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August 5, 2021

Tony S. Singh  
Virginia Department of Health  
109 Governor St  
Richmond, VA 23219

RE: Workorder: J2109963 ARLINGTON COUNTY

Dear Tony Singh:

Enclosed are the analytical results for sample(s) received by the laboratory on Tuesday, July 27, 2021. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Jerry Allen', is positioned above the printed name.

Jerry Allen - Project Manager  
JAllen@aellab.com

Enclosures

Report ID: 1072642 - 1250738

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### SAMPLE SUMMARY

Workorder: J2109963 ARLINGTON COUNTY

Lab ID	Sample ID	Matrix	Date Collected	Date Received
J2109963001	EP001	Drinking Water	7/26/2021 09:00	7/27/2021 09:15
J2109963002	FRB	Drinking Water	7/26/2021 09:05	7/27/2021 09:15

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### ANALYTICAL RESULTS

Workorder: J2109963 ARLINGTON COUNTY

Lab ID: **J2109963001** Date Received: 07/27/21 09:15 Matrix: Drinking Water  
 Sample ID: **EP001** Date Collected: 07/26/21 09:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: E533 Analysis, Water		Preparation Method: EPA 533						
		Analytical Method: EPA 533						
11CI-PF3OUdS	0.90	U	ng/L	1	3.6	0.90	8/4/2021 21:26	J
PFDoA	0.90	U	ng/L	1	3.6	0.90	8/4/2021 21:26	J
PFUnA	0.90	U	ng/L	1	3.6	0.90	8/4/2021 21:26	J
HFPO-DA	0.91	U	ng/L	1	3.7	0.91	8/2/2021 23:09	J
NFDHA	0.91	U	ng/L	1	3.7	0.91	8/2/2021 23:09	J
9CI-PF3ONS	0.91	U	ng/L	1	3.7	0.91	8/3/2021 22:55	J
ADONA	0.91	U	ng/L	1	3.7	0.91	8/3/2021 22:55	J
4:2 FTS	0.91	U	ng/L	1	3.7	0.91	8/3/2021 22:55	J
6:2 FTS	0.91	U	ng/L	1	3.7	0.91	8/3/2021 22:55	J
8:2 FTS	0.91	U	ng/L	1	3.7	0.91	8/3/2021 22:55	J
PFBS	2.0	I	ng/L	1	3.7	0.91	8/3/2021 22:55	J
PFBA	0.91	U	ng/L	1	3.7	0.91	8/3/2021 22:55	J
PFDA	0.91	U	ng/L	1	3.7	0.91	8/3/2021 22:55	J
PFHpS	0.91	U	ng/L	1	3.7	0.91	8/3/2021 22:55	J
PFHpA	1.1	I	ng/L	1	3.7	0.91	8/3/2021 22:55	J
PFHxS	1.6	I	ng/L	1	3.7	0.91	8/3/2021 22:55	J
PFHxA	3.7		ng/L	1	3.7	0.91	8/3/2021 22:55	J
PFMBA	0.91	U	ng/L	1	3.7	0.91	8/3/2021 22:55	J
PFMPA	0.91	U	ng/L	1	3.7	0.91	8/3/2021 22:55	J
PFNA	0.91	U	ng/L	1	3.7	0.91	8/3/2021 22:55	J
PFOS	1.6	I	ng/L	1	3.7	0.91	8/3/2021 22:55	J
PFOA	2.2	I	ng/L	1	3.7	0.91	8/3/2021 22:55	J
PFPeS	0.91	U	ng/L	1	3.7	0.91	8/3/2021 22:55	J
PFPeA	4.1		ng/L	1	3.7	0.91	8/3/2021 22:55	J
PFEESA	0.91	U	ng/L	1	3.7	0.91	8/3/2021 22:55	J
PFOA & PFOS (Total)	3.9	I	ng/L	1	7.3	1.8	8/3/2021 22:55	J^
13C4-PFBA (S)	97.65		%	1	50-150		8/3/2021 22:55	
13C5-PFPEA (S)	83.56		%	1	50-150		8/3/2021 22:55	
13C3-PFBS (S)	117.5		%	1	50-150		8/3/2021 22:55	
13C2-4:2FTS (S)	107		%	1	50-150		8/3/2021 22:55	
13C5-PFHXA (S)	108.3		%	1	50-150		8/3/2021 22:55	
13C4-PFHXA (S)	107.5		%	1	50-150		8/3/2021 22:55	
13C3-PFHXS (S)	109.7		%	1	50-150		8/3/2021 22:55	
13C2-6:2FTS (S)	108.2		%	1	50-150		8/3/2021 22:55	
13C8-PFOA (S)	105.9		%	1	50-150		8/3/2021 22:55	
13C9-PFNA (S)	94.88		%	1	50-150		8/3/2021 22:55	

