Environmental Resources Group
28003 Center Oaks Court • Suite 106 • Wixom, MI • 48393
Phone: 248-773-7986 • Fax: 248-924-3108

May 24, 2018

Mr. Paul Bucholtz
Lansing District Office
Remediation and Redevelopment Division
Constitution Hall
525 West Allegan Street,
Lansing, MI 48909

RE: Davison Road Industrial Land
PFC & Arsenic Groundwater Monitoring Well Sampling Results
Site #12920
Davison and Donegal Road, Burton, Genesee County, Michigan
Facility ID No: 25000447

Dear Mr. Bucholtz:

Environmental Resources Group, LLC. (ERG) has completed the groundwater sampling event at the at the Davison Road Industrial Site (Site) located in Burton, MI in accordance with MDEQ's email approval of an amended March 5, 2018 sampling plan revised to expand the Per-and Polyfluoroalkyl substances (PFAS) parameter list. The groundwater samples were collected from groundwater monitoring wells and analyzed for a list of 24 Perfluorinated chemicals (PFCs), including Perfluorooctanoic Acid (PFOA), Perfluorooctane Sulfonate (PFOS); and total and dissolved arsenic.

MONITORING WELL LOCATIONS

Groundwater samples were collected from seven existing groundwater/surface water interface (GSI) compliance monitoring wells located near the Gilkey Creek. Groundwater samples were collected from five monitoring wells - MW-16-14, MW-7-12, MW-15-14, TMW-8 and TMW-1 and analyzed for PFCs and total and dissolved arsenic. Two additional wells - MW-9-12 and TMW-6, were sampled and analyzed for total and dissolved arsenic only. Figures depicting the monitoring well locations are included in Appendix A.

METHODOLOGY

ERG personnel were at the Site on April 10 and 11, 2018, to collect depth-to-water measurements and complete groundwater sampling of seven GSI compliance monitoring wells. Static water levels were obtained using an electronic water level meter accurate to 0.01-feet. The water level meter was thoroughly washed with Alconox®/deionized water mix and rinsed with deionized water prior between each well to reduce the potential for cross contamination of the wells. Field measurements of depth to water in conjunction with known well depths were used to calculate the volume of water present in each well for sampling purposes.

Groundwater samples were collected using standard low flow procedures. New high-density polyethylene (HDPE) and silicon tubing was used during the sampling and purging process for each sample location. Each monitoring well was purged until readings became stable, purged dry, or exceeded the 0.3-feet drawdown limit. The groundwater was field analyzed for pH, specific conductivity, temperature, dissolved oxygen, oxidation reduction potential, and turbidity. Low Flow Data Sheets are included in Appendix B.

The sampling procedures included in the March 5, 2018 sampling plan were used to prevent cross contamination of samples. Due to the highly sensitive nature and potential cross contamination of PFCs, exceptional care was taken during the sampling and transport procedure; including appropriate clothing, sampling materials and storage containers.

Select samples were analyzed for PFCs using Modified Method 537 and total and dissolved metals using Method 6020. Quality Assurance/Quality Control (QA/QC) samples collected included one duplicate, one field reagent blank (FRB) and one equipment blank. The samples were submitted to TestAmerica Laboratories, Inc. (TestAmerica) located in Sacramento, California for analysis. TestAmerica maintains the Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories Version 5. 1 certification.

RESULTS

Review of analytical data indicates that total and dissolved arsenic concentrations were below the MDEQ Part 201 non-residential drinking water and GSI cleanup criteria in all samples analyzed with the exception of MW-16-14 which contained total and dissolved concentrations of 28 parts per billion (ppb) and 25 ppb, respectively. The groundwater analytical results compared to MDEQ criteria have been included in Appendix C, Table 1.

Analytical results of the PFCs identified several concentrations above the laboratory detection limit. The results were compared to MDEQ criteria set forth on January 10, 2018. The drinking

water criteria for combined concentrations of PFOA and PFOS is 70 parts per trillion (ppt). Based on the results, the combined concentrations did not exceed the established drinking water criteria.

MDEQ State-wide Rule 57 Water Quality Standards provides procedures for calculating water quality values to protect humans, wildlife, and aquatic life. The values apply to all surface waters in Michigan. Of the 24 PFCs reported, MDEQ has established surface water criterion for PFOS and PFOA only. As Gilkey Creek is not a source of drinking water, the results were compared to the surface water values for the Human Noncancer Value (HNV): "non-drink", 12 ppt for PFOS and 14,000 ppt for PFOA. Based on the results of the groundwater samples analyzed there were no PFOS or PFOA concentrations that exceeded surface water criteria. The groundwater analytical results compared to MDEQ Rule 57 Surface Water Criteria have been included in Appendix C, Table 2. The Laboratory Report is included in Appendix D.

CONCLUSIONS

Review of the laboratory results indicates the presence of arsenic above the GSI cleanup criteria in one GSI compliance well. No PFCs were detected above the MDEQ drinking water criteria or surface water criteria.

If you have any questions, please contact us at 248-773-7986.

Sincerely,

ENVIRONMENTAL RESOURCES GROUP, LLC

Susan Graves

Susan Graves
Vice President

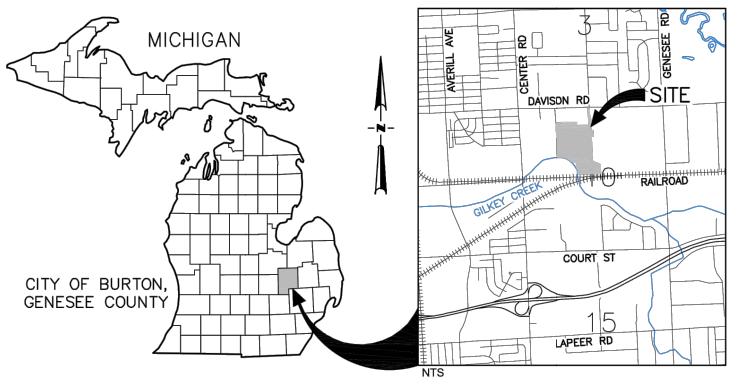
Appendix A-Figures
Appendix B- Low Flow Data Sheets
Appendix C-Tables
Appendix D-Laboratory Report
Enc.

APPENDIX A

FIGURES

SITE

LOCATON MAP



0 1000 2000 4000

SCALE: 1"=2,000'

ERG Environmental Resources Group
28003 Center Oaks Court • Suite 106 • Wixom, MI • 48393
Phone: 248-773-7986 • Fax: 248-924-3108

RACER TRUST

DAVISON RD. - BURTON, MI
INDUSTRIAL LAND

SITE LOCATION MAP

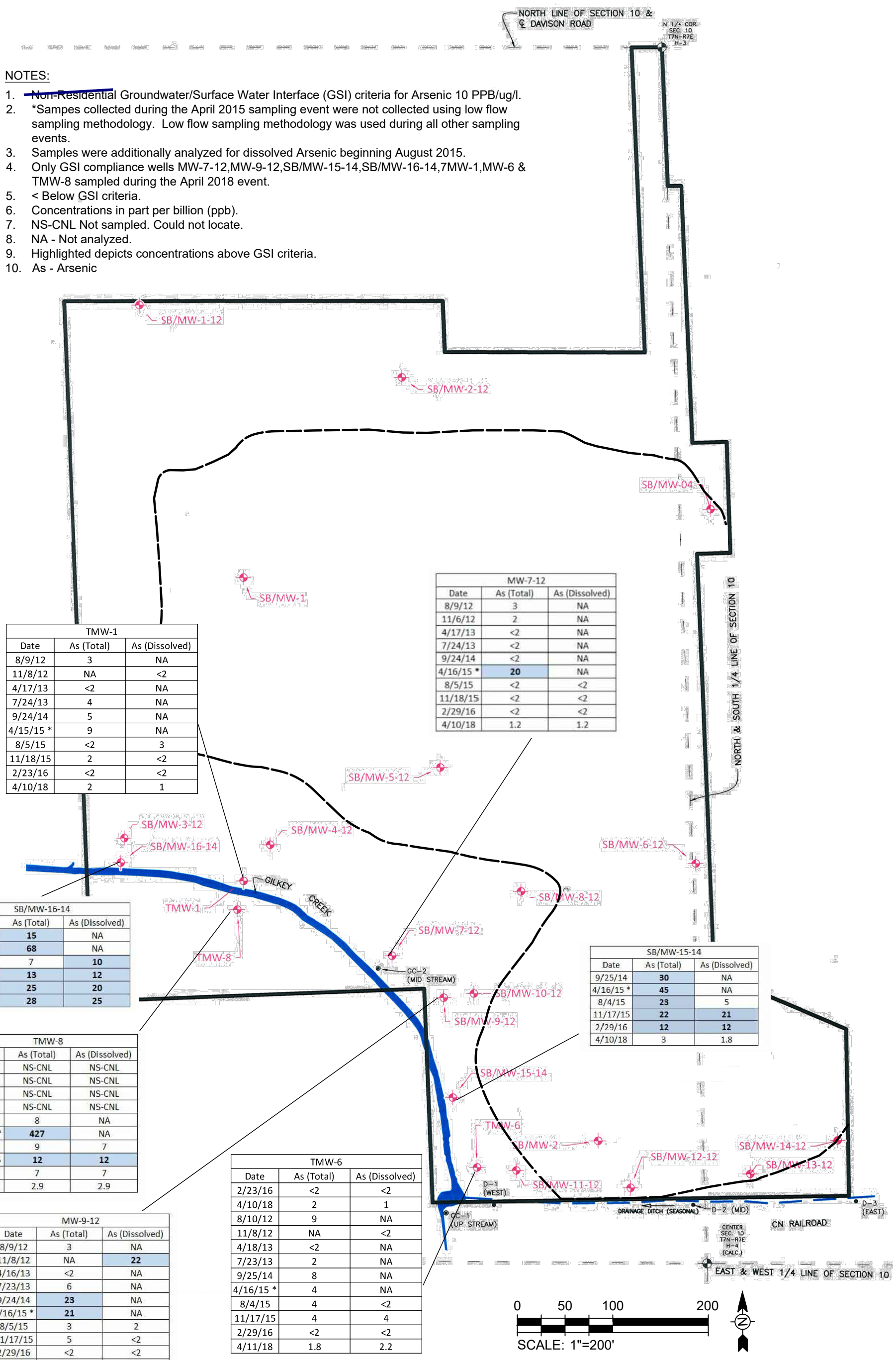
JOB No.: 1119.004

DR. BY: RSP Date: 05/24/2018

SHEET: **FIGURE 1**

NOTES:

1. ~~Non-Residential~~ Groundwater/Surface Water Interface (GSI) criteria for Arsenic 10 PPB/ug/l.
2. *Sampes collected during the April 2015 sampling event were not collected using low flow sampling methodology. Low flow sampling methodology was used during all other sampling events.
3. Samples were additionally analyzed for dissolved Arsenic beginning August 2015.
4. Only GSI compliance wells MW-7-12,MW-9-12,SB/MW-15-14,SB/MW-16-14,7MW-1,MW-6 & TMW-8 sampled during the April 2018 event.
5. < Below GSI criteria.
6. Concentrations in part per billion (ppb).
7. NS-CNL Not sampled. Could not locate.
8. NA - Not analyzed.
9. Highlighted depicts concentrations above GSI criteria.
10. As - Arsenic



TMW-1		
Date	As (Total)	As (Dissolved)
8/9/12	3	NA
11/8/12	NA	<2
4/17/13	<2	NA
7/24/13	4	NA
9/24/14	5	NA
4/15/15 *	9	NA
8/5/15	<2	3
11/18/15	2	<2
2/23/16	<2	<2
4/10/18	2	1

MW-7-12		
Date	As (Total)	As (Dissolved)
8/9/12	3	NA
11/6/12	2	NA
4/17/13	<2	NA
7/24/13	<2	NA
9/24/14	<2	NA
4/16/15 *	**20**	NA
8/5/15	<2	<2
11/18/15	<2	<2
2/29/16	<2	<2
4/10/18	1.2	1.2

SB/MW-16-14		
Date	As (Total)	As (Dissolved)
9/25/14	**15**	NA
4/15/15 *	**68**	NA
8/4/15	7	**10**
11/18/15	**13**	**12**
2/23/16	**25**	**20**
4/10/18	**28**	**25**

SB/MW-15-14		
Date	As (Total)	As (Dissolved)
9/25/14	**30**	NA
4/16/15 *	**45**	NA
8/4/15	**23**	5
11/17/15	**22**	**21**
2/29/16	**12**	**12**
4/10/18	3	1.8

TMW-8		
Date	As (Total)	As (Dissolved)
8/10/12	NS-CNL	NS-CNL
11/8/12	NS-CNL	NS-CNL
4/18/13	NS-CNL	NS-CNL
7/23/13	NS-CNL	NS-CNL
9/24/14	8	NA
4/15/15 *	**427**	NA
8/5/15	9	7
11/18/15	**12**	**12**
2/23/16	7	7
4/10/18	2.9	2.9

TMW-6		
Date	As (Total)	As (Dissolved)
2/23/16	<2	<2
4/10/18	2	1
8/10/12	9	NA
11/8/12	NA	<2
4/18/13	<2	NA
7/23/13	2	NA
9/25/14	8	NA
4/16/15 *	4	NA
8/4/15	4	<2
11/17/15	4	4
2/29/16	<2	<2
4/11/18	1.8	2.2

MW-9-12		
Date	As (Total)	As (Dissolved)
8/9/12	3	NA
11/8/12	NA	**22**
4/16/13	<2	NA
7/23/13	6	NA
9/24/14	**23**	NA
4/16/15 *	**21**	NA
8/5/15	3	2
11/17/15	5	<2
2/29/16	<2	<2
4/11/18	0.75	0.75

LEGEND

MONITORING WELL

AREA FILL

ERG Environmental Resources Group
28003 Center Oaks Court • Suite 106 • Wixom, MI • 48393
Phone: 248-773-7986 • Fax: 248-924-3108

RACER TRUST

DAVISON RD. INDUSTRIAL LAND
BURTON, MI

GSI COMPLIANCE WELL
ARSENIC CONC. MAP

JOB No.: 1119.004

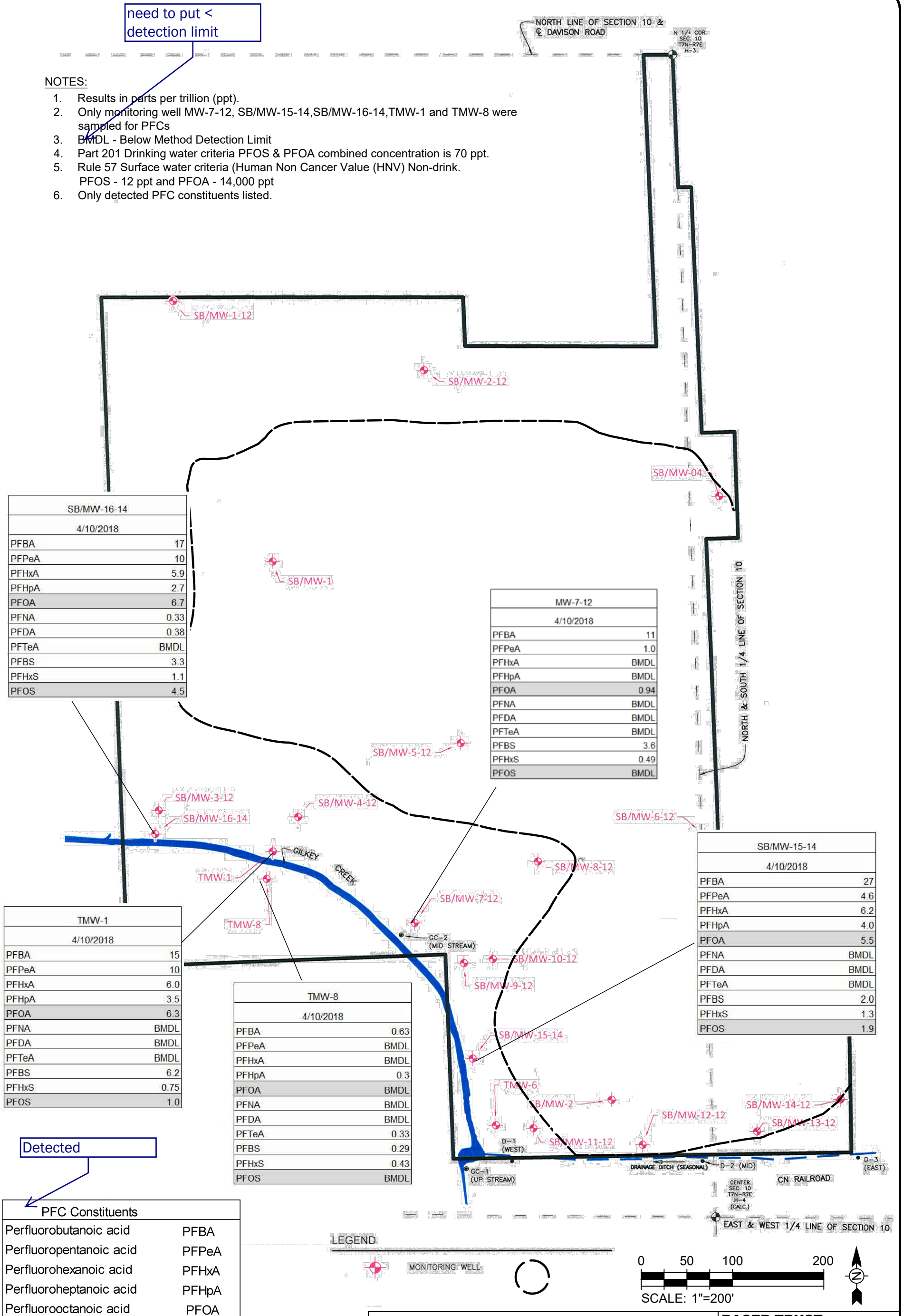
DR. BY: RSP Date: 5/24/2018

SHEET: **FIGURE 2**

need to put < detection limit

NOTES:

1. Results in parts per trillion (ppt).
2. Only monitoring well MW-7-12, SB/MW-15-14,SB/MW-16-14,TMW-1 and TMW-8 were sampled for PFCs
3. BMDL - Below Method Detection Limit
4. Part 201 Drinking water criteria PFOS & PFOA combined concentration is 70 ppt.
5. Rule 57 Surface water criteria (Human Non Cancer Value (HNV) Non-drink. PFOS - 12 ppt and PFOA - 14,000 ppt
6. Only detected PFC constituents listed.



