

19 November 2019

Cynthia Lucas
EPCOR Water Arizona Inc.
15626 West Del Webb Blvd
Sun City, AZ 85351

RE: Sun City-L402-PFC21

Laboratory Work Order No.: 19K0870

Legend Technical Services of Arizona, Inc. is pleased to provide the enclosed analytical results for the aforementioned project. These results relate only to the items tested. This cover letter and the accompanying pages represent the full report for these analyses and should only be reproduced in full. Samples for this project were received by the laboratory on 11/07/19 14:15.

The samples were processed in accordance with the Chain of Custody document and the results presented relate only to the samples tested. The Chain of Custody is considered part of this report.

All samples will be retained by LEGEND for 30 days from the date of this report and then discarded unless other arrangements are made. Due to hold-time and method sample volume requirements, microbiological samples are not retained unless other arrangements are made.

This entire report was reviewed and approved for release by the undersigned. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

LEGEND TECHNICAL SERVICES OF ARIZONA, INC.



Barbara Frank
Client Services Representative
(602) 324-6100

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

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Type	Date Sampled	Date Received
SCEPDS001	19K0870-01	Groundwater	Grab	11/07/19 10:25	11/07/19 14:15
SCEPDS002	19K0870-02	Groundwater	Grab	11/07/19 10:15	11/07/19 14:15
SCEPDS003	19K0870-03	Groundwater	Grab	11/07/19 10:35	11/07/19 14:15
SCEPDS008	19K0870-04	Groundwater	Grab	11/07/19 13:40	11/07/19 14:15
Trip Blank 001	19K0870-05	Groundwater	Grab	11/07/19 00:00	11/07/19 14:15
Trip Blank 002	19K0870-06	Groundwater	Grab	11/07/19 00:00	11/07/19 14:15
Trip Blank 003	19K0870-07	Groundwater	Grab	11/07/19 00:00	11/07/19 14:15
Trip Blank 008	19K0870-08	Groundwater	Grab	11/07/19 00:00	11/07/19 14:15

Sample Condition Upon Receipt:

Temperature: 2.10 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 each scope of accreditation held by LEGEND.

Comments: There were no problems encountered during the processing of the samples, unless otherwise noted. 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.

Eurofins Eaton Analytical, Inc. (fka UL) AZ0432

Pat Muff
574-472-5503

SCEPDS001 (19K0870-01) Groundwater (Grab) Sampled: 11/07/19 10:25 Received: 11/07/19 14:15

Analyte	Result	PQL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
UL#AZ0432									
L402									
10:2 Fluorotelomer sulfonic acid	<0.000020	0.000020	mg/L	0.9	267742	11/13/19 08:08	11/14/19 06:27	L402	
11CI-PF3OUdS/F-53B Minor	<0.000020	0.000020	mg/L	0.9	267742	11/13/19 08:08	11/14/19 06:27	L402	
4:2 Fluorotelomer sulfonic acid (	<0.000020	0.000020	mg/L	0.9	267742	11/13/19 08:08	11/14/19 06:27	L402	
6:2 Fluorotelomer sulfonic acid (	<0.000020	0.000020	mg/L	0.9	267742	11/13/19 08:08	11/14/19 06:27	L402	
8:2 Fluorotelomer sulfonic acid (	<0.000020	0.000020	mg/L	0.9	267742	11/13/19 08:08	11/14/19 06:27	L402	
9CI-PF3ONS/F-53B Major	<0.000020	0.000020	mg/L	0.9	267742	11/13/19 08:08	11/14/19 06:27	L402	
ADONA	<0.000020	0.000020	mg/L	0.9	267742	11/13/19 08:08	11/14/19 06:27	L402	
HFPO-DA/GenX	<0.000050	0.000050	mg/L	0.9	267742	11/13/19 08:08	11/14/19 06:27	L402	
N-ethyl Perfluorooctanesulfonate	<0.000020	0.000020	mg/L	0.9	267742	11/13/19 08:08	11/14/19 06:27	L402	
N-ethylperfluorooctane sulfonamide	<0.000020	0.000020	mg/L	0.9	267742	11/13/19 08:08	11/14/19 06:27	L402	
N-ethylperfluorooctane sulfonamide	<0.000020	0.000020	mg/L	0.9	267742	11/13/19 08:08	11/14/19 06:27	L402	
N-methyl Perfluorooctanesulfonate	<0.000020	0.000020	mg/L	0.9	267742	11/13/19 08:08	11/14/19 06:27	L402	
N-methylperfluorooctane sulfonamide	<0.000020	0.000020	mg/L	0.9	267742	11/13/19 08:08	11/14/19 06:27	L402	
N-methylperfluorooctane sulfonamide	<0.000020	0.000020	mg/L	0.9	267742	11/13/19 08:08	11/14/19 06:27	L402	
Perfluoro-2-methoxyethoxyacetic acid	<0.000050	0.000050	mg/L	0.9	267742	11/13/19 08:08	11/14/19 06:27	L402	
Perfluoro-3-methoxypropanoic acid	<0.000050	0.000050	mg/L	0.9	267742	11/13/19 08:08	11/14/19 06:27	L402	
Perfluoro-4-isopropoxybutanoic acid	<0.000050	0.000050	mg/L	0.9	267742	11/13/19 08:08	11/14/19 06:27	L402	
Perfluoro-4-methoxybutanoic acid	<0.000050	0.000050	mg/L	0.9	267742	11/13/19 08:08	11/14/19 06:27	L402	
Perfluorobutanesulfonic acid (PFBS)	<0.000020	0.000020	mg/L	0.9	267742	11/13/19 08:08	11/14/19 06:27	L402	
Perfluorobutanoic acid (PFBA)	<0.000050	0.000050	mg/L	0.9	267742	11/13/19 08:08	11/14/19 06:27	L402	
Perfluorodecanesulfonic acid (PFDS)	<0.000020	0.000020	mg/L	0.9	267742	11/13/19 08:08	11/14/19 06:27	L402	
Perfluorodecanoic acid (PFDA)	<0.000020	0.000020	mg/L	0.9	267742	11/13/19 08:08	11/14/19 06:27	L402	
Perfluorododecanesulfonic acid (PFDS)	<0.000020	0.000020	mg/L	0.9	267742	11/13/19 08:08	11/14/19 06:27	L402	
Perfluorododecanoic acid (PFDD)	<0.000020	0.000020	mg/L	0.9	267742	11/13/19 08:08	11/14/19 06:27	L402	
Perfluoroheptanesulfonic acid (PFHS)	<0.000020	0.000020	mg/L	0.9	267742	11/13/19 08:08	11/14/19 06:27	L402	
Perfluoroheptanoic acid (PFHpA)	<0.000020	0.000020	mg/L	0.9	267742	11/13/19 08:08	11/14/19 06:27	L402	
Perfluorohexadecanoic acid (PFHxDA)	<0.000020	0.000020	mg/L	0.9	267742	11/13/19 08:08	11/14/19 06:27	L402	
Perfluorohexanesulfonic acid (PFHS)	<0.000020	0.000020	mg/L	0.9	267742	11/13/19 08:08	11/14/19 06:27	L402	
Perfluorohexanoic acid (PFHxA)	<0.000020	0.000020	mg/L	0.9	267742	11/13/19 08:08	11/14/19 06:27	L402	
Perfluorononanesulfonic acid (PFNS)	<0.000020	0.000020	mg/L	0.9	267742	11/13/19 08:08	11/14/19 06:27	L402	
Perfluorononanoic acid (PFNA)	<0.000020	0.000020	mg/L	0.9	267742	11/13/19 08:08	11/14/19 06:27	L402	
Perfluorooctane sulfonamide (PFOS)	<0.000020	0.000020	mg/L	0.9	267742	11/13/19 08:08	11/14/19 06:27	L402	
Perfluorooctanesulfonic acid (PFOS)	<0.000020	0.000020	mg/L	0.9	267742	11/13/19 08:08	11/14/19 06:27	L402	
Perfluorooctanoic acid (PFOA)	<0.000020	0.000020	mg/L	0.9	267742	11/13/19 08:08	11/14/19 06:27	L402	
Perfluoropentanesulfonic acid (PFPS)	<0.000020	0.000020	mg/L	0.9	267742	11/13/19 08:08	11/14/19 06:27	L402	
Perfluoropentanoic acid (PFPeA)	<0.000020	0.000020	mg/L	0.9	267742	11/13/19 08:08	11/14/19 06:27	L402	
Perfluorotetradecanoic acid (PFTeDA)	<0.000020	0.000020	mg/L	0.9	267742	11/13/19 08:08	11/14/19 06:27	L402	
Perfluorotridecanoic acid (PFTriDA)	<0.000020	0.000020	mg/L	0.9	267742	11/13/19 08:08	11/14/19 06:27	L402	
Perfluoroundecanoic acid (PFUnDA)	<0.000020	0.000020	mg/L	0.9	267742	11/13/19 08:08	11/14/19 06:27	L402	

