GUSTAVUS AIRPORT 2021 SITE CHARACTERIZATION
TABLE 6: MONITORING WELL PFAS RESULTS

Analyte	EPA LHA	Units	Sample: MW-1-15 Date: 10/26/2021	MW-1-40 10/26/2021	MW-2-20 10/26/2021	MW-2-20 Duplicate	MW-2-30 10/26/2021	MW-3-15 10/26/2021	MW-3-40 10/26/2021	MW-4-20 10/25/2021	MW-5-20 10/25/2021	MW-6-20 10/26/2021	MW-7-20 10/25/2021	MW-8-20 10/25/2021	MW-9-30 10/25/2021	MW-9-30 Duplicate	MW-10-20 10/25/2021	MW-11-15 10/31/2021	MW-12-10 10/31/2021	MW-12-10 Duplicate
			Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Perfluorohexanesulfonic acid (PFHxS)	-	ng/L	0.76 J	<1.8	39	40	<1.8	5.8	12	0.55 J	0.88 J	1.1 J	0.67 J	<1.8	9.9	10	8.4	60	11	10
Perfluorohexanoic acid (PFHxA)	-	ng/L	<1.8	<1.8	90	93	0.54 J*	0.61 J	1.8 J	<1.8	<1.8	<1.8	1.8 J	<1.8	7.5	7.7	6.4	16	2.9	2.4
Perfluoroheptanoic acid (PFHpA)	-	ng/L	<1.8	<1.8	44	49	<1.8	<1.9	<1.9	<1.8	<1.8	<1.8	0.61 J	<1.8	2.9	2.9	2.9	10	4.3	4.4
Perfluorononanoic acid (PFNA)	-	ng/L	<1.8	<1.8	6.5	7.0	<1.8	<1.9	<1.9	<1.8	<1.8	<1.8	<1.9	<1.8	<1.9	<1.8	<1.8	1.3 J	0.91 J*	0.58 J*
Perfluorobutanesulfonic acid (PFBS)	-	ng/L	<1.8	<1.8	2.7	2.6	1.1 J	0.45 J*	1.0 J	<1.8	0.41 J	<1.8	0.21 J	<1.8	0.78 J	0.65 J	0.38 J	4.7	0.23 J	0.35 J*
Perfluorodecanoic acid (PFDA)	-	ng/L	<1.8	<1.8	<1.8	0.72 J	<1.8	<1.9	<1.9	<1.8	<1.8	<1.8	<1.9	<1.8	<1.9	<1.8	<1.8	<1.8	<1.7	<1.7
Perfluoroundecanoic acid (PFUnA)	-	ng/L	<1.8	<1.8	<1.8	<1.8	<1.8	<1.9	<1.9	<1.8	<1.8	<1.8	<1.9	<1.8	<1.9	<1.8	<1.8	<1.8	<1.7	<1.7
Perfluorododecanoic acid (PFDoA)	-	ng/L	<1.8	<1.8	<1.8	<1.8	<1.8	<1.9	<1.9	<1.8	<1.8	<1.8	<1.9	<1.8	<1.9	<1.8	<1.8	0.72 J	<1.7	<1.7
Perfluorotridecanoic acid (PFTrDA)	-	ng/L	<1.8	<1.8	<1.8	<1.8	<1.8	<1.9	<1.9	<1.8	<1.8	<1.8	<1.9	<1.8	<1.9	<1.8	<1.8	<1.8	<1.7	<1.7
Perfluorotetradecanoic acid (PFTeA)	-	ng/L	<1.8	<1.8	<1.8	<1.8	<1.8	<1.9	<1.9	<1.8	<1.8	<1.8	<1.9	<1.8	<1.9	<1.8	<1.8	<1.8	<1.7	<1.7
N-Methyl perfluorooctane sulfonamidoacetic acid (N-MeFOSAA)	-	ng/L	<4.6	<4.5	<4.5	<4.5	<4.5	<4.6	<4.7	<4.5	<4.6	<4.6	<4.6	<4.6	<4.7	<4.6	<4.5	<4.5	<4.4	<4.3
N-Ethyl perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	-	ng/L	<4.6	<4.5	<4.5	<4.5	<4.5	<4.6	<4.7	<4.5	<4.6	<4.6	<4.6	<4.6	<4.7	<4.6	<4.5	<4.5	<4.4	<4.3
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	-	ng/L	<1.8	<1.8	<1.8	<1.8	<1.8	<1.9	<1.9	<1.8	<1.8	<1.8	<1.9	<1.8	<1.9	<1.8	<1.8	<1.8	<1.7	<1.7
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	-	ng/L	<1.8	<1.8	<1.8	<1.8	<1.8	<1.9	<1.9	<1.8	<1.8	<1.8	<1.9	<1.8	<1.9	<1.8	<1.8	<1.8	<1.7	<1.7
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	-	ng/L	<1.8	<1.8	<1.8	<1.8	<1.8	<1.9	<1.9	<1.8	<1.8	<1.8	<1.9	<1.8	<1.9	<1.8	<1.8	<1.8	<1.7	<1.7
Hexafluoropropylene oxide dimer acid (HFPO-DA)	-	ng/L	<3.7	<3.6	<3.6	<3.6	<3.6	<3.7	<3.7	<3.6	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.6	<3.6	<3.5	<3.4
Perfluorooctanesulfonic acid (PFOS)	70†	ng/L	<1.8	<1.8	**330**	**360**	0.51 J	2.7	12	<1.8	3.6	<1.8	14	2.3	37	37	**81**	**820**	30	27
Perfluorooctanoic acid (PFOA)		ng/L	<1.8	<1.8	24	24	<1.8	<1.9	1.1 J	<1.8	0.81 J	<1.8	2.6	<1.8	0.87 J	0.78 J	1.1 J	9.8	2.5	2.6
LHA Combined (PFOS + PFOA)	70†	ng/L	n/a	n/a	**354**	**384**	0.51 J‡	2.7 ‡	13 J	n/a	4.4 J	n/a	17	2.3 ‡	38 J	38 J	**82 J**	**830**	33	30