SB/MW-16-14	
4/10/2018	
PFBA	17
PFPeA	10
PFHxA	5.9
PFHpA	2.7
PFOA	6.7
PFNA	0.33
PFDA	0.38
PFTeA	BMDL
PFBS	3.3
PFHxS	1.1
PFOS	4.5

MW-7-12	
4/10/2018	
PFBA	11
PFPeA	1.0
PFHxA	BMDL
PFHpA	BMDL
PFOA	0.94
PFNA	BMDL
PFDA	BMDL
PFTeA	BMDL
PFBS	3.6
PFHxS	0.49
PFOS	BMDL

SB/MW-15-14	
4/10/2018	
PFBA	27
PFPeA	4.6
PFHxA	6.2
PFHpA	4.0
PFOA	5.5
PFNA	BMDL
PFDA	BMDL
PFTeA	BMDL
PFBS	2.0
PFHxS	1.3
PFOS	1.9

TMW-1	
4/10/2018	
PFBA	15
PFPeA	10
PFHxA	6.0
PFHpA	3.5
PFOA	6.3
PFNA	BMDL
PFDA	BMDL
PFTeA	BMDL
PFBS	6.2
PFHxS	0.75
PFOS	1.0

TMW-8	
4/10/2018	
PFBA	0.63
PFPeA	BMDL
PFHxA	BMDL
PFHpA	0.3
PFOA	BMDL
PFNA	BMDL
PFDA	BMDL
PFTeA	0.33
PFBS	0.29
PFHxS	0.43
PFOS	BMDL

Detected

PFC Constituents	
Perfluorobutanoic acid	PFBA
Perfluoropentanoic acid	PFPeA
Perfluorohexanoic acid	PFHxA
Perfluoroheptanoic acid	PFHpA
Perfluorooctanoic acid	PFOA
Perfluorononanoic acid	PFNA
Perfluorodecanoic acid	PFDA
Perfluorotetradecanoic acid	PFTeA
Perfluorobutanesulfonic acid	PFBS
Perfluorohexanesulfonic acid	PFHxS
Perfluorooctanesulfonic acid	PFOS

ERG Environmental Resources Group
28003 Center Oaks Court • Suite 106 • Wixom, MI • 48393
Phone: 248-773-7986 • Fax: 248-924-3108

RACER TRUST

DAVISON RD. INDUSTRIAL LAND
BURTON, MI

PFOS-PFAS GROUNDWATER ANALYTICAL MAP

JOB No.: 1119.004

DR. BY: RSP Date: 5/24/2018

SHEET: **FIGURE 3**

APPENDIX B

LOW FLOW DATA SHEETS

Low-Flow Test Report:

Test Date / Time: 4/10/2018 11:26:29 AM
Project: SB/MW-7-12
Operator Name: CJB/LLL

Location Name: SB/MW-7-12 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 5.5 ft** **Total Depth: 13.95 ft** **Initial Depth to Water: 4 ft**	**Pump Type: Peristaltic** **Tubing Type: HDPE 0.17" ID** **Pump Intake From TOC: 9 ft** **Estimated Total Volume Pumped: 936 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 52 ml/min** **Final Draw Down: 0.18 ft**	**Instrument Used: Aqua TROLL 600** **Serial Number: 513586**

Test Notes:

Weather Conditions:
Cloudy, 40F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
4/10/2018 11:26 AM	00:00	7.35 pH	11.90 °C	1,282.6 µS/cm	2.02 mg/L	0.06 NTU	73.1 mV	4.00 ft	52.00 ml/min
4/10/2018 11:29 AM	03:00	7.31 pH	9.03 °C	1,295.1 µS/cm	1.82 mg/L	0.04 NTU	80.3 mV	4.00 ft	52.00 ml/min
4/10/2018 11:32 AM	06:00	7.32 pH	8.25 °C	1,315.5 µS/cm	1.81 mg/L	0.02 NTU	84.0 mV	4.00 ft	52.00 ml/min
4/10/2018 11:35 AM	09:00	7.31 pH	8.23 °C	1,350.0 µS/cm	1.65 mg/L	0.00 NTU	86.6 mV	4.00 ft	52.00 ml/min
4/10/2018 11:38 AM	12:00	7.29 pH	8.75 °C	1,365.8 µS/cm	1.39 mg/L	0.02 NTU	89.2 mV	4.00 ft	52.00 ml/min
4/10/2018 11:41 AM	15:00	7.28 pH	9.14 °C	1,349.2 µS/cm	1.26 mg/L	0.00 NTU	91.4 mV	4.00 ft	52.00 ml/min
4/10/2018 11:44 AM	18:00	7.27 pH	9.08 °C	1,354.0 µS/cm	1.29 mg/L	0.00 NTU	93.2 mV	4.00 ft	52.00 ml/min

Samples

Sample ID:	Description:
SB/MW-7-12	PFAS, Total/Diss As

Low-Flow Test Report:

Test Date / Time: 4/11/2018 8:31:29 AM
Project: SB/MW-9-12
Operator Name: CJB/LLL

Location Name: SB/MW-9-12 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 7 ft** **Total Depth: 15.35 ft** **Initial Depth to Water: 3.9 ft**	**Pump Type: Peristaltic** **Pump Intake From TOC: 9.5 ft** **Estimated Total Volume Pumped: 675 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 45 ml/min** **Final Draw Down: 1.01 ft**	**Instrument Used: Aqua TROLL 600** **Serial Number: 513586**

Test Notes:

Weather Conditions:
35 degrees F
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
4/11/2018 8:31 AM	00:00	6.89 pH	8.47 °C	2,134.5 µS/cm	1.42 mg/L	1.60 NTU	230.5 mV	3.90 ft	45.00 ml/min
4/11/2018 8:34 AM	03:00	6.91 pH	7.37 °C	2,187.4 µS/cm	0.63 mg/L	0.00 NTU	224.1 mV	4.30 ft	45.00 ml/min
4/11/2018 8:37 AM	06:00	6.91 pH	6.91 °C	2,212.3 µS/cm	0.55 mg/L	0.34 NTU	217.7 mV	4.64 ft	45.00 ml/min
4/11/2018 8:40 AM	09:00	6.90 pH	6.59 °C	2,228.0 µS/cm	0.49 mg/L	0.00 NTU	213.2 mV	4.72 ft	45.00 ml/min
4/11/2018 8:43 AM	12:00	6.90 pH	6.39 °C	2,237.6 µS/cm	0.46 mg/L	0.01 NTU	208.9 mV	4.91 ft	45.00 ml/min
4/11/2018 8:46 AM	15:00	6.89 pH	6.33 °C	2,248.1 µS/cm	0.46 mg/L	0.00 NTU	204.9 mV	4.91 ft	45.00 ml/min

Samples

Sample ID:	Description:
SB/MW-9-12	Total/DISS As

Low-Flow Test Report:

Test Date / Time: 4/10/2018 3:14:11 PM
Project: SB/MW-15-14
Operator Name: CJB/LLL

Location Name: SB/MW-15-14 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 13.5 ft** **Total Depth: 21.74 ft** **Initial Depth to Water: 3.9 ft**	**Pump Type: Peristaltic** **Tubing Type: HDPE 0.17" ID** **Pump Intake From TOC: 16 ft** **Estimated Total Volume Pumped: 438.667 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 47 ml/min** **Final Draw Down: 0.51 ft**	**Instrument Used: Aqua TROLL 600** **Serial Number: 513586**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
4/10/2018 3:14 PM	00:00	7.64 pH	9.14 °C	1,908.1 µS/cm	2.53 mg/L	3.34 NTU	62.2 mV	4.24 ft	47.00 ml/min
4/10/2018 3:14 PM	00:20	7.64 pH	9.06 °C	1,912.8 µS/cm	2.52 mg/L	26.05 NTU	62.4 mV	4.24 ft	47.00 ml/min
4/10/2018 3:17 PM	03:20	7.65 pH	8.69 °C	1,934.4 µS/cm	2.46 mg/L	0.44 NTU	63.7 mV	4.32 ft	47.00 ml/min
4/10/2018 3:20 PM	06:20	7.65 pH	8.49 °C	1,942.1 µS/cm	2.52 mg/L	1.01 NTU	64.6 mV	4.41 ft	47.00 ml/min
4/10/2018 3:23 PM	09:20	7.64 pH	8.48 °C	1,944.9 µS/cm	2.46 mg/L	0.19 NTU	65.3 mV	4.41 ft	47.00 ml/min

Samples

Sample ID:	Description:
SB/MW-15-14	PFAS, TOTAL/DISS As

Low-Flow Test Report:

Test Date / Time: 4/10/2018 8:05:04 AM
Project: RACER TRUST - Davison Road Landfill
Operator Name: CJB/LLL

Location Name: SB/MW-16-14 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 5 ft** **Total Depth: 13.17 ft** **Initial Depth to Water: 7.69 ft**	**Pump Type: Peristaltic** **Tubing Type: HDPE 0.17" ID** **Pump Intake From TOC: 10.34 ft** **Estimated Total Volume Pumped: 545 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 60 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 600** **Serial Number: 513586**

Test Notes:

Weather Conditions:
Clear, 30F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
4/10/2018 8:05 AM	00:00	7.31 pH	6.06 °C	1,270.5 µS/cm	0.49 mg/L	26.06 NTU	-87.6 mV	7.69 ft	60.00 ml/min
4/10/2018 8:06 AM	00:56	7.32 pH	5.90 °C	1,272.4 µS/cm	0.46 mg/L	26.65 NTU	-89.2 mV	7.69 ft	60.00 ml/min
4/10/2018 8:08 AM	03:05	7.31 pH	5.63 °C	1,282.4 µS/cm	0.40 mg/L	20.06 NTU	-91.3 mV	7.69 ft	60.00 ml/min
4/10/2018 8:11 AM	06:05	7.29 pH	5.40 °C	1,289.7 µS/cm	0.36 mg/L	12.29 NTU	-93.7 mV	7.69 ft	60.00 ml/min
4/10/2018 8:14 AM	09:05	7.28 pH	5.16 °C	1,284.6 µS/cm	0.28 mg/L	14.99 NTU	-96.0 mV	7.69 ft	60.00 ml/min

Samples

Sample ID:	Description:
SB/MW-16-14	PFAS, TOTAL/DISS As

Low-Flow Test Report:

Test Date / Time: 4/10/2018 9:49:47 AM
Project: TMW-1
Operator Name: CJB/LLL

Location Name: TMW-1 **Well Diameter: 1 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 10 ft** **Total Depth: 15.06 ft** **Initial Depth to Water: 7.89 ft**	**Pump Type: peristaltic** **Tubing Type: HPDE 0.17" ID** **Pump Intake From TOC: 11.47 ft** **Estimated Total Volume Pumped: 360 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 40 ml/min** **Final Draw Down: 0.46 ft**	**Instrument Used: Aqua TROLL 600** **Serial Number: 513586**

Test Notes:
Began pumping at 11:37. Exceeded drawdown at 11:45am. Will continue low flow.

Weather Conditions:
Clear, 40F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
4/10/2018 9:49 AM	00:00	7.16 pH	7.62 °C	1,136.2 µS/cm	1.87 mg/L	5.68 NTU	83.8 mV	7.89 ft	40.00 ml/min
4/10/2018 9:52 AM	03:00	7.14 pH	7.22 °C	1,148.0 µS/cm	1.53 mg/L	4.96 NTU	86.3 mV	7.89 ft	40.00 ml/min
4/10/2018 9:55 AM	06:00	7.14 pH	7.09 °C	1,148.7 µS/cm	1.49 mg/L	3.24 NTU	87.8 mV	7.89 ft	40.00 ml/min
4/10/2018 9:58 AM	09:00	7.14 pH	7.10 °C	1,153.0 µS/cm	1.44 mg/L	1.75 NTU	88.7 mV	7.89 ft	40.00 ml/min

Samples

Sample ID:	Description:
TMW-7	PFAS Total/dissolved As

Low-Flow Test Report:

Test Date / Time: 4/11/2018 9:20:52 AM
Project: TMW-6
Operator Name: CJB/LLL

Location Name: TMW-6 **Well Diameter: 1 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 8 ft** **Total Depth: 12.9 ft** **Initial Depth to Water: 6.62 ft**	**Pump Type: Peristaltic** **Pump Intake From TOC: 10.5 ft** **Estimated Total Volume Pumped: 431.333 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 40 ml/min** **Final Draw Down: 1.93 ft**	**Instrument Used: Aqua TROLL 600** **Serial Number: 513586**

Test Notes:

Weather Conditions:
35 degrees F
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
4/11/2018 9:20 AM	00:00	6.85 pH	7.17 °C	1,886.3 µS/cm	1.48 mg/L	3.96 NTU	-7.0 mV	6.62 ft	40.00 ml/min
4/11/2018 9:22 AM	01:47	6.83 pH	7.02 °C	1,890.3 µS/cm	0.97 mg/L	4.44 NTU	-8.8 mV	6.62 ft	40.00 ml/min
4/11/2018 9:25 AM	04:47	6.82 pH	6.70 °C	1,892.5 µS/cm	0.67 mg/L	1.31 NTU	-8.0 mV	8.24 ft	40.00 ml/min
4/11/2018 9:28 AM	07:47	6.81 pH	6.53 °C	1,891.1 µS/cm	0.53 mg/L	0.06 NTU	-7.0 mV	8.35 ft	40.00 ml/min
4/11/2018 9:31 AM	10:47	6.81 pH	6.44 °C	1,896.7 µS/cm	0.48 mg/L	0.00 NTU	-6.6 mV	8.55 ft	40.00 ml/min

Samples

Sample ID:	Description:
TMW-6	As Dissolved As

Low-Flow Test Report:

Test Date / Time: 4/10/2018 1:12:19 PM
Project: TMW-8
Operator Name: CJB/LLL

Location Name: TMW-8 **Well Diameter: 1 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 12.5 ft** **Total Depth: 17.5 ft** **Initial Depth to Water: 10.34 ft**	**Pump Type: Peristaltic** **Tubing Type: HDPE** **Pump Intake From TOC: 14 ft** **Estimated Total Volume Pumped: 1872 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 120 ml/min** **Final Draw Down: 0.02 ft**	**Instrument Used: Aqua TROLL 600** **Serial Number: 513586**