SCEPDS002 (19K0870-02) Groundwater (Grab) Sampled: 11/07/19 10:15 Received: 11/07/19 14:15

Analyte	Result	PQL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
UL#AZ0432									
L402									

SCEPDS002 (19K0870-02) Groundwater (Grab) Sampled: 11/07/19 10:15 Received: 11/07/19 14:15

Analyte	Result	PQL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
UL#AZ0432									
L402									
10:2 Fluorotelomer sulfonic acid	<0.000020	0.000020	mg/L	0.87	267742	11/13/19 08:08	11/14/19 08:39	L402	
11CI-PF3OUdS/F-53B Minor	<0.000020	0.000020	mg/L	0.87	267742	11/13/19 08:08	11/14/19 08:39	L402	
4:2 Fluorotelomer sulfonic acid (	<0.000020	0.000020	mg/L	0.87	267742	11/13/19 08:08	11/14/19 08:39	L402	
6:2 Fluorotelomer sulfonic acid (	<0.000020	0.000020	mg/L	0.87	267742	11/13/19 08:08	11/14/19 08:39	L402	
8:2 Fluorotelomer sulfonic acid (	<0.000020	0.000020	mg/L	0.87	267742	11/13/19 08:08	11/14/19 08:39	L402	
9CI-PF3ONS/F-53B Major	<0.000020	0.000020	mg/L	0.87	267742	11/13/19 08:08	11/14/19 08:39	L402	
ADONA	<0.000020	0.000020	mg/L	0.87	267742	11/13/19 08:08	11/14/19 08:39	L402	
HFPO-DA/GenX	<0.000050	0.000050	mg/L	0.87	267742	11/13/19 08:08	11/14/19 08:39	L402	
N-ethyl Perfluorooctanesulfonam	<0.000020	0.000020	mg/L	0.87	267742	11/13/19 08:08	11/14/19 08:39	L402	
N-ethylperfluorooctane sulfonam	<0.000020	0.000020	mg/L	0.87	267742	11/13/19 08:08	11/14/19 08:39	L402	
N-ethylperfluorooctane sulfonam	<0.000020	0.000020	mg/L	0.87	267742	11/13/19 08:08	11/14/19 08:39	L402	
N-methyl Perfluorooctanesulfonam	<0.000020	0.000020	mg/L	0.87	267742	11/13/19 08:08	11/14/19 08:39	L402	
N-methylperfluorooctane sulfonam	<0.000020	0.000020	mg/L	0.87	267742	11/13/19 08:08	11/14/19 08:39	L402	
N-methylperfluorooctane sulfonam	<0.000020	0.000020	mg/L	0.87	267742	11/13/19 08:08	11/14/19 08:39	L402	
Perfluoro-2-methoxyethoxyacetic	<0.000050	0.000050	mg/L	0.87	267742	11/13/19 08:08	11/14/19 08:39	L402	
Perfluoro-3-methoxypropanoic a	<0.000050	0.000050	mg/L	0.87	267742	11/13/19 08:08	11/14/19 08:39	L402	
Perfluoro-4-isopropoxybutanoic ;	<0.000050	0.000050	mg/L	0.87	267742	11/13/19 08:08	11/14/19 08:39	L402	
Perfluoro-4-methoxybutanoic aci	<0.000050	0.000050	mg/L	0.87	267742	11/13/19 08:08	11/14/19 08:39	L402	
Perfluorobutanesulfonic acid (PF	<0.000020	0.000020	mg/L	0.87	267742	11/13/19 08:08	11/14/19 08:39	L402	
Perfluorobutanoic acid (PFBA)	<0.000050	0.000050	mg/L	0.87	267742	11/13/19 08:08	11/14/19 08:39	L402	
Perfluorodecanesulfonic acid (PI	<0.000020	0.000020	mg/L	0.87	267742	11/13/19 08:08	11/14/19 08:39	L402	
Perfluorodecanoic acid (PFDA)	<0.000020	0.000020	mg/L	0.87	267742	11/13/19 08:08	11/14/19 08:39	L402	
Perfluorododecanesulfonic acid	<0.000020	0.000020	mg/L	0.87	267742	11/13/19 08:08	11/14/19 08:39	L402	
Perfluorododecanoic acid (PFDC	<0.000020	0.000020	mg/L	0.87	267742	11/13/19 08:08	11/14/19 08:39	L402	
Perfluoroheptanesulfonic acid (F	<0.000020	0.000020	mg/L	0.87	267742	11/13/19 08:08	11/14/19 08:39	L402	
Perfluoroheptanoic acid (PFHpA	<0.000020	0.000020	mg/L	0.87	267742	11/13/19 08:08	11/14/19 08:39	L402	
Perfluorohexadecanoic acid (PF	<0.000020	0.000020	mg/L	0.87	267742	11/13/19 08:08	11/14/19 08:39	L402	
Perfluorohexanesulfonic acid (PI	<0.000020	0.000020	mg/L	0.87	267742	11/13/19 08:08	11/14/19 08:39	L402	
Perfluorohexanoic acid (PFHxA)	<0.000020	0.000020	mg/L	0.87	267742	11/13/19 08:08	11/14/19 08:39	L402	
Perfluorononanesulfonic acid (PI	<0.000020	0.000020	mg/L	0.87	267742	11/13/19 08:08	11/14/19 08:39	L402	
Perfluorononanoic acid (PFNA)	<0.000020	0.000020	mg/L	0.87	267742	11/13/19 08:08	11/14/19 08:39	L402	
Perfluorooctane sulfonamide (PF	<0.000020	0.000020	mg/L	0.87	267742	11/13/19 08:08	11/14/19 08:39	L402	
Perfluorooctanesulfonic acid (PF	<0.000020	0.000020	mg/L	0.87	267742	11/13/19 08:08	11/14/19 08:39	L402	
Perfluorooctanoic acid (PFOA)	<0.000020	0.000020	mg/L	0.87	267742	11/13/19 08:08	11/14/19 08:39	L402	
Perfluoropentanesulfonic acid (F	<0.000020	0.000020	mg/L	0.87	267742	11/13/19 08:08	11/14/19 08:39	L402	
Perfluoropentanoic acid (PFPeA	<0.000020	0.000020	mg/L	0.87	267742	11/13/19 08:08	11/14/19 08:39	L402	
Perfluorotetradecanoic acid (PF	<0.000020	0.000020	mg/L	0.87	267742	11/13/19 08:08	11/14/19 08:39	L402	
Perfluorotridecanoic acid (PFTriC	<0.000020	0.000020	mg/L	0.87	267742	11/13/19 08:08	11/14/19 08:39	L402	
Perfluoroundecanoic acid (PFUr	<0.000020	0.000020	mg/L	0.87	267742	11/13/19 08:08	11/14/19 08:39	L402	

