

**EMSL Analytical, Inc.**

200 Route 130, Cinnaminson, NJ, 08077
 Telephone: 856-858-4800 Fax:856-786-5974
 EMSL-CIN-01

EMSL Order ID: 012359805
LIMS Reference ID: AB59805
EMSL Customer ID: LEBL75

Attention: Robert Fouts

 Le Bleu Enterprises
 621 N Regional Road
 Greensboro, NC 27409

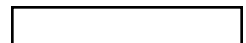
Project Name: Le Bleu PFAS Test

Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 08/14/2023 12:30
Reported: 08/17/2023 17:34

Sample Results

Sample: 1
AB59805-01 (Drinking Water)

Analyte	Result	Q	DF	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
LC/MS											
HT5											
Perfluorobutanesulfonic acid (PFBS)	ND		1	0.000631	0.00196	µg/L	08/16/23 05:45	08/16/23 10:22	RG/AJC	EPA 537.1	EPA 537.1
Perfluorohexanoic acid (PFHxA)	ND		1	0.000708	0.00196	µg/L	08/16/23 05:45	08/16/23 10:22	RG/AJC	EPA 537.1	EPA 537.1
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND		1	0.000733	0.00196	µg/L	08/16/23 05:45	08/16/23 10:22	RG/AJC	EPA 537.1	EPA 537.1
Perfluoroheptanoic acid (PFHpA)	ND		1	0.000792	0.00196	µg/L	08/16/23 05:45	08/16/23 10:22	RG/AJC	EPA 537.1	EPA 537.1
Perfluorohexanesulfonic acid (PFHxS)	ND		1	0.000633	0.00196	µg/L	08/16/23 05:45	08/16/23 10:22	RG/AJC	EPA 537.1	EPA 537.1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND		1	0.000799	0.00196	µg/L	08/16/23 05:45	08/16/23 10:22	RG/AJC	EPA 537.1	EPA 537.1
Perfluorooctanoic acid (PFOA)	ND		1	0.000726	0.00196	µg/L	08/16/23 05:45	08/16/23 10:22	RG/AJC	EPA 537.1	EPA 537.1
Perfluorononanoic acid (PFNA)	ND		1	0.000724	0.00196	µg/L	08/16/23 05:45	08/16/23 10:22	RG/AJC	EPA 537.1	EPA 537.1
Perfluorooctanesulfonic acid (PFOS)	ND		1	0.000583	0.00196	µg/L	08/16/23 05:45	08/16/23 10:22	RG/AJC	EPA 537.1	EPA 537.1
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid	ND		1	0.000513	0.00196	µg/L	08/16/23 05:45	08/16/23 10:22	RG/AJC	EPA 537.1	EPA 537.1
Perfluorodecanoic acid (PFDA)	ND		1	0.000750	0.00196	µg/L	08/16/23 05:45	08/16/23 10:22	RG/AJC	EPA 537.1	EPA 537.1
Perfluoroundecanoic acid (PFUnA)	ND		1	0.000719	0.00196	µg/L	08/16/23 05:45	08/16/23 10:22	RG/AJC	EPA 537.1	EPA 537.1
N-methyl perfluorooctanesulfonamidoacetic acid	ND		1	0.000722	0.00196	µg/L	08/16/23 05:45	08/16/23 10:22	RG/AJC	EPA 537.1	EPA 537.1
N-ethyl perfluorooctanesulfonamidoacetic acid	ND		1	0.000761	0.00196	µg/L	08/16/23 05:45	08/16/23 10:22	RG/AJC	EPA 537.1	EPA 537.1
11-chloroeicosfluoro-3-oxaundecane-1-sulfonic acid	ND		1	0.000698	0.00196	µg/L	08/16/23 05:45	08/16/23 10:22	RG/AJC	EPA 537.1	EPA 537.1
Perfluorododecanoic acid (PFDoA)	ND		1	0.00118	0.00196	µg/L	08/16/23 05:45	08/16/23 10:22	RG/AJC	EPA 537.1	EPA 537.1
Perfluorotridecanoic acid (PFTrDA)	ND		1	0.00135	0.00196	µg/L	08/16/23 05:45	08/16/23 10:22	RG/AJC	EPA 537.1	EPA 537.1
Perfluorotetradecanoic acid (PFTDA)	ND		1	0.00135	0.00196	µg/L	08/16/23 05:45	08/16/23 10:22	RG/AJC	EPA 537.1	EPA 537.1





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Quality Control

LC/MS

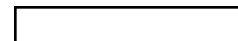
Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BBH0323 - EPA 537.1

Blank (BBH0323-BLK1)

