AerostarSES LLC

SAMPLE COLLECTION LOG

Project Name: SI of AFFF Areas (Savannah)

ASL Project No: M2032.0001

Installation: Dobbins ARB

Date: 12/12/17

Sample Technician(s): A Willis

Station ID: Building 731 (Hangar) AFFF Area 4
DOBNS04-002

Location Description: See boring log

Surface Water and/or Sediment Sample Collected from (circle one): Channel/Ditch Holding Pond/Lagoon Lake/Pond River/Stream Trench Other

SEDIMENT SAMPLE

Sample ID:

Sample Collection Time:

Sample Depth:

Sediment Description:

Collection Method:

Analysis/Method:

Sample Container:

Preservative:

SURFACE WATER SAMPLE

Sample ID:

Sample Collection Time:

Sample Depth:

Collection Method:

Analysis/Method:

Sample Container:

Preservative:

Water Quality (circle one): Clear Cloudy Turbid Other

Groundwater Sample Collected from (circle one): Hydropunch Monitoring Well [✓ Temporary Well]
Other

GROUNDWATER SAMPLE

Sample ID: DOBNS04-002-GW-034

Sample Collection Time: 1200

Sample Depth: 34

Collection Method: Check valve

Analysis/Method: 537M

Sample Container: 2, 125mL

Preservative: none

Water Quality (circle one): Clear [✓ Cloudy] Turbid Other

REMARKS: WL@ 32.33 BTOC

* Depth of water exceeded peristaltic = grab sample

12/19/17

AerostarSES LLC

SAMPLE COLLECTION LOG

Project Name: SI of AFFF Areas (Savannah)

ASL Project No: M2032.0001

Installation: Dobbins ARB

Date: 01-10-18

Sample Technician(s): A.Willis

Station ID: DOBNS12-002

Location Description: Motor Pool Facility (BLDG 516) (AFFF AREA 12)
See boring log

Surface Water and/or Sediment Sample Collected from (circle one): Channel/Ditch Holding Pond/Lagoon Lake/Pond River/Stream Trench Other

SEDIMENT SAMPLE

Sample ID:

Sample Collection Time:

Sample Depth:

Sediment Description:

Collection Method:

Analysis/Method:

Sample Container:

Preservative:

SURFACE WATER SAMPLE

Sample ID:

Sample Collection Time:

Sample Depth:

Collection Method:

Analysis/Method:

Sample Container:

Preservative:

Water Quality (circle one): Clear Cloudy Turbid Other

Groundwater Sample Collected from (circle one): Hydropunch Monitoring Well Temporary Well Other

GROUNDWATER SAMPLE

Sample ID:

Sample Collection Time:

Sample Depth:

Collection Method:

Analysis/Method:

Sample Container:

Preservative:

Water Quality (circle one): Clear Cloudy Turbid Other

REMARKS:

no sample - not enough water for GRAB sample

well abandoned

AerostarSES LLC SAMPLE COLLECTION LOG

Project Name: SI of AFFF Areas (Savannah)

ASL Project No: M2032.0001

Installation: Dobbins ARB

Date: 12/8/17

Sample Technician(s): A.Willis

Station ID: Building 746 (Hangar) AFFF5
DOBNS05-001

Location Description: See boring log

Surface Water and/or Sediment Sample Collected from (circle one): Channel/Ditch Holding Pond/Lagoon Lake/Pond River/Stream Trench Other

SEDIMENT SAMPLE

Sample ID:

Sample Collection Time:

Sample Depth:

Sediment Description:

Collection Method:

Analysis/Method:

Sample Container:

Preservative:

SURFACE WATER SAMPLE

Sample ID:

Sample Collection Time:

Sample Depth:

Collection Method:

Analysis/Method:

Sample Container:

Preservative:

Water Quality (circle one): Clear Cloudy Turbid Other

Groundwater Sample Collected from (circle one): Hydropunch Monitoring Well [✓ Temporary Well] Other GRAB

GROUNDWATER SAMPLE

Sample ID: DOBNS05-001-GW-034

Sample Collection Time: 1125

Sample Depth: 34

Collection Method: GRAB

Analysis/Method: EPA 537M

Sample Container: 2, #25mL each

Preservative: none

Water Quality (circle one): Clear Cloudy [✓ Turbid] Other

REMARKS:

* WL (30.08) exceeded peristaltic capabilities - grab sample

AerostarSES LLC

SAMPLE COLLECTION LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Date: 12/8/17
Sample Technician(s): A.Willis
Station ID: Building 746 (Hangar) AFFF Area 5
DOBNS05-002
Location Description: See boring log

Surface Water and/or Sediment Sample Collected from (circle one): Channel/Ditch Holding Pond/Lagoon Lake/Pond River/Stream Trench Other

SEDIMENT SAMPLE

Sample ID:
Sample Collection Time:
Sample Depth:
Sediment Description:
Collection Method:
Analysis/Method:
Sample Container:
Preservative:

AW

SURFACE WATER SAMPLE

Sample ID:
Sample Collection Time:
Sample Depth:
Collection Method:
Analysis/Method:
Sample Container:
Preservative:
Water Quality (circle one): Clear Cloudy Turbid Other

Groundwater Sample Collected from (circle one): Hydropunch Monitoring Well [✓ Temporary Well] Other GRAB

DOBNS05-002 - GW-038

GROUNDWATER SAMPLE

Sample ID: DOBNS05-002-GW-038
Sample Collection Time: 1205
Sample Depth: 38
Collection Method: GRAB
Analysis/Method: EPA 537M
Sample Container: 2, 125mL
Preservative: none
Water Quality (circle one): Clear Cloudy [✓ Turbid] Other

REMARKS:

WL(33.89) exceeded Peristaltic capabilities - grab sample

12/9/17

AerostarSES LLC

SAMPLE COLLECTION LOG

Project Name: SI of AFFF Areas (Savannah)

ASL Project No: M2032.0001

Installation: Dobbins ARB

Date: 12/8/17

Sample Technician(s): A. Willis

Station ID: Building 746 (Hangar) AFFF Areas
DOBNS05-003

Location Description: SEE BORING LOG

Surface Water and/or Sediment Sample Collected from (circle one): Channel/Ditch Holding Pond/Lagoon Lake/Pond River/Stream Trench Other

SEDIMENT SAMPLE

Sample ID:
Sample Collection Time:
Sample Depth:
Sediment Description:
Collection Method:
Analysis/Method:
Sample Container:
Preservative:

SURFACE WATER SAMPLE

Sample ID:
Sample Collection Time:
Sample Depth:
Collection Method:
Analysis/Method:
Sample Container:
Preservative:
Water Quality (circle one): Clear Cloudy Turbid Other

Groundwater Sample Collected from (circle one): Hydropunch Monitoring Well [✓ Temporary Well]
Other GRAB

GROUNDWATER SAMPLE

Sample ID: DOBNS05-003-GW-038
Sample Collection Time: 1140
Sample Depth: 38
Collection Method: GRAB
Analysis/Method: EPA 537M
Sample Container: 2, 125 each
Preservative: none
Water Quality (circle one): Clear Cloudy [✓ Turbid] Other

REMARKS:
WL (35.59) exceeded peristaltic capabilities - grab sample

AerostarSES LLC

SAMPLE COLLECTION LOG

Project Name: SI of AFFF Areas (Savannah)

ASL Project No: M2032.0001

Installation: Dobbins ARB

Date: 12/05/2017

Sample Technician(s): F. Johnson, J. Vojak

Station ID: