

Jacobs Engineering Group
P.O. Box 26428
Prescott Valley, AZ 86312

Project: Prescott Valley WWTP
Project Number: 43-250
Client Manager: Ethan Beyea

Reported:
08/18/22 12:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Type	Date Sampled	Date Received
0722062 INF Grab (Headworks)	22G2290-01	Wastewater	Grab	07/19/22 07:40	07/19/22 15:53
0722063 EFF Grab (001)	22G2290-02	Wastewater	Grab	07/19/22 07:45	07/19/22 15:53

Sample Condition Upon Receipt:

Temperature: 2.30 C

All samples were received in acceptable condition unless noted otherwise in the case narrative.

Case Narrative:

Holding Times: All holding times were met unless otherwise qualified.

QA/QC Criteria: All analyses met method requirements unless otherwise qualified.

Certifications: AZ(PHX)0004, AZ(TUC)0004, AIHA#102982, CDC ELITE Member.

Accreditation is applicable only to the test methods specified on the scope of accreditation held by LEGEND.

Comments: All reporting limits utilized in this report are from the approved method with the lowest possible levels of detection. All samples were analyzed on a "wet" basis unless designated as "dry weight".

This report contains data that were produced by a subcontracted laboratory certified for the fields of testing performed.

Legend Technical Services, St. Paul AZ0557

Bach Pham
651.221.4062

The Relative Percent Difference (RPD) between the Blank Spike and Blank Spike Duplicate for the PFAS analysis in batch B2H0505 was outside of laboratory limits for Perfluoro-1-decanesulfonate (PFDS), Perfluoro-n-tridecanoic Acid (PFTrDA) and Perfluoro-1-octanesulfonamide (FOSA-I). This is a result of low recoveries of PFDS and PFTrDA in the Blank Spike and high recovery of FOSA-I in the Blank Spike and acceptable recovery of these compounds in the Blank Spike Duplicate.

0722062 INF Grab (Headworks) (22G2290-01) Wastewater (Grab) Sampled: 07/19/22 07:40 Received: 07/19/22 15:53

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Legend Technical Services, Inc. #AZ0557