NOTES: Results reported from TestAmerica work orders 320-81258-1, 320-81504-1, and 320-81055-1.

- No applicable regulatory limit exists for the associated analyte.

† EPA LHA level is 70 ppt for PFOS and PFOA combined.

< Analyte not detected; listed as less than the reporting limit (RL) unless otherwise flagged due to quality-control (QC) failures.

Bold Concentration exceeds LHA level.

J Estimated concentration, detected greater than the method detection limit (MDL) and less than the RL. Flag applied by the laboratory.

J* Estimated concentration due to quality control failures. Flag applied by Shannon & Wilson, Inc.

‡ Minimum concentration, the LHA Combined oconcentration includes one or more result that is not detected greater than the MDL.

n/a Not applicable. The LHA Combined concentration could not be calculated; PFOS and PFOA were not detected in the project sample.

EPA = Environmental Protection Agency; LHA = Lifetime Health Advisory;
ng/L = nanograms per liter, equivalent to parts per trillion

GUSTAVUS AIRPORT 2021 SITE CHARACTERIZATION
TABLE 6: MONITORING WELL PFAS RESULTS

Analyte	EPA LHA	Sample:	MW-9-10	MW-13-20	MW-13-45		MW-14-15	MW-14-31	MW-15-15	MW-15-45		MW-16-15	MW-17-20	MW-17-40		MW-18-15	MW-18-50		MW-19-15
		Date:	10/25/2021	10/27/2021	10/27/2021	Duplicate	11/1/2021	11/1/2021	11/3/2021	11/3/2021	Duplicate	11/2/2021	10/26/2021	10/26/2021	Duplicate	11/4/2021	11/4/2021	Duplicate	11/5/2021
		Units	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Perfluorohexanesulfonic acid (PFHxS)	-	ng/L	<2.0	7.6	<1.7	<1.8	1.8	6.2	10	<1.7	<1.7	14	16	<1.9	<1.9	21	1.3 J	1.2 J	0.84 J
Perfluorohexanoic acid (PFHxA)	-	ng/L	<2.0	4.2	<1.7	<1.8	1.0 J	8.6	2.6	<1.7	<1.7	56	11	<1.9 J*	<1.9	<1.8	<1.8	<1.8	<1.8
Perfluoroheptanoic acid (PFHpA)	-	ng/L	<2.0	1.4 J	<1.7	<1.8	1.1 J	2.3	<1.7	<1.7	<1.7	25	1.8 J	<1.9 J*	<1.9	<1.8	<1.8	<1.8	<1.8
Perfluorononanoic acid (PFNA)	-	ng/L	<2.0	<1.7	<1.7	<1.8	<1.8	0.25 J	<1.7	<1.7	<1.7	4.0	<2.0	<1.9 J*	<1.9	<1.8	<1.8	<1.8	<1.8
Perfluorobutanesulfonic acid (PFBS)	-	ng/L	<2.0	0.70 J	<1.7	<1.8	0.24 J	0.74 J	<1.7	<1.7	<1.7	<1.7	0.98 J	<1.9	<1.9	<1.8	<1.8	<1.8	<1.8
Perfluorodecanoic acid (PFDA)	-	ng/L	<2.0	<1.7	<1.7	<1.8	<1.8	<1.7	<1.7	<1.7	<1.7	13	<2.0	<1.9	<1.9	<1.8	<1.8	<1.8	<1.8
Perfluoroundecanoic acid (PFUnA)	-	ng/L	<2.0	<1.7	<1.7	<1.8	<1.8	<1.7	<1.7	<1.7	<1.7	<1.7	<2.0	<1.9	<1.9	<1.8	<1.8	<1.8	<1.8
Perfluorododecanoic acid (PFDoA)	-	ng/L	<2.0	<1.7	<1.7	<1.8	<1.8	<1.7	<1.7	<1.7	<1.7	<1.7	<2.0	<1.9	<1.9	<1.8	<1.8	<1.8	<1.8
Perfluorotridecanoic acid (PFTrDA)	-	ng/L	<2.0	<1.7	<1.7	<1.8	<1.8	<1.7	<1.7	<1.7	<1.7	<1.7	<2.0	<1.9	<1.9	<1.8	<1.8	<1.8	<1.8
Perfluorotetradecanoic acid (PFTeA)	-	ng/L	<2.0	<1.7	<1.7	<1.8	<1.8	<1.7	<1.7	<1.7	<1.7	<1.7	<2.0	<1.9	<1.9	<1.8	<1.8	<1.8	<1.8
N-Methyl perfluorooctane sulfonamidoacetic acid (N-MeFOSAA)	-	ng/L	<4.9	<4.3	<4.4	<4.4	<4.5	<4.3	<4.3	<4.3	<4.3	<4.3	<4.9	<4.8 J*	<4.7	<4.5	<4.6	<4.6	<4.5
N-Ethyl perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	-	ng/L	<4.9	<4.3	<4.4	<4.4	<4.5	<4.3	<4.3	<4.3	<4.3	<4.3	<4.9	<4.8	<4.7	<4.5	<4.6	<4.6	<4.5
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	-	ng/L	<2.0	<1.7	<1.7	<1.8	<1.8	<1.7	<1.7	<1.7	<1.7	<1.7	<2.0	<1.9	<1.9	<1.8	<1.8	<1.8	<1.8
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	-	ng/L	<2.0	<1.7	<1.7	<1.8	<1.8	<1.7	<1.7	<1.7	<1.7	<1.7	<2.0	<1.9	<1.9	<1.8	<1.8	<1.8	<1.8
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	-	ng/L	<2.0	<1.7	<1.7	<1.8	<1.8	<1.7	<1.7	<1.7	<1.7	<1.7	<2.0	<1.9	<1.9	<1.8	<1.8	<1.8	<1.8
Hexafluoropropylene oxide dimer acid (HFPO-DA)	-	ng/L	<3.9	<3.4	<3.5	<3.5	<3.6	<3.5	<3.4	<3.5	<3.4	<3.5	<3.9	<3.9 J*	<3.7	<3.6	<3.7	<3.7	<3.6
Perfluorooctanesulfonic acid (PFOS)	70†	ng/L	<2.0	6.2	<1.7	<1.8	5.3	38	22	<1.7	<1.7	49	**130**	<1.9	<1.9	51	1.9	2.1	1.4 J
Perfluorooctanoic acid (PFOA)		ng/L	<2.0	1.4 J	<1.7	<1.8	<1.8	1.3 J	1.3 J	<1.7	<1.7	8.6	1.6 J	<1.9	<1.9	<1.8	<1.8	<1.8	<1.8
LHA Combined (PFOS + PFOA)	70†	ng/L	n/a	7.6 J	n/a	n/a	5.3 ‡	39 J	23 J	n/a	n/a	58	**132 J**	n/a	n/a	51 ‡	1.9 ‡	2.1 ‡	1.4 J‡

NOTES: Results reported from TestAmerica work orders 320-81258-1, 320-81504-1, and 320-81055-1.

- No applicable regulatory limit exists for the associated analyte.

† EPA LHA level is 70 ppt for PFOS and PFOA combined.

< Analyte not detected; listed as less than the reporting limit (RL) unless otherwise flagged due to quality-control (QC) failures.

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J* Estimated concentration due to quality control failures. Flag applied by Shannon & Wilson, Inc.

‡ Minimum concentration, the LHA Combined oconcentration includes one or more result that is not detected greater than the MDL.

n/a Not applicable. The LHA Combined concentration could not be calculated; PFOS and PFOA were not detected in the project sample.

EPA = Environmental Protection Agency; LHA = Lifetime Health Advisory;
ng/L = nanograms per liter, equivalent to parts per trillion

GUSTAVUS AIRPORT 2021 SITE CHARACTERIZATION
TABLE 6: MONITORING WELL PFAS RESULTS

Analyte	EPA LHA	Sample:	*MW-19-50*		*MW-20-15*	*MW-20-40*	*MW-21-15*	*MW-21-45*		*MW-22-15*	*MW-22-40*	*MW-23-20*	*MW-23-50*		*MW-24-10*	*MW-24-30*	*MW-25-15*	*MW-25-47*		*GAC 2021*
		Date:	11/5/2021	Duplicate	11/4/2021	11/4/2021	11/1/2021	11/1/2021	Duplicate	10/30/2021	10/30/2021	10/24/2021	10/25/2021	Duplicate	10/29/2021	10/29/2021	10/28/2021	10/29/2021	Duplicate	11/5/2021
		Units	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Perfluorohexanesulfonic acid (PFHxS)	-	ng/L	1.8	1.8	5.5	<1.7	6.1	<1.8	<1.8	4.5	27	1.0 J	<1.9 J*	<1.9 J*	0.54 J	<1.7	0.56 J	<1.8	<1.8	<1.7
Perfluorohexanoic acid (PFHxA)	-	ng/L	1.5 J	1.8	1.5 J	<1.7	3.9	<1.8	<1.8	3.0	6.8	1.4 J	<1.9 J*	<1.9 J*	<1.7	<1.7	<1.8	<1.8	<1.8	<1.7
Perfluoroheptanoic acid (PFHpA)	-	ng/L	<1.8	<1.8	<1.7	<1.7	1.9	<1.8	<1.8	1.1 J	1.2 J	<1.9	<1.9 J*	<1.9 J*	<1.7	<1.7	<1.8	<1.8	<1.8	<1.7
Perfluorononanoic acid (PFNA)	-	ng/L	<1.8	<1.8	<1.7	<1.7	<1.8	<1.8	<1.8	<1.8	<1.8	0.65 J	<1.9 J*	<1.9 J*	<1.7	<1.7	<1.8	<1.8	<1.8	<1.7
Perfluorobutanesulfonic acid (PFBS)	-	ng/L	<1.8	<1.8	<1.7	<1.7	0.72 J	<1.8	<1.8	0.39 J*	4.0	<1.9	<1.9 J*	<1.9 J*	<1.7	<1.7	<1.8	<1.8	<1.8	<1.7