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### ANALYTICAL RESULTS

Workorder: J2109963 ARLINGTON COUNTY

Lab ID: **J2109963001**  
 Sample ID: **EP001**

Date Received: 07/27/21 09:15 Matrix: Drinking Water  
 Date Collected: 07/26/21 09:00

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
13C8-PFOS (S)	101.1		%	1	50-150		8/3/2021 22:55	
13C2-8:2FTS (S)	77.4		%	1	50-150		8/3/2021 22:55	
13C6-PFDA (S)	74.13		%	1	50-150		8/3/2021 22:55	
13C7-PFUNA (S)	90.9		%	1	50-150		8/4/2021 21:26	
13C3-HFPO-DA (S)	123.8		%	1	50-150		8/2/2021 23:09	
13C2-PFDOA (S)	84.47		%	1	50-150		8/4/2021 21:26	
D3-NMEFOSAA (S)	54.84		%	1	-		8/3/2021 22:55	
D5-NETFOSAA (S)	51.72		%	1	-		8/3/2021 22:55	

Lab ID: **J2109963002**  
 Sample ID: **FRB**

Date Received: 07/27/21 09:15 Matrix: Drinking Water  
 Date Collected: 07/26/21 09:05

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
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Analysis Desc: E533 Analysis, Water

Preparation Method: EPA 533

Analytical Method: EPA 533

HFPO-DA	0.92	U	ng/L	1	3.7	0.92	8/2/2021 23:39	J
NFDHA	0.92	U	ng/L	1	3.7	0.92	8/2/2021 23:39	J
9CI-PF3ONS	0.92	U	ng/L	1	3.7	0.92	8/3/2021 23:25	J
ADONA	0.92	U	ng/L	1	3.7	0.92	8/3/2021 23:25	J
4:2 FTS	0.92	U	ng/L	1	3.7	0.92	8/3/2021 23:25	J
6:2 FTS	0.92	U	ng/L	1	3.7	0.92	8/3/2021 23:25	J
8:2 FTS	0.92	U	ng/L	1	3.7	0.92	8/3/2021 23:25	J
PFBS	0.92	U	ng/L	1	3.7	0.92	8/3/2021 23:25	J
PFBA	0.92	U	ng/L	1	3.7	0.92	8/3/2021 23:25	J
PFDA	0.92	U	ng/L	1	3.7	0.92	8/3/2021 23:25	J
PFDoA	0.92	U	ng/L	1	3.7	0.92	8/3/2021 23:25	J
PFHpS	0.92	U	ng/L	1	3.7	0.92	8/3/2021 23:25	J
PFHpA	0.92	U	ng/L	1	3.7	0.92	8/3/2021 23:25	J
PFHxS	0.92	U	ng/L	1	3.7	0.92	8/3/2021 23:25	J
PFHxA	0.92	U	ng/L	1	3.7	0.92	8/3/2021 23:25	J
PFMBA	0.92	U	ng/L	1	3.7	0.92	8/3/2021 23:25	J
PFMPA	0.92	U	ng/L	1	3.7	0.92	8/3/2021 23:25	J
PFNA	0.92	U	ng/L	1	3.7	0.92	8/3/2021 23:25	J
PFOS	0.92	U	ng/L	1	3.7	0.92	8/3/2021 23:25	J