SCEPDS003 (19K0870-03) Groundwater (Grab) Sampled: 11/07/19 10:35 Received: 11/07/19 14:15

Analyte	Result	PQL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
UL#AZ0432									

L402

SCEPDS008 (19K0870-04) Groundwater (Grab) Sampled: 11/07/19 13:40 Received: 11/07/19 14:15

Analyte	Result	PQL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
UL#AZ0432									
L402									
10:2 Fluorotelomer sulfonic acid	<0.000020	0.000020	mg/L	0.89	267742	11/13/19 08:08	11/14/19 09:31	L402	
11CI-PF3OUdS/F-53B Minor	<0.000020	0.000020	mg/L	0.89	267742	11/13/19 08:08	11/14/19 09:31	L402	
4:2 Fluorotelomer sulfonic acid (	<0.000020	0.000020	mg/L	0.89	267742	11/13/19 08:08	11/14/19 09:31	L402	
6:2 Fluorotelomer sulfonic acid (	<0.000020	0.000020	mg/L	0.89	267742	11/13/19 08:08	11/14/19 09:31	L402	
8:2 Fluorotelomer sulfonic acid (	<0.000020	0.000020	mg/L	0.89	267742	11/13/19 08:08	11/14/19 09:31	L402	
9CI-PF3ONS/F-53B Major	<0.000020	0.000020	mg/L	0.89	267742	11/13/19 08:08	11/14/19 09:31	L402	
ADONA	<0.000020	0.000020	mg/L	0.89	267742	11/13/19 08:08	11/14/19 09:31	L402	
HFPO-DA/GenX	<0.000050	0.000050	mg/L	0.89	267742	11/13/19 08:08	11/14/19 09:31	L402	
N-ethyl Perfluorooctanesulfonam	<0.000020	0.000020	mg/L	0.89	267742	11/13/19 08:08	11/14/19 09:31	L402	
N-ethylperfluorooctane sulfonam	<0.000020	0.000020	mg/L	0.89	267742	11/13/19 08:08	11/14/19 09:31	L402	
N-ethylperfluorooctane sulfonam	<0.000020	0.000020	mg/L	0.89	267742	11/13/19 08:08	11/14/19 09:31	L402	
N-methyl Perfluorooctanesulfonam	<0.000020	0.000020	mg/L	0.89	267742	11/13/19 08:08	11/14/19 09:31	L402	
N-methylperfluorooctane sulfonam	<0.000020	0.000020	mg/L	0.89	267742	11/13/19 08:08	11/14/19 09:31	L402	
N-methylperfluorooctane sulfonam	<0.000020	0.000020	mg/L	0.89	267742	11/13/19 08:08	11/14/19 09:31	L402	
Perfluoro-2-methoxyethoxyacetic	<0.000050	0.000050	mg/L	0.89	267742	11/13/19 08:08	11/14/19 09:31	L402	
Perfluoro-3-methoxypropanoic a	<0.000050	0.000050	mg/L	0.89	267742	11/13/19 08:08	11/14/19 09:31	L402	
Perfluoro-4-isopropoxybutanoic ;	<0.000050	0.000050	mg/L	0.89	267742	11/13/19 08:08	11/14/19 09:31	L402	
Perfluoro-4-methoxybutanoic aci	<0.000050	0.000050	mg/L	0.89	267742	11/13/19 08:08	11/14/19 09:31	L402	
Perfluorobutanesulfonic acid (PF	<0.000020	0.000020	mg/L	0.89	267742	11/13/19 08:08	11/14/19 09:31	L402	
Perfluorobutanoic acid (PFBA)	<0.000050	0.000050	mg/L	0.89	267742	11/13/19 08:08	11/14/19 09:31	L402	
Perfluorodecanesulfonic acid (PI	<0.000020	0.000020	mg/L	0.89	267742	11/13/19 08:08	11/14/19 09:31	L402	
Perfluorodecanoic acid (PFDA)	<0.000020	0.000020	mg/L	0.89	267742	11/13/19 08:08	11/14/19 09:31	L402	
Perfluorododecanesulfonic acid	<0.000020	0.000020	mg/L	0.89	267742	11/13/19 08:08	11/14/19 09:31	L402	
Perfluorododecanoic acid (PFDC	<0.000020	0.000020	mg/L	0.89	267742	11/13/19 08:08	11/14/19 09:31	L402	
Perfluoroheptanesulfonic acid (F	<0.000020	0.000020	mg/L	0.89	267742	11/13/19 08:08	11/14/19 09:31	L402	
Perfluoroheptanoic acid (PFHpA	<0.000020	0.000020	mg/L	0.89	267742	11/13/19 08:08	11/14/19 09:31	L402	
Perfluorohexadecanoic acid (PF	<0.000020	0.000020	mg/L	0.89	267742	11/13/19 08:08	11/14/19 09:31	L402	
Perfluorohexanesulfonic acid (PI	<0.000020	0.000020	mg/L	0.89	267742	11/13/19 08:08	11/14/19 09:31	L402	
Perfluorohexanoic acid (PFHxA)	0.000037	0.000020	mg/L	0.89	267742	11/13/19 08:08	11/14/19 09:31	L402	
Perfluorononanesulfonic acid (PI	<0.000020	0.000020	mg/L	0.89	267742	11/13/19 08:08	11/14/19 09:31	L402	
Perfluorononanoic acid (PFNA)	<0.000020	0.000020	mg/L	0.89	267742	11/13/19 08:08	11/14/19 09:31	L402	
Perfluorooctane sulfonamide (PF	<0.000020	0.000020	mg/L	0.89	267742	11/13/19 08:08	11/14/19 09:31	L402	
Perfluorooctanesulfonic acid (PF	<0.000020	0.000020	mg/L	0.89	267742	11/13/19 08:08	11/14/19 09:31	L402	
Perfluorooctanoic acid (PFOA)	0.000051	0.000020	mg/L	0.89	267742	11/13/19 08:08	11/14/19 09:31	L402	
Perfluoropentanesulfonic acid (F	<0.000020	0.000020	mg/L	0.89	267742	11/13/19 08:08	11/14/19 09:31	L402	
Perfluoropentanoic acid (PFPeA	0.000051	0.000020	mg/L	0.89	267742	11/13/19 08:08	11/14/19 09:31	L402	
Perfluorotetradecanoic acid (PF	<0.000020	0.000020	mg/L	0.89	267742	11/13/19 08:08	11/14/19 09:31	L402	
Perfluorotridecanoic acid (PFTrC	<0.000020	0.000020	mg/L	0.89	267742	11/13/19 08:08	11/14/19 09:31	L402	
Perfluoroundecanoic acid (PFUn	<0.000020	0.000020	mg/L	0.89	267742	11/13/19 08:08	11/14/19 09:31	L402	