Perfluorodecanoic acid (PFDA)	-	ng/L	<1.8	<1.8	<1.7	<1.7	<1.8	<1.8	<1.8	<1.8	<1.8	1.2 J	<1.9 J*	<1.9 J*	<1.7	<1.7	<1.8	<1.8	<1.8	<1.7
Perfluoroundecanoic acid (PFUnA)	-	ng/L	<1.8	<1.8	<1.7	<1.7	<1.8	<1.8	<1.8	<1.8	<1.8	<1.9	<1.9 J*	<1.9 J*	<1.7	<1.7	<1.8	<1.8	<1.8	<1.7
Perfluorododecanoic acid (PFDoA)	-	ng/L	<1.8	<1.8	<1.7	<1.7	<1.8	<1.8	<1.8	<1.8	<1.8	<1.9	<1.9 J*	<1.9 J*	<1.7	<1.7	<1.8	<1.8	<1.8	<1.7
Perfluorotridecanoic acid (PFTrDA)	-	ng/L	<1.8	<1.8	<1.7	<1.7	<1.8	<1.8	<1.8	<1.8	<1.8	<1.9	<1.9 J*	<1.9 J*	<1.7	<1.7	<1.8	<1.8	<1.8	<1.7
Perfluorotetradecanoic acid (PFTeA)	-	ng/L	<1.8	<1.8	<1.7	<1.7	<1.8	<1.8	<1.8	<1.8	<1.8	<1.9	<1.9 J*	<1.9 J*	<1.7	<1.7	<1.8	<1.8	<1.8	<1.7
N-Methyl perfluorooctane sulfonamidoacetic acid (N-MeFOSAA)	-	ng/L	<4.5	<4.5	<4.2	<4.3	<4.4	<4.5	<4.4	<4.6	<4.5	<4.7	<4.8 J*	<4.8 J*	<4.2	<4.2	<4.4	<4.5	<4.6	<4.1
N-Ethyl perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	-	ng/L	<4.5	<4.5	<4.2	<4.3	<4.4	<4.5	<4.4	<4.6	<4.5	<4.7	<4.8 J*	<4.8 J*	<4.2	<4.2	<4.4	<4.5	<4.6	<4.1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	-	ng/L	<1.8	<1.8	<1.7	<1.7	<1.8	<1.8	<1.8	<1.8	<1.8	<1.9	<1.9 J*	<1.9 J*	<1.7	<1.7	<1.8	<1.8	<1.8	<1.7
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	-	ng/L	<1.8	<1.8	<1.7	<1.7	<1.8	<1.8	<1.8	<1.8	<1.8	<1.9	<1.9 J*	<1.9 J*	<1.7	<1.7	<1.8	<1.8	<1.8	<1.7
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	-	ng/L	<1.8	<1.8	<1.7	<1.7	<1.8	<1.8	<1.8	<1.8	<1.8	<1.9	<1.9 J*	<1.9 J*	<1.7	<1.7	<1.8	<1.8	<1.8	<1.7
Hexafluoropropylene oxide dimer acid (HFPO-DA)	-	ng/L	<3.6	<3.6	<3.4	<3.5	<3.5	<3.6	<3.5	<3.7	<3.6	<3.8	<3.8 J*	<3.9 J*	<3.4	<3.4	<3.5	<3.6	<3.6	<3.3
Perfluorooctanesulfonic acid (PFOS)	70†	ng/L	1.2 J	1.3 J	2.6	<1.7	49	<1.8	<1.8	22	7.2	11	<1.9 J*	<1.9 J*	1.4 J	<1.7	<1.8	<1.8	<1.8	<1.7
Perfluorooctanoic acid (PFOA)		ng/L	<1.8	<1.8	<1.7	<1.7	1.2 J	<1.8	<1.8	1.0 J	3.2	2.5	<1.9	<1.9 J*	<1.7	<1.7	<1.8	<1.8	<1.8	<1.7
LHA Combined (PFOS + PFOA)	70†	ng/L	1.2 J‡	1.3 J‡	2.6 ‡	n/a	50 J	n/a	n/a	23 J	10	14	n/a	n/a	1.4 J‡	n/a	n/a	n/a	n/a	n/a