Test Notes:

Weather Conditions:
Cloudy, low 40s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 5	
4/10/2018 1:12 PM	00:00	7.07 pH	7.94 °C	453.32 µS/cm	0.84 mg/L	0.01 NTU	82.9 mV	10.34 ft	120.00 ml/min
4/10/2018 1:12 PM	00:36	7.08 pH	7.83 °C	454.87 µS/cm	0.81 mg/L	0.10 NTU	81.2 mV	10.34 ft	120.00 ml/min
4/10/2018 1:15 PM	03:36	7.12 pH	7.44 °C	461.38 µS/cm	0.67 mg/L	0.06 NTU	72.7 mV	10.34 ft	120.00 ml/min
4/10/2018 1:18 PM	06:36	7.13 pH	7.21 °C	465.43 µS/cm	0.55 mg/L	0.03 NTU	65.0 mV	10.34 ft	120.00 ml/min
4/10/2018 1:21 PM	09:36	7.14 pH	7.16 °C	469.32 µS/cm	0.45 mg/L	0.15 NTU	58.4 mV	10.34 ft	120.00 ml/min
4/10/2018 1:24 PM	12:36	7.15 pH	7.20 °C	469.89 µS/cm	0.38 mg/L	0.00 NTU	53.8 mV	10.36 ft	120.00 ml/min
4/10/2018 1:27 PM	15:36	7.16 pH	7.21 °C	471.36 µS/cm	0.38 mg/L	0.00 NTU	49.3 mV	10.36 ft	120.00 ml/min

Samples

Sample ID:	Description:
TMW-8	PFAS, TOTAL/DISS As

APPENDIX C

TABLES

Table 1
GSI Compliance Wells
Arsenic Concentrations
Davison Road Industrial Land
Burton, MI

Metals ug/L	Non-Residential Drinking Water Criteria and RBSLs	Non-Residential Groundwater Surface Water Interface Protection Criteria and RBSLs	MW-7-12										MW-9-12									
			8/9/12	11/6/12	4/17/13	7/24/13	9/24/14	4/16/15 *	8/5/15	11/18/15	2/29/16	4/10/18	8/9/12	11/8/12	4/16/13	7/23/13	9/24/14	4/16/15 *	8/5/15	11/17/15	2/29/16	4/11/18
Arsenic (Total)	10 (A)	10	3	2	<2	<2	<2	**20**	<2	<2	<2	1.2	3	NA	<2	6	**23**	**21**	3	5	<2	0.75
Arsenic (Dissolved)	10 (A)	10	NA	NA	NA	NA	NA	NA	<2	<2	<2	1.2	NA	**22**	NA	NA	NA	NA	2	<2	<2	0.75

NOTES:
Results in parts per billion (ppb)/micrograms per liter (ug/l)
Concentrations compared to the MDEQ Part 201 Non-Residential Cleanup Criteria

Bold-exceeds the MDEQ Part 201 Non-Residential Drinking Water Criteria

* Samples collected during the April 2015 sampling event were not collected using low flow sampling methodology. Low flow sampling methodology was used during all other sampling events. Samples collected during the August 2015 sampling event were additionally analyzed for dissolved arsenic and /or zinc. Refer to the laboratory analytical report for results.

NS-Not Sampled
NA-Not Analyzed or Not Applicable
NS I H20-Not Sampled Due to Insufficient Amount of Water
NS-CNL-Not Sampled Could Not Locate Well.

Table 1
GSI Compliance Wells
Arsenic Concentrations
Davison Road Industrial Land
Burton, MI

Metals ug/L	Non-Residential Drinking Water Criteria and RBSLs	Non-Residential Groundwater Surface Water Interface Protection Criteria and RBSLs	SB/MW-15-14						SB/MW-16-14						TMW-1									
			9/25/14	4/16/15 *	8/4/15	11/17/15	2/29/16	4/10/18	9/25/14	4/15/15 *	8/4/15	11/18/15	2/23/16	4/10/18	8/9/12	11/8/12	4/17/13	7/24/13	9/24/14	4/15/15 *	8/5/15	11/18/15	2/23/16	4/10/18
Arsenic (Total)	10 (A)	10	**30**	**45**	**23**	**22**	**12**	3	**15**	**68**	7	**13**	**25**	**28**	3	NA	<2	4	5	9	<2	2	<2	2
Arsenic (Dissolved)	10 (A)	10	NA	NA	5	**21**	**12**	1.8	NA	NA	**10**	**12**	**20**	**25**	NA	<2	NA	NA	NA	NA	3	<2	<2	1

NOTES:
Results in parts per billion (ppb)/micrograms per liter (ug/l)
Concentrations compared to the MDEQ Part 201 Non-Residential Cleanup Criteria

Bold-exceeds the MDEQ Part 201 Non-Residential Drinking Water Criteria

* Samples collected during the April 2015 sampling event were not collected using low flow sampling methodology. Low flow sampling methodology was used during all other sampling events.
Samples collected during the August 2015 sampling event were additionally analyzed for dissolved arsenic and /or zinc. Refer to the laboratory analytical report for results.

NS-Not Sampled
NA-Not Analyzed or Not Applicable
NS I H20-Not Sampled Due to Insufficient Amount of Water
NS-CNL-Not Sampled Could Not Locate Well.

Table 1
GSI Compliance Wells
Arsenic Concentrations
Davison Road Industrial Land
Burton, MI

Metals ug/L	Non-Residential Drinking Water Criteria and RBSLs	Non-Residential Groundwater Surface Water Interface Protection Criteria and RBSLs	TMW-6										TMW-8									
			8/10/12	11/8/12	4/18/13	7/23/13	9/25/14	4/16/15 *	8/4/15	11/17/15	2/29/16	4/11/18	8/10/12	11/8/12	4/18/13	7/23/13	9/24/14	4/15/15 *	8/5/15	11/18/15	2/23/16	4/10/18
Arsenic (Total)	10 (A)	10	9	NA	<2	2	8	4	4	4	<2	1.8	NS-CNL	NS-CNL	NS-CNL	NS-CNL	8	**427**	9	**12**	7	2.9
Arsenic (Dissolved)	10 (A)	10	NA	<2	NA	NA	NA	NA	<2	4	<2	2.2	NS-CNL	NS-CNL	NS-CNL	NS-CNL	NA	NA	7	**12**	7	2.9

NOTES:
Results in parts per billion (ppb)/micrograms per liter (ug/l)
Concentrations compared to the MDEQ Part 201 Non-Residential Cleanup Criteria

Bold-exceeds the MDEQ Part 201 Non-Residential Drinking Water Criteria

* Samples collected during the April 2015 sampling event were not collected using low flow sampling methodology. Low flow sampling methodology was used during all other sampling events. Samples collected during the August 2015 sampling event were additionally analyzed for dissolved arsenic and /or zinc. Refer to the laboratory analytical report for results.

NS-Not Sampled
NA-Not Analyzed or Not Applicable
NS I H20-Not Sampled Due to Insufficient Amount of Water
NS-CNL-Not Sampled Could Not Locate Well.

Table 2
GSI Compliance Wells
PFC Concentrations
Davison Road Industrial Land
Burton, Michigan

	Chemical Abstract Service Number	Drinking Water Criteria	Rule 57 Surface Water Criteria - Human Noncancer Value (HNV): non-drink	MW-7-12	SB/MW-15-14	SB/MW-16-14	TMW-1	TMW-8
				4/10/18	4/10/18	4/10/18	4/10/18	4/10/18
PFOS & PFAS (combined concentrations)		**70**		**1.38**	**7.4**	**11.2**	**7.3**	**1.16**
PFOS			**12**	0.44	1.9	**4.5**	**1.0**	0.45
PFOA			**14,000**	**0.94**	5.5	**6.7**	**6.3**	0.71
Perfluorobutanoic acid (PFBA)	375-22-4			**11**	**27**	**17**	**15**	**0.63**
Perfluoropentanoic acid (PFPeA)	2706-90-3			**1.0**	**4.6**	**10**	**10**	0.41
Perfluorohexanoic acid (PFHxA)	307-24-4			0.48	**6.2**	**5.9**	**6.0**	0.48
Perfluoroheptanoic acid (PFHpA)	375-85-9			0.21	**4.0**	**2.7**	**3.5**	**0.30**
Perfluorooctanoic acid (PFOA)	335-67-1			**0.94**	**5.5**	**6.7**	**6.3**	0.71
Perfluorononanoic acid (PFNA)	375-95-1			0.22	0.22	**0.33**	0.23	0.22
Perfluorodecanoic acid (PFDA)	335-76-2			0.26	0.26	**0.38**	0.26	0.26
Perfluoroundecanoic acid (PFUnA)	2058-94-8			0.91	0.91	1.1	0.92	0.92
Perfluorododecanoic acid (PFDoA)	307-55-1			0.45	0.46	0.53	0.46	0.46
Perfluorotridecanoic Acid (PFTriA)	72629-94-8			1.1	1.1	1.3	1.1	1.1
Perfluorotetradecanoic acid (PFTeA)	376-06-7			0.24	0.24	0.28	0.24	**0.33**
Perfluorobutanesulfonic acid (PFBS)	375-73-5			**3.6**	**2.0**	**3.3**	**6.2**	**0.29**
Perfluorohexanesulfonic acid (PFHxS)	355-46-4			**0.49**	**1.3**	**1.1**	**0.75**	**0.43**
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8			0.16	0.16	0.18	0.16	0.16
Perfluorooctanesulfonic acid (PFOS)	1763-23-1			0.44	**1.9**	**4.5**	**1.0**	0.45
Perfluorodecanesulfonic acid (PFDS)	335-77-3			0.26	0.27	0.31	0.27	0.27
Perfluorooctane Sulfonamide (FOSA)	754-91-6			0.29	0.29	0.34	0.29	0.29
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	2355-31-9			2.6	2.6	3.0	2.6	2.6
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	2991-50-6			1.6	1.6	1.8	1.6	1.6
6:2FTS	27619-97-2			1.6	1.7	1.9	1.7	1.7
8:2FTS	39108-34-4			1.6	1.7	1.9	1.7	1.7
4:2 FTS	757124-72-4			4.3	4.3	5.0	4.3	4.3

NOTES:
Results in parts per trillion (ppt)
Concentrations compared to the MDEQ Part 201 Drinking Water Cleanup Criteria dated January 10, 2018
PFOS & PFOA results compared to Rule 57 Human Noncancer Value (HNV): non-drink surface water criteria

Bold-Concentrations above the method detection limit

APPENDIX D

LABORATORY REPORT

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-94070-1

Client Project/Site: Davison Industrial Landfill, Burton, MI

For:

Environmental Resources Group, LLC
28003 Center Oaks Ct.
Suite 106
Wixom, Michigan 48393

Attn: Susan Graves

Kris Brooks

Authorized for release by:
4/30/2018 6:59:43 PM

Kris Brooks, Project Manager II
(330)966-9790
kris.brooks@testamericainc.com

Table of Contents

Qualifiers

LCMS

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	Isotope Dilution analyte is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-94070-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Environmental Resources Group, LLC

Project: Davison Industrial Landfill, Burton, MI

Report Number: 240-94070-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

The Perfluorinated Hydrocarbons analysis was performed at the TestAmerica Sacramento laboratory.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 4/13/2018 8:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3º C.

Receipt Exceptions

The following samples were improperly preserved in the field: SB/MW-9-12 (240-94070-8) and TMW-6 (240-94070-9). The preservative used is not compatible with the analytes requested. No unpreserved volume received for perfluorinated hydrocarbons.

PERFLUORINATED HYDROCARBONS

Samples SB/MW-16-14 (240-94070-1), TMW-01 (240-94070-2), SB/MW-7-12 (240-94070-3), TMW-8 (240-94070-4), FRB (240-94070-5), EQUIP BLANK-01 (240-94070-6), SB/MW-15-14 (240-94070-7) and DUPLICATE-01 (240-94070-10) were analyzed for Perfluorinated Hydrocarbons in accordance with SOP WS-OC-0025. The samples were prepared on 04/24/2018 and analyzed on 04/27/2018.

Perfluorohexanesulfonic acid (PFHxS) was detected in method blank MB 320-219633/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported

Job ID: 240-94070-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Isotope Dilution Analyte (IDA) recovery for M2-6:2FTS is above the method recommended limit for the following samples: SB/MW-16-14 (240-94070-1), TMW-01 (240-94070-2), SB/MW-7-12 (240-94070-3) and SB/MW-15-14 (240-94070-7). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

The Isotope Dilution Analyte (IDA) recovery associated with the following sample is below the method recommended limit for 13C4 PFBA: TMW-01 (240-94070-2). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample.

The following samples SB/MW-15-14 (240-94070-7) in preparation batch 320-219633 were observed to be a yellow color after extraction when the samples were brought to final volume.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED METALS (ICPMS)

Samples SB/MW-16-14 (240-94070-1), TMW-01 (240-94070-2), SB/MW-7-12 (240-94070-3), TMW-8 (240-94070-4), EQUIP BLANK-01 (240-94070-6), SB/MW-15-14 (240-94070-7), SB/MW-9-12 (240-94070-8), TMW-6 (240-94070-9) and DUPLICATE-01 (240-94070-10) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 04/16/2018 and analyzed on 04/19/2018.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL RECOVERABLE METALS (ICPMS)

Samples SB/MW-16-14 (240-94070-1), TMW-01 (240-94070-2), SB/MW-7-12 (240-94070-3), TMW-8 (240-94070-4), EQUIP BLANK-01 (240-94070-6), SB/MW-15-14 (240-94070-7), SB/MW-9-12 (240-94070-8), TMW-6 (240-94070-9) and DUPLICATE-01 (240-94070-10) were analyzed for total recoverable metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 04/16/2018 and analyzed on 04/19/2018.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: Environmental Resources Group, LLC
Project/Site: Davison Industrial Landfill, Burton, MI

TestAmerica Job ID: 240-94070-1

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
6020	Metals (ICP/MS)	SW846	TAL CAN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CAN
3535	Solid-Phase Extraction (SPE)	SW846	TAL SAC

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Environmental Resources Group, LLC
Project/Site: Davison Industrial Landfill, Burton, MI

TestAmerica Job ID: 240-94070-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-94070-1	SB/MW-16-14	Water	04/10/18 10:15	04/13/18 14:14
240-94070-2	TMW-01	Water	04/10/18 12:00	04/13/18 14:14
240-94070-3	SB/MW-7-12	Water	04/10/18 13:44	04/13/18 14:14
240-94070-4	TMW-8	Water	04/10/18 15:30	04/13/18 14:14
240-94070-5	FRB	Water	04/10/18 16:45	04/13/18 14:14
240-94070-6	EQUIP BLANK-01	Water	04/10/18 16:50	04/13/18 14:14
240-94070-7	SB/MW-15-14	Water	04/10/18 17:24	04/13/18 14:14
240-94070-8	SB/MW-9-12	Water	04/11/18 10:45	04/13/18 14:14
240-94070-9	TMW-6	Water	04/11/18 11:35	04/13/18 14:14
240-94070-10	DUPLICATE-01	Water	04/10/18 00:00	04/13/18 14:14

Detection Summary

Client: Environmental Resources Group, LLC
Project/Site: Davison Industrial Landfill, Burton, MI

TestAmerica Job ID: 240-94070-1

Client Sample ID: SB/MW-16-14 — Lab Sample ID: 240-94070-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	17		1.9	0.34	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	10		1.9	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	5.9		1.9	0.56	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.7		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	6.7		1.9	0.82	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.33	J	1.9	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.38	J	1.9	0.30	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.3		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.1	J B	1.9	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.5		1.9	0.52	ng/L	1		537 (modified)	Total/NA
Arsenic	28		5.0	0.75	ug/L	1		6020	Total Recoverable
Arsenic	25		5.0	0.75	ug/L	1		6020	Dissolved

Client Sample ID: TMW-01 — Lab Sample ID: 240-94070-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	15		1.7	0.29	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	10		1.7	0.41	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	6.0		1.7	0.48	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.5		1.7	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	6.3		1.7	0.71	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	6.2		1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.75	J B	1.7	0.14	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.0	J	1.7	0.45	ng/L	1		537 (modified)	Total/NA
Arsenic	1.9	J	5.0	0.75	ug/L	1		6020	Total Recoverable
Arsenic	1.1	J	5.0	0.75	ug/L	1		6020	Dissolved

Client Sample ID: SB/MW-7-12 — Lab Sample ID: 240-94070-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	11		1.6	0.29	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.0	J	1.6	0.40	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.94	J	1.6	0.70	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.6		1.6	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.49	J B	1.6	0.14	ng/L	1		537 (modified)	Total/NA
Arsenic	1.2	J	5.0	0.75	ug/L	1		6020	Total Recoverable
Arsenic	1.2	J	5.0	0.75	ug/L	1		6020	Dissolved

Client Sample ID: TMW-8 — Lab Sample ID: 240-94070-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	0.63	J	1.7	0.29	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.30	J	1.7	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorotetradecanoic acid (PFTeA)	0.33	J	1.7	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.29	J	1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.43	J B	1.7	0.14	ng/L	1		537 (modified)	Total/NA
Arsenic	2.9	J	5.0	0.75	ug/L	1		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: TMW-8 (Continued) — Lab Sample ID: 240-94070-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.9	J	5.0	0.75	ug/L	1		6020	Dissolved

Client Sample ID: FRB — Lab Sample ID: 240-94070-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid (PFHxS)	0.35	J B	1.6	0.14	ng/L	1		537 (modified)	Total/NA

Client Sample ID: EQUIP BLANK-01 — Lab Sample ID: 240-94070-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid (PFHxS)	0.35	J B	1.6	0.14	ng/L	1		537 (modified)	Total/NA

Client Sample ID: SB/MW-15-14 — Lab Sample ID: 240-94070-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	27		1.7	0.29	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	4.6		1.7	0.41	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	6.2		1.7	0.48	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	4.0		1.7	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	5.5		1.7	0.71	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.0		1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.3	J B	1.7	0.14	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.9		1.7	0.45	ng/L	1		537 (modified)	Total/NA
Arsenic	3.0	J	5.0	0.75	ug/L	1		6020	Total Recoverable
Arsenic	1.8	J	5.0	0.75	ug/L	1		6020	Dissolved

Client Sample ID: SB/MW-9-12 — Lab Sample ID: 240-94070-8

No Detections.