Trip Blank 008 (19K0870-08) Groundwater (Grab) Sampled: 11/07/19 00:00 Received: 11/07/19 14:15

Analyte	Result	PQL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
UL#AZ0432									
L402									

L402 - Quality Control
UL#AZ0432

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 267742 - SPE

Blank (4483361)

Prepared & Analyzed: 11/13/19

10:2 Fluorotelomer sulfonic acid (10:2 FTS)	<0.0000020	0.0000020	mg/L				-			
11Cl-PF3OUdS/F-53B Minor	<0.0000020	0.0000020	mg/L				-			
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	<0.0000020	0.0000020	mg/L				-			
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	<0.0000020	0.0000020	mg/L				-			
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	<0.0000020	0.0000020	mg/L				-			
9Cl-PF3ONS/F-53B Major	<0.0000020	0.0000020	mg/L				-			
ADONA	<0.0000020	0.0000020	mg/L				-			
HFPO-DA/GenX	<0.0000050	0.0000050	mg/L				-			
N-ethyl	<0.0000020	0.0000020	mg/L				-			
Perfluorooctanesulfonamidoacetic acid										
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<0.0000020	0.0000020	mg/L				-			
N-ethylperfluorooctane sulfonamidoethanol	<0.0000020	0.0000020	mg/L				-			
N-methyl	<0.0000020	0.0000020	mg/L				-			
Perfluorooctanesulfonamidoacetic acid										
N-methylperfluorooctane sulfonamide (NMeFOSA)	<0.0000020	0.0000020	mg/L				-			
N-methylperfluorooctane sulfonamidoethanol	<0.0000020	0.0000020	mg/L				-			
Perfluoro-2-methoxyethoxyacetic acid	<0.0000050	0.0000050	mg/L				-			
Perfluoro-3-methoxypropanoic acid (PFMOPrA)	<0.0000050	0.0000050	mg/L				-			
Perfluoro-4-isopropoxybutanoic acid	<0.0000050	0.0000050	mg/L				-			
Perfluoro-4-methoxybutanoic acid (PFMOBA)	<0.0000050	0.0000050	mg/L				-			
Perfluorobutanesulfonic acid (PFBS)	<0.0000020	0.0000020	mg/L				-			
Perfluorobutanoic acid (PFBA)	<0.0000050	0.0000050	mg/L				-			
Perfluorodecanesulfonic acid (PFDS)	<0.0000020	0.0000020	mg/L				-			
Perfluorodecanoic acid (PFDA)	<0.0000020	0.0000020	mg/L				-			
Perfluorododecanesulfonic acid (PFDoS)	<0.0000020	0.0000020	mg/L				-			
Perfluorododecanoic acid (PFDoA)	<0.0000020	0.0000020	mg/L				-			
Perfluoroheptanesulfonic acid (PFHpS)	<0.0000020	0.0000020	mg/L				-			
Perfluoroheptanoic acid (PFHpA)	<0.0000020	0.0000020	mg/L				-			
Perfluorohexadecanoic acid (PFHxDA)	<0.0000020	0.0000020	mg/L				-			
Perfluorohexanesulfonic acid (PFHxS)	<0.0000020	0.0000020	mg/L				-			
Perfluorohexanoic acid (PFHxA)	<0.0000020	0.0000020	mg/L				-			
Perfluorononanesulfonic acid (PFNS)	<0.0000020	0.0000020	mg/L				-			
Perfluorononanoic acid (PFNA)	<0.0000020	0.0000020	mg/L				-			
Perfluorooctane sulfonamide (PFOSA)	<0.0000020	0.0000020	mg/L				-			
Perfluorooctanesulfonic acid (PFOS)	<0.0000020	0.0000020	mg/L				-			
Perfluorooctanoic acid (PFOA)	<0.0000020	0.0000020	mg/L				-			
Perfluoropentanesulfonic acid (PFPeS)	<0.0000020	0.0000020	mg/L				-			
Perfluoropentanoic acid (PFPeA)	<0.0000020	0.0000020	mg/L				-			
Perfluorotetradecanoic acid (PFTeDA)	<0.0000020	0.0000020	mg/L				-			
Perfluorotridecanoic acid (PFTTrDA)	<0.0000020	0.0000020	mg/L				-			
Perfluoroundecanoic acid (PFUnA)	<0.0000020	0.0000020	mg/L				-			

L402 - Quality Control

UL#AZ0432

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 267742 - SPE

Matrix Spike (4483363)

Source: 4477954

Prepared: 11/13/19 Analyzed: 11/14/19

10:2 Fluorotelomer sulfonic acid (10:2 FTS)	<0.0000020	0.0000020	mg/L	0.000002	< MRL	75	50-150			
11Cl-PF3OUdS/F-53B Minor	<0.0000020	0.0000020	mg/L	0.000002	< MRL	97	50-150			
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	0.0000022	0.0000020	mg/L	0.000002	< MRL	110	50-150			
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	0.0000068	0.0000020	mg/L	0.000002	4.9000	97	50-150			
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0.0000024	0.0000020	mg/L	0.000002	< MRL	121	50-150			
9Cl-PF3ONS/F-53B Major	0.0000024	0.0000020	mg/L	0.000002	< MRL	118	50-150			
ADONA	0.0000023	0.0000020	mg/L	0.000002	< MRL	117	50-150			
HFPO-DA/GenX	0.0000051	0.0000050	mg/L	0.000005	< MRL	103	50-150			
N-ethyl	0.0000022	0.0000020	mg/L	0.000002	< MRL	110	50-150			
Perfluorooctanesulfonamidoacetic acid										
N-ethylperfluorooctane sulfonamide (NETFOSA)	0.0000034	0.0000020	mg/L	0.000002	< MRL	171	50-150			
N-ethylperfluorooctane sulfonamidoethanol	<0.0000020	0.0000020	mg/L	0.000002	< MRL	55	50-150			
N-methyl	0.0000021	0.0000020	mg/L	0.000002	< MRL	105	50-150			
Perfluorooctanesulfonamidoacetic acid										
N-methylperfluorooctane sulfonamide (NMeFOSA)	<0.0000020	0.0000020	mg/L	0.000002	< MRL	69	50-150			
N-methylperfluorooctane sulfonamidoethanol	<0.0000020	0.0000020	mg/L	0.000002	< MRL	75	50-150			
Perfluoro-2-methoxyethoxyacetic acid	<0.0000050	0.0000050	mg/L	0.000005	< MRL	73	50-150			
Perfluoro-3-methoxypropanoic acid (PFMOPrA)	0.0000033	0.0000050	mg/L	0.000005	18.0830	295	50-150			
Perfluoro-4-isopropoxybutanoic acid	<0.0000050	0.0000050	mg/L	0.000005	< MRL	93	50-150			
Perfluoro-4-methoxybutanoic acid (PFMOBA)	0.0000053	0.0000050	mg/L	0.000005	< MRL	106	50-150			
Perfluorobutanesulfonic acid (PFBS)	0.0000081	0.0000020	mg/L	0.000002	5.1058	152	50-150			
Perfluorobutanoic acid (PFBA)	0.000019	0.0000050	mg/L	0.000005	11.5227	152	50-150			
Perfluorodecanesulfonic acid (PFDS)	0.0000026	0.0000020	mg/L	0.000002	< MRL	128	50-150			
Perfluorodecanoic acid (PFDA)	0.0000026	0.0000020	mg/L	0.000002	< MRL	130	50-150			
Perfluorododecanesulfonic acid (PFDoS)	<0.0000020	0.0000020	mg/L	0.000002	< MRL	81	40-160			
Perfluorododecanoic acid (PFDoA)	0.0000020	0.0000020	mg/L	0.000002	< MRL	102	50-150			
Perfluoroheptanesulfonic acid (PFHpS)	0.0000023	0.0000020	mg/L	0.000002	< MRL	117	50-150			
Perfluoroheptanoic acid (PFHpA)	0.0000070	0.0000020	mg/L	0.000002	4.5021	126	50-150			
Perfluorohexadecanoic acid (PFHxDA)	0.0000023	0.0000020	mg/L	0.000002	< MRL	114	50-150			
Perfluorohexanesulfonic acid (PFHxS)	0.0000068	0.0000020	mg/L	0.000002	4.3270	122	50-150			
Perfluorohexanoic acid (PFHxA)	0.000011	0.0000020	mg/L	0.000002	8.0605	159	50-150			
Perfluorononanesulfonic acid (PFNS)	0.0000023	0.0000020	mg/L	0.000002	< MRL	113	50-150			
Perfluorononanoic acid (PFNA)	0.0000030	0.0000020	mg/L	0.000002	< MRL	148	50-150			
Perfluorooctane sulfonamide (PFOSA)	0.0000022	0.0000020	mg/L	0.000002	< MRL	111	50-150			
Perfluorooctanesulfonic acid (PFOS)	0.0000030	0.0000020	mg/L	0.000002	23.0642	351	50-150			
Perfluorooctanoic acid (PFOA)	0.0000090	0.0000020	mg/L	0.000002	5.9659	150	50-150			
Perfluoropentanesulfonic acid (PFPeS)	0.0000023	0.0000020	mg/L	0.000002	< MRL	116	50-150			
Perfluoropentanoic acid (PFPeA)	0.000013	0.0000020	mg/L	0.000002	9.3093	174	50-150			
Perfluorotetradecanoic acid (PFTeDA)	0.0000023	0.0000020	mg/L	0.000002	< MRL	117	50-150			
Perfluorotridecanoic acid (PFTrDA)	<0.0000020	0.0000020	mg/L	0.000002	< MRL	65	40-160			
Perfluoroundecanoic acid (PFUnA)	<0.0000020	0.0000020	mg/L	0.000002	< MRL	98	50-150			