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J* Estimated concentration due to quality control failures. Flag applied by Shannon & Wilson, Inc.

‡ Minimum concentration, the LHA Combined oconcentration includes one or more result that is not detected greater than the MDL.

n/a Not applicable. The LHA Combined concentration could not be calculated; PFOS and PFOA were not detected in the project sample.

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GUSTAVUS AIRPORT 2021 SITE CHARACTERIZATION
TABLE 7: TEMPORARY WELL POINTS PFAS RESULTS

Analyte	EPA LHA	Units	Sample: 21GST-TWP-1	21GST-TWP-2	21GST-TWP-3		21GST-TWP-4	21GST-TWP-5	21GST-TWP-6	21GST-TWP-7	21GST-TWP-8	21GST-TWP-9	21GST-TWP-10
		Date:	10/27/2021	10/27/2021	10/28/2021	Duplicate	10/28/2021	10/28/2021	10/30/2021	10/30/2021	10/28/2021	10/30/2021	10/27/2021
			Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Perfluorohexanesulfonic acid (PFHxS)	-	ng/L	<1.8	12	<1.8	<1.8	100	53	8.4	1.0 J	6.9	22	54
Perfluorohexanoic acid (PFHxA)	-	ng/L	<1.8	7.7	<1.8	<1.8	45	26	1.0 J	1.1 J	8.6	9.9	12
Perfluoroheptanoic acid (PFHpA)	-	ng/L	<1.8	1.8	<1.8	<1.8	17	16	0.61 J	1.2 J	8.4	2.2	4.3
Perfluorononanoic acid (PFNA)	-	ng/L	<1.8	<1.7	<1.8	<1.8	1.5 J	2.4	<1.7	0.52 J	<1.8	<1.7	<1.8
Perfluorobutanesulfonic acid (PFBS)	-	ng/L	<1.8	2.7	<1.8	<1.8	10	1.6 J	0.50 J	<1.7	<1.8	0.98 J	2.6
Perfluorodecanoic acid (PFDA)	-	ng/L	<1.8	<1.7	<1.8	<1.8	<1.7	2.9	<1.7	<1.7	<1.8	<1.7	<1.8
Perfluoroundecanoic acid (PFUnA)	-	ng/L	<1.8	<1.7	<1.8	<1.8	<1.7	<1.7	<1.7	<1.7	<1.8	<1.7	<1.8
Perfluorododecanoic acid (PFDoA)	-	ng/L	<1.8	<1.7	<1.8	<1.8	<1.7	<1.7	<1.7	<1.7	<1.8	<1.7	<1.8
Perfluorotridecanoic acid (PFTrDA)	-	ng/L	<1.8	<1.7	<1.8	<1.8	<1.7	<1.7	<1.7	<1.7	<1.8	<1.7	<1.8
Perfluorotetradecanoic acid (PFTeA)	-	ng/L	<1.8	<1.7	<1.8	<1.8	<1.7	<1.7	<1.7	<1.7	<1.8	<1.7	<1.8
N-Methyl perfluorooctane sulfonamidoacetic acid (N-MeFOSAA)	-	ng/L	<4.6	<4.3	<4.4	<4.5	<4.4	<4.2	<4.3	<4.3	<4.4	<4.3	<4.4
N-Ethyl perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	-	ng/L	<4.6	<4.3	<4.4	<4.5	<4.4	<4.2	<4.3	<4.3	<4.4	<4.3	<4.4
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	-	ng/L	<1.8	<1.7	<1.8	<1.8	<1.7	<1.7	<1.7	<1.7	<1.8	<1.7	<1.8
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	-	ng/L	<1.8	<1.7	<1.8	<1.8	<1.7	<1.7	<1.7	<1.7	<1.8	<1.7	<1.8
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	-	ng/L	<1.8	<1.7	<1.8	<1.8	<1.7	<1.7	<1.7	<1.7	<1.8	<1.7	<1.8
Hexafluoropropylene oxide dimer acid (HFPO-DA)	-	ng/L	<3.6	<3.4	<3.5	<3.6	<3.5	<3.4	<3.4	<3.5	<3.5	<3.5	<3.5
Perfluorooctanesulfonic acid (PFOS)	70†	ng/L	<1.8	44	<1.8	<1.8	**340**	**170**	8.0	19	**150**	**74**	63
Perfluorooctanoic acid (PFOA)		ng/L	<1.8	1.4 J	<1.8	<1.8	17	11	<1.7	2.7	2.9	2.7	3.0
LHA Combined (PFOS + PFOA)	70†	ng/L	n/a	45 J	n/a	n/a	**357**	**181**	8.0 ‡	22	**153**	**77**	66

NOTES: Results reported from TestAmerica work orders 320-81258-1 and 320-81055-1.

- No applicable regulatory limit exists for the associated analyte.

† EPA LHA level is 70 ppt for PFOS and PFOA combined.

< Analyte not detected; listed as less than the reporting limit (RL) unless otherwise flagged due to quality-control (QC) failures.

Bold Concentration exceeds LHA level.

J Estimated concentration, detected greater than the method detection limit (MDL) and less than the RL. Flag applied by the laboratory.

J* Estimated concentration due to quality control failures. Flag applied by Shannon & Wilson, Inc.

‡ Minimum concentration, the LHA Combined oconcentration includes one or more result that is not detected greater than the MDL.

n/a Not applicable. The LHA Combined concentration could not be calculated; PFOS and PFOA were not detected in the project sample.

