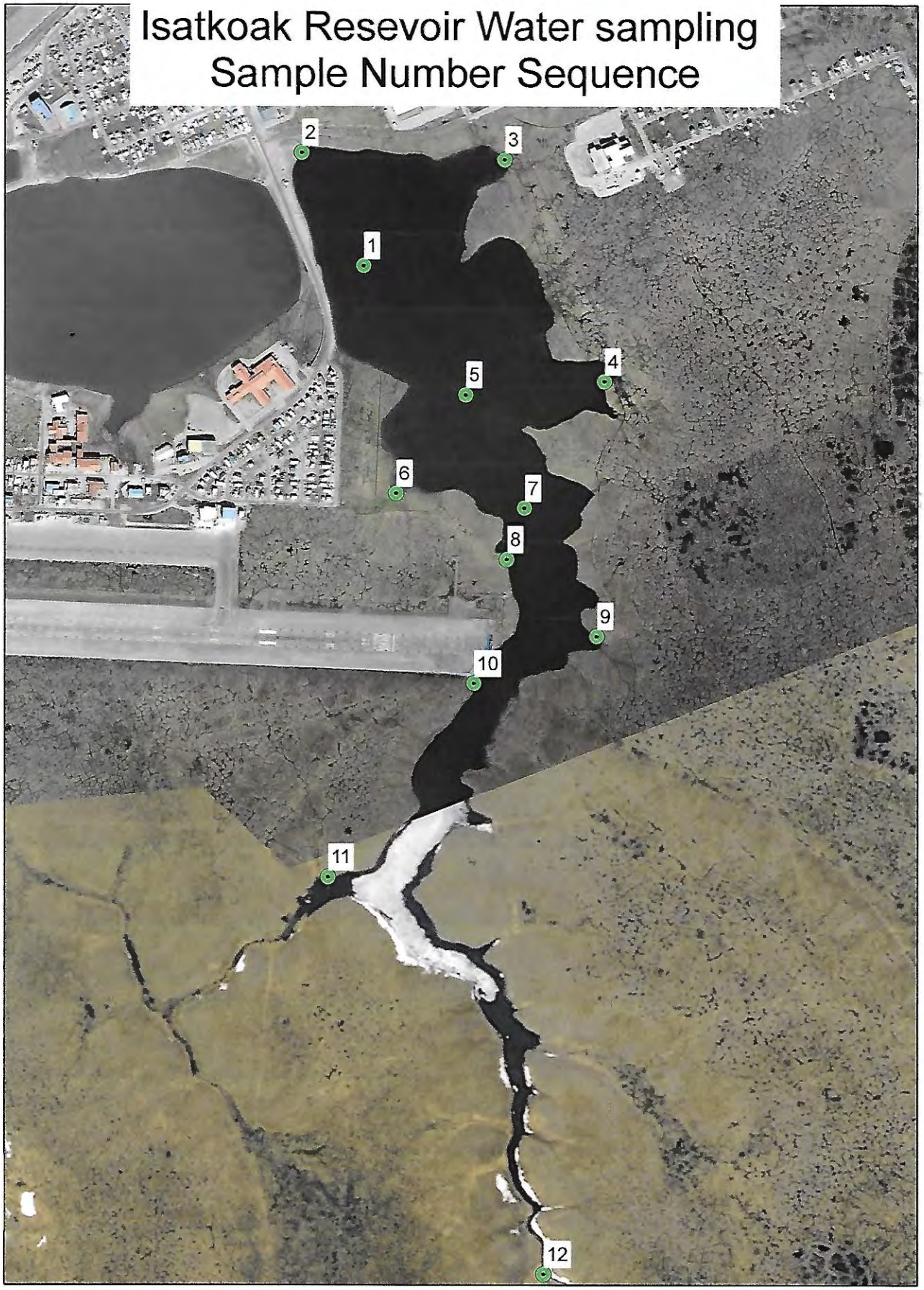
Isatkoak Resevoir Water sampling
Sample Number Sequence



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South Bend, IN 46617
Tel: (574) 233-4777
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Laboratory Report