PERFLUOROALKYL SUBSTANCES

6:2 Fluorotelomersulfonate	<		6.0	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 19:46	EPA 537 (M)	L5
8:2 Fluorotelomersulfonate	<		3.5	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 19:46	EPA 537 (M)	
HFPO-DA (Gen X)	<		5.0	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 19:46	EPA 537 (M)	
N-Ethylperfluorooctanesulfonamido acetic acid	<		6.0	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 19:46	EPA 537 (M)	V1
N-Methylperfluorooctanesulfonamido acetic acid	<		4.5	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 19:46	EPA 537 (M)	
Perfluoro-1-butanefulfonate (PFBS)	<		1.5	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 19:46	EPA 537 (M)	
Perfluoro-1-decanesulfonate (PFDS)	<		4.0	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 19:46	EPA 537 (M)	L4, V1
Perfluoro-1-hexanesulfonate (PFHxS)	<		1.5	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 19:46	EPA 537 (M)	
Perfluoro-1-octanesulfonamide (FOSA-I)	<		1.5	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 19:46	EPA 537 (M)	L5
Perfluoro-1-octanesulfonate (PFOS)	<		4.0	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 19:46	EPA 537 (M)	
Perfluoro-n-butyric Acid (PFBA)	<		2.0	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 19:46	EPA 537 (M)	
Perfluoro-n-decanoic Acid (PFDA)	3.4		2.5	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 19:46	EPA 537 (M)	
Perfluoro-n-dodecanoic Acid (PFDoA)	<		5.0	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 19:46	EPA 537 (M)	
Perfluoro-n-heptanoic Acid (PFHpA)	<		1.0	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 19:46	EPA 537 (M)	
Perfluoro-n-hexanoic Acid (PFHxA)	5.0		1.5	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 19:46	EPA 537 (M)	
Perfluoro-n-nonanoic Acid (PFNA)	<		3.0	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 19:46	EPA 537 (M)	
Perfluoro-n-octanoic Acid (PFOA)	5.2		2.5	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 19:46	EPA 537 (M)	
Perfluoro-n-pentanoic Acid (PFPeA)	5.5		1.0	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 19:46	EPA 537 (M)	
Perfluoro-n-tetradecanoic Acid (PFTeDA)	<		1.5	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 19:46	EPA 537 (M)	
Perfluoro-n-tridecanoic Acid (PFTrDA)	<		4.5	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 19:46	EPA 537 (M)	L4
Perfluoro-n-undecanoic Acid (PFUdA)	<		2.0	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 19:46	EPA 537 (M)	
Surrogate: d3-N-MeFOSAA			13.6 %		50-150	B2H0505	08/05/22	08/10/22	EPA 537 (M)	S7
Surrogate: d5-N-EtFOSAA			38.3 %		50-150	B2H0505	08/05/22	08/10/22	EPA 537 (M)	S7
Surrogate: M2-6:2FTS			326 %		50-150	B2H0505	08/05/22	08/10/22	EPA 537 (M)	S4
Surrogate: M2-8:2FTS			94.7 %		50-150	B2H0505	08/05/22	08/10/22	EPA 537 (M)	
Surrogate: M3HFPO-DA			42.6 %		50-150	B2H0505	08/05/22	08/10/22	EPA 537 (M)	S7
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA-I)			18.0 %		50-150	B2H0505	08/05/22	08/10/22	EPA 537 (M)	S7
Surrogate: Perfluoro-n-(13C2)tetradecanoic Acid (M2PFTeDA)			33.9 %		50-150	B2H0505	08/05/22	08/10/22	EPA 537 (M)	S7
Surrogate: Perfluoro-n-[13C2]dodecanoic Acid (MPFDoA)			30.0 %		50-150	B2H0505	08/05/22	08/10/22	EPA 537 (M)	S7
Surrogate: Perfluoro-n-[13C4]butanoic Acid (MPFBA)			38.7 %		50-150	B2H0505	08/05/22	08/10/22	EPA 537 (M)	S7
Surrogate: Perfluoro-n-[13C4]heptanoic Acid (M4PFHpA)			42.2 %		50-150	B2H0505	08/05/22	08/10/22	EPA 537 (M)	S7
Surrogate: Perfluoro-n-[13C5]hexanoic Acid (M5PFHxA)			44.4 %		50-150	B2H0505	08/05/22	08/10/22	EPA 537 (M)	S7
Surrogate: Perfluoro-n-[13C5]pentanoic Acid (M5PFPeA)			38.7 %		50-150	B2H0505	08/05/22	08/10/22	EPA 537 (M)	S7
Surrogate: Perfluoro-n-[13C6]decanoic Acid (M6PFDA)			43.7 %		50-150	B2H0505	08/05/22	08/10/22	EPA 537 (M)	S7
Surrogate: Perfluoro-n-[13C7]undecanoic Acid (M7PFUdA)			34.0 %		50-150	B2H0505	08/05/22	08/10/22	EPA 537 (M)	S7
Surrogate: Perfluoro-n-[13C8]octanoic Acid (M8PFOA)			49.6 %		50-150	B2H0505	08/05/22	08/10/22	EPA 537 (M)	S7
Surrogate: Perfluoro-n-[13C9]nonanoic Acid (M9PFNA)			32.3 %		50-150	B2H0505	08/05/22	08/10/22	EPA 537 (M)	S7
Surrogate: Sodium perfluoro-1-[13C3]butanesulfonate (M3PFE)			53.3 %		50-150	B2H0505	08/05/22	08/10/22	EPA 537 (M)	

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0722062 INF Grab (Headworks) (22G2290-01) Wastewater (Grab) Sampled: 07/19/22 07:40 Received: 07/19/22 15:53

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Legend Technical Services, Inc. #AZ0557

PERFLUOROALKYL SUBSTANCES

Surrogate: Sodium perfluoro-1-[13C3]hexanesulfonate (M3PFH)			71.3 %		50-150	B2H0505	08/05/22	08/10/22	EPA 537 (M)	
Surrogate: Sodium perfluoro-1-[13C8]octanesulfonate (M8PFO)			52.2 %		50-150	B2H0505	08/05/22	08/10/22	EPA 537 (M)	

0722063 EFF Grab (001) (22G2290-02) Wastewater (Grab) Sampled: 07/19/22 07:45 Received: 07/19/22 15:53

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Legend Technical Services, Inc. #AZ0557

PERFLUOROALKYL SUBSTANCES

6:2 Fluorotelomersulfonate	<		5.7	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 20:17	EPA 537 (M)	L5
8:2 Fluorotelomersulfonate	<		3.3	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 20:17	EPA 537 (M)	
HFPO-DA (Gen X)	<		4.7	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 20:17	EPA 537 (M)	
N-Ethylperfluorooctanesulfonamido acetic acid	<		5.7	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 20:17	EPA 537 (M)	V1
N-Methylperfluorooctanesulfonamid oacetic acid	<		4.2	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 20:17	EPA 537 (M)	
Perfluoro-1-butanedisulfonate (PFBS)	1.4		1.4	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 20:17	EPA 537 (M)	
Perfluoro-1-decanedisulfonate (PFDS)	<		3.8	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 20:17	EPA 537 (M)	L4, V1
Perfluoro-1-hexanedisulfonate (PFHxS)	<		1.4	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 20:17	EPA 537 (M)	
Perfluoro-1-octanesulfonamide (FOSA-I)	<		1.4	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 20:17	EPA 537 (M)	L5
Perfluoro-1-octanesulfonate (PFOS)	<		3.8	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 20:17	EPA 537 (M)	
Perfluoro-n-butyric Acid (PFBA)	1.9		1.9	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 20:17	EPA 537 (M)	
Perfluoro-n-decanoic Acid (PFDA)	<		2.4	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 20:17	EPA 537 (M)	
Perfluoro-n-dodecanoic Acid (PFDoA)	<		4.7	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 20:17	EPA 537 (M)	
Perfluoro-n-heptanoic Acid (PFHpA)	1.2		0.94	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 20:17	EPA 537 (M)	
Perfluoro-n-hexanoic Acid (PFHxA)	11		1.4	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 20:17	EPA 537 (M)	
Perfluoro-n-nonanoic Acid (PFNA)	<		2.8	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 20:17	EPA 537 (M)	
Perfluoro-n-octanoic Acid (PFOA)	9.1		2.4	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 20:17	EPA 537 (M)	
Perfluoro-n-pentanoic Acid (PFPeA)	28		0.94	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 20:17	EPA 537 (M)	
Perfluoro-n-tetradecanoic Acid (PFTeDA)	<		1.4	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 20:17	EPA 537 (M)	
Perfluoro-n-tridecanoic Acid (PFTTrDA)	<		4.2	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 20:17	EPA 537 (M)	L4
Perfluoro-n-undecanoic Acid (PFUdA)	<		1.9	ng/L	2	B2H0505	08/05/22 08:54	08/10/22 20:17	EPA 537 (M)	
Surrogate: d3-N-MeFOSAA			101 %		50-150	B2H0505	08/05/22	08/10/22	EPA 537 (M)	
Surrogate: d5-N-EtFOSAA			166 %		50-150	B2H0505	08/05/22	08/10/22	EPA 537 (M)	S4
Surrogate: M2-6:2FTS			389 %		50-150	B2H0505	08/05/22	08/10/22	EPA 537 (M)	S4
Surrogate: M2-8:2FTS			434 %		50-150	B2H0505	08/05/22	08/10/22	EPA 537 (M)	S4
Surrogate: M3HFPO-DA			65.0 %		50-150	B2H0505	08/05/22	08/10/22	EPA 537 (M)	
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA-I)			98.6 %		50-150	B2H0505	08/05/22	08/10/22	EPA 537 (M)	
Surrogate: Perfluoro-n-(13C2)tetradecanoic Acid (M2PFTeDA)			22.9 %		50-150	B2H0505	08/05/22	08/10/22	EPA 537 (M)	S7
Surrogate: Perfluoro-n-[13C2]dodecanoic Acid (MPFDoA)			103 %		50-150	B2H0505	08/05/22	08/10/22	EPA 537 (M)	
Surrogate: Perfluoro-n-[13C4]butonic Acid (MPFBA)			53.8 %		50-150	B2H0505	08/05/22	08/10/22	EPA 537 (M)	
Surrogate: Perfluoro-n-[13C4]heptanoic Acid (M4PFHpA)			88.5 %		50-150	B2H0505	08/05/22	08/10/22	EPA 537 (M)	

