

## Report of Analysis

<b>Client Sample ID:</b> 17327-DWN	<b>Date Sampled:</b> 06/28/17
<b>Lab Sample ID:</b> FA45534-5	<b>Date Received:</b> 07/03/17
<b>Matrix:</b> DW - Drinking Water	<b>Percent Solids:</b> n/a
<b>Method:</b> EPA 537 EPA 537	
<b>Project:</b> 1173927	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	2Q3915.D	1	07/25/17 19:58	NAF	07/06/17 10:30	OP65839	S2Q88
Run #2							

	Initial Volume	Final Volume
Run #1	120 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
<b>PERFLUOROALKYLCARBOXYLIC ACIDS</b>							
335-67-1	Perfluorooctanoic acid	ND			0.0000170.000004	ng/l	
<b>PERFLUOROALKYLSULFONATES</b>							
1763-23-1	Perfluorooctanesulfonic acid <sup>b</sup>	0.00000701			0.0000170.000004	ng/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	99%		70-130%
	13C2-PFDA	61% <sup>c</sup>		70-130%

- (a) Insufficient sample for re-extraction.
- (b) Associated MS/MSD recovery or RPD outside control limits.
- (c) Outside control limits due to matrix interference. Confirmed by MS/MSD.

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 MCL = Maximum Contamination Level (40 CFR 141)      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.5  
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## Report of Analysis

<b>Client Sample ID:</b> 17327-DWM	<b>Date Sampled:</b> 06/28/17
<b>Lab Sample ID:</b> FA45534-6	<b>Date Received:</b> 07/03/17
<b>Matrix:</b> DW - Drinking Water	<b>Percent Solids:</b> n/a
<b>Method:</b> EPA 537 EPA 537	
<b>Project:</b> 1173927	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q3918.D	1	07/25/17 21:04	NAF	07/06/17 10:30	OP65839	S2Q88
Run #2							

Run #	Initial Volume	Final Volume
Run #1	120 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
<b>PERFLUOROALKYLCARBOXYLIC ACIDS</b>							
335-67-1	Perfluorooctanoic acid	ND			0.0000170.000004	ng/l	

<b>PERFLUOROALKYLSULFONATES</b>							
1763-23-1	Perfluorooctanesulfonic acid	0.00000551			0.0000170.000004	ng/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	95%		70-130%
	13C2-PFDA	76%		70-130%

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 MCL = Maximum Contamination Level (40 CFR 141)      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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## Report of Analysis

<b>Client Sample ID:</b> 17327-DWH	<b>Date Sampled:</b> 06/28/17
<b>Lab Sample ID:</b> FA45534-7	<b>Date Received:</b> 07/03/17
<b>Matrix:</b> DW - Drinking Water	<b>Percent Solids:</b> n/a
<b>Method:</b> EPA 537 EPA 537	
<b>Project:</b> 1173927	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	2Q3919.D	1	07/25/17 21:26	NAF	07/06/17 10:30	OP65839	S2Q88
Run #2 <sup>b</sup>	2Q3997.D	1	07/27/17 20:05	NAF	07/26/17 09:30	OP66150	S2Q90

	Initial Volume	Final Volume
Run #1	120 ml	1.0 ml
Run #2	125 ml	1.0 ml

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
<b>PERFLUOROALKYLCARBOXYLIC ACIDS</b>							
335-67-1	Perfluorooctanoic acid	0.00000938			0.0000170.0000042	ng/l	J

<b>PERFLUOROALKYLSULFONATES</b>							
1763-23-1	Perfluorooctanesulfonic acid	ND			0.0000170.0000042	ng/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	83%	108%	70-130%
	13C2-PFDA	27% <sup>c</sup>	78%	70-130%

- (a) Confirmed by re-extraction and reanalysis.
- (b) Confirmation run for surrogate recoveries.
- (c) Outside control limits.

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ND = Not detected	MDL = Method Detection Limit	J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 141)		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

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## Report of Analysis

<b>Client Sample ID:</b> 17327-DWZ	<b>Date Sampled:</b> 06/28/17
<b>Lab Sample ID:</b> FA45534-8	<b>Date Received:</b> 07/03/17
<b>Matrix:</b> DW - Drinking Water	<b>Percent Solids:</b> n/a
<b>Method:</b> EPA 537 EPA 537	
<b>Project:</b> 1173927	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	2Q3920.D	1	07/25/17 21:48	NAF	07/06/17 10:30	OP65839	S2Q88
Run #2 <sup>b</sup>	2Q3998.D	1	07/27/17 20:27	NAF	07/26/17 09:30	OP66150	S2Q90

	Initial Volume	Final Volume
Run #1	125 ml	1.0 ml
Run #2	130 ml	1.0 ml

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
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**PERFLUOROALKYLCARBOXYLIC ACIDS**

335-67-1	Perfluorooctanoic acid	0.00000943		0.0000160	0.0000040	ng/l	J
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**PERFLUOROALKYLSULFONATES**

1763-23-1	Perfluorooctanesulfonic acid	0.00000506		0.0000160	0.0000040	ng/l	J
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CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	82%	122%	70-130%
	13C2-PFDA	38% <sup>c</sup>	106%	70-130%

- (a) Confirmed by re-extraction and reanalysis.
- (b) Confirmation run for surrogate recoveries.
- (c) Outside control limits.

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ND = Not detected	MDL = Method Detection Limit	J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 141)		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

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# Report of Analysis

<b>Client Sample ID:</b> 17327-DWG		<b>Date Sampled:</b> 06/28/17
<b>Lab Sample ID:</b> FA45534-9		<b>Date Received:</b> 07/03/17
<b>Matrix:</b> DW - Drinking Water		<b>Percent Solids:</b> n/a
<b>Method:</b> EPA 537 EPA 537		
<b>Project:</b> 1173927		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	2Q3921.D	1	07/25/17 22:09	NAF	07/06/17 10:30	OP65839	S2Q88
Run #2 <sup>b</sup>	2Q3999.D	1	07/27/17 20:49	NAF	07/26/17 09:30	OP66150	S2Q90

	Initial Volume	Final Volume
Run #1	125 ml	1.0 ml
Run #2	130 ml	1.0 ml

**CAS No. Compound Result MCL RL MDL Units Q**

**PERFLUOROALKYL CARBOXYLIC ACIDS**

335-67-1 Perfluorooctanoic acid ND 0.0000160.0000040ng/1

**PERFLUOROALKYL SULFONATES**

1763-23-1 Perfluorooctanesulfonic acid ND 0.0000160.0000040ng/1

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	81%	125%	70-130%
	13C2-PFDA	54% <sup>c</sup>	105%	70-130%

- (a) Confirmed ND by re-extraction and reanalysis.
- (b) Confirmation run for surrogate recoveries.
- (c) Outside control limits.

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 MCL = Maximum Contamination Level (40 CFR 141)      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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