Client: Pollen Environmental LLC

Attn: Jerry Pollen
3536 International Avenue
Fairbanks, AK 99701

Report: 396793
Priority: Standard Written
Status: Final
PWS ID: AK2320078
Alaska Lab ID # IN00035

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
3767921	PEF36054/Isatkoak Reservoir #1	537	08/24/17 10:22	Client	08/29/17 09:45
3767922	PEF36055/Isatkoak Reservoir #2	537	08/24/17 11:20	Client	08/29/17 09:45
3767923	PEF36056/Isatkoak Reservoir #3	537	08/24/17 11:29	Client	08/29/17 09:45
3767924	PEF36057/Isatkoak Reservoir #4	537	08/24/17 11:40	Client	08/29/17 09:45
3767925	PEF36058/Isatkoak Reservoir #5	537	08/24/17 10:34	Client	08/29/17 09:45
3767926	PEF36059/Isatkoak Reservoir #6	537	08/24/17 12:15	Client	08/29/17 09:45
3767927	PEF36060/Isatkoak Reservoir #7	537	08/24/17 10:45	Client	08/29/17 09:45
3767928	PEF36061/Isatkoak Reservoir #8	537	08/24/17 12:20	Client	08/29/17 09:45
3767929	PEF36062/Isatkoak Reservoir #9	537	08/24/17 11:55	Client	08/29/17 09:45
3767930	PEF36063/Isatkoak Reservoir#10	537	08/24/17 12:30	Client	08/29/17 09:45
3767931	PEF36064/Isatkoak Reservoir#11	537	08/24/17 12:45	Client	08/29/17 09:45
3767932	PEF36065/Isatkoak Reservoir#12	537	08/24/17 12:55	Client	08/29/17 09:45

Report Summary

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Traci Chlebowski at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.

Traci Chlebowski ASM — 09/20/2017

Authorized Signature | Title | Date

Client Name: Pollen Environmental LLC
Report #: 396793

Client Name: Pollen Environmental LLC Report #: 396793

Sampling Point: PEF36054/Isatkoak Reservoir #1 PWS ID: AK2320078

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	2.0	**79**	ng/L	09/05/17 07:18	09/07/17 05:10	3767921
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	**7.4**	ng/L	09/05/17 07:18	09/07/17 05:10	3767921

Sampling Point: PEF36055/Isatkoak Reservoir #2 PWS ID: AK2320078

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	2.0	**79**	ng/L	09/05/17 07:18	09/07/17 06:00	3767922
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	**7.8**	ng/L	09/05/17 07:18	09/07/17 06:00	3767922

Sampling Point: PEF36056/Isatkoak Reservoir #3 PWS ID: AK2320078

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	2.0	**68**	ng/L	09/05/17 07:18	09/07/17 06:17	3767923
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	**7.2**	ng/L	09/05/17 07:18	09/07/17 06:17	3767923

Sampling Point: PEF36057/Isatkoak Reservoir #4 PWS ID: AK2320078

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	2.0	**69**	ng/L	09/05/17 07:18	09/07/17 06:34	3767924
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	**7.5**	ng/L	09/05/17 07:18	09/07/17 06:34	3767924

Sampling Point: PEF36058/Isatkoak Reservoir #5 PWS ID: AK2320078

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	2.0	**91**	ng/L	09/05/17 07:18	09/07/17 05:27	3767925
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	**7.9**	ng/L	09/05/17 07:18	09/07/17 05:27	3767925

Sampling Point: PEF36059/Isatkoak Reservoir #6 PWS ID: AK2320078

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	2.0	**470**	ng/L	09/05/17 07:18	09/07/17 07:59	3767926
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	**17**	ng/L	09/05/17 07:18	09/07/17 07:08	3767926

Sampling Point: PEF36060/Isatkoak Reservoir #7 PWS ID: AK2320078

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	2.0	**92**	ng/L	09/05/17 07:18	09/07/17 05:44	3767927
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	**8.1**	ng/L	09/05/17 07:18	09/07/17 05:44	3767927

Sampling Point: PEF36061/Isatkoak Reservoir #8 PWS ID: AK2320078

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	2.0	**120**	ng/L	09/05/17 07:18	09/07/17 07:24	3767928
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	**8.2**	ng/L	09/05/17 07:18	09/07/17 07:24	3767928