Legend Technical Services of Arizona, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Laboratory Work Order No.: 22G2290

Jacobs Engineering Group
P.O. Box 26428
Prescott Valley, AZ 86312

Project: Prescott Valley WWTP
Project Number: 43-250
Client Manager: Ethan Beyea

Reported:
08/18/22 12:52

0722063 EFF Grab (001) (22G2290-02) Wastewater (Grab) Sampled: 07/19/22 07:45 Received: 07/19/22 15:53

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Legend Technical Services, Inc. #AZ0557

PERFLUOROALKYL SUBSTANCES

Surrogate: Perfluoro-n-[13C5]hexanoic Acid (M5PFHxA)	63.1 %			50-150		B2H0505	08/05/22	08/10/22	EPA 537 (M)	
Surrogate: Perfluoro-n-[13C5]pentanoic Acid (M5PFPeA)	54.0 %			50-150		B2H0505	08/05/22	08/10/22	EPA 537 (M)	
Surrogate: Perfluoro-n-[13C6]decanoic Acid (M6PFDA)	134 %			50-150		B2H0505	08/05/22	08/10/22	EPA 537 (M)	
Surrogate: Perfluoro-n-[13C7]undecanoic Acid (M7PFUdA)	138 %			50-150		B2H0505	08/05/22	08/10/22	EPA 537 (M)	
Surrogate: Perfluoro-n-[13C8]octanoic Acid (M8PFOA)	106 %			50-150		B2H0505	08/05/22	08/10/22	EPA 537 (M)	
Surrogate: Perfluoro-n-[13C9]nonanoic Acid (M9PFNA)	125 %			50-150		B2H0505	08/05/22	08/10/22	EPA 537 (M)	
Surrogate: Sodium perfluoro-1-[13C3]butanesulfonate (M3PFE)	75.1 %			50-150		B2H0505	08/05/22	08/10/22	EPA 537 (M)	
Surrogate: Sodium perfluoro-1-[13C3]hexanesulfonate (M3PFH)	118 %			50-150		B2H0505	08/05/22	08/10/22	EPA 537 (M)	
Surrogate: Sodium perfluoro-1-[13C8]octanesulfonate (M8PFO)	113 %			50-150		B2H0505	08/05/22	08/10/22	EPA 537 (M)	

PERFLUOROALKYL SUBSTANCES - Quality Control
Legend Technical Services, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2H0505 - General Prep Dept 4

Blank (B2H0505-BLK1)

Prepared: 08/05/22 Analyzed: 08/10/22

6:2 Fluorotelomersulfonate	<6.0	6.0	ng/L							
8:2 Fluorotelomersulfonate	<3.5	3.5	ng/L							
HFPO-DA (Gen X)	<5.0	5.0	ng/L							
N-Ethylperfluorooctanesulfonamidoacetic acid	<6.0	6.0	ng/L							
N-Methylperfluorooctanesulfonamidoacetic acid	<4.5	4.5	ng/L							
Perfluoro-1-butanefluorobutylsulfonate (PFBS)	<1.5	1.5	ng/L							
Perfluoro-1-decanesulfonate (PFDS)	<4.0	4.0	ng/L							
Perfluoro-1-hexanesulfonate (PFHxS)	<1.5	1.5	ng/L							
Perfluoro-1-octanesulfonamide (FOSA-I)	<1.5	1.5	ng/L							
Perfluoro-1-octanesulfonate (PFOS)	<4.0	4.0	ng/L							
Perfluoro-n-butyric Acid (PFBA)	<2.0	2.0	ng/L							
Perfluoro-n-decanoic Acid (PFDA)	<2.5	2.5	ng/L							
Perfluoro-n-dodecanoic Acid (PFDoA)	<5.0	5.0	ng/L							
Perfluoro-n-heptanoic Acid (PFHpA)	<1.0	1.0	ng/L							
Perfluoro-n-hexanoic Acid (PFHxA)	<1.5	1.5	ng/L							
Perfluoro-n-nonanoic Acid (PFNA)	<3.0	3.0	ng/L							
Perfluoro-n-octanoic Acid (PFOA)	<2.5	2.5	ng/L							
Perfluoro-n-pentanoic Acid (PFPeA)	<1.0	1.0	ng/L							
Perfluoro-n-tetradecanoic Acid (PFTeDA)	<1.5	1.5	ng/L							
Perfluoro-n-tridecanoic Acid (PFTrDA)	<4.5	4.5	ng/L							
Perfluoro-n-undecanoic Acid (PFUdA)	<2.0	2.0	ng/L							