Client Sample ID: TMW-6 — Lab Sample ID: 240-94070-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.8	J	5.0	0.75	ug/L	1		6020	Total Recoverable
Arsenic	2.2	J	5.0	0.75	ug/L	1		6020	Dissolved

Client Sample ID: DUPLICATE-01 — Lab Sample ID: 240-94070-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	0.63	J	1.7	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.25	J	1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.33	J B	1.7	0.14	ng/L	1		537 (modified)	Total/NA
Arsenic	2.7	J	5.0	0.75	ug/L	1		6020	Total Recoverable
Arsenic	2.8	J	5.0	0.75	ug/L	1		6020	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB/MW-16-14

Date Collected: 04/10/18 10:15
Date Received: 04/13/18 14:14

Lab Sample ID: 240-94070-1

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**17**		1.9	0.34	ng/L		04/24/18 20:53	04/27/18 04:46	1
Perfluoropentanoic acid (PFPeA)	**10**		1.9	0.47	ng/L		04/24/18 20:53	04/27/18 04:46	1
Perfluorohexanoic acid (PFHxA)	**5.9**		1.9	0.56	ng/L		04/24/18 20:53	04/27/18 04:46	1
Perfluoroheptanoic acid (PFHpA)	**2.7**		1.9	0.24	ng/L		04/24/18 20:53	04/27/18 04:46	1
Perfluorooctanoic acid (PFOA)	**6.7**		1.9	0.82	ng/L		04/24/18 20:53	04/27/18 04:46	1
Perfluorononanoic acid (PFNA)	**0.33**	**J**	1.9	0.26	ng/L		04/24/18 20:53	04/27/18 04:46	1
Perfluorodecanoic acid (PFDA)	**0.38**	**J**	1.9	0.30	ng/L		04/24/18 20:53	04/27/18 04:46	1
Perfluoroundecanoic acid (PFUnA)	1.1	U	1.9	1.1	ng/L		04/24/18 20:53	04/27/18 04:46	1
Perfluorododecanoic acid (PFDoA)	0.53	U	1.9	0.53	ng/L		04/24/18 20:53	04/27/18 04:46	1
Perfluorotridecanoic Acid (PFTriA)	1.3	U	1.9	1.3	ng/L		04/24/18 20:53	04/27/18 04:46	1
Perfluorotetradecanoic acid (PFTeA)	0.28	U	1.9	0.28	ng/L		04/24/18 20:53	04/27/18 04:46	1
Perfluorobutanesulfonic acid (PFBS)	**3.3**		1.9	0.19	ng/L		04/24/18 20:53	04/27/18 04:46	1
Perfluorohexanesulfonic acid (PFHxS)	**1.1**	**J B**	1.9	0.16	ng/L		04/24/18 20:53	04/27/18 04:46	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.18	U	1.9	0.18	ng/L		04/24/18 20:53	04/27/18 04:46	1
Perfluorooctanesulfonic acid (PFOS)	**4.5**		1.9	0.52	ng/L		04/24/18 20:53	04/27/18 04:46	1
Perfluorodecanesulfonic acid (PFDS)	0.31	U	1.9	0.31	ng/L		04/24/18 20:53	04/27/18 04:46	1
Perfluorooctane Sulfonamide (FOSA)	0.34	U	1.9	0.34	ng/L		04/24/18 20:53	04/27/18 04:46	1
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	3.0	U	19	3.0	ng/L		04/24/18 20:53	04/27/18 04:46	1
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	1.8	U	19	1.8	ng/L		04/24/18 20:53	04/27/18 04:46	1
6:2FTS	1.9	U	19	1.9	ng/L		04/24/18 20:53	04/27/18 04:46	1
8:2FTS	1.9	U	19	1.9	ng/L		04/24/18 20:53	04/27/18 04:46	1
4:2 FTS	5.0	U	19	5.0	ng/L		04/24/18 20:53	04/27/18 04:46	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*34*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:46*	*1*
13C5 PFPeA	*71*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:46*	*1*
13C2 PFHxA	*84*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:46*	*1*
13C4-PFHpA	*100*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:46*	*1*
13C4 PFOA	*104*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:46*	*1*
13C5 PFNA	*106*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:46*	*1*
13C2 PFDA	*100*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:46*	*1*
13C2 PFUnA	*88*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:46*	*1*
13C2 PFDoA	*79*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:46*	*1*
13C2-PFTeDA	*83*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:46*	*1*
13C3-PFBS	*92*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:46*	*1*
18O2 PFHxS	*103*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:46*	*1*
13C4 PFOS	*99*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:46*	*1*
13C8 FOSA	*94*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:46*	*1*
d3-NMeFOSAA	*95*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:46*	*1*
d5-NEtFOSAA	*100*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:46*	*1*
M2-6:2FTS	*186*	*	*25 - 150*	*04/24/18 20:53*	*04/27/18 04:46*	*1*
M2-8:2FTS	*130*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:46*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**28**		5.0	0.75	ug/L		04/16/18 14:00	04/19/18 02:27	1

Client: Environmental Resources Group, LLC
Project/Site: Davison Industrial Landfill, Burton, MI

TestAmerica Job ID: 240-94070-1

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	25		5.0	0.75	ug/L		04/16/18 14:00	04/19/18 02:58	1

Client Sample ID: TMW-01

Date Collected: 04/10/18 12:00
Date Received: 04/13/18 14:14

Lab Sample ID: 240-94070-2

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**15**		1.7	0.29	ng/L		04/24/18 20:53	04/27/18 04:54	1
Perfluoropentanoic acid (PFPeA)	**10**		1.7	0.41	ng/L		04/24/18 20:53	04/27/18 04:54	1
Perfluorohexanoic acid (PFHxA)	**6.0**		1.7	0.48	ng/L		04/24/18 20:53	04/27/18 04:54	1
Perfluoroheptanoic acid (PFHpA)	**3.5**		1.7	0.21	ng/L		04/24/18 20:53	04/27/18 04:54	1
Perfluorooctanoic acid (PFOA)	**6.3**		1.7	0.71	ng/L		04/24/18 20:53	04/27/18 04:54	1
Perfluorononanoic acid (PFNA)	0.23	U	1.7	0.23	ng/L		04/24/18 20:53	04/27/18 04:54	1
Perfluorodecanoic acid (PFDA)	0.26	U	1.7	0.26	ng/L		04/24/18 20:53	04/27/18 04:54	1
Perfluoroundecanoic acid (PFUnA)	0.92	U	1.7	0.92	ng/L		04/24/18 20:53	04/27/18 04:54	1
Perfluorododecanoic acid (PFDoA)	0.46	U	1.7	0.46	ng/L		04/24/18 20:53	04/27/18 04:54	1
Perfluorotridecanoic Acid (PFTriA)	1.1	U	1.7	1.1	ng/L		04/24/18 20:53	04/27/18 04:54	1
Perfluorotetradecanoic acid (PFTeA)	0.24	U	1.7	0.24	ng/L		04/24/18 20:53	04/27/18 04:54	1
Perfluorobutanesulfonic acid (PFBS)	**6.2**		1.7	0.17	ng/L		04/24/18 20:53	04/27/18 04:54	1
Perfluorohexanesulfonic acid (PFHxS)	**0.75**	**J B**	1.7	0.14	ng/L		04/24/18 20:53	04/27/18 04:54	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.16	U	1.7	0.16	ng/L		04/24/18 20:53	04/27/18 04:54	1
Perfluorooctanesulfonic acid (PFOS)	**1.0**	**J**	1.7	0.45	ng/L		04/24/18 20:53	04/27/18 04:54	1
Perfluorodecanesulfonic acid (PFDS)	0.27	U	1.7	0.27	ng/L		04/24/18 20:53	04/27/18 04:54	1
Perfluorooctane Sulfonamide (FOSA)	0.29	U	1.7	0.29	ng/L		04/24/18 20:53	04/27/18 04:54	1
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	2.6	U	17	2.6	ng/L		04/24/18 20:53	04/27/18 04:54	1
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	1.6	U	17	1.6	ng/L		04/24/18 20:53	04/27/18 04:54	1
6:2FTS	1.7	U	17	1.7	ng/L		04/24/18 20:53	04/27/18 04:54	1
8:2FTS	1.7	U	17	1.7	ng/L		04/24/18 20:53	04/27/18 04:54	1
4:2 FTS	4.3	U	17	4.3	ng/L		04/24/18 20:53	04/27/18 04:54	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*22*	*	*25 - 150*	*04/24/18 20:53*	*04/27/18 04:54*	*1*
13C5 PFPeA	*56*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:54*	*1*
13C2 PFHxA	*73*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:54*	*1*
13C4-PFHpA	*87*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:54*	*1*
13C4 PFOA	*102*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:54*	*1*
13C5 PFNA	*106*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:54*	*1*
13C2 PFDA	*100*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:54*	*1*
13C2 PFUnA	*94*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:54*	*1*
13C2 PFDoA	*88*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:54*	*1*
13C2-PFTeDA	*89*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:54*	*1*
13C3-PFBS	*80*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:54*	*1*
18O2 PFHxS	*99*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:54*	*1*
13C4 PFOS	*99*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:54*	*1*
13C8 FOSA	*93*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:54*	*1*
d3-NMeFOSAA	*101*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:54*	*1*
d5-NEtFOSAA	*101*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:54*	*1*
M2-6:2FTS	*205*	*	*25 - 150*	*04/24/18 20:53*	*04/27/18 04:54*	*1*
M2-8:2FTS	*130*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:54*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.9**	**J**	5.0	0.75	ug/L		04/16/18 14:00	04/19/18 03:03	1

Client: Environmental Resources Group, LLC
Project/Site: Davison Industrial Landfill, Burton, MI

TestAmerica Job ID: 240-94070-1

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.1	J	5.0	0.75	ug/L		04/16/18 14:00	04/19/18 03:07	1

Client Sample ID: SB/MW-7-12

Date Collected: 04/10/18 13:44
Date Received: 04/13/18 14:14

Lab Sample ID: 240-94070-3

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**11**		1.6	0.29	ng/L		04/24/18 20:53	04/27/18 05:02	1
Perfluoropentanoic acid (PFPeA)	**1.0**	**J**	1.6	0.40	ng/L		04/24/18 20:53	04/27/18 05:02	1
Perfluorohexanoic acid (PFHxA)	0.48	U	1.6	0.48	ng/L		04/24/18 20:53	04/27/18 05:02	1
Perfluoroheptanoic acid (PFHpA)	0.21	U	1.6	0.21	ng/L		04/24/18 20:53	04/27/18 05:02	1
Perfluorooctanoic acid (PFOA)	**0.94**	**J**	1.6	0.70	ng/L		04/24/18 20:53	04/27/18 05:02	1
Perfluorononanoic acid (PFNA)	0.22	U	1.6	0.22	ng/L		04/24/18 20:53	04/27/18 05:02	1
Perfluorodecanoic acid (PFDA)	0.26	U	1.6	0.26	ng/L		04/24/18 20:53	04/27/18 05:02	1
Perfluoroundecanoic acid (PFUnA)	0.91	U	1.6	0.91	ng/L		04/24/18 20:53	04/27/18 05:02	1
Perfluorododecanoic acid (PFDoA)	0.45	U	1.6	0.45	ng/L		04/24/18 20:53	04/27/18 05:02	1
Perfluorotridecanoic Acid (PFTriA)	1.1	U	1.6	1.1	ng/L		04/24/18 20:53	04/27/18 05:02	1
Perfluorotetradecanoic acid (PFTeA)	0.24	U	1.6	0.24	ng/L		04/24/18 20:53	04/27/18 05:02	1
Perfluorobutanesulfonic acid (PFBS)	**3.6**		1.6	0.16	ng/L		04/24/18 20:53	04/27/18 05:02	1
Perfluorohexanesulfonic acid (PFHxS)	**0.49**	**J B**	1.6	0.14	ng/L		04/24/18 20:53	04/27/18 05:02	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.16	U	1.6	0.16	ng/L		04/24/18 20:53	04/27/18 05:02	1
Perfluorooctanesulfonic acid (PFOS)	0.44	U	1.6	0.44	ng/L		04/24/18 20:53	04/27/18 05:02	1
Perfluorodecanesulfonic acid (PFDS)	0.26	U	1.6	0.26	ng/L		04/24/18 20:53	04/27/18 05:02	1
Perfluorooctane Sulfonamide (FOSA)	0.29	U	1.6	0.29	ng/L		04/24/18 20:53	04/27/18 05:02	1
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	2.6	U	16	2.6	ng/L		04/24/18 20:53	04/27/18 05:02	1
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	1.6	U	16	1.6	ng/L		04/24/18 20:53	04/27/18 05:02	1
6:2FTS	1.6	U	16	1.6	ng/L		04/24/18 20:53	04/27/18 05:02	1
8:2FTS	1.6	U	16	1.6	ng/L		04/24/18 20:53	04/27/18 05:02	1
4:2 FTS	4.3	U	16	4.3	ng/L		04/24/18 20:53	04/27/18 05:02	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*28*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:02*	*1*
13C5 PFPeA	*65*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:02*	*1*
13C2 PFHxA	*84*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:02*	*1*
13C4-PFHpA	*93*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:02*	*1*
13C4 PFOA	*99*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:02*	*1*
13C5 PFNA	*97*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:02*	*1*
13C2 PFDA	*95*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:02*	*1*
13C2 PFUnA	*88*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:02*	*1*
13C2 PFDoA	*78*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:02*	*1*
13C2-PFTeDA	*79*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:02*	*1*
13C3-PFBS	*80*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:02*	*1*
18O2 PFHxS	*99*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:02*	*1*
13C4 PFOS	*92*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:02*	*1*
13C8 FOSA	*93*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:02*	*1*
d3-NMeFOSAA	*91*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:02*	*1*
d5-NEtFOSAA	*92*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:02*	*1*
M2-6:2FTS	*152*	*	*25 - 150*	*04/24/18 20:53*	*04/27/18 05:02*	*1*
M2-8:2FTS	*103*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:02*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.2**	**J**	5.0	0.75	ug/L		04/16/18 14:00	04/19/18 03:21	1