Sampling Point: PEF36062/Isatkoak Reservoir #9 PWS ID: AK2320078

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	2.0	**85**	ng/L	09/05/17 07:18	09/07/17 06:51	3767929
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	**7.1**	ng/L	09/05/17 07:18	09/07/17 06:51	3767929

Sampling Point: PEF36063/Isatkoak Reservoir#10 PWS ID: AK2320078

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	2.0	**1500**	ng/L	09/05/17 07:18	09/07/17 08:16	3767930
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	**44**	ng/L	09/05/17 07:18	09/07/17 07:41	3767930

Client Name: Pollen Environmental LLC Report #: 396793

Sampling Point: PEF36064/Isatkoak Reservoir#11 PWS ID: AK2320078

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	2.0	**77**	ng/L	09/05/17 07:18	09/07/17 08:49	3767931
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	**6.0**	ng/L	09/05/17 07:18	09/07/17 08:49	3767931

Sampling Point: PEF36065/Isatkoak Reservoir#12 PWS ID: AK2320078

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	2.0	**3.6**	ng/L	09/05/17 07:18	09/07/17 09:06	3767932
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	< 2.0	ng/L	09/05/17 07:18	09/07/17 09:06	3767932

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	^	!

Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

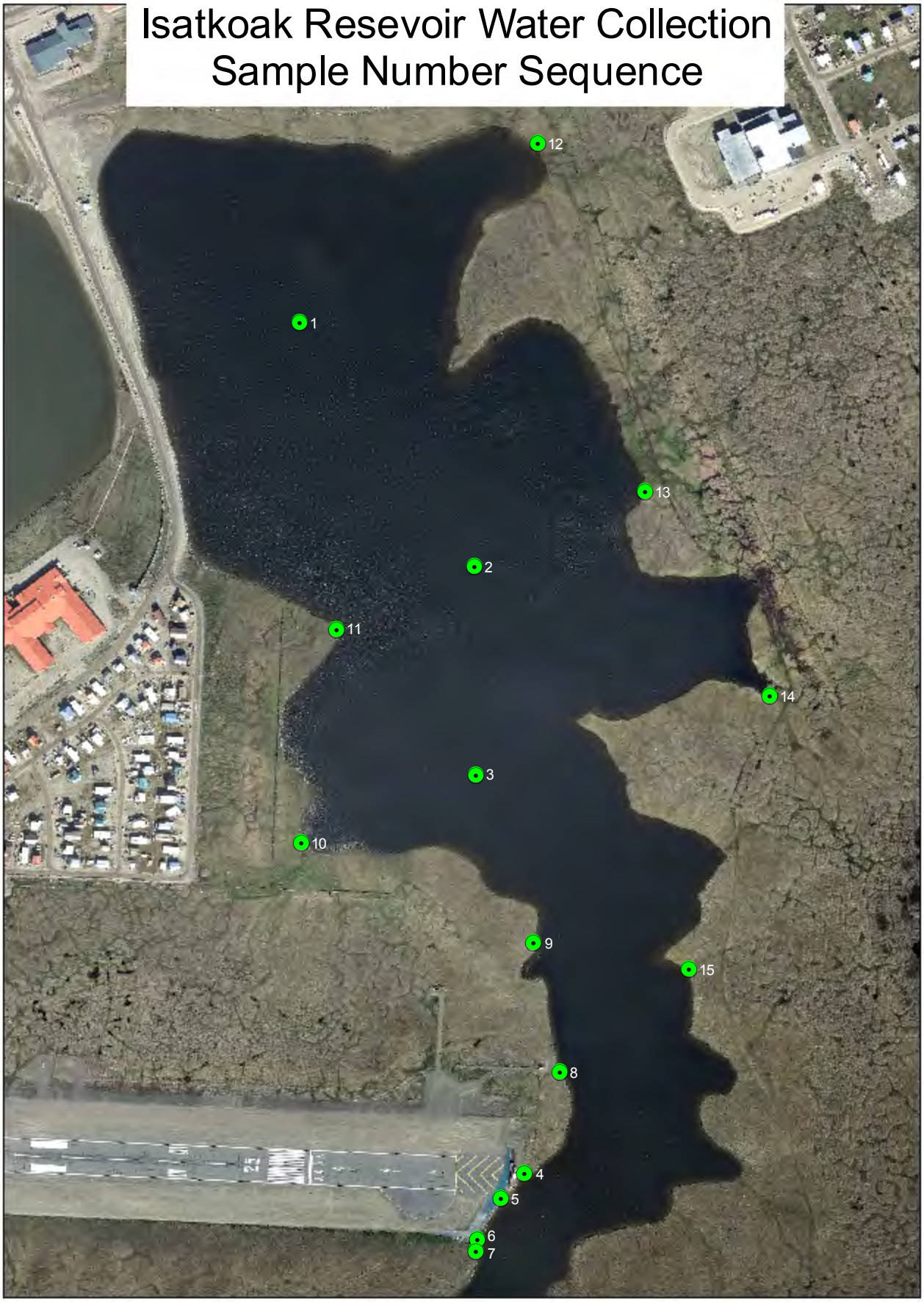
Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