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**ANALYTICAL RESULTS**

Workorder: J2109963 ARLINGTON COUNTY

Lab ID: **J2109963002**  
 Sample ID: **FRB**

Date Received: 07/27/21 09:15 Matrix: Drinking Water  
 Date Collected: 07/26/21 09:05

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
PFOA	0.92	U	ng/L	1	3.7	0.92	8/3/2021 23:25	J
PFPeS	0.92	U	ng/L	1	3.7	0.92	8/3/2021 23:25	J
PFPeA	0.92	U	ng/L	1	3.7	0.92	8/3/2021 23:25	J
PFUnA	0.92	U	ng/L	1	3.7	0.92	8/3/2021 23:25	J
PFEESA	0.92	U	ng/L	1	3.7	0.92	8/3/2021 23:25	J
PFOA & PFOS (Total)	1.8	U	ng/L	1	7.3	1.8	8/3/2021 23:25	J^
11Cl-PF3OUdS	0.89	U	ng/L	1	3.6	0.89	8/4/2021 21:55	J
13C4-PFBA (S)	100.3		%	1	50-150		8/3/2021 23:25	
13C5-PFPEA (S)	96.81		%	1	50-150		8/3/2021 23:25	
13C3-PFBS (S)	99.67		%	1	50-150		8/3/2021 23:25	
13C2-4:2FTS (S)	94.52		%	1	50-150		8/3/2021 23:25	
13C5-PFHXA (S)	99.23		%	1	50-150		8/3/2021 23:25	
13C4-PFHPA (S)	96.83		%	1	50-150		8/3/2021 23:25	
13C3-PFHXS (S)	101.6		%	1	50-150		8/3/2021 23:25	
13C2-6:2FTS (S)	95.18		%	1	50-150		8/3/2021 23:25	
13C8-PFOA (S)	99.9		%	1	50-150		8/3/2021 23:25	
13C9-PFNA (S)	95.87		%	1	50-150		8/3/2021 23:25	
13C8-PFOS (S)	96.08		%	1	50-150		8/3/2021 23:25	
13C2-8:2FTS (S)	85.31		%	1	50-150		8/3/2021 23:25	
13C6-PFDA (S)	86.68		%	1	50-150		8/3/2021 23:25	
13C7-PFUNA (S)	78.42		%	1	50-150		8/3/2021 23:25	
13C3-HFPO-DA (S)	106.4		%	1	50-150		8/2/2021 23:39	
13C2-PFDOA (S)	61.13		%	1	50-150		8/3/2021 23:25	
D3-NMEFOSAA (S)	76.92		%	1	-		8/3/2021 23:25	
D5-NETFOSAA (S)	82.1		%	1	-		8/3/2021 23:25	

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## ANALYTICAL RESULTS QUALIFIERS

Workorder: J2109963 ARLINGTON COUNTY

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### PARAMETER QUALIFIERS

- U The compound was analyzed for but not detected.
- I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

### LAB QUALIFIERS

- J DOH Certification #E82574(AEL-JAX)(FL NELAC Certification)
- J^ Not Certified

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### QUALITY CONTROL DATA

Workorder: J2109963 ARLINGTON COUNTY

QC Batch: EXTj/2225 Analysis Method: EPA 533  
QC Batch Method: EPA 533 Prepared: 07/30/2021 11:30  
Associated Lab Samples: J2109963001, J2109963002