EPA = Environmental Protection Agency; LHA = Lifetime Health Advisory;

ng/L = nanograms per liter, equivalent to parts per trillion

GUSTAVUS AIRPORT 2021 SITE CHARACTERIZATION
TABLE 7: TEMPORARY WELL POINTS PFAS RESULTS

Analyte	EPA LHA	Sample:	*21GST-TWP-11*		*21GST-TWP-12*	*21GST-TWP-13*	*21GST-TWP-14*		*21GST-TWP-15*		*PW-016*
		Date:	10/30/2021	Duplicate	10/30/2021	10/24/2021	10/24/2021	Duplicate	10/27/2021	Duplicate	10/26/2021
		Units	Water	Water	Water	Water	Water	Water	Water	Water	Water
Perfluorohexanesulfonic acid (PFHxS)	-	ng/L	6.4	5.9	0.57 J	14	3.9	3.8	11	11	1.5 J
Perfluorohexanoic acid (PFHxA)	-	ng/L	1.1 J	1.4 J	<1.7	11	3.1	2.9	6.3	6.8	3.8
Perfluoroheptanoic acid (PFHpA)	-	ng/L	1.1 J	1.1 J	<1.7	5.0	1.1 J	<2.0	3.0	3.1	1.9 J*
Perfluorononanoic acid (PFNA)	-	ng/L	<1.7	0.29 J	<1.7	<1.9	<2.0	<2.0 J*	<1.7	0.30 J	<1.9
Perfluorobutanesulfonic acid (PFBS)	-	ng/L	0.26 J	0.21 J	<1.7	0.61 J	<2.0	<2.0	0.53 J	0.51 J	<1.9
Perfluorodecanoic acid (PFDA)	-	ng/L	<1.7	<1.8	<1.7	<1.9	<2.0	<2.0	<1.7	<1.8	<1.9
Perfluoroundecanoic acid (PFUnA)	-	ng/L	<1.7	<1.8	<1.7	<1.9	<2.0	<2.0	<1.7	<1.8	<1.9
Perfluorododecanoic acid (PFDoA)	-	ng/L	<1.7	<1.8	<1.7	<1.9	<2.0	<2.0	<1.7	<1.8	<1.9
Perfluorotridecanoic acid (PFTrDA)	-	ng/L	<1.7	<1.8	<1.7	<1.9	<2.0	<2.0	<1.7	<1.8	<1.9
Perfluorotetradecanoic acid (PFTeA)	-	ng/L	<1.7	<1.8	<1.7	<1.9	<2.0	<2.0	<1.7	<1.8	<1.9
N-Methyl perfluorooctane sulfonamidoacetic acid (N-MeFOSAA)	-	ng/L	<4.3	<4.5	<4.3	<4.8	<5.0	<5.0	<4.2	<4.6	<4.8 J*
N-Ethyl perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	-	ng/L	<4.3	<4.5	<4.3	<4.8	<5.0	<5.0	<4.2	<4.6	<4.8 J*
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	-	ng/L	<1.7	<1.8	<1.7	<1.9	<2.0	<2.0	<1.7	<1.8	<1.9
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	-	ng/L	<1.7	<1.8	<1.7	<1.9	<2.0	<2.0	<1.7	<1.8	<1.9
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	-	ng/L	<1.7	<1.8	<1.7	<1.9	<2.0	<2.0	<1.7	<1.8	<1.9
Hexafluoropropylene oxide dimer acid (HFPO-DA)	-	ng/L	<3.5	<3.6	<3.5	<3.8	<4.0	<4.0 J*	<3.4	<3.7	<3.9
Perfluorooctanesulfonic acid (PFOS)	70†	ng/L	29	28	<1.7	41	23	26	**80**	**84**	<1.9
Perfluorooctanoic acid (PFOA)		ng/L	1.3 J	1.0 J	<1.7	1.3 J	<2.0	<2.0	1.4 J	1.3 J	4.2
LHA Combined (PFOS + PFOA)	70†	ng/L	30 J	29 J	n/a	42 J	23 ‡	26 ‡	**81 J**	**85 J**	4.2 ‡

NOTES: Results reported from TestAmerica work orders 320-81258-1 and 320-81055-1.

- No applicable regulatory limit exists for the associated analyte.

† EPA LHA level is 70 ppt for PFOS and PFOA combined.

< Analyte not detected; listed as less than the reporting limit (RL) unless otherwise flagged due to quality-control (QC) failures.

Bold Concentration exceeds LHA level.

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‡ Minimum concentration, the LHA Combined oconcentration includes one or more result that is not detected greater than the MDL.

n/a Not applicable. The LHA Combined concentration could not be calculated; PFOS and PFOA were not detected in the project sample.

EPA = Environmental Protection Agency; LHA = Lifetime Health Advisory;

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