Prepared & Analyzed: 8/16/2023

Perfluorobutanesulfonic acid (PFBS)	ND	0.00200	µg/L						
Perfluorohexanoic acid (PFHxA)	ND	0.00200	µg/L						
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.00200	µg/L						
Perfluoroheptanoic acid (PFHpA)	ND	0.00200	µg/L						
Perfluorohexanesulfonic acid (PFHxS)	ND	0.00200	µg/L						
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00200	µg/L						
Perfluorooctanoic acid (PFOA)	ND	0.00200	µg/L						
Perfluorononanoic acid (PFNA)	ND	0.00200	µg/L						
Perfluorooctanesulfonic acid (PFOS)	ND	0.00200	µg/L						
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid	ND	0.00200	µg/L						
Perfluorodecanoic acid (PFDA)	ND	0.00200	µg/L						
Perfluoroundecanoic acid (PFUnA)	ND	0.00200	µg/L						
N-methyl perfluorooctanesulfonamidoacetic acid	ND	0.00200	µg/L						
N-ethyl perfluorooctanesulfonamidoacetic acid	ND	0.00200	µg/L						
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND	0.00200	µg/L						
Perfluorododecanoic acid (PFDoA)	ND	0.00200	µg/L						
Perfluorotridecanoic acid (PFTriDA)	ND	0.00200	µg/L						
Perfluorotetradecanoic acid (PFTDA)	ND	0.00200	µg/L						



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**Quality Control
(Continued)****LC/MS (Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate(s)									
Surrogate: 13C3-HFPO-DA				0.04000			70-130		
Surrogate: 13C2-PFHxA				0.04000			70-130		
Surrogate: 13C2-PFDA				0.04000			70-130		
Surrogate: d5-NEtFOSAA				0.1600			70-130		
Duplicate (BBH0323-DUP1)									
Source: AB59805-01									
Prepared & Analyzed: 8/16/2023									
Perfluorobutanesulfonic acid (PFBS)	ND	0.00198	µg/L		ND				30
Perfluorohexanoic acid (PFHxA)	ND	0.00198	µg/L		ND				30
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.00198	µg/L		ND				30
Perfluoroheptanoic acid (PFHpA)	ND	0.00198	µg/L		ND				30
Perfluorohexanesulfonic acid (PFHxS)	ND	0.00198	µg/L		ND				30
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00198	µg/L		ND				30
Perfluorooctanoic acid (PFOA)	ND	0.00198	µg/L		ND				30
Perfluorononanoic acid (PFNA)	ND	0.00198	µg/L		ND	98			30
Perfluorooctanesulfonic acid (PFOS)	ND	0.00198	µg/L		ND	98			30
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid	ND	0.00198	µg/L		ND	105			30
						96			
Perfluorodecanoic acid (PFDA)	ND	0.00198	µg/L		ND				30
Perfluoroundecanoic acid (PFUnA)	ND	0.00198	µg/L		ND				30
N-methylperfluorooctanesulfonamidoacetic acid	ND	0.00198	µg/L		ND				30
N-ethylperfluorooctanesulfonamidoacetic acid	ND	0.00198	µg/L		ND				30
11-chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	ND	0.00198	µg/L		ND				30
Perfluorododecanoic acid (PFDoA)	ND	0.00198	µg/L		ND				30
Perfluorotridecanoic acid (PFTTrDA)	ND	0.00198	µg/L		ND				30
Perfluorotetradecanoic acid (PFTDA)	ND	0.00198	µg/L		ND				30

ESSENTIAL ELEMENTS AND HEAVY METALS (CONT'D)

Parameter	MCL (mg/L)	MRL (mg/L)	Result (mg/L)
Sodium	50	0.1	nd
Sulfur		0.5	nd
Thorium		0.05	nd
Tin		0.1	nd
Titanium		0.01	nd
Uranium		0.02	nd
Zinc		0.01	nd

INORGANICS

Parameter	MCL (mg/L)	MRL (mg/L)	Result (mg/L)
Alkalinity		0.25	80
Ammonia		0.2	nd
Carbonate		N/A	nd
Bromide		0.1	nd
Chloride	150	0.200	nd
Color (units in CU)	15	1	1
Conductivity (units in μ mhos)		N/A	1
Corrosivity, Langelier Saturation Index		N/A	-1.48
Fluoride		0.2	nd
Total Hardness (CaCO ₃)	100	0.25	nd
Total Hardness (Grains)		N/A	nd
Nitrate	0.9	0.3	nd
Nitrite	0.8	0.2	nd
pH	6.5-8.5	N/A	6.72
Salinity		N/A	nd
Sulfate		0.5	nd
Tannins		0.5	nd
Total Dissolved Solids (TDS)	12	10	nd
Turbidity (units in NTU)		0.1	nd