METHOD BLANK: 3973416

Parameter	Units	Blank Result	Reporting
			Limit Qualifiers
9CI-PF3ONS	ng/L	1.0	1.0 U
ADONA	ng/L	1.0	1.0 U
4:2 FTS	ng/L	1.0	1.0 U
6:2 FTS	ng/L	1.0	1.0 U
8:2 FTS	ng/L	1.0	1.0 U
PFBS	ng/L	1.0	1.0 U
PFBA	ng/L	1.0	1.0 U
PFDA	ng/L	1.0	1.0 U
PFDoA	ng/L	1.0	1.0 U
PFHpS	ng/L	1.0	1.0 U
PFHpA	ng/L	1.0	1.0 U
PFHxS	ng/L	1.0	1.0 U
PFHxA	ng/L	1.0	1.0 U
PFMBA	ng/L	1.0	1.0 U
PFMPA	ng/L	1.0	1.0 U
PFNA	ng/L	1.0	1.0 U
PFOS	ng/L	1.0	1.0 U
PFOA	ng/L	1.0	1.0 U
PFPeS	ng/L	1.0	1.0 U
PFPeA	ng/L	1.0	1.0 U
PFUnA	ng/L	1.0	1.0 U
PFEESA	ng/L	1.0	1.0 U
PFOA & PFOS (Total)	ng/L	2.0	2.0 U
13C4-PFBA (S)	%	94.88	50-150
13C5-PFPEA (S)	%	92.17	50-150
13C3-PFBS (S)	%	100.5	50-150
13C2-4:2FTS (S)	%	92.6	50-150
13C5-PFHXA (S)	%	95.76	50-150
13C4-PFHPA (S)	%	94.67	50-150
13C3-PFHXS (S)	%	100.2	50-150
13C2-6:2FTS (S)	%	92.59	50-150
13C8-PFOA (S)	%	96.29	50-150
13C9-PFNA (S)	%	93.16	50-150
13C8-PFOS (S)	%	89.64	50-150
13C2-8:2FTS (S)	%	85.29	50-150
13C6-PFDA (S)	%	86.25	50-150
13C7-PFUNA (S)	%	75.33	50-150
13C2-PFDOA (S)	%	62.14	50-150
D3-NMEFOSAA (S)	%	79.24	-
D5-NETFOSAA (S)	%	76.78	-

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**QUALITY CONTROL DATA**

Workorder: J2109963 ARLINGTON COUNTY

METHOD BLANK: 3973416

Parameter	Units	Blank Result	Reporting Limit Qualifiers
HFPO-DA	ng/L	1.0	1.0 U
NFDHA	ng/L	1.0	1.0 U
13C3-HFPO-DA (S)	%	102.4	50-150