Client: Environmental Resources Group, LLC
Project/Site: Davison Industrial Landfill, Burton, MI

TestAmerica Job ID: 240-94070-1

Client Sample ID: SB/MW-7-12
Date Collected: 04/10/18 13:44
Date Received: 04/13/18 14:14

Lab Sample ID: 240-94070-3
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.2	J	5.0	0.75	ug/L		04/16/18 14:00	04/19/18 03:25	1

Client Sample ID: TMW-8
Date Collected: 04/10/18 15:30
Date Received: 04/13/18 14:14

Lab Sample ID: 240-94070-4
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.63**	**J**	1.7	0.29	ng/L		04/24/18 20:53	04/27/18 05:18	1
Perfluoropentanoic acid (PFPeA)	0.41	U	1.7	0.41	ng/L		04/24/18 20:53	04/27/18 05:18	1
Perfluorohexanoic acid (PFHxA)	0.48	U	1.7	0.48	ng/L		04/24/18 20:53	04/27/18 05:18	1
Perfluoroheptanoic acid (PFHpA)	**0.30**	**J**	1.7	0.21	ng/L		04/24/18 20:53	04/27/18 05:18	1
Perfluorooctanoic acid (PFOA)	0.71	U	1.7	0.71	ng/L		04/24/18 20:53	04/27/18 05:18	1
Perfluorononanoic acid (PFNA)	0.22	U	1.7	0.22	ng/L		04/24/18 20:53	04/27/18 05:18	1
Perfluorodecanoic acid (PFDA)	0.26	U	1.7	0.26	ng/L		04/24/18 20:53	04/27/18 05:18	1
Perfluoroundecanoic acid (PFUnA)	0.92	U	1.7	0.92	ng/L		04/24/18 20:53	04/27/18 05:18	1
Perfluorododecanoic acid (PFDoA)	0.46	U	1.7	0.46	ng/L		04/24/18 20:53	04/27/18 05:18	1
Perfluorotridecanoic Acid (PFTriA)	1.1	U	1.7	1.1	ng/L		04/24/18 20:53	04/27/18 05:18	1
Perfluorotetradecanoic acid (PFTeA)	**0.33**	**J**	1.7	0.24	ng/L		04/24/18 20:53	04/27/18 05:18	1
Perfluorobutanesulfonic acid (PFBS)	**0.29**	**J**	1.7	0.17	ng/L		04/24/18 20:53	04/27/18 05:18	1
Perfluorohexanesulfonic acid (PFHxS)	**0.43**	**J B**	1.7	0.14	ng/L		04/24/18 20:53	04/27/18 05:18	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.16	U	1.7	0.16	ng/L		04/24/18 20:53	04/27/18 05:18	1
Perfluorooctanesulfonic acid (PFOS)	0.45	U	1.7	0.45	ng/L		04/24/18 20:53	04/27/18 05:18	1
Perfluorodecanesulfonic acid (PFDS)	0.27	U	1.7	0.27	ng/L		04/24/18 20:53	04/27/18 05:18	1
Perfluorooctane Sulfonamide (FOSA)	0.29	U	1.7	0.29	ng/L		04/24/18 20:53	04/27/18 05:18	1
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	2.6	U	17	2.6	ng/L		04/24/18 20:53	04/27/18 05:18	1
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	1.6	U	17	1.6	ng/L		04/24/18 20:53	04/27/18 05:18	1
6:2FTS	1.7	U	17	1.7	ng/L		04/24/18 20:53	04/27/18 05:18	1
8:2FTS	1.7	U	17	1.7	ng/L		04/24/18 20:53	04/27/18 05:18	1
4:2 FTS	4.3	U	17	4.3	ng/L		04/24/18 20:53	04/27/18 05:18	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*49*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:18*	*1*
13C5 PFPeA	*85*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:18*	*1*
13C2 PFHxA	*99*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:18*	*1*
13C4-PFHpA	*105*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:18*	*1*
13C4 PFOA	*102*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:18*	*1*
13C5 PFNA	*105*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:18*	*1*
13C2 PFDA	*101*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:18*	*1*
13C2 PFUnA	*88*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:18*	*1*
13C2 PFDoA	*85*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:18*	*1*
13C2-PFTeDA	*81*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:18*	*1*
13C3-PFBS	*94*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:18*	*1*
18O2 PFHxS	*101*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:18*	*1*
13C4 PFOS	*98*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:18*	*1*
13C8 FOSA	*94*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:18*	*1*
d3-NMeFOSAA	*88*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:18*	*1*
d5-NEtFOSAA	*95*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:18*	*1*
M2-6:2FTS	*132*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:18*	*1*
M2-8:2FTS	*105*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:18*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.9**	**J**	5.0	0.75	ug/L		04/16/18 14:00	04/19/18 03:30	1

Client: Environmental Resources Group, LLC
Project/Site: Davison Industrial Landfill, Burton, MI

TestAmerica Job ID: 240-94070-1

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.9	J	5.0	0.75	ug/L		04/16/18 14:00	04/19/18 03:35	1

Client: Environmental Resources Group, LLC
Project/Site: Davison Industrial Landfill, Burton, MI

TestAmerica Job ID: 240-94070-1

Client Sample ID: FRB
Date Collected: 04/10/18 16:45
Date Received: 04/13/18 14:14

Lab Sample ID: 240-94070-5
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.29	U	1.6	0.29	ng/L		04/24/18 20:53	04/27/18 05:25	1
Perfluoropentanoic acid (PFPeA)	0.40	U	1.6	0.40	ng/L		04/24/18 20:53	04/27/18 05:25	1
Perfluorohexanoic acid (PFHxA)	0.48	U	1.6	0.48	ng/L		04/24/18 20:53	04/27/18 05:25	1
Perfluoroheptanoic acid (PFHpA)	0.20	U	1.6	0.20	ng/L		04/24/18 20:53	04/27/18 05:25	1
Perfluorooctanoic acid (PFOA)	0.70	U	1.6	0.70	ng/L		04/24/18 20:53	04/27/18 05:25	1
Perfluorononanoic acid (PFNA)	0.22	U	1.6	0.22	ng/L		04/24/18 20:53	04/27/18 05:25	1
Perfluorodecanoic acid (PFDA)	0.25	U	1.6	0.25	ng/L		04/24/18 20:53	04/27/18 05:25	1
Perfluoroundecanoic acid (PFUnA)	0.90	U	1.6	0.90	ng/L		04/24/18 20:53	04/27/18 05:25	1
Perfluorododecanoic acid (PFDoA)	0.45	U	1.6	0.45	ng/L		04/24/18 20:53	04/27/18 05:25	1
Perfluorotridecanoic Acid (PFTriA)	1.1	U	1.6	1.1	ng/L		04/24/18 20:53	04/27/18 05:25	1
Perfluorotetradecanoic acid (PFTeA)	0.24	U	1.6	0.24	ng/L		04/24/18 20:53	04/27/18 05:25	1
Perfluorobutanesulfonic acid (PFBS)	0.16	U	1.6	0.16	ng/L		04/24/18 20:53	04/27/18 05:25	1
Perfluorohexanesulfonic acid (PFHxS)	**0.35**	**J B**	1.6	0.14	ng/L		04/24/18 20:53	04/27/18 05:25	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.16	U	1.6	0.16	ng/L		04/24/18 20:53	04/27/18 05:25	1
Perfluorooctanesulfonic acid (PFOS)	0.44	U	1.6	0.44	ng/L		04/24/18 20:53	04/27/18 05:25	1
Perfluorodecanesulfonic acid (PFDS)	0.26	U	1.6	0.26	ng/L		04/24/18 20:53	04/27/18 05:25	1
Perfluorooctane Sulfonamide (FOSA)	0.29	U	1.6	0.29	ng/L		04/24/18 20:53	04/27/18 05:25	1
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	2.5	U	16	2.5	ng/L		04/24/18 20:53	04/27/18 05:25	1
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	1.6	U	16	1.6	ng/L		04/24/18 20:53	04/27/18 05:25	1
6:2FTS	1.6	U	16	1.6	ng/L		04/24/18 20:53	04/27/18 05:25	1
8:2FTS	1.6	U	16	1.6	ng/L		04/24/18 20:53	04/27/18 05:25	1
4:2 FTS	4.3	U	16	4.3	ng/L		04/24/18 20:53	04/27/18 05:25	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*100*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:25*	*1*
13C5 PFPeA	*102*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:25*	*1*
13C2 PFHxA	*99*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:25*	*1*
13C4-PFHpA	*99*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:25*	*1*
13C4 PFOA	*110*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:25*	*1*
13C5 PFNA	*109*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:25*	*1*
13C2 PFDA	*101*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:25*	*1*
13C2 PFUnA	*101*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:25*	*1*
13C2 PFDoA	*92*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:25*	*1*
13C2-PFTeDA	*93*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:25*	*1*
13C3-PFBS	*102*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:25*	*1*
18O2 PFHxS	*106*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:25*	*1*
13C4 PFOS	*102*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:25*	*1*
13C8 FOSA	*91*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:25*	*1*
d3-NMeFOSAA	*97*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:25*	*1*
d5-NEtFOSAA	*111*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:25*	*1*
M2-6:2FTS	*114*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:25*	*1*
M2-8:2FTS	*108*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:25*	*1*

Client: Environmental Resources Group, LLC
Project/Site: Davison Industrial Landfill, Burton, MI

TestAmerica Job ID: 240-94070-1

Client Sample ID: EQUIP BLANK-01

Date Collected: 04/10/18 16:50
Date Received: 04/13/18 14:14

Lab Sample ID: 240-94070-6

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.28	U	1.6	0.28	ng/L		04/24/18 20:53	04/27/18 05:33	1
Perfluoropentanoic acid (PFPeA)	0.40	U	1.6	0.40	ng/L		04/24/18 20:53	04/27/18 05:33	1
Perfluorohexanoic acid (PFHxA)	0.47	U	1.6	0.47	ng/L		04/24/18 20:53	04/27/18 05:33	1
Perfluoroheptanoic acid (PFHpA)	0.20	U	1.6	0.20	ng/L		04/24/18 20:53	04/27/18 05:33	1
Perfluorooctanoic acid (PFOA)	0.69	U	1.6	0.69	ng/L		04/24/18 20:53	04/27/18 05:33	1
Perfluorononanoic acid (PFNA)	0.22	U	1.6	0.22	ng/L		04/24/18 20:53	04/27/18 05:33	1
Perfluorodecanoic acid (PFDA)	0.25	U	1.6	0.25	ng/L		04/24/18 20:53	04/27/18 05:33	1
Perfluoroundecanoic acid (PFUnA)	0.89	U	1.6	0.89	ng/L		04/24/18 20:53	04/27/18 05:33	1
Perfluorododecanoic acid (PFDoA)	0.44	U	1.6	0.44	ng/L		04/24/18 20:53	04/27/18 05:33	1
Perfluorotridecanoic Acid (PFTriA)	1.1	U	1.6	1.1	ng/L		04/24/18 20:53	04/27/18 05:33	1
Perfluorotetradecanoic acid (PFTeA)	0.23	U	1.6	0.23	ng/L		04/24/18 20:53	04/27/18 05:33	1
Perfluorobutanesulfonic acid (PFBS)	0.16	U	1.6	0.16	ng/L		04/24/18 20:53	04/27/18 05:33	1
Perfluorohexanesulfonic acid (PFHxS)	**0.35**	**J B**	1.6	0.14	ng/L		04/24/18 20:53	04/27/18 05:33	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.15	U	1.6	0.15	ng/L		04/24/18 20:53	04/27/18 05:33	1
Perfluorooctanesulfonic acid (PFOS)	0.44	U	1.6	0.44	ng/L		04/24/18 20:53	04/27/18 05:33	1
Perfluorodecanesulfonic acid (PFDS)	0.26	U	1.6	0.26	ng/L		04/24/18 20:53	04/27/18 05:33	1
Perfluorooctane Sulfonamide (FOSA)	0.28	U	1.6	0.28	ng/L		04/24/18 20:53	04/27/18 05:33	1
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	2.5	U	16	2.5	ng/L		04/24/18 20:53	04/27/18 05:33	1
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	1.5	U	16	1.5	ng/L		04/24/18 20:53	04/27/18 05:33	1
6:2FTS	1.6	U	16	1.6	ng/L		04/24/18 20:53	04/27/18 05:33	1
8:2FTS	1.6	U	16	1.6	ng/L		04/24/18 20:53	04/27/18 05:33	1
4:2 FTS	4.2	U	16	4.2	ng/L		04/24/18 20:53	04/27/18 05:33	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*103*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:33*	*1*
13C5 PFPeA	*106*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:33*	*1*
13C2 PFHxA	*108*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:33*	*1*
13C4-PFHpA	*105*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:33*	*1*
13C4 PFOA	*103*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:33*	*1*
13C5 PFNA	*107*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:33*	*1*
13C2 PFDA	*103*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:33*	*1*
13C2 PFUnA	*100*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:33*	*1*
13C2 PFDoA	*95*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:33*	*1*
13C2-PFTeDA	*96*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:33*	*1*
13C3-PFBS	*101*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:33*	*1*
18O2 PFHxS	*102*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:33*	*1*
13C4 PFOS	*102*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:33*	*1*
13C8 FOSA	*95*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:33*	*1*
d3-NMeFOSAA	*102*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:33*	*1*
d5-NEtFOSAA	*105*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:33*	*1*
M2-6:2FTS	*109*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:33*	*1*
M2-8:2FTS	*108*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:33*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.75	U	5.0	0.75	ug/L		04/16/18 14:00	04/19/18 03:39	1

Client: Environmental Resources Group, LLC
Project/Site: Davison Industrial Landfill, Burton, MI

TestAmerica Job ID: 240-94070-1

Client Sample ID: EQUIP BLANK-01
Date Collected: 04/10/18 16:50
Date Received: 04/13/18 14:14

Lab Sample ID: 240-94070-6
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.75	U	5.0	0.75	ug/L		04/16/18 14:00	04/19/18 03:44	1

Client Sample ID: SB/MW-15-14

Date Collected: 04/10/18 17:24
Date Received: 04/13/18 14:14

Lab Sample ID: 240-94070-7

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**27**		1.7	0.29	ng/L		04/24/18 20:53	04/27/18 05:49	1
Perfluoropentanoic acid (PFPeA)	**4.6**		1.7	0.41	ng/L		04/24/18 20:53	04/27/18 05:49	1
Perfluorohexanoic acid (PFHxA)	**6.2**		1.7	0.48	ng/L		04/24/18 20:53	04/27/18 05:49	1
Perfluoroheptanoic acid (PFHpA)	**4.0**		1.7	0.21	ng/L		04/24/18 20:53	04/27/18 05:49	1
Perfluorooctanoic acid (PFOA)	**5.5**		1.7	0.71	ng/L		04/24/18 20:53	04/27/18 05:49	1
Perfluorononanoic acid (PFNA)	0.22	U	1.7	0.22	ng/L		04/24/18 20:53	04/27/18 05:49	1
Perfluorodecanoic acid (PFDA)	0.26	U	1.7	0.26	ng/L		04/24/18 20:53	04/27/18 05:49	1
Perfluoroundecanoic acid (PFUnA)	0.91	U	1.7	0.91	ng/L		04/24/18 20:53	04/27/18 05:49	1
Perfluorododecanoic acid (PFDoA)	0.46	U	1.7	0.46	ng/L		04/24/18 20:53	04/27/18 05:49	1
Perfluorotridecanoic Acid (PFTriA)	1.1	U	1.7	1.1	ng/L		04/24/18 20:53	04/27/18 05:49	1
Perfluorotetradecanoic acid (PFTeA)	0.24	U	1.7	0.24	ng/L		04/24/18 20:53	04/27/18 05:49	1
Perfluorobutanesulfonic acid (PFBS)	**2.0**		1.7	0.17	ng/L		04/24/18 20:53	04/27/18 05:49	1
Perfluorohexanesulfonic acid (PFHxS)	**1.3**	**J B**	1.7	0.14	ng/L		04/24/18 20:53	04/27/18 05:49	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.16	U	1.7	0.16	ng/L		04/24/18 20:53	04/27/18 05:49	1
Perfluorooctanesulfonic acid (PFOS)	**1.9**		1.7	0.45	ng/L		04/24/18 20:53	04/27/18 05:49	1
Perfluorodecanesulfonic acid (PFDS)	0.27	U	1.7	0.27	ng/L		04/24/18 20:53	04/27/18 05:49	1
Perfluorooctane Sulfonamide (FOSA)	0.29	U	1.7	0.29	ng/L		04/24/18 20:53	04/27/18 05:49	1
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	2.6	U	17	2.6	ng/L		04/24/18 20:53	04/27/18 05:49	1
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	1.6	U	17	1.6	ng/L		04/24/18 20:53	04/27/18 05:49	1
6:2FTS	1.7	U	17	1.7	ng/L		04/24/18 20:53	04/27/18 05:49	1
8:2FTS	1.7	U	17	1.7	ng/L		04/24/18 20:53	04/27/18 05:49	1
4:2 FTS	4.3	U	17	4.3	ng/L		04/24/18 20:53	04/27/18 05:49	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*27*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:49*	*1*
13C5 PFPeA	*64*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:49*	*1*
13C2 PFHxA	*77*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:49*	*1*
13C4-PFHpA	*89*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:49*	*1*
13C4 PFOA	*103*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:49*	*1*
13C5 PFNA	*110*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:49*	*1*
13C2 PFDA	*107*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:49*	*1*
13C2 PFUnA	*93*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:49*	*1*
13C2 PFDoA	*85*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:49*	*1*
13C2-PFTeDA	*81*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:49*	*1*
13C3-PFBS	*86*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:49*	*1*
18O2 PFHxS	*100*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:49*	*1*
13C4 PFOS	*103*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:49*	*1*
13C8 FOSA	*94*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:49*	*1*
d3-NMeFOSAA	*101*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:49*	*1*
d5-NEtFOSAA	*101*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:49*	*1*
M2-6:2FTS	*200*	*	*25 - 150*	*04/24/18 20:53*	*04/27/18 05:49*	*1*
M2-8:2FTS	*128*		*25 - 150*	*04/24/18 20:53*	*04/27/18 05:49*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.0**	**J**	5.0	0.75	ug/L		04/16/18 14:00	04/19/18 03:48	1