VOLATILE ORGANIC COMPOUNDS (VOC)

Parameter	MCL (μ g/L)	MRL (μ g/L)	Result (μ g/L)
¹ Chloroform (THM)		0.50	nd
¹ Bromodichloromethane (THM)		0.50	nd
¹ Dibromochloromethane (THM)		0.50	nd
¹ Bromoform (THM)		0.50	nd
¹ Total Trihalomethanes (THM)		N/A	nd

VOLATILE ORGANIC COMPOUNDS (VOC) (CONT'D)

Parameter	MCL (µg/L)	MRL (µg/L)	Result (µg/L)
Acetone		0.50	nd
Acrylonitrile		0.50	nd
Allyl Chloride		0.50	nd
2-Butanone		0.50	nd
Carbon Disulfide		0.50	nd
Chloroacetonitrile		0.50	nd
Trans-1,2-Dichloroethene		0.50	nd
1,1-Dichloropropanone		0.50	nd
Diethyl Ether		0.50	nd
Ethyl Methacrylate		0.50	nd
Hexachloroethane		0.50	nd
2-Hexanone		0.50	nd
Methacrylonitrile		0.50	nd
Methylacrylate		0.50	nd
Methyl iodide		0.50	nd
Methylmethacrylate		0.50	nd
4-Methyl-2-Pentanone		0.50	nd
Nitrobenzene		0.50	nd
2-Nitropropane		0.50	nd
Pentachloroethane		0.50	nd
Propionitrile		0.50	nd
Tetrahydrofuran		0.50	nd
1-Chlorobutane		0.50	nd
Chloromethane		0.50	nd
Vinyl Chloride		0.50	nd
Dichlorofluoromethane		0.50	nd
Chloroethane		0.50	nd
Trichlorofluoromethane		0.50	nd
Bromomethane		0.50	nd
1,1 Dichloroethane		0.50	nd
1,1 Dichloroethene		0.50	nd
Methylene Chloride		0.50	nd
trans-1,2-Dichloroethene		0.50	nd
2,2 Dichloropropane		0.50	nd
cis-1,2 Dichloroethene		0.50	nd
1,1 Dichloropropene		0.50	nd
Bromochloromethane		0.50	nd
1,1, 1 Trichloroethane		0.50	nd
1,2 Dichloroethane		0.50	nd
Carbon Tetrachloride		0.50	nd
Benzene (BTEX)		0.50	nd

VOLATILE ORGANIC COMPOUNDS (VOC) (CONT'D)

Parameter	MCL (µg/L)	MRL (µg/L)	Result (µg/L)
Trichloroethylene		0.50	nd
1,2 Dichloropropane		0.50	nd
Toluene		0.50	nd
Dibromomethane		0.50	nd
cis-1,3 Dichloropropene		0.50	nd
Tetrachloroethylene		0.50	nd
trans-1,3 Dichloropropene		0.50	nd
1,1,2 Trichloroethane		0.50	nd
1,2 Dibromomethane		0.50	nd
1,3 Dichloropropane		0.50	nd
1,1,1,2 Tetrachloroethane		0.50	nd
Chlorobenzene		0.50	nd
Ethylbenzene		0.50	nd
o-Xylene		0.50	nd
m,p-Xylene (BTEX)		0.50	nd
Isopropylbenzene		0.50	nd
Styrene		0.50	nd
Methyl Tertiary Butyl Ether (MTBE)		0.50	nd
1,2,3 Trichloropropane		0.50	nd
1,1,2,2 Tetrachloroethane		0.50	nd
1,3,5 Trimethylbenzene		0.50	nd
n-Propylbenzene		0.50	nd
Bromobenzene		0.50	nd
tert-Butylbenzene		0.50	nd
Chlorotoluene-2		0.50	nd
Chlorotoluene-4		0.50	nd
1,2,4 Trimethylbenzene		0.50	nd
sec-Butylbenzene		0.50	nd
n-Butylbenzene		0.50	nd
1,3 Dichlorobenzene		0.50	nd
1,4 Dichlorobenzene		0.50	nd
p-Isopropyltoluene		0.50	nd
1,2,4 Trichlorobenzene		0.50	nd
1,2 Dichlorobenzene		0.50	nd
1,2 Dibromo-3-Chloropropane		0.50	nd
Hexachlorobutadiene		0.50	nd
1,2,3 Trichlorobenzene		0.50	nd
Naphthalene		0.50	nd
Total Xylenes	0	0.50	nd