willis		(212)637-4252	
	Well#	CLP #	TAG #	GPS		Diameter (inches)	Screen Location (ft)	Sampling Depth (ft)
				Lat	Long			
	GCP04 (BG)	BEC29	FA-2-P&D	40.7372842748326	-73.6575113609433	2"	51-61	61
	GCP08 (DG)	BEC30	FA-3-P&D	40.7350748347109	-73.6612134799361	2"	50-60	60
	MW-15A (DG)	BEC32	FA-5-P&D	40.7318930307267	-73.6640194058418	2"	140-150	150
DSB-02RS (DG)	BEC28	FA-6-P&D	40.7354729305834	-73.6595039069653	4"	N/A	N/A	
(BG) = Background Samples, (DG) = Downgradient Samples, & (OS) = On-Site Samples (N/A) = Not Available								

Attachment 1

Chain of Custody Forms

777 New Durham Road
Edison, NJ 08817
Phone (732) 549-3900 Fax (732) 549-3679

Chain of Custody Record

TestAmerica

Client Information Client Contact: Ms. Amelia Jackson Company: USEPA Address: 2890 Woodbridge Ave City: Edison State, Zip: NJ, 08837 Phone: Email: Jackson.amelia@epa.gov Project Name: DEC New Cassel/Hicksville GW Contam Site:		Sampler: <i>Michael A. Hernandez</i> Phone: 732-906-6808 Lab PM: Haas, Melissa E-Mail: melissa.haas@testamericainc.com		Carrier Tracking No(s): COC No: 460-105459-67530.1 Page: Page 1 of 2																	
Due Date Requested: TAT Requested (days): PO #: Callout: 136412; Site: 130215 WO #: Southern End of Iris Place, New Cassel Project #: 46027762 SSOW#:		Analysis Requested																			
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (Water, S-solids, O-oils/solids, BT-Tissue, A-Air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		GC/MS SIM Isotope (Dilution)		Total Number of Containers		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)		Other:	
Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (Water, S-solids, O-oils/solids, BT-Tissue, A-Air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		GC/MS SIM Isotope (Dilution)		Total Number of Containers		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)		Other:			
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Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (Water, S-solids, O-oils/solids, BT-Tissue, A-Air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		GC/MS SIM Isotope (Dilution)		Total Number of Containers		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)		Other:			
Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (Water, S-solids, O-oils/solids, BT-Tissue, A-Air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		GC/MS SIM Isotope (Dilution)		Total Number of Containers		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-					

Ver: 08/04/2016

Chain of Custody Record

Client Information Client Contact: Ms. Amelia Jackson Company: USEPA Address: 2890 Woodbridge Ave City: Edison State, Zip: NJ, 08837 Phone: Email: Jackson.amelia@epa.gov Project Name: DEC New Cassel/Hicksville GW Contam Site:		Client Name: <u>Michael A. Mercado</u> Phone: <u>732-906-6808</u> Lab PM: Haas, Melissa E-Mail: melissa.haas@testamericainc.com		Carrier Tracking No(s): COC No: 460-105458-67529.1 Page: Page 1 of 2 Job #:	
		Analysis Requested		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlora S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:	
		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) PFC, IDA - PFAS, Standard List (21 Analytes)		Total Number of containers	
		Due Date Requested: TAT Requested (days): PO #: Callout: 136412; Site: 130215 WO #: Southern End of Iris Place, New Cassel Project #: 46027762 SSOW#:			
		Sample Identification		Special Instructions/Note:	
		Sample Date Sample Time Sample Type (C=comp, G=grab) Matrix (Water, Solid, Orasateoil, BT=Tissue, Air) Preservation Code:			
		BE 9M8 - TAG: NC-1-P 13 Nov 18 2030 G Water YN 2		Blank	
		BEC 18 - TAG: NC-6-P 14 Nov 18 1550 G Water NN 2			
		BEC 19 - TAG: NC-2-P 14 Nov 18 1320 G Water NN 2			
		BEC 20 - TAG: NC-3-P 14 Nov 18 1320 G Water NN 2			
		BEC 21 - TAG: NC-4-P 14 Nov 18 1515 G Water NY 4			
		BEC 22 - TAG: NC-5-P 14 Nov 18 1635 G Water NN 2			
		MS/MSD			
		Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:	
		Empty Kit Relinquished by: Date: Time: Method of Shipment:			
		Relinquished by: Date/Time: Company: Received by: Date/Time: Company:			
		Relinquished by: Date/Time: Company: Received by: Date/Time: Company:			
		Relinquished by: Date/Time: Company: Received by: Date/Time: Company:			
		Custody Seals Intact: Custody Seal No.: Cooler Temperature(s) °C and Other Remarks:			
		Δ Yes Δ No N/A		2.90°C IR #9	

Ver: 08/04/2016

IL#9 2.90c

NO CS

Chain of Custody Record

Ver: 08/04/2016

777 New Durham Road
Edison, NJ 08817
Phone (732) 549-3900 Fax (732) 549-3679

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Ver: 08/04/2016

Chain of Custody Record

THE LEADER IN ENVIRONMENTAL TESTING

Ver: 08/04/2016