Client: Environmental Resources Group, LLC
Project/Site: Davison Industrial Landfill, Burton, MI

TestAmerica Job ID: 240-94070-1

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.8	J	5.0	0.75	ug/L		04/16/18 14:00	04/19/18 03:53	1

Client: Environmental Resources Group, LLC
Project/Site: Davison Industrial Landfill, Burton, MI

TestAmerica Job ID: 240-94070-1

Client Sample ID: SB/MW-9-12
Date Collected: 04/11/18 10:45
Date Received: 04/13/18 14:14

Lab Sample ID: 240-94070-8
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.75	U	5.0	0.75	ug/L		04/16/18 14:00	04/19/18 03:57	1

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.75	U	5.0	0.75	ug/L		04/16/18 14:00	04/19/18 04:02	1

Client: Environmental Resources Group, LLC
Project/Site: Davison Industrial Landfill, Burton, MI

TestAmerica Job ID: 240-94070-1

Client Sample ID: TMW-6
Date Collected: 04/11/18 11:35
Date Received: 04/13/18 14:14

Lab Sample ID: 240-94070-9
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.8	J	5.0	0.75	ug/L		04/16/18 14:00	04/19/18 04:15	1

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.2	J	5.0	0.75	ug/L		04/16/18 14:00	04/19/18 04:20	1

Client Sample ID: DUPLICATE-01

Date Collected: 04/10/18 00:00
Date Received: 04/13/18 14:14

Lab Sample ID: 240-94070-10

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.63**	**J**	1.7	0.29	ng/L		04/24/18 20:53	04/27/18 06:05	1
Perfluoropentanoic acid (PFPeA)	0.41	U	1.7	0.41	ng/L		04/24/18 20:53	04/27/18 06:05	1
Perfluorohexanoic acid (PFHxA)	0.48	U	1.7	0.48	ng/L		04/24/18 20:53	04/27/18 06:05	1
Perfluoroheptanoic acid (PFHpA)	0.21	U	1.7	0.21	ng/L		04/24/18 20:53	04/27/18 06:05	1
Perfluorooctanoic acid (PFOA)	0.71	U	1.7	0.71	ng/L		04/24/18 20:53	04/27/18 06:05	1
Perfluorononanoic acid (PFNA)	0.22	U	1.7	0.22	ng/L		04/24/18 20:53	04/27/18 06:05	1
Perfluorodecanoic acid (PFDA)	0.26	U	1.7	0.26	ng/L		04/24/18 20:53	04/27/18 06:05	1
Perfluoroundecanoic acid (PFUnA)	0.91	U	1.7	0.91	ng/L		04/24/18 20:53	04/27/18 06:05	1
Perfluorododecanoic acid (PFDoA)	0.46	U	1.7	0.46	ng/L		04/24/18 20:53	04/27/18 06:05	1
Perfluorotridecanoic Acid (PFTriA)	1.1	U	1.7	1.1	ng/L		04/24/18 20:53	04/27/18 06:05	1
Perfluorotetradecanoic acid (PFTeA)	0.24	U	1.7	0.24	ng/L		04/24/18 20:53	04/27/18 06:05	1
Perfluorobutanesulfonic acid (PFBS)	**0.25**	**J**	1.7	0.17	ng/L		04/24/18 20:53	04/27/18 06:05	1
Perfluorohexanesulfonic acid (PFHxS)	**0.33**	**J B**	1.7	0.14	ng/L		04/24/18 20:53	04/27/18 06:05	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.16	U	1.7	0.16	ng/L		04/24/18 20:53	04/27/18 06:05	1
Perfluorooctanesulfonic acid (PFOS)	0.45	U	1.7	0.45	ng/L		04/24/18 20:53	04/27/18 06:05	1
Perfluorodecanesulfonic acid (PFDS)	0.27	U	1.7	0.27	ng/L		04/24/18 20:53	04/27/18 06:05	1
Perfluorooctane Sulfonamide (FOSA)	0.29	U	1.7	0.29	ng/L		04/24/18 20:53	04/27/18 06:05	1
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	2.6	U	17	2.6	ng/L		04/24/18 20:53	04/27/18 06:05	1
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	1.6	U	17	1.6	ng/L		04/24/18 20:53	04/27/18 06:05	1
6:2FTS	1.7	U	17	1.7	ng/L		04/24/18 20:53	04/27/18 06:05	1
8:2FTS	1.7	U	17	1.7	ng/L		04/24/18 20:53	04/27/18 06:05	1
4:2 FTS	4.3	U	17	4.3	ng/L		04/24/18 20:53	04/27/18 06:05	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*47*		*25 - 150*	*04/24/18 20:53*	*04/27/18 06:05*	*1*
13C5 PFPeA	*81*		*25 - 150*	*04/24/18 20:53*	*04/27/18 06:05*	*1*
13C2 PFHxA	*92*		*25 - 150*	*04/24/18 20:53*	*04/27/18 06:05*	*1*
13C4-PFHpA	*93*		*25 - 150*	*04/24/18 20:53*	*04/27/18 06:05*	*1*
13C4 PFOA	*98*		*25 - 150*	*04/24/18 20:53*	*04/27/18 06:05*	*1*
13C5 PFNA	*99*		*25 - 150*	*04/24/18 20:53*	*04/27/18 06:05*	*1*
13C2 PFDA	*96*		*25 - 150*	*04/24/18 20:53*	*04/27/18 06:05*	*1*
13C2 PFUnA	*91*		*25 - 150*	*04/24/18 20:53*	*04/27/18 06:05*	*1*
13C2 PFDoA	*86*		*25 - 150*	*04/24/18 20:53*	*04/27/18 06:05*	*1*
13C2-PFTeDA	*83*		*25 - 150*	*04/24/18 20:53*	*04/27/18 06:05*	*1*
13C3-PFBS	*86*		*25 - 150*	*04/24/18 20:53*	*04/27/18 06:05*	*1*
18O2 PFHxS	*97*		*25 - 150*	*04/24/18 20:53*	*04/27/18 06:05*	*1*
13C4 PFOS	*93*		*25 - 150*	*04/24/18 20:53*	*04/27/18 06:05*	*1*
13C8 FOSA	*89*		*25 - 150*	*04/24/18 20:53*	*04/27/18 06:05*	*1*
d3-NMeFOSAA	*91*		*25 - 150*	*04/24/18 20:53*	*04/27/18 06:05*	*1*
d5-NEtFOSAA	*103*		*25 - 150*	*04/24/18 20:53*	*04/27/18 06:05*	*1*
M2-6:2FTS	*126*		*25 - 150*	*04/24/18 20:53*	*04/27/18 06:05*	*1*
M2-8:2FTS	*113*		*25 - 150*	*04/24/18 20:53*	*04/27/18 06:05*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.7**	**J**	5.0	0.75	ug/L		04/16/18 14:00	04/19/18 04:24	1

Client: Environmental Resources Group, LLC
Project/Site: Davison Industrial Landfill, Burton, MI

TestAmerica Job ID: 240-94070-1

Client Sample ID: DUPLICATE-01
Date Collected: 04/10/18 00:00
Date Received: 04/13/18 14:14

Lab Sample ID: 240-94070-10
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.8	J	5.0	0.75	ug/L		04/16/18 14:00	04/19/18 04:29	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-219633/1-A
Matrix: Water
Analysis Batch: 220102

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219633

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.35	U	2.0	0.35	ng/L		04/24/18 20:53	04/27/18 04:23	1
Perfluoropentanoic acid (PFPeA)	0.49	U	2.0	0.49	ng/L		04/24/18 20:53	04/27/18 04:23	1
Perfluorohexanoic acid (PFHxA)	0.58	U	2.0	0.58	ng/L		04/24/18 20:53	04/27/18 04:23	1
Perfluoroheptanoic acid (PFHpA)	0.25	U	2.0	0.25	ng/L		04/24/18 20:53	04/27/18 04:23	1
Perfluorooctanoic acid (PFOA)	0.85	U	2.0	0.85	ng/L		04/24/18 20:53	04/27/18 04:23	1
Perfluorononanoic acid (PFNA)	0.27	U	2.0	0.27	ng/L		04/24/18 20:53	04/27/18 04:23	1
Perfluorodecanoic acid (PFDA)	0.31	U	2.0	0.31	ng/L		04/24/18 20:53	04/27/18 04:23	1
Perfluoroundecanoic acid (PFUnA)	1.1	U	2.0	1.1	ng/L		04/24/18 20:53	04/27/18 04:23	1
Perfluorododecanoic acid (PFDoA)	0.55	U	2.0	0.55	ng/L		04/24/18 20:53	04/27/18 04:23	1
Perfluorotridecanoic Acid (PFTriA)	1.3	U	2.0	1.3	ng/L		04/24/18 20:53	04/27/18 04:23	1
Perfluorotetradecanoic acid (PFTeA)	0.29	U	2.0	0.29	ng/L		04/24/18 20:53	04/27/18 04:23	1
Perfluorobutanesulfonic acid (PFBS)	0.20	U	2.0	0.20	ng/L		04/24/18 20:53	04/27/18 04:23	1
Perfluorohexanesulfonic acid (PFHxS)	0.462	J	2.0	0.17	ng/L		04/24/18 20:53	04/27/18 04:23	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.19	U	2.0	0.19	ng/L		04/24/18 20:53	04/27/18 04:23	1
Perfluorooctanesulfonic acid (PFOS)	0.54	U	2.0	0.54	ng/L		04/24/18 20:53	04/27/18 04:23	1
Perfluorodecanesulfonic acid (PFDS)	0.32	U	2.0	0.32	ng/L		04/24/18 20:53	04/27/18 04:23	1
Perfluorooctane Sulfonamide (FOSA)	0.35	U	2.0	0.35	ng/L		04/24/18 20:53	04/27/18 04:23	1
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	3.1	U	20	3.1	ng/L		04/24/18 20:53	04/27/18 04:23	1
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	1.9	U	20	1.9	ng/L		04/24/18 20:53	04/27/18 04:23	1
6:2FTS	2.0	U	20	2.0	ng/L		04/24/18 20:53	04/27/18 04:23	1
8:2FTS	2.0	U	20	2.0	ng/L		04/24/18 20:53	04/27/18 04:23	1
4:2 FTS	5.2	U	20	5.2	ng/L		04/24/18 20:53	04/27/18 04:23	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*97*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:23*	*1*
13C5 PFPeA	*100*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:23*	*1*
13C2 PFHxA	*101*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:23*	*1*
13C4-PFHpA	*98*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:23*	*1*
13C4 PFOA	*100*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:23*	*1*
13C5 PFNA	*98*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:23*	*1*
13C2 PFDA	*95*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:23*	*1*
13C2 PFUnA	*96*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:23*	*1*
13C2 PFDoA	*93*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:23*	*1*
13C2-PFTeDA	*94*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:23*	*1*
13C3-PFBS	*97*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:23*	*1*
18O2 PFHxS	*96*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:23*	*1*
13C4 PFOS	*96*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:23*	*1*
13C8 FOSA	*87*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:23*	*1*
d3-NMeFOSAA	*90*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:23*	*1*
d5-NEtFOSAA	*101*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:23*	*1*
M2-6:2FTS	*110*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:23*	*1*
M2-8:2FTS	*103*		*25 - 150*	*04/24/18 20:53*	*04/27/18 04:23*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-219633/2-A
Matrix: Water
Analysis Batch: 220102

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219633

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	41.5		ng/L		104	70 - 130
Perfluoropentanoic acid (PFPeA)	40.0	38.3		ng/L		96	66 - 126
Perfluorohexanoic acid (PFHxA)	40.0	39.0		ng/L		97	66 - 126
Perfluoroheptanoic acid (PFHpA)	40.0	40.8		ng/L		102	66 - 126
Perfluorooctanoic acid (PFOA)	40.0	36.8		ng/L		92	64 - 124
Perfluorononanoic acid (PFNA)	40.0	37.5		ng/L		94	68 - 128
Perfluorodecanoic acid (PFDA)	40.0	37.5		ng/L		94	69 - 129
Perfluoroundecanoic acid (PFUnA)	40.0	35.8		ng/L		89	60 - 120
Perfluorododecanoic acid (PFDoA)	40.0	40.3		ng/L		101	71 - 131
Perfluorotridecanoic Acid (PFTriA)	40.0	37.5		ng/L		94	72 - 132
Perfluorotetradecanoic acid (PFTeA)	40.0	38.7		ng/L		97	68 - 128
Perfluorobutanesulfonic acid (PFBS)	35.4	34.7		ng/L		98	73 - 133
Perfluorohexanesulfonic acid (PFHxS)	36.4	32.9		ng/L		90	63 - 123
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	38.1		ng/L		100	68 - 128
Perfluorooctanesulfonic acid (PFOS)	37.1	38.5		ng/L		104	67 - 127
Perfluorodecanesulfonic acid (PFDS)	38.6	37.3		ng/L		97	68 - 128
Perfluorooctane Sulfonamide (FOSA)	40.0	40.2		ng/L		100	70 - 130
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	40.0	42.5		ng/L		106	67 - 127
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	40.0	38.4		ng/L		96	65 - 125
6:2FTS	37.9	38.8		ng/L		102	66 - 126
8:2FTS	38.3	38.4		ng/L		100	67 - 127
4:2 FTS	37.4	40.3		ng/L		108	70 - 130

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*100*		*25 - 150*
13C5 PFPeA	*102*		*25 - 150*
13C2 PFHxA	*102*		*25 - 150*
13C4-PFHpA	*104*		*25 - 150*
13C4 PFOA	*104*		*25 - 150*
13C5 PFNA	*104*		*25 - 150*
13C2 PFDA	*100*		*25 - 150*
13C2 PFUnA	*97*		*25 - 150*
13C2 PFDoA	*93*		*25 - 150*
13C2-PFTeDA	*98*		*25 - 150*
13C3-PFBS	*101*		*25 - 150*
18O2 PFHxS	*103*		*25 - 150*
13C4 PFOS	*98*		*25 - 150*

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-219633/2-A
Matrix: Water
Analysis Batch: 220102

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219633

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C8 FOSA	86		25 - 150
d3-NMeFOSAA	97		25 - 150
d5-NEtFOSAA	106		25 - 150
M2-6:2FTS	110		25 - 150
M2-8:2FTS	104		25 - 150