L402 - Quality Control

UL#AZ0432

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 267742 - SPE

Duplicate (4483364)	Source: 19K0870-04			Prepared: 11/13/19 Analyzed: 11/14/19	
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	<0.000020	0.000020	mg/L	<0.000020	-
11Cl-PF3OUdS/F-53B Minor	<0.000020	0.000020	mg/L	<0.000020	-
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	<0.000020	0.000020	mg/L	<0.000020	-
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	<0.000020	0.000020	mg/L	<0.000020	-
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	<0.000020	0.000020	mg/L	<0.000020	-
9Cl-PF3ONS/F-53B Major	<0.000020	0.000020	mg/L	<0.000020	-
ADONA	<0.000020	0.000020	mg/L	<0.000020	-
HFPO-DA/GenX	<0.000050	0.000050	mg/L	<0.000050	-
N-ethyl Perfluorooctanesulfonamidoacetic acid	<0.000020	0.000020	mg/L	<0.000020	-
N-ethylperfluorooctane sulfonamide (NETFOSA)	<0.000020	0.000020	mg/L	<0.000020	-
N-ethylperfluorooctane sulfonamidoethanol	<0.000020	0.000020	mg/L	<0.000020	-
N-methyl Perfluorooctanesulfonamidoacetic acid	<0.000020	0.000020	mg/L	<0.000020	-
N-methylperfluorooctane sulfonamide (NMeFOSA)	<0.000020	0.000020	mg/L	<0.000020	-
N-methylperfluorooctane sulfonamidoethanol	<0.000020	0.000020	mg/L	<0.000020	-
Perfluoro-2-methoxyethoxyacetic acid	<0.000050	0.000050	mg/L	<0.000050	-
Perfluoro-3-methoxypropanoic acid (PFMOPrA)	<0.000050	0.000050	mg/L	<0.000050	-
Perfluoro-4-isopropoxybutanoic acid	<0.000050	0.000050	mg/L	<0.000050	-
Perfluoro-4-methoxybutanoic acid (PFMOBA)	<0.000050	0.000050	mg/L	<0.000050	-
Perfluorobutanesulfonic acid (PFBS)	<0.000020	0.000020	mg/L	<0.000020	-
Perfluorobutanoic acid (PFBA)	<0.000050	0.000050	mg/L	<0.000050	-
Perfluorodecanesulfonic acid (PFDS)	<0.000020	0.000020	mg/L	<0.000020	-
Perfluorodecanoic acid (PFDA)	<0.000020	0.000020	mg/L	<0.000020	-
Perfluorododecanesulfonic acid (PFDoS)	<0.000020	0.000020	mg/L	<0.000020	-
Perfluorododecanoic acid (PFDoA)	<0.000020	0.000020	mg/L	<0.000020	-
Perfluoroheptanesulfonic acid (PFHpS)	<0.000020	0.000020	mg/L	<0.000020	-
Perfluoroheptanoic acid (PFHpA)	<0.000020	0.000020	mg/L	<0.000020	-
Perfluorohexadecanoic acid (PFHxDA)	<0.000020	0.000020	mg/L	<0.000020	-
Perfluorohexanesulfonic acid (PFHxS)	<0.000020	0.000020	mg/L	<0.000020	-
Perfluorohexanoic acid (PFHxA)	0.000037	0.000020	mg/L	3.6818	-
Perfluorononanesulfonic acid (PFNS)	<0.000020	0.000020	mg/L	<0.000020	-
Perfluorononanoic acid (PFNA)	<0.000020	0.000020	mg/L	<0.000020	-
Perfluorooctane sulfonamide (PFOSA)	<0.000020	0.000020	mg/L	<0.000020	-
Perfluorooctanesulfonic acid (PFOS)	<0.000020	0.000020	mg/L	<0.000020	-
Perfluorooctanoic acid (PFOA)	0.000053	0.000020	mg/L	5.1397	-
Perfluoropentanesulfonic acid (PFPeS)	<0.000020	0.000020	mg/L	<0.000020	-
Perfluoropentanoic acid (PFPeA)	0.000051	0.000020	mg/L	5.1215	-
Perfluorotetradecanoic acid (PFTeDA)	<0.000020	0.000020	mg/L	<0.000020	-
Perfluorotridecanoic acid (PFTrDA)	<0.000020	0.000020	mg/L	<0.000020	-
Perfluoroundecanoic acid (PFUnA)	<0.000020	0.000020	mg/L	<0.000020	-

L402 - Quality Control

UL#AZ0432

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 267742 - SPE

Reference (4483374)

Prepared: 10/31/19 Analyzed: 11/13/19

10:2 Fluorotelomer sulfonic acid (10:2 FTS)	<0.000020	0.000020	mg/L	0.000002		87	50-150			
11Cl-PF3OUdS/F-53B Minor	<0.000020	0.000020	mg/L	0.000002		94	50-150			
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	0.000022	0.000020	mg/L	0.000002		110	50-150			
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	<0.000020	0.000020	mg/L	0.000002		94	50-150			
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0.000022	0.000020	mg/L	0.000002		109	50-150			
9Cl-PF3ONS/F-53B Major	<0.000020	0.000020	mg/L	0.000002		92	50-150			
ADONA	0.000021	0.000020	mg/L	0.000002		104	50-150			
HFPO-DA/GenX	<0.000050	0.000050	mg/L	0.000005		92	50-150			
N-ethyl Perfluorooctanesulfonamidoacetic acid	0.000020	0.000020	mg/L	0.000002		100	50-150			
N-ethylperfluorooctane sulfonamide (NETFOSA)	<0.000020	0.000020	mg/L	0.000002		88	50-150			
N-ethylperfluorooctane sulfonamidoethanol	<0.000020	0.000020	mg/L	0.000002		86	50-150			
N-methyl Perfluorooctanesulfonamidoacetic acid	<0.000020	0.000020	mg/L	0.000002		91	50-150			
N-methylperfluorooctane sulfonamide (NMeFOSA)	<0.000020	0.000020	mg/L	0.000002		95	50-150			
N-methylperfluorooctane sulfonamidoethanol	<0.000020	0.000020	mg/L	0.000002		95	50-150			
Perfluoro-2-methoxyethoxyacetic acid	<0.000050	0.000050	mg/L	0.000005		89	50-150			
Perfluoro-3-methoxypropanoic acid (PFMOPrA)	0.000052	0.000050	mg/L	0.000005		103	50-150			
Perfluoro-4-isopropoxybutanoic acid	0.000060	0.000050	mg/L	0.000005		121	50-150			
Perfluoro-4-methoxybutanoic acid (PFMOBA)	0.000051	0.000050	mg/L	0.000005		102	50-150			
Perfluorobutanesulfonic acid (PFBS)	<0.000020	0.000020	mg/L	0.000002		92	50-150			
Perfluorobutanoic acid (PFBA)	<0.000050	0.000050	mg/L	0.000005		94	50-150			
Perfluorodecanesulfonic acid (PFDS)	<0.000020	0.000020	mg/L	0.000002		96	50-150			
Perfluorodecanoic acid (PFDA)	<0.000020	0.000020	mg/L	0.000002		96	50-150			
Perfluorododecanesulfonic acid (PFDoS)	0.000020	0.000020	mg/L	0.000002		102	50-150			
Perfluorododecanoic acid (PFDoA)	<0.000020	0.000020	mg/L	0.000002		96	50-150			
Perfluoroheptanesulfonic acid (PFHpS)	<0.000020	0.000020	mg/L	0.000002		88	50-150			
Perfluoroheptanoic acid (PFHpA)	<0.000020	0.000020	mg/L	0.000002		95	50-150			
Perfluorohexadecanoic acid (PFHxDA)	0.000026	0.000020	mg/L	0.000002		131	50-150			
Perfluorohexanesulfonic acid (PFHxS)	<0.000020	0.000020	mg/L	0.000002		92	50-150			
Perfluorohexanoic acid (PFHxA)	<0.000020	0.000020	mg/L	0.000002		97	50-150			
Perfluorononanesulfonic acid (PFNS)	<0.000020	0.000020	mg/L	0.000002		73	50-150			
Perfluorononanoic acid (PFNA)	<0.000020	0.000020	mg/L	0.000002		93	50-150			
Perfluorooctane sulfonamide (PFOSA)	<0.000020	0.000020	mg/L	0.000002		94	50-150			
Perfluorooctanesulfonic acid (PFOS)	0.000020	0.000020	mg/L	0.000002		100	50-150			
Perfluorooctanoic acid (PFOA)	<0.000020	0.000020	mg/L	0.000002		95	50-150			
Perfluoropentanesulfonic acid (PFPeS)	<0.000020	0.000020	mg/L	0.000002		89	50-150			
Perfluoropentanoic acid (PFPeA)	<0.000020	0.000020	mg/L	0.000002		95	50-150			
Perfluorotetradecanoic acid (PFTeDA)	<0.000020	0.000020	mg/L	0.000002		98	50-150			
Perfluorotridecanoic acid (PFTrDA)	0.000020	0.000020	mg/L	0.000002		101	50-150			
Perfluoroundecanoic acid (PFUnA)	<0.000020	0.000020	mg/L	0.000002		96	50-150			