PERFLUOROALKYL SUBSTANCES - Quality Control
Legend Technical Services, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2H0505 - General Prep Dept 4

LCS (B2H0505-BS1)

Prepared: 08/05/22 Analyzed: 08/10/22

6:2 Fluorotelomersulfonate	22.3	6.0	ng/L	19.0		118	80-120			
8:2 Fluorotelomersulfonate	17.1	3.5	ng/L	19.2		89.1	80-120			
HFPO-DA (Gen X)	22.0	5.0	ng/L	20.0		110	80-120			
N-Ethylperfluorooctanesulfonamidoacetic acid	24.0	6.0	ng/L	20.0		120	80-120			
N-Methylperfluorooctanesulfonamidoacetic acid	19.7	4.5	ng/L	20.0		98.3	80-120			
Perfluoro-1-butanefulfonate (PFBS)	18.6	1.5	ng/L	17.7		105	80-120			
Perfluoro-1-decanesulfonate (PFDS)	14.2	4.0	ng/L	19.3		73.8	80-120			L4
Perfluoro-1-hexanesulfonate (PFHxS)	19.6	1.5	ng/L	18.9		104	80-120			
Perfluoro-1-octanesulfonamide (FOSA-I)	31.2	1.5	ng/L	20.0		156	80-120			L3
Perfluoro-1-octanesulfonate (PFOS)	20.0	4.0	ng/L	19.1		104	80-120			
Perfluoro-n-butyric Acid (PFBA)	22.1	2.0	ng/L	20.0		110	80-120			
Perfluoro-n-decanoic Acid (PFDA)	19.8	2.5	ng/L	20.0		99.0	80-120			
Perfluoro-n-dodecanoic Acid (PFDoA)	19.9	5.0	ng/L	20.0		99.3	80-120			
Perfluoro-n-heptanoic Acid (PFHpA)	20.3	1.0	ng/L	20.0		102	80-120			
Perfluoro-n-hexanoic Acid (PFHxA)	21.2	1.5	ng/L	20.0		106	80-120			
Perfluoro-n-nonanoic Acid (PFNA)	21.5	3.0	ng/L	20.0		107	80-120			
Perfluoro-n-octanoic Acid (PFOA)	20.7	2.5	ng/L	20.0		103	80-120			
Perfluoro-n-pentanoic Acid (PFPeA)	21.0	1.0	ng/L	20.0		105	80-120			
Perfluoro-n-tetradecanoic Acid (PFTeDA)	22.7	1.5	ng/L	20.0		114	80-120			
Perfluoro-n-tridecanoic Acid (PFTrDA)	10.1	4.5	ng/L	20.0		50.4	80-120			L4
Perfluoro-n-undecanoic Acid (PFUdA)	19.5	2.0	ng/L	20.0		97.7	80-120			