Lab Sample ID: LCSD 320-219633/3-A
Matrix: Water
Analysis Batch: 220102

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 219633

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)			40.0	40.8		ng/L		102	70 - 130	2	30
Perfluoropentanoic acid (PFPeA)			40.0	36.9		ng/L		92	66 - 126	4	30
Perfluorohexanoic acid (PFHxA)			40.0	38.4		ng/L		96	66 - 126	1	30
Perfluoroheptanoic acid (PFHpA)			40.0	41.2		ng/L		103	66 - 126	1	30
Perfluorooctanoic acid (PFOA)			40.0	36.9		ng/L		92	64 - 124	0	30
Perfluorononanoic acid (PFNA)			40.0	35.9		ng/L		90	68 - 128	4	30
Perfluorodecanoic acid (PFDA)			40.0	37.5		ng/L		94	69 - 129	0	30
Perfluoroundecanoic acid (PFUnA)			40.0	31.5		ng/L		79	60 - 120	13	30
Perfluorododecanoic acid (PFDoA)			40.0	39.5		ng/L		99	71 - 131	2	30
Perfluorotridecanoic Acid (PFTriA)			40.0	29.6		ng/L		74	72 - 132	24	30
Perfluorotetradecanoic acid (PFTeA)			40.0	36.5		ng/L		91	68 - 128	6	30
Perfluorobutanesulfonic acid (PFBS)			35.4	35.0		ng/L		99	73 - 133	1	30
Perfluorohexanesulfonic acid (PFHxS)			36.4	33.1		ng/L		91	63 - 123	1	30
Perfluoroheptanesulfonic Acid (PFHpS)			38.1	36.6		ng/L		96	68 - 128	4	30
Perfluorooctanesulfonic acid (PFOS)			37.1	35.8		ng/L		97	67 - 127	7	30
Perfluorodecanesulfonic acid (PFDS)			38.6	32.4		ng/L		84	68 - 128	14	30
Perfluorooctane Sulfonamide (FOSA)			40.0	36.2		ng/L		91	70 - 130	10	30
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)			40.0	41.1		ng/L		103	67 - 127	3	30
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)			40.0	37.5		ng/L		94	65 - 125	2	30
6:2FTS			37.9	37.4		ng/L		99	66 - 126	4	30
8:2FTS			38.3	39.6		ng/L		103	67 - 127	3	30
4:2 FTS			37.4	42.2		ng/L		113	70 - 130	4	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
13C4 PFBA	100		25 - 150
13C5 PFPeA	104		25 - 150
13C2 PFHxA	103		25 - 150

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-219633/3-A
Matrix: Water
Analysis Batch: 220102

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 219633

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C4-PFHpA	*101*		*25 - 150*
13C4 PFOA	*102*		*25 - 150*
13C5 PFNA	*106*		*25 - 150*
13C2 PFDA	*99*		*25 - 150*
13C2 PFUnA	*95*		*25 - 150*
13C2 PFDoA	*78*		*25 - 150*
13C2-PFTeDA	*60*		*25 - 150*
13C3-PFBS	*101*		*25 - 150*
18O2 PFHxS	*102*		*25 - 150*
13C4 PFOS	*102*		*25 - 150*
13C8 FOSA	*79*		*25 - 150*
d3-NMeFOSAA	*93*		*25 - 150*
d5-NEtFOSAA	*95*		*25 - 150*
M2-6:2FTS	*111*		*25 - 150*
M2-8:2FTS	*100*		*25 - 150*

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 240-322672/1-A
Matrix: Water
Analysis Batch: 323147

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 322672

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.75	U	5.0	0.75	ug/L		04/16/18 14:00	04/19/18 02:18	1

Lab Sample ID: LCS 240-322672/2-A
Matrix: Water
Analysis Batch: 323147

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 322672

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1000	975		ug/L		97	80 - 120

Lab Sample ID: 240-94070-1 MS
Matrix: Water
Analysis Batch: 323147

Client Sample ID: SB/MW-16-14
Prep Type: Total Recoverable
Prep Batch: 322672

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	28		1000	1020		ug/L		99	75 - 125

Lab Sample ID: 240-94070-1 MSD
Matrix: Water
Analysis Batch: 323147

Client Sample ID: SB/MW-16-14
Prep Type: Total Recoverable
Prep Batch: 322672

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	28		1000	1020		ug/L		99	75 - 125	0	20

LCMS

Prep Batch: 219633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-94070-1	SB/MW-16-14	Total/NA	Water	3535	
240-94070-2	TMW-01	Total/NA	Water	3535	
240-94070-3	SB/MW-7-12	Total/NA	Water	3535	
240-94070-4	TMW-8	Total/NA	Water	3535	
240-94070-5	FRB	Total/NA	Water	3535	
240-94070-6	EQUIP BLANK-01	Total/NA	Water	3535	
240-94070-7	SB/MW-15-14	Total/NA	Water	3535	
240-94070-10	DUPLICATE-01	Total/NA	Water	3535	
MB 320-219633/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-219633/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-219633/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 220102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-94070-1	SB/MW-16-14	Total/NA	Water	537 (modified)	219633
240-94070-2	TMW-01	Total/NA	Water	537 (modified)	219633
240-94070-3	SB/MW-7-12	Total/NA	Water	537 (modified)	219633
240-94070-4	TMW-8	Total/NA	Water	537 (modified)	219633
240-94070-5	FRB	Total/NA	Water	537 (modified)	219633
240-94070-6	EQUIP BLANK-01	Total/NA	Water	537 (modified)	219633
240-94070-7	SB/MW-15-14	Total/NA	Water	537 (modified)	219633
240-94070-10	DUPLICATE-01	Total/NA	Water	537 (modified)	219633
MB 320-219633/1-A	Method Blank	Total/NA	Water	537 (modified)	219633
LCS 320-219633/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	219633
LCSD 320-219633/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	219633

Metals

Prep Batch: 322672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-94070-1	SB/MW-16-14	Dissolved	Water	3005A	
240-94070-1	SB/MW-16-14	Total Recoverable	Water	3005A	
240-94070-2	TMW-01	Dissolved	Water	3005A	
240-94070-2	TMW-01	Total Recoverable	Water	3005A	
240-94070-3	SB/MW-7-12	Dissolved	Water	3005A	
240-94070-3	SB/MW-7-12	Total Recoverable	Water	3005A	
240-94070-4	TMW-8	Dissolved	Water	3005A	
240-94070-4	TMW-8	Total Recoverable	Water	3005A	
240-94070-6	EQUIP BLANK-01	Dissolved	Water	3005A	
240-94070-6	EQUIP BLANK-01	Total Recoverable	Water	3005A	
240-94070-7	SB/MW-15-14	Dissolved	Water	3005A	
240-94070-7	SB/MW-15-14	Total Recoverable	Water	3005A	
240-94070-8	SB/MW-9-12	Dissolved	Water	3005A	
240-94070-8	SB/MW-9-12	Total Recoverable	Water	3005A	
240-94070-9	TMW-6	Dissolved	Water	3005A	
240-94070-9	TMW-6	Total Recoverable	Water	3005A	
240-94070-10	DUPLICATE-01	Dissolved	Water	3005A	
240-94070-10	DUPLICATE-01	Total Recoverable	Water	3005A	
MB 240-322672/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-322672/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 322672 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-94070-1 MS	SB/MW-16-14	Total Recoverable	Water	3005A	
240-94070-1 MSD	SB/MW-16-14	Total Recoverable	Water	3005A	

Analysis Batch: 323147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-94070-1	SB/MW-16-14	Dissolved	Water	6020	322672
240-94070-1	SB/MW-16-14	Total Recoverable	Water	6020	322672
240-94070-2	TMW-01	Dissolved	Water	6020	322672
240-94070-2	TMW-01	Total Recoverable	Water	6020	322672
240-94070-3	SB/MW-7-12	Dissolved	Water	6020	322672
240-94070-3	SB/MW-7-12	Total Recoverable	Water	6020	322672
240-94070-4	TMW-8	Dissolved	Water	6020	322672
240-94070-4	TMW-8	Total Recoverable	Water	6020	322672
240-94070-6	EQUIP BLANK-01	Dissolved	Water	6020	322672
240-94070-6	EQUIP BLANK-01	Total Recoverable	Water	6020	322672
240-94070-7	SB/MW-15-14	Dissolved	Water	6020	322672
240-94070-7	SB/MW-15-14	Total Recoverable	Water	6020	322672
240-94070-8	SB/MW-9-12	Dissolved	Water	6020	322672
240-94070-8	SB/MW-9-12	Total Recoverable	Water	6020	322672
240-94070-9	TMW-6	Dissolved	Water	6020	322672
240-94070-9	TMW-6	Total Recoverable	Water	6020	322672
240-94070-10	DUPLICATE-01	Dissolved	Water	6020	322672
240-94070-10	DUPLICATE-01	Total Recoverable	Water	6020	322672
MB 240-322672/1-A	Method Blank	Total Recoverable	Water	6020	322672
LCS 240-322672/2-A	Lab Control Sample	Total Recoverable	Water	6020	322672
240-94070-1 MS	SB/MW-16-14	Total Recoverable	Water	6020	322672
240-94070-1 MSD	SB/MW-16-14	Total Recoverable	Water	6020	322672

Client Sample ID: SB/MW-16-14

Lab Sample ID: 240-94070-1

Date Collected: 04/10/18 10:15

Matrix: Water

Date Received: 04/13/18 14:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			219633	04/24/18 20:53	JER	TAL SAC
Total/NA	Analysis	537 (modified)		1	220102	04/27/18 04:46	JRB	TAL SAC
Dissolved	Prep	3005A			322672	04/16/18 14:00	MBB	TAL CAN
Dissolved	Analysis	6020		1	323147	04/19/18 02:58	DSH	TAL CAN
Total Recoverable	Prep	3005A			322672	04/16/18 14:00	MBB	TAL CAN
Total Recoverable	Analysis	6020		1	323147	04/19/18 02:27	DSH	TAL CAN

Client Sample ID: TMW-01

Lab Sample ID: 240-94070-2

Date Collected: 04/10/18 12:00

Matrix: Water

Date Received: 04/13/18 14:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			219633	04/24/18 20:53	JER	TAL SAC
Total/NA	Analysis	537 (modified)		1	220102	04/27/18 04:54	JRB	TAL SAC
Dissolved	Prep	3005A			322672	04/16/18 14:00	MBB	TAL CAN
Dissolved	Analysis	6020		1	323147	04/19/18 03:07	DSH	TAL CAN
Total Recoverable	Prep	3005A			322672	04/16/18 14:00	MBB	TAL CAN
Total Recoverable	Analysis	6020		1	323147	04/19/18 03:03	DSH	TAL CAN

Client Sample ID: SB/MW-7-12

Lab Sample ID: 240-94070-3

Date Collected: 04/10/18 13:44

Matrix: Water

Date Received: 04/13/18 14:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			219633	04/24/18 20:53	JER	TAL SAC
Total/NA	Analysis	537 (modified)		1	220102	04/27/18 05:02	JRB	TAL SAC
Dissolved	Prep	3005A			322672	04/16/18 14:00	MBB	TAL CAN
Dissolved	Analysis	6020		1	323147	04/19/18 03:25	DSH	TAL CAN
Total Recoverable	Prep	3005A			322672	04/16/18 14:00	MBB	TAL CAN
Total Recoverable	Analysis	6020		1	323147	04/19/18 03:21	DSH	TAL CAN

Client Sample ID: TMW-8

Lab Sample ID: 240-94070-4

Date Collected: 04/10/18 15:30

Matrix: Water

Date Received: 04/13/18 14:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			219633	04/24/18 20:53	JER	TAL SAC
Total/NA	Analysis	537 (modified)		1	220102	04/27/18 05:18	JRB	TAL SAC
Dissolved	Prep	3005A			322672	04/16/18 14:00	MBB	TAL CAN
Dissolved	Analysis	6020		1	323147	04/19/18 03:35	DSH	TAL CAN
Total Recoverable	Prep	3005A			322672	04/16/18 14:00	MBB	TAL CAN
Total Recoverable	Analysis	6020		1	323147	04/19/18 03:30	DSH	TAL CAN

Lab Chronicle

Client: Environmental Resources Group, LLC
Project/Site: Davison Industrial Landfill, Burton, MI

TestAmerica Job ID: 240-94070-1

Client Sample ID: FRB
Date Collected: 04/10/18 16:45
Date Received: 04/13/18 14:14

Lab Sample ID: 240-94070-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			219633	04/24/18 20:53	JER	TAL SAC
Total/NA	Analysis	537 (modified)		1	220102	04/27/18 05:25	JRB	TAL SAC

Client Sample ID: EQUIP BLANK-01
Date Collected: 04/10/18 16:50
Date Received: 04/13/18 14:14

Lab Sample ID: 240-94070-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			219633	04/24/18 20:53	JER	TAL SAC
Total/NA	Analysis	537 (modified)		1	220102	04/27/18 05:33	JRB	TAL SAC
Dissolved	Prep	3005A			322672	04/16/18 14:00	MBB	TAL CAN
Dissolved	Analysis	6020		1	323147	04/19/18 03:44	DSH	TAL CAN
Total Recoverable	Prep	3005A			322672	04/16/18 14:00	MBB	TAL CAN
Total Recoverable	Analysis	6020		1	323147	04/19/18 03:39	DSH	TAL CAN

Client Sample ID: SB/MW-15-14
Date Collected: 04/10/18 17:24
Date Received: 04/13/18 14:14

Lab Sample ID: 240-94070-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			219633	04/24/18 20:53	JER	TAL SAC
Total/NA	Analysis	537 (modified)		1	220102	04/27/18 05:49	JRB	TAL SAC
Dissolved	Prep	3005A			322672	04/16/18 14:00	MBB	TAL CAN
Dissolved	Analysis	6020		1	323147	04/19/18 03:53	DSH	TAL CAN
Total Recoverable	Prep	3005A			322672	04/16/18 14:00	MBB	TAL CAN
Total Recoverable	Analysis	6020		1	323147	04/19/18 03:48	DSH	TAL CAN

Client Sample ID: SB/MW-9-12
Date Collected: 04/11/18 10:45
Date Received: 04/13/18 14:14

Lab Sample ID: 240-94070-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			322672	04/16/18 14:00	MBB	TAL CAN
Dissolved	Analysis	6020		1	323147	04/19/18 04:02	DSH	TAL CAN
Total Recoverable	Prep	3005A			322672	04/16/18 14:00	MBB	TAL CAN
Total Recoverable	Analysis	6020		1	323147	04/19/18 03:57	DSH	TAL CAN

Client Sample ID: TMW-6
Date Collected: 04/11/18 11:35
Date Received: 04/13/18 14:14

Lab Sample ID: 240-94070-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			322672	04/16/18 14:00	MBB	TAL CAN

Lab Chronicle

Client: Environmental Resources Group, LLC
Project/Site: Davison Industrial Landfill, Burton, MI

TestAmerica Job ID: 240-94070-1

Client Sample ID: TMW-6

Lab Sample ID: 240-94070-9

Date Collected: 04/11/18 11:35

Matrix: Water

Date Received: 04/13/18 14:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	6020		1	323147	04/19/18 04:20	DSH	TAL CAN
Total Recoverable	Prep	3005A			322672	04/16/18 14:00	MBB	TAL CAN
Total Recoverable	Analysis	6020		1	323147	04/19/18 04:15	DSH	TAL CAN

Client Sample ID: DUPLICATE-01

Lab Sample ID: 240-94070-10

Date Collected: 04/10/18 00:00

Matrix: Water

Date Received: 04/13/18 14:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			219633	04/24/18 20:53	JER	TAL SAC
Total/NA	Analysis	537 (modified)		1	220102	04/27/18 06:05	JRB	TAL SAC
Dissolved	Prep	3005A			322672	04/16/18 14:00	MBB	TAL CAN
Dissolved	Analysis	6020		1	323147	04/19/18 04:29	DSH	TAL CAN
Total Recoverable	Prep	3005A			322672	04/16/18 14:00	MBB	TAL CAN
Total Recoverable	Analysis	6020		1	323147	04/19/18 04:24	DSH	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: Environmental Resources Group, LLC
Project/Site: Davison Industrial Landfill, Burton, MI