LABORATORY CONTROL SAMPLE & LCSD: 3973417 3973418

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD Qualifiers
9CI-PF3ONS	ng/L	4	3.2	3.5	79.13	88.68	70-130	11.38	20
ADONA	ng/L	4	3.4	3.5	84.17	86.88	70-130	3.169	20
4:2 FTS	ng/L	4	3.3	3.5	81.73	87.39	70-130	6.693	20
6:2 FTS	ng/L	4	3.4	3.5	85.36	87.88	70-130	2.909	20
8:2 FTS	ng/L	4	3.4	3.4	84.07	83.91	70-130	0.1905	20
PFBS	ng/L	4	3.1	3.2	78.29	81.21	70-130	3.661	20
PFBA	ng/L	4	3.3	3.5	82.34	87.82	70-130	6.441	20
PFDA	ng/L	4	3.5	3.7	87.21	91.53	70-130	4.834	20
PFDaA	ng/L	4	3.4	3.7	86.21	91.29	70-130	5.724	20
PFHpS	ng/L	4	3.5	4.0	87.44	99.23	70-130	12.63	20
PFHpA	ng/L	4	3.6	3.7	90.64	92.66	70-130	2.204	20
PFHxS	ng/L	4	3.3	3.5	82.62	87.39	70-130	5.611	20
PFHxA	ng/L	4	3.5	3.9	88.48	96.38	70-130	8.547	20
PFMBA	ng/L	4	3.5	3.7	87.23	92.03	70-130	5.355	20
PFMPA	ng/L	4	3.4	3.6	83.96	89	70-130	5.828	20
PFNA	ng/L	4	3.7	3.8	91.52	94.34	70-130	3.035	20
PFOS	ng/L	4	3.3	3.6	82.78	89.33	70-130	7.611	20
PFOA	ng/L	4	3.7	3.8	91.48	94.55	70-130	3.301	20
PFPeS	ng/L	4	3.3	3.6	81.91	89.21	70-130	8.532	20
PFPeA	ng/L	4	3.5	3.8	87.04	94.59	70-130	8.314	20
PFUnA	ng/L	4	3.5	3.7	88.46	92.79	70-130	4.778	20
PFEESA	ng/L	4	3.1	3.3	78.34	83.26	70-130	6.089	20
PFOA & PFOS (Total)	ng/L	8	7.0	7.4	87.13	91.94	70-130	5.372	20
13C4-PFBA (S)	%				106.6	102.1	50-150	4.292	
13C5-PFPEA (S)	%				103.2	97.91	50-150	5.29	
13C3-PFBS (S)	%				109.4	105.2	50-150	3.953	
13C2-4:2FTS (S)	%				106.2	101.2	50-150	4.752	
13C5-PFHXA (S)	%				105.7	101.2	50-150	4.331	
13C4-PFHPA (S)	%				103	101	50-150	1.981	
13C3-PFHXS (S)	%				108.8	101.2	50-150	7.245	
13C2-6:2FTS (S)	%				106.1	101.8	50-150	4.121	
13C8-PFOA (S)	%				108.4	102.5	50-150	5.595	
13C9-PFNA (S)	%				101	95.79	50-150	5.265	
13C8-PFOS (S)	%				106.6	95.51	50-150	10.96	

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**QUALITY CONTROL DATA**

Workorder: J2109963 ARLINGTON COUNTY

LABORATORY CONTROL SAMPLE & LCSD: 3973417 3973418

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
13C2-8:2FTS (S)	%				95.88	89.72	50-150	6.647		
13C6-PFDA (S)	%				97.71	87.63	50-150	10.88		
13C7-PFUNA (S)	%				86.42	73.12	50-150	16.67		
13C2-PFDOA (S)	%				69.62	55.55	50-150	22.48		
D3-NMEFOSAA (S)	%				86.1	81.5		5.489		
D5-NETFOSAA (S)	%				87.6	78.34		11.16		

LABORATORY CONTROL SAMPLE & LCSD: 3973417 3973418

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
HFPO-DA	ng/L	4	3.6	3.71	90.13	93.46	70-130	3.628	20	
NFDHA	ng/L	4	3.8	3.61	94	90.67	70-130	3.606	20	
13C3-HFPO-DA (S)	%				109.9	106.9	50-150	2.731		

QC Batch: EXTj/2260

Analysis Method: EPA 533

QC Batch Method: EPA 533

Prepared: 08/04/2021 10:45

Associated Lab Samples: J2109963001, J2109963002

METHOD BLANK: 3980226

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
11Cl-PF3OUdS	ng/L	1.0	1.0	U
PFDoA	ng/L	1.0	1.0	U
PFUnA	ng/L	1.0	1.0	U
13C4-PFBA (S)	%	97.53	50-150	
13C5-PFPEA (S)	%	98.1	50-150	
13C3-PFBS (S)	%	101	50-150	
13C2-4:2FTS (S)	%	96.62	50-150	
13C5-PFHXA (S)	%	96.49	50-150	
13C4-PFHPA (S)	%	99.32	50-150	
13C3-PFHXS (S)	%	103.1	50-150	
13C2-6:2FTS (S)	%	98.31	50-150	
13C8-PFOA (S)	%	99.83	50-150	
13C9-PFNA (S)	%	96.28	50-150	
13C8-PFOS (S)	%	104.8	50-150	
13C2-8:2FTS (S)	%	94.72	50-150	
13C6-PFDA (S)	%	98.85	50-150	
13C7-PFUNA (S)	%	100.1	50-150	
13C2-PFDOA (S)	%	96	50-150	

