

## Summary of June 2019 Updated Private Well Analytical Results - Gustavus

Analyte		Perfluoro- butane sulfonic acid (PFBS)	Perfluoro- heptanoic acid (PFHpA)	Perfluoro- nonanoic acid (PFNA)	Perfluoro- hexane sulfonic acid (PFHxS)	Perfluorooct anoic acid (PFOA)	Perfluorooct ane sulfonate (PFOS)	LHA Combined (PFOS + PFOA)
Action Level						70†	70†	70†
Sample Name	Sample Date	ppt	ppt	ppt	ppt	ppt	ppt	ppt
NPS Well	6/8/2019	1.5 J	1.8 J	<2.0	14	<3.4 B*	16	16 B*‡
PW-002	6/8/2019	1.9 J	1.8 J	<2.0	20	1.8 J	33	35 J
PW-010	6/9/2019	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	N/A
PW-011	6/8/2019	1.8 J	3.4	<2.0	23	<2.2 B*	<b>80</b>	<b>80 B*‡</b>
PW-011DUP	6/8/2019	1.9 J	3.5	<2.0	23	2.0	<b>82</b>	<b>84</b>
PW-012	6/8/2019	1.1 J	<2.0	<2.0	7.0	0.81 J	14	15 J
PW-022	6/7/2019	1.4 J	1.9 J	<2.0	19	1.7 J	<b>120</b>	<b>122 J</b>
PW-022DUP	6/7/2019	1.4 J	1.8 J	<2.0	19	1.3 J	<b>120</b>	<b>121 J</b>
PW-037	6/7/2019	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	N/A
PW-038	6/7/2019	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	N/A
PW-039	6/8/2019	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	N/A
PW-040	6/8/2019	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	N/A
PW-059	6/9/2019	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	N/A
PW-071	6/8/2019	<2.0	<2.0	<2.0	<2.0	0.82 J	<2.0	0.82 J‡
PW-202	6/7/2019	2.9	3.2	<2.0	17	4.2	38	42
PW-203	6/8/2019	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	N/A
PW-204	6/7/2019	<2.0	<2.0	<2.0	2.4	<2.0	4.7	4.7 ‡
PW-205	6/9/2019	2.0	<2.0	<2.0	11	0.93 J	9.0	9.9 J
PW-207	6/7/2019	<2.0	<2.0	<2.0	<2.0	1.0 J	<2.0	1.0 J‡
PW-208	6/7/2019	<2.0	<2.0	<2.0	2.5	0.80 J	8.4	9.2 J
PW-209	6/7/2019	1.6 J	3.8	<2.0	24	2.5	<b>120</b>	<b>123</b>
PW-210	6/8/2019	1.9 J	3.2	<2.0	24	2.4	<b>77</b>	<b>79</b>
PW-213	6/9/2019	2.2	2.1	<2.0	20	<2.2 B*	44	44 B*‡
PW-221	6/9/2019	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	N/A
PW-401	6/9/2019	1.2 J	1.7 J	<2.0	15	<2.0 B*	43	43 B*‡
PW-402	6/8/2019	1.7 J	2.9	<2.0	22	1.5 J	<b>92</b>	<b>94 J</b>
PW-403	6/8/2019	3.2	3.1	<2.0	30	2.6	<b>65</b>	68
PW-403DUP	6/8/2019	3.1	2.8	<2.0	30	<2.9 B*	<b>67</b>	67 B*‡
PW-405	6/8/2019	1.7 J	2.3	<2.0	20	<2.0 B*	<b>66</b>	66 B*‡
PW-406	6/8/2019	2.7	3.1	<2.0	24	<2.1 B*	<b>74</b>	<b>74 B*‡</b>

Analyte		Perluoro-butane sulfonic acid (PFBS)	Perfluoro-heptanoic acid (PFHpA)	Perfluoro-nonanoic acid (PFNA)	Perfluoro-hexane sulfonic acid (PFHxS)	Perfluorooctanoic acid (PFOA)	Perfluorooctane sulfonate (PFOS)	LHA Combined (PFOS + PFOA)
Action Level						70†		70†
Sample Name	Sample Date	ppt	ppt	ppt	ppt	ppt	ppt	ppt
PW-408	6/7/2019	2.4	3.0	<2.0	28	2.7	<b>88</b>	<b>91</b>
PW-414	6/8/2019	<2.0	<2.0	<2.0	2.1	<2.0	2.3	2.3 ‡
PW-415	6/7/2019	1.4 J	2.4	<2.0	19	1.6 J	<b>67</b>	69 J
PW-418	6/9/2019	2.1	2.0	<2.0	22	<2.0 B*	<b>66</b>	66 B*‡
PW-418DUP	6/9/2019	2.2	2.0	<2.0	22	<2.0 B*	63	63 B*‡
PW-419	6/8/2019	<2.0	0.81 J	<2.0	7.7	<2.0	14	14 ‡
PW-433	6/9/2019	<2.0	<2.0	<2.0	1.3 J	<2.0	<2.0	N/A
PW-438	6/9/2019	<2.0	<2.0	<2.0	2.7	<2.0	3.7	3.7 ‡
PW-441	6/7/2019	<2.0	<2.0	<2.0	3.9	<2.0	1.4 J	1.4 J‡
PW-462	6/7/2019	1.6 J	2.1	<2.0	18	1.8 J	48	50 J
PW-463	6/8/2019	2.6	3.0	<2.0	29	2.8	<b>74</b>	<b>77</b>

ppt parts per trillion, equivalent to nanograms per liter

EPA Environmental Protection Agency

LHA Lifetime Health Advisory

† 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.

DUP Field-duplicate sample

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

B\* Result is included in the same preparatory batch as a blank detection for the associated analyte. Flag applied by Shannon & Wilson, Inc.

‡ Minimum concentration, the LHA Combined concentration 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 because PFOS and PFOA were not detected in the project sample.