TestAmerica Job ID: 240-94070-1

Laboratory: TestAmerica Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-19
Connecticut	State Program	1	PH-0590	12-31-19
Florida	NELAP	4	E87225	06-30-18 *
Illinois	NELAP	5	200004	07-31-18
Kansas	NELAP	7	E-10336	01-31-19
Kentucky (UST)	State Program	4	58	02-23-19
Kentucky (WW)	State Program	4	98016	12-31-18
Minnesota	NELAP	5	039-999-348	12-31-18
Minnesota (Petrofund)	State Program	1	3506	07-31-18
Nevada	State Program	9	OH-000482008A	07-31-18
New Jersey	NELAP	2	OH001	06-30-18 *
New York	NELAP	2	10975	03-31-19
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-19
Pennsylvania	NELAP	3	68-00340	08-31-18
Texas	NELAP	6	T104704517-17-9	08-31-18
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-18
Washington	State Program	10	C971	01-12-19
West Virginia DEP	State Program	3	210	12-31-18

Laboratory: TestAmerica Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska (UST)	State Program	10	17-020	01-20-21
Arizona	State Program	9	AZ0708	08-11-18
Arkansas DEQ	State Program	6	88-0691	06-17-18
California	State Program	9	2897	01-31-19
Colorado	State Program	8	CA00044	08-31-18
Connecticut	State Program	1	PH-0691	06-30-19
Florida	NELAP	4	E87570	06-30-18
Georgia	State Program	4	N/A	01-28-19
Hawaii	State Program	9	N/A	01-29-19
Illinois	NELAP	5	200060	03-17-19
Kansas	NELAP	7	E-10375	10-31-18
L-A-B	DoD ELAP		L2468	01-20-21
Louisiana	NELAP	6	30612	06-30-18
Maine	State Program	1	CA0004	04-14-20
Michigan	State Program	5	9947	01-31-20
Nevada	State Program	9	CA00044	07-31-18
New Hampshire	NELAP	1	2997	04-18-19
New Jersey	NELAP	2	CA005	06-30-18
New York	NELAP	2	11666	03-31-19
Oregon	NELAP	10	4040	01-29-19
Pennsylvania	NELAP	3	68-01272	03-31-19
Texas	NELAP	6	T104704399	05-31-18
US Fish & Wildlife	Federal		LE148388-0	07-31-18
USDA	Federal		P330-11-00436	01-17-21
USEPA UCMR	Federal	1	CA00044	11-06-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Client: Environmental Resources Group, LLC
TestAmerica Job ID: 240-94070-1
Project/Site: Davison Industrial Landfill, Burton, MI

Laboratory: TestAmerica Sacramento (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Utah	NELAP	8	CA00044	02-28-19
Virginia	NELAP	3	460278	03-14-19
Washington	State Program	10	C581	05-05-18
West Virginia (DW)	State Program	3	9930C	12-31-18
Wyoming	State Program	8	8TMS-L	01-28-19

America Michigan
Citation Drive
te 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

MICHIGAN
190

Chain of Custody Record

231555

1,2/C1,3

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: SUE GRAVES	Site Contact: LAURA LAMBERT	Date: 4-10-18/4-11-18	COC No: 231555
Company Name: ERG	Tel/Fax:	Lab Contact: KRIS BROOKS	Carrier:	1 of 2 COCs
Address: 28003 CENTER OAKS CT. STE 100	Analysis Turnaround Time			Sampler: CJB/MC
City/State/Zip: WIXOM, MI 48393	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
Phone: 248-773-7986	TAT if different from Below STD TAT			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: DAVISON RD INDUSTRIAL LANDFILL	☐ 1 week			
Site: BURTON, MI	☐ 2 days			Job / SDG No.:
PO #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	PFAS	TOTAL AS	DISSOLVED AS	Sample Specific Notes:
SB/MW-16-14	4/10/18	10:15	G	GW	4	Y	N	X	X	X	
TMW-1	4/10/18	12:00	G	GW	4	Y	N	X	X	X	
SB/MW-7-12	4/10/18	13:44	G	GW	4	Y	N				
TMW-8	4/10/18	15:30	G	GW	4	Y	N				
FRB	4/10/18	16:45	G	D.I. WATER	2	N	N	X			
EQUIP BLANK-01	4/10/18	16:50	G	I	4	Y	N	X	X	X	
SB/MW-15-14	4/10/18	17:24	G	GW	4	Y	N	X	X	X	
SB/MW-9-12	4/11/18	10:45	G	GW	4	Y	N	X	X	X	
TMW-6	4/11/18	11:35	G	GW	4	Y	N	X	X	X	
DUPLICATE-01	4/10/18	—	G	GW	4	Y	N	X	X	X	

240-94070 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: PLEASE PROVIDE EDD

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Laura Lambert to cold storage	ERG	4/11/18 14:30	from cold storage	TESTAMERICA	4/12/18 1430
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	TESTAMERICA	4/12/18 1555		TA	4.13.18 840
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

TestAmerica Canton Sample Receipt Form/Narrative **Login # : 94070**
Canton Facility

Client ERG Site Name _____ Cooler unpacked by:

Cooler Received on 4.13.18 Opened on 4.13.18

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
   IR GUN# IR-8 (CF +0.1 °C) Observed Cooler Temp. 1.2 °C Corrected Cooler Temp. 1.3 °C
   IR GUN #36 (CF +0.3°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
   ~~IR GUN # 627 (CF -1.3°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C~~

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	Yes	No
-Were the seals on the outside of the cooler(s) signed & dated?	Yes	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	No
-Were tamper/custody seals intact and uncompromised?	Yes	No NA
3. Shippers' packing slip attached to the cooler(s)?	Yes	No
4. Did custody papers accompany the sample(s)?	Yes	No
5. Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No
7. Did all bottles arrive in good condition (Unbroken)?	Yes	No
8. Could all bottle labels be reconciled with the COC?	Yes	No
9. Were correct bottle(s) used for the test(s) indicated?	Yes	No
10. Sufficient quantity received to perform indicated analyses?	Yes	No
11. Are these work share samples?	Yes	No
If yes, Questions 12-16 have been checked at the originating laboratory.		
12. Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC732776
13. Were VOAs on the COC?	Yes	No
14. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	No NA
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____	Yes	No
16. Was a LL Hg or Me Hg trip blank present? _____	Yes	No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM KMB Date 4.13.18 by NS via Verbal Voice Mail Other

Concerning #17

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:

Rec'd 1x250 PFAS bottle preserved with HNO3 for EB-01, will archive.

Did not recv any PFAS volume for SB/MW-9.12 and TMW-6, will not log.

18. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

19. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

Login Container Summary Report

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
SB/MW-16-14	240-94070-C-1	Plastic 250ml - with Nitric Acid	<2		
SB/MW-16-14	240-94070-D-1	Plastic 250ml - w/nitric - dis	<2		
TMW-01	240-94070-C-2	Plastic 250ml - with Nitric Acid	<2		
TMW-01	240-94070-D-2	Plastic 250ml - w/nitric - dis	<2		
SB/MW-7-12	240-94070-C-3	Plastic 250ml - with Nitric Acid	<2		
SB/MW-7-12	240-94070-D-3	Plastic 250ml - w/nitric - dis	<2		
FRB	240-94070-C-5	Plastic 250ml - with Nitric Acid	<2		
FRB	240-94070-D-5	Plastic 250ml - w/nitric - dis	<2		
EQUIP BLANK-01	240-94070-C-6	Plastic 250ml - with Nitric Acid	<2		
EQUIP BLANK-01	240-94070-D-6	Plastic 250ml - w/nitric - dis	<2		
SB/MW-15-14	240-94070-C-7	Plastic 250ml - with Nitric Acid	<2		
SB/MW-15-14	240-94070-D-7	Plastic 250ml - w/nitric - dis	<2		
SB/MW-9-12	240-94070-A-8	Plastic 250ml - with Nitric Acid	<2		
SB/MW-9-12	240-94070-B-8	Plastic 250ml - w/nitric - dis	<2		
TMW-6	240-94070-A-9	Plastic 250ml - with Nitric Acid	<2		
TMW-6	240-94070-B-9	Plastic 250ml - w/nitric - dis	<2		
DUPLICATE-01	240-94070-C-10	Plastic 250ml - with Nitric Acid	<2		
DUPLICATE-01	240-94070-D-10	Plastic 250ml - w/nitric - dis	<2		

TestAmerica Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax:

Chain of Custody Record 231555

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210 (0713)

Client Contact	Project Manager: SUE GRAVES	Site Contact: LAURA LAMBERT	Date: 4-10-18/4-11-18	COC No: 231555
Company Name: ERG	Tel/Fax:	Lab Contact: KRIS BROOKS	Carrier:	1 of 2 COCs
Address: 28003 CENTER OAKS CT. STE 100	Analysis Turnaround Time			Sampler: CJB/LLL
City/State/Zip: WIXOM, MI 48393	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
Phone: 248-773-7986	TAT if different from Below STD TAT			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: DAVISON RD INDUSTRIAL LANDFILL	☐ 1 week			
Site: BURTON, MI	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	PFAS	TOTAL As	DISSOLVED As	Sample Specific Notes:
SB/MW-16-14	4/10/18	10:15	G	GW	4	Y	N	X	X	X	
TMW-1	4/10/18	12:00	G	GW	4	Y	N	X	X	X	
SB/MW-7-12	4/10/18	13:44	G	GW	4	Y	N				
TMW-8	4/10/18	15:30	G	GW	4	Y	N				
FRB	4/10/18	16:45	G	D.I. WATER	2	N	N	X			
EQUIP BLANK-01	4/10/18	16:50	G	"	4	Y	N	X	X	X	
SB/MW-15-14	4/10/18	17:24	G	GW	4	Y	N	X	X	X	
SB/MW-9-12	4/11/18	10:45	G	GW	2	Y	N	X	X	X	> TOTAL AND DISSOLVED As ONLY (LLL)
TMW-6	4/11/18	11:35	G	GW	2	Y	N	X	X	X	
DUPLICATE-01	4/10/18	—	G	GW	4	Y	N	X	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: PLEASE PROVIDE EDD

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

Relinquished by: Laura Lambert to cold storage	Company: ERG	Date/Time: 4/11/18 14:30	Received by: from cold storage	Company: TESTAMERICA	Date/Time: 4/12/18 1430
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

4/30/2018

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-85422.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: kris.brooks@testamericainc.com	State of Origin: Michigan	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):		Job #: 240-94070-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 4/25/2018			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: PFAS, Racer-Davison Road, Burton, MI	Project #: 24020030			
Site:	SSOW#:			

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 - Amchlor	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:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA3535_PFC (MOD) PFAS, Standard List (21 Analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SB/MW-16-14 (240-94070-1)	4/10/18	10:15 Eastern		Water			X	2	
TMW-01 (240-94070-2)	4/10/18	12:00 Eastern		Water			X	2	
SB/MW-7-12 (240-94070-3)	4/10/18	13:44 Eastern		Water			X	2	
TMW-8 (240-94070-4)	4/10/18	15:30 Eastern		Water			X	2	
FRB (240-94070-5)	4/10/18	16:45 Eastern		Water			X	2	
EQUIP BLANK-01 (240-94070-6)	4/10/18	16:50 Eastern		Water			X	1	1 there
SB/MW-15-14 (240-94070-7)	4/10/18	17:25 Eastern		Water			X	2	
DUPLICATE-01 (240-94070-10)	4/10/18	Eastern		Water			X	2	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	R [illegible]	4/13/18 1552	240	[illegible]	4/14/18 1015	TA Sac
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.4c

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Environmental Resources Group, LLC

Job Number: 240-94070-1

Login Number: 94070
List Number: 2
Creator: Nelson, Kym D

List Source: TestAmerica Sacramento
List Creation: 04/16/18 02:01 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

240-94070 Field Sheet

Job: _____

Tracking # 4134 0300 6786 SO / ~~FO~~ / FO

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations.
File in the job folder with the COC.

Notes: _____

Therm. ID: AK-2 / AK-3 / AK-4 / AK-5 / HACCP / Other _____

Ice X Wet X Gel _____ Other _____

Cooler Custody Seal: —

Sample Custody Seal: —

Cooler ID: _____

Temp: Observed 2.4c

From: Temp Blank ☐ Sample ☒

NCM Filed: Yes ☐ No ☐

	Yes	No	NA
Perchlorate has headspace?	☐	☐	☒
CoC is complete w/o discrepancies?	☒	☐	☐
Samples received within holding time?	☒	☐	☐
Sample preservatives verified?	☐	☐	☒
Cooler compromised/tampered with?	☐	☒	☐
Samples compromised/tampered with?	☐	☒	☐
Samples w/o discrepancies?	☒	☐	☐
Sample containers have legible labels?	☒	☐	☐
Containers are not broken or leaking?	☒	☐	☐
Sample date/times are provided.	☒	☐	☐
Appropriate containers are used?	☒	☐	☐
Sample bottles are completely filled?	☒	☐	☐
Zero headspace?*	☐	☐	☒
Multiphasic samples are not present?	☒	☐	☐
Sample temp OK?	☒	☐	☐
Sample out of temp?	☐	☒	☐

Initials: DL Date: 4/14/18 Time 1015

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

W25C

Isotope Dilution Summary

Client: Environmental Resources Group, LLC
Project/Site: Davison Industrial Landfill, Burton, MI

TestAmerica Job ID: 240-94070-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	PFHpA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
240-94070-1	SB/MW-16-14	34	71	84	100	104	106	100	88
240-94070-2	TMW-01	22 *	56	73	87	102	106	100	94
240-94070-3	SB/MW-7-12	28	65	84	93	99	97	95	88
240-94070-4	TMW-8	49	85	99	105	102	105	101	88
240-94070-5	FRB	100	102	99	99	110	109	101	101
240-94070-6	EQUIP BLANK-01	103	106	108	105	103	107	103	100
240-94070-7	SB/MW-15-14	27	64	77	89	103	110	107	93
240-94070-10	DUPLICATE-01	47	81	92	93	98	99	96	91
LCS 320-219633/2-A	Lab Control Sample	100	102	102	104	104	104	100	97
LCSD 320-219633/3-A	Lab Control Sample Dup	100	104	103	101	102	106	99	95
MB 320-219633/1-A	Method Blank	97	100	101	98	100	98	95	96

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	3C3-PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (25-150)	-NMeFOSA (25-150)	-NEtFOSA (25-150)
240-94070-1	SB/MW-16-14	79	83	92	103	99	94	95	100
240-94070-2	TMW-01	88	89	80	99	99	93	101	101
240-94070-3	SB/MW-7-12	78	79	80	99	92	93	91	92
240-94070-4	TMW-8	85	81	94	101	98	94	88	95
240-94070-5	FRB	92	93	102	106	102	91	97	111
240-94070-6	EQUIP BLANK-01	95	96	101	102	102	95	102	105
240-94070-7	SB/MW-15-14	85	81	86	100	103	94	101	101
240-94070-10	DUPLICATE-01	86	83	86	97	93	89	91	103
LCS 320-219633/2-A	Lab Control Sample	93	98	101	103	98	86	97	106
LCSD 320-219633/3-A	Lab Control Sample Dup	78	60	101	102	102	79	93	95
MB 320-219633/1-A	Method Blank	93	94	97	96	96	87	90	101

		Percent Isotope Dilution Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	M262FTS (25-150)	M282FTS (25-150)
240-94070-1	SB/MW-16-14	186 *	130
240-94070-2	TMW-01	205 *	130
240-94070-3	SB/MW-7-12	152 *	103
240-94070-4	TMW-8	132	105
240-94070-5	FRB	114	108
240-94070-6	EQUIP BLANK-01	109	108
240-94070-7	SB/MW-15-14	200 *	128
240-94070-10	DUPLICATE-01	126	113
LCS 320-219633/2-A	Lab Control Sample	110	104
LCSD 320-219633/3-A	Lab Control Sample Dup	111	100
MB 320-219633/1-A	Method Blank	110	103

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
PFHpA = 13C4-PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA

Isotope Dilution Summary

Client: Environmental Resources Group, LLC
Project/Site: Davison Industrial Landfill, Burton, MI

TestAmerica Job ID: 240-94070-1

PFDoA = 13C2 PFDoA
PFTDA = 13C2-PFTeDA
13C3-PFBS = 13C3-PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3-NMeFOSAA = d3-NMeFOSAA
d5-NEtFOSAA = d5-NEtFOSAA
M262FTS = M2-6:2FTS
M282FTS = M2-8:2FTS