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**QUALITY CONTROL DATA**

Workorder: J2109963 ARLINGTON COUNTY

METHOD BLANK: 3980226

Parameter	Units	Blank Result	Reporting Limit Qualifiers
D3-NMEFOSAA (S)	%	89.16	-
D5-NETFOSAA (S)	%	101.8	-
13C8-FOSA (S)	%	81.9	50-150

LABORATORY CONTROL SAMPLE & LCSD: 3980227 3980228

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD Qualifiers
11Cl-PF3OUdS	ng/L	20	21	21	104.5	103.5	70-130	1.019	20
PFDoA	ng/L	20	22	21	111.6	106.4	70-130	4.74	20
PFUnA	ng/L	20	23	23	116	112.6	70-130	2.954	20
13C4-PFBA (S)	%				99.72	104.2	50-150	4.346	
13C5-PFPEA (S)	%				100.2	103.7	50-150	3.404	
13C3-PFBS (S)	%				102.2	105.2	50-150	2.96	
13C2-4:2FTS (S)	%				105.3	113.4	50-150	7.423	
13C5-PFHXA (S)	%				95.13	105.7	50-150	10.55	
13C4-PFHPA (S)	%				93.35	102.5	50-150	9.373	
13C3-PFHXS (S)	%				100.3	108.8	50-150	8.217	
13C2-6:2FTS (S)	%				109.4	115.5	50-150	5.47	
13C8-PFOA (S)	%				95.4	106.7	50-150	11.19	
13C9-PFNA (S)	%				96.02	106.5	50-150	10.37	
13C8-PFOS (S)	%				101.6	109.6	50-150	7.5	
13C2-8:2FTS (S)	%				105.1	113.1	50-150	7.348	
13C6-PFDA (S)	%				93.26	100.9	50-150	7.909	
13C7-PFUNA (S)	%				94.34	99.41	50-150	5.234	
13C2-PFDOA (S)	%				95.39	104.2	50-150	8.857	
D3-NMEFOSAA (S)	%				88.18	105.9		18.26	
D5-NETFOSAA (S)	%				104.2	107		2.651	
13C8-FOSA (S)	%				79.66	91.98	50-150	14.36	

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J2109963 ARLINGTON COUNTY

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J2109963001	EP001	EPA 533	EXTj/2225	EPA 533	HPLj/1205
J2109963002	FRB	EPA 533	EXTj/2225	EPA 533	HPLj/1205
J2109963001	EP001	EPA 533	EXTj/2260	EPA 533	HPLj/1210
J2109963002	FRB	EPA 533	EXTj/2260	EPA 533	HPLj/1210

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Client: Virginia Dept of Health

Project name: Arlington County

Date/Time Rcvd: 7-27-2021 9:15

Log-In request number: JZ109963

Received by: JB

Completed by: BA

Cooler/Shipping Information:

Courier: [ ] AEL [ ] Client [ ] UPS [ ] Blue Streak [x] FedEx [ ] AES [ ] ASAP [ ] Other (describe):

Type: [x] Cooler [ ] Box [ ] Other (describe):

Cooler temperature: Identify the cooler and document the temperature blank or ice water measurement

Table with 6 columns for Cooler ID, Temp (°C), and Temp taken from/Temp measured with (Sample Bottle, Cooler, IR gun S/N, Thermometer).

Other Information:

Any discrepancies should be explained in the "Comments" section below.

CHECKLIST table with 20 rows of questions and columns for YES, NO, NA.

Comments: (Note all sample(s) and container (s)) with a "No" checklist response in this comment section)