Isatkoak Resevoir Water Collection Sample Number Sequence



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1 800 332 4345

Laboratory Report

Client: Pollen Environmental LLC.

Attn: Jerry Pollen
3536 International Avenue
Fairbanks, AK 99701

Report: 399224
Priority: Rush Written
Status: Final
PWS ID: AK2320078
Alaska Lab ID # IN00035

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
3788867	PEF36738/Reservoir #1	537	09/26/17 10:45	Client	09/29/17 08:30
3788868	PEF36739/Reservoir #2	537	09/26/17 11:02	Client	09/29/17 08:30
3788869	PEF36740/Reservoir #3	537	09/26/17 11:12	Client	09/29/17 08:30
3788870	PEF36741/Reservoir #4	537	09/26/17 13:10	Client	09/29/17 08:30
3788871	PEF36742/Reservoir #5	537	09/26/17 13:15	Client	09/29/17 08:30
3788872	PEF36743/Reservoir #6	537	09/26/17 13:20	Client	09/29/17 08:30
3788873	PEF36744/Reservoir #7	537	09/26/17 13:25	Client	09/29/17 08:30
3788874	PEF36745/Reservoir #8	537	09/26/17 13:35	Client	09/29/17 08:30
3788875	PEF36746/Reservoir #9	537	09/26/17 14:25	Client	09/29/17 08:30
3788876	PEF36747/Reservoir #10	537	09/26/17 14:35	Client	09/29/17 08:30
3788877	PEF36748/Reservoir #11	537	09/26/17 14:45	Client	09/29/17 08:30
3788878	PEF36749/Reservoir #12	537	09/26/17 14:55	Client	09/29/17 08:30
3788879	PEF36750/Reservoir #13	537	09/26/17 15:10	Client	09/29/17 08:30
3788880	PEF36751/Reservoir #14	537	09/26/17 15:15	Client	09/29/17 08:30
3788881	PEF36752/Reservoir #15	537	09/26/17 15:20	Client	09/29/17 08:30
3788882	PEF36753/MGT	537	09/27/17 08:10	Client	09/29/17 08:30
3788883	PEF36754/WTPLSRWST	537	09/27/17 08:10	Client	09/29/17 08:30

Report Summary

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Traci Chlebowski at (574) 233-4777.

Traci Chlebowski ASM — 10/05/2017

Authorized Signature | Title | Date

Client Name: Pollen Environmental LLC.
Report #: 399224

Client Name: Pollen Environmental LLC. Report #: 399224

Sampling Point: PEF36738/Reservoir #1 PWS ID: AK2320078

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	2.0	**61**	ng/L	10/02/17 08:09	10/02/17 23:50	3788867
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	**6.5**	ng/L	10/02/17 08:09	10/02/17 23:50	3788867

Sampling Point: PEF36739/Reservoir #2 PWS ID: AK2320078

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	2.0	**66**	ng/L	10/02/17 08:09	10/03/17 00:07	3788868
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	**6.6**	ng/L	10/02/17 08:09	10/03/17 00:07	3788868