PERFLUOROALKYL SUBSTANCES - Quality Control
Legend Technical Services, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2H0505 - General Prep Dept 4										
LCS Dup (B2H0505-BSD1)										
<i>Prepared: 08/05/22 Analyzed: 08/10/22</i>										
6:2 Fluorotelomersulfonate	24.2	6.0	ng/L	19.0		128	80-120	8.25	20	L3
8:2 Fluorotelomersulfonate	18.0	3.5	ng/L	19.2		94.0	80-120	5.36	20	
HFPO-DA (Gen X)	19.9	5.0	ng/L	20.0		99.6	80-120	10.1	20	
N-Ethylperfluorooctanesulfonamidoacetic acid	23.3	6.0	ng/L	20.0		116	80-120	3.28	20	
N-Methylperfluorooctanesulfonamidoacetic acid	20.3	4.5	ng/L	20.0		101	80-120	2.95	20	
Perfluoro-1-butanesulfonate (PFBS)	18.5	1.5	ng/L	17.7		105	80-120	0.857	20	
Perfluoro-1-decanesulfonate (PFDS)	19.7	4.0	ng/L	19.3		102	80-120	32.4	20	R1
Perfluoro-1-hexanesulfonate (PFHxS)	19.0	1.5	ng/L	18.9		101	80-120	3.15	20	
Perfluoro-1-octanesulfonamide (FOSA-I)	22.6	1.5	ng/L	20.0		113	80-120	31.9	20	R1
Perfluoro-1-octanesulfonate (PFOS)	21.3	4.0	ng/L	19.1		111	80-120	6.18	20	
Perfluoro-n-butyric Acid (PFBA)	22.1	2.0	ng/L	20.0		111	80-120	0.311	20	
Perfluoro-n-decanoic Acid (PFDA)	20.9	2.5	ng/L	20.0		105	80-120	5.48	20	
Perfluoro-n-dodecanoic Acid (PFDoA)	20.7	5.0	ng/L	20.0		104	80-120	4.31	20	
Perfluoro-n-heptanoic Acid (PFHpA)	20.7	1.0	ng/L	20.0		103	80-120	1.81	20	
Perfluoro-n-hexanoic Acid (PFHxA)	20.8	1.5	ng/L	20.0		104	80-120	1.87	20	
Perfluoro-n-nonanoic Acid (PFNA)	22.0	3.0	ng/L	20.0		110	80-120	2.35	20	
Perfluoro-n-octanoic Acid (PFOA)	20.5	2.5	ng/L	20.0		103	80-120	0.713	20	
Perfluoro-n-pentanoic Acid (PFPeA)	21.2	1.0	ng/L	20.0		106	80-120	1.26	20	
Perfluoro-n-tetradecanoic Acid (PFTeDA)	21.6	1.5	ng/L	20.0		108	80-120	5.13	20	
Perfluoro-n-tridecanoic Acid (PFTrDA)	17.7	4.5	ng/L	20.0		88.7	80-120	55.1	20	R1
Perfluoro-n-undecanoic Acid (PFUdA)	18.7	2.0	ng/L	20.0		93.4	80-120	4.47	20	

Notes and Definitions

V1	CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.
S7	Surrogate recovery was below both laboratory and method limits. Unable to confirm matrix effect.
S4	Surrogate recovery was above laboratory and method acceptance limits. No target analytes were detected in the sample.
R1	RPD/RSD exceeded the method acceptance limit. See case narrative.
L5	The associated blank spike recovery was above laboratory/method acceptance limits. This analyte was not detected in the sample.
L4	The associated blank spike recovery was below method acceptance limits.
L3	The associated blank spike recovery was above method acceptance limits.
BLK	Method Blank
LCS/Dup	Laboratory Control Sample/Laboratory Fortified Blank/Duplicate
MS/Dup	Matrix Spike/Duplicate
Dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference



22G2290



PM: Barbara Frank

SENDING LABORATORY:

Legend Technical Services of Arizona, Inc.
17631 North 25th Avenue
Phoenix, AZ 85023
Phone: 602-324-6100
Fax: 602-324-6101
Project Manager: Barbara Frank
Project: Prescott Valley WWTP

RECEIVING LABORATORY:

Legend Technical Services, St. Paul AZ0557
88 Empire Drive
Saint Paul, MN 55103
Phone : (800) 826-8553
Fax: (651) 642-1239

Client: Jacobs Engineering Group%Prescott

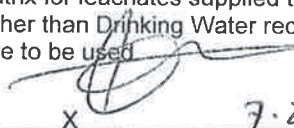
Analysis	Due	Expires	Leach Date & Time	Sample Comments
Sample ID: 22G2290-01 Wastewater		Sampled:07/19/22 07:40		
537- Modified for WW (Subc07/28/22 15:00		08/02/22 07:40		
<i>Containers Supplied:</i> 03_500mL Plastic Cool to 4° C (A)				

Special Instructions/Comments:

Sample ID: 22G2290-02 Wastewater		Sampled:07/19/22 07:45		
537- Modified for WW (Subc07/28/22 15:00		08/02/22 07:45		
<i>Containers Supplied:</i> 03_500mL Plastic Cool to 4° C (A)				

Special Instructions/Comments:

* The sample matrix for leachates supplied to the MN laboratory reflects the matrix of the original sample received by LEGEND AZ.
**For matrices other than Drinking Water requiring drinking water methods (such as EPA 505, etc.), a 10x dilution is acceptable. Appropriate data qualifiers are to be used

Courtney Keen 

Released By (Print & Sign)	Date	Time	Received By (Print & Sign)	Date	Time
FedEx	7.20.22	1630	FedEx	7.20.22	1630
Released By (Print & Sign)	Date	Time	Received By (Print & Sign)	Date	Time

22G2290



PM: Barbara Frank

CHAIN OF CUSTODY RECORD

LEGEND

Technical Services, Inc.

17631 N. 25th Avenue • Phoenix, AZ 85023 • (602) 324-6100 • Fax (602) 324-6101
4585 S. Palo Verde Rd, Ste 423 • Tucson, AZ 85714 • (520) 327-1234 • Fax (520) 327-0518

Page 1 of 1

Client Name Jacobs Engineering	Report Mailing Address 3466 E. Long Mesa Dr. Prescott Valley AZ 86314	City Prescott Valley	State AZ	Zip 86314	Phone 928-713-9501	Email Address Ethan.Beyea@Jacobs.com
Project Name PVWWTP	Project Number 43-250	Contact Name Ethan Beyea	Purchase Order No.	Email Results <input checked="" type="checkbox"/>	Special Detection Limits <input type="checkbox"/>	EDD <input type="checkbox"/>

SAMPLE TYPE CODES	TURN AROUND TIME		Sample Location	Composite	Grab	Sample Type	Compliance	No. of Containers	pH (Lab Use Only)	REQUESTED ANALYSES		LAB NO.
	Standard 7-10 Day	Other										
DW=Drinking Water WW=Wastewater SW=Surface Water GW=Groundwater O=Other	S=Soil/Solid T=Travel Blank F=Food G=Sludge/Biosolids	<input type="checkbox"/> Standard 7-10 Day <input type="checkbox"/> Other	Client's	Sample Date	Sample Time							
			0722062 INF Grab	7/19/22	0740	Headworks	X	WW	1	X		01/22 FB
			0722063 EFF Grab	7/19/22	0745	001	X	WW	1	X		03/22 FB

TO ENSURE COMPLETION OF ANALYSIS, SAMPLES MUST BE RECEIVED AT LEAST 3 HOURS PRIOR TO THE HOLD TIME EXPIRATION

Comments / Special Instructions:

No. of Containers	2 to 2-3	CK 7-19-22
Temperature	2-3 °C	
Custody Seals	Y	(N)
Seals Intact	Y	N
Preserved	(Y)	(N)

WHITE-LAB YELLOW-CLIENT
CK 7-19-22

RELINQUISHED BY		SAMPLES RECEIVED BY	
Sampler Signature	<i>[Signature]</i>	Date	7/19/22
Sampler Printed Name	DAVID ZAMBRA	Signature	<i>[Signature]</i>
Sampler Signature	<i>[Signature]</i>	Date	7/19/22
Sampler Printed Name	Rio Naud	Signature	<i>[Signature]</i>
Sampler Signature	<i>[Signature]</i>	Date	7/19/22
Sampler Printed Name	Frank Teus	Signature	<i>[Signature]</i>
Sampler Signature	<i>[Signature]</i>	Date	7/19/22
Sampler Printed Name	Frank Teus	Signature	<i>[Signature]</i>