L402 - Quality Control

UL#AZ0432

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 267742 - SPE

Reference (4483375)

Prepared: 10/31/19 Analyzed: 11/14/19

10:2 Fluorotelomer sulfonic acid (10:2 FTS)	0.000085	0.0000020	mg/L	0.0001		85	70-130			
11Cl-PF3OUdS/F-53B Minor	0.000093	0.0000020	mg/L	0.0001		93	70-130			
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	0.00010	0.0000020	mg/L	0.0001		103	70-130			
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	0.000085	0.0000020	mg/L	0.0001		85	70-130			
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0.00010	0.0000020	mg/L	0.0001		103	70-130			
9Cl-PF3ONS/F-53B Major	0.00011	0.0000020	mg/L	0.0001		108	70-130			
ADONA	0.00010	0.0000020	mg/L	0.0001		105	70-130			
HFPO-DA/GenX	0.00024	0.0000050	mg/L	0.00025		97	70-130			
N-ethyl Perfluorooctanesulfonamidoacetic acid	0.000094	0.0000020	mg/L	0.0001		94	70-130			
N-ethylperfluorooctane sulfonamide (NETFOSA)	0.000094	0.0000020	mg/L	0.0001		94	70-130			
N-ethylperfluorooctane sulfonamidoethanol	0.000094	0.0000020	mg/L	0.0001		94	70-130			
N-methyl Perfluorooctanesulfonamidoacetic acid	0.000094	0.0000020	mg/L	0.0001		94	70-130			
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.000093	0.0000020	mg/L	0.0001		93	70-130			
N-methylperfluorooctane sulfonamidoethanol	0.000093	0.0000020	mg/L	0.0001		93	70-130			
Perfluoro-2-methoxyethoxyacetic acid	0.00023	0.0000050	mg/L	0.00025		90	70-130			
Perfluoro-3-methoxypropanoic acid (PFMOPrA)	0.00019	0.0000050	mg/L	0.00025		77	70-130			
Perfluoro-4-isopropoxybutanoic acid	0.00026	0.0000050	mg/L	0.00025		104	70-130			
Perfluoro-4-methoxybutanoic acid (PFMOBA)	0.00021	0.0000050	mg/L	0.00025		85	70-130			
Perfluorobutanesulfonic acid (PFBS)	0.000094	0.0000020	mg/L	0.0001		94	70-130			
Perfluorobutanoic acid (PFBA)	0.00025	0.0000050	mg/L	0.00025		100	70-130			
Perfluorodecanesulfonic acid (PFDS)	0.00010	0.0000020	mg/L	0.0001		101	70-130			
Perfluorodecanoic acid (PFDA)	0.000099	0.0000020	mg/L	0.0001		99	70-130			
Perfluorododecanesulfonic acid (PFDoS)	0.00011	0.0000020	mg/L	0.0001		106	70-130			
Perfluorododecanoic acid (PFDoA)	0.000094	0.0000020	mg/L	0.0001		94	70-130			
Perfluoroheptanesulfonic acid (PFHpS)	0.00010	0.0000020	mg/L	0.0001		102	70-130			
Perfluoroheptanoic acid (PFHpA)	0.000092	0.0000020	mg/L	0.0001		92	70-130			
Perfluorohexadecanoic acid (PFHxDA)	0.000093	0.0000020	mg/L	0.0001		93	70-130			
Perfluorohexanesulfonic acid (PFHxS)	0.000093	0.0000020	mg/L	0.0001		93	70-130			
Perfluorohexanoic acid (PFHxA)	0.000095	0.0000020	mg/L	0.0001		95	70-130			
Perfluorononanesulfonic acid (PFNS)	0.000088	0.0000020	mg/L	0.0001		88	70-130			
Perfluorononanoic acid (PFNA)	0.000093	0.0000020	mg/L	0.0001		93	70-130			
Perfluorooctane sulfonamide (PFOSA)	0.000092	0.0000020	mg/L	0.0001		92	70-130			
Perfluorooctanesulfonic acid (PFOS)	0.000092	0.0000020	mg/L	0.0001		92	70-130			
Perfluorooctanoic acid (PFOA)	0.000095	0.0000020	mg/L	0.0001		95	70-130			
Perfluoropentanesulfonic acid (PFPeS)	0.000078	0.0000020	mg/L	0.0001		78	70-130			
Perfluoropentanoic acid (PFPeA)	0.000092	0.0000020	mg/L	0.0001		92	70-130			
Perfluorotetradecanoic acid (PFTeDA)	0.000095	0.0000020	mg/L	0.0001		95	70-130			
Perfluorotridecanoic acid (PFTrDA)	0.000098	0.0000020	mg/L	0.0001		98	70-130			
Perfluoroundecanoic acid (PFUnA)	0.000093	0.0000020	mg/L	0.0001		93	70-130			

L402 - Quality Control

UL#AZ0432

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 267742 - SPE

Reference (4483378)