Sampling Point: PEF36740/Reservoir #3 PWS ID: AK2320078

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	2.0	**62**	ng/L	10/02/17 08:09	10/03/17 00:24	3788869
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	**6.3**	ng/L	10/02/17 08:09	10/03/17 00:24	3788869

Sampling Point: PEF36741/Reservoir #4 PWS ID: AK2320078

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	2.0	**66**	ng/L	10/02/17 08:09	10/03/17 00:40	3788870
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	**6.4**	ng/L	10/02/17 08:09	10/03/17 00:40	3788870

Sampling Point: PEF36742/Reservoir #5 PWS ID: AK2320078

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	2.0	**67**	ng/L	10/02/17 08:09	10/03/17 00:57	3788871
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	**6.4**	ng/L	10/02/17 08:09	10/03/17 00:57	3788871

Client Name: Pollen Environmental LLC. Report #: 399224

Sampling Point: PEF36743/Reservoir #6 PWS ID: AK2320078

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	2.0	**6000**	ng/L	10/02/17 08:09	10/03/17 09:27	3788872
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	**170**	ng/L	10/02/17 08:09	10/03/17 01:31	3788872

Sampling Point: PEF36744/Reservoir #7 PWS ID: AK2320078

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	2.0	**79**	ng/L	10/02/17 08:09	10/03/17 01:47	3788873
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	**6.1**	ng/L	10/02/17 08:09	10/03/17 01:47	3788873

Sampling Point: PEF36745/Reservoir #8 PWS ID: AK2320078

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	2.0	**70**	ng/L	10/02/17 08:09	10/03/17 02:04	3788874
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	**6.5**	ng/L	10/02/17 08:09	10/03/17 02:04	3788874

Sampling Point: PEF36746/Reservoir #9 PWS ID: AK2320078

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	2.0	**75**	ng/L	10/02/17 08:09	10/03/17 02:21	3788875
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	**6.4**	ng/L	10/02/17 08:09	10/03/17 02:21	3788875

Sampling Point: PEF36747/Reservoir #10 PWS ID: AK2320078

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	2.0	**74**	ng/L	10/02/17 08:09	10/03/17 02:38	3788876
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	**7.2**	ng/L	10/02/17 08:09	10/03/17 02:38	3788876

Sampling Point: PEF36748/Reservoir #11 PWS ID: AK2320078

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	2.0	**62**	ng/L	10/02/17 08:09	10/03/17 02:55	3788877
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	**6.4**	ng/L	10/02/17 08:09	10/03/17 02:55	3788877

Sampling Point: PEF36749/Reservoir #12 PWS ID: AK2320078

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	2.0	**550**	ng/L	10/02/17 08:09	10/03/17 10:00	3788878
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	**8.7**	ng/L	10/02/17 08:09	10/03/17 03:11	3788878

Sampling Point: PEF36750/Reservoir #13 PWS ID: AK2320078

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	2.0	**210**	ng/L	10/02/17 08:09	10/03/17 03:28	3788879
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	**7.3**	ng/L	10/02/17 08:09	10/03/17 03:28	3788879

Sampling Point: PEF36751/Reservoir #14 PWS ID: AK2320078

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	2.0	**170**	ng/L	10/02/17 08:09	10/03/17 03:45	3788880
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	**6.5**	ng/L	10/02/17 08:09	10/03/17 03:45	3788880

Sampling Point: PEF36752/Reservoir #15 PWS ID: AK2320078

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	2.0	**330**	ng/L	10/03/17 08:05	10/04/17 09:19	3788881
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	**7.7**	ng/L	10/03/17 08:05	10/03/17 21:37	3788881

Client Name: Pollen Environmental LLC. Report #: 399224

Sampling Point: PEF36753/MGT PWS ID: AK2320078

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	2.0	< 2.0	ng/L	10/03/17 08:05	10/03/17 21:54	3788882
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	< 2.0	ng/L	10/03/17 08:05	10/03/17 21:54	3788882

Sampling Point: PEF36754/WTPLSRWST PWS ID: AK2320078

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	2.0	**64**	ng/L	10/03/17 08:05	10/03/17 22:11	3788883
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	**7.0**	ng/L	10/03/17 08:05	10/03/17 22:11	3788883

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	^	!

Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.