Prepared: 10/31/19 Analyzed: 11/14/19

10:2 Fluorotelomer sulfonic acid (10:2 FTS)	0.00019	0.0000020	mg/L	0.0002		96	70-130			
11Cl-PF3OUdS/F-53B Minor	0.00019	0.0000020	mg/L	0.0002		96	70-130			
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	0.00020	0.0000020	mg/L	0.0002		100	70-130			
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	0.00019	0.0000020	mg/L	0.0002		93	70-130			
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0.00020	0.0000020	mg/L	0.0002		98	70-130			
9Cl-PF3ONS/F-53B Major	0.00022	0.0000020	mg/L	0.0002		110	70-130			
ADONA	0.00022	0.0000020	mg/L	0.0002		111	70-130			
HFPO-DA/GenX	0.00051	0.0000050	mg/L	0.0005		103	70-130			
N-ethyl Perfluorooctanesulfonamidoacetic acid	0.00020	0.0000020	mg/L	0.0002		98	70-130			
N-ethylperfluorooctane sulfonamide (NETFOSA)	0.00020	0.0000020	mg/L	0.0002		99	70-130			
N-ethylperfluorooctane sulfonamidoethanol	0.00021	0.0000020	mg/L	0.0002		104	70-130			
N-methyl Perfluorooctanesulfonamidoacetic acid	0.00020	0.0000020	mg/L	0.0002		99	70-130			
N-methylperfluorooctane sulfonamide (NMeFOSA)	0.00020	0.0000020	mg/L	0.0002		99	70-130			
N-methylperfluorooctane sulfonamidoethanol	0.00020	0.0000020	mg/L	0.0002		100	70-130			
Perfluoro-2-methoxyethoxyacetic acid	0.00058	0.0000050	mg/L	0.0005		117	70-130			
Perfluoro-3-methoxypropanoic acid (PFMOPrA)	0.00042	0.0000050	mg/L	0.0005		84	70-130			
Perfluoro-4-isopropoxybutanoic acid	0.00051	0.0000050	mg/L	0.0005		102	70-130			
Perfluoro-4-methoxybutanoic acid (PFMOBA)	0.00043	0.0000050	mg/L	0.0005		86	70-130			
Perfluorobutanesulfonic acid (PFBS)	0.00020	0.0000020	mg/L	0.0002		101	70-130			
Perfluorobutanoic acid (PFBA)	0.00053	0.0000050	mg/L	0.0005		105	70-130			
Perfluorodecanesulfonic acid (PFDS)	0.00020	0.0000020	mg/L	0.0002		102	70-130			
Perfluorodecanoic acid (PFDA)	0.00021	0.0000020	mg/L	0.0002		106	70-130			
Perfluorododecanesulfonic acid (PFDoS)	0.00022	0.0000020	mg/L	0.0002		112	70-130			
Perfluorododecanoic acid (PFDoA)	0.00020	0.0000020	mg/L	0.0002		101	70-130			
Perfluoroheptanesulfonic acid (PFHpS)	0.00022	0.0000020	mg/L	0.0002		111	70-130			
Perfluoroheptanoic acid (PFHpA)	0.00020	0.0000020	mg/L	0.0002		100	70-130			
Perfluorohexadecanoic acid (PFHxDA)	0.00020	0.0000020	mg/L	0.0002		98	70-130			
Perfluorohexanesulfonic acid (PFHxS)	0.00020	0.0000020	mg/L	0.0002		99	70-130			
Perfluorohexanoic acid (PFHxA)	0.00020	0.0000020	mg/L	0.0002		102	70-130			
Perfluorononanesulfonic acid (PFNS)	0.00021	0.0000020	mg/L	0.0002		104	70-130			
Perfluorononanoic acid (PFNA)	0.00020	0.0000020	mg/L	0.0002		99	70-130			
Perfluorooctane sulfonamide (PFOSA)	0.00020	0.0000020	mg/L	0.0002		99	70-130			
Perfluorooctanesulfonic acid (PFOS)	0.00020	0.0000020	mg/L	0.0002		99	70-130			
Perfluorooctanoic acid (PFOA)	0.00020	0.0000020	mg/L	0.0002		102	70-130			
Perfluoropentanesulfonic acid (PFPeS)	0.00018	0.0000020	mg/L	0.0002		91	70-130			
Perfluoropentanoic acid (PFPeA)	0.00020	0.0000020	mg/L	0.0002		99	70-130			
Perfluorotetradecanoic acid (PFTeDA)	0.00020	0.0000020	mg/L	0.0002		99	70-130			
Perfluorotridecanoic acid (PFTrDA)	0.00020	0.0000020	mg/L	0.0002		101	70-130			
Perfluoroundecanoic acid (PFUnA)	0.00020	0.0000020	mg/L	0.0002		98	70-130			

Notes and Definitions

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

Legend

Technical Services, Inc.

CHAIN OF CUSTODY RECORD

17631 N. 25th Ave. AZ 85023

office: (602) 324 -6100, FAX: (602) 324-6101

19K0870



CLIENT INFORMATION

Client Name EPCOR Water	Address 8700 N. El Mirage Rd	City El Mirage	State AZ	Zip 85335	Phone: desk: 623.780.3795 cell: 602.826.6415	Fax: Email: clucas@epcor.com
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Project Name Sun City PFAS-2019	Project Number 04-07-099	Contact Cyndi Lucas	P.O. No.	Fax result []	QC Report []	Special Detection Limits []	Email result [XX]
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SAMPLE TYPE CODE		TURN AROUND TIME		Composite	Grab	Sample Type	Compliance	No. of Containers	pH (Lab Use Only)	L-402	CORRECTION MADE BY CLIENT OR COURIER PRIOR TO SAMPLE RECEIPT AT LEGEND <i>JMS 11/8/19</i>	Lab. No.
DW=Drinking Water WW=Waste Water SW=Surface Water GW=Ground Water O=Other	S=Soil/Solid TB=Trip Blank F=Food G=Sludge	[X] Standard 10 - 15 Days [] Other: _____	Laboratory Authorization Required for Rush									
Client's Sample Identification	Date	Time	Sample Location									
SCEPDS001	11/7/19	1025			X	GW	No	2		X		01
SCEPDS002		1015			X	GW	No	2		X		02
SCEPDS003		1035	C1		X	GW	No	2		X		03
SCEPDS008		1340	11/7/19		X	GW	No	2		X		04
TB		1025	001			TB		1				05
TB		1015	002			TB		1				06
TB		1035	003			TB		1				07
TB		1340	008			TB		1				08

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

Comments / Special Instructions:

SAMPLE CONDITION UPON RECEIPT	
Number of Containers	12
Temperature	8.1 ^o C
Custody Seals	Y (N)
Seals Intact	Y N
Preserved	(Y) N

RELINQUISHED BY		SAMPLE RECEIVED BY	
(1) Sampler Signature: <i>Cynthia A. Lucas</i>	Date: 11/7/19	Signature: <i>[Signature]</i>	Date: 11/7/19
Sampler Printed Name: Cynthia A. Lucas	Time: 14:15	Printed Name: <i>[Signature]</i>	Time: 14:15
(2) Signature:	Date: / /	Signature:	Date: / /
Printed Name:	Time: :	Printed Name:	Time: :
(3) Signature:	Date: / /	Signature:	Date: / /
Printed Name:	Time: :	Printed Name:	Time: :



Technical Services, Inc.



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

RECEIVING LABORATORY:

Eurofins Eaton Analytical, Inc.
110 S. Hill Street
South Bend, IN 46617
Phone :(800) 332-4345
Fax: (574) 233-8207

Table with 5 columns: Analysis, Due, Expires, Sample Type, Sample Comments. Contains 8 sample entries (19K0870-01 to 19K0870-08) with details on drinking water analysis, subcontract numbers, and sampling times.

Handwritten signatures and dates: Released By (Print & Sign) 11/7/19 1630, Received By (Print & Sign) 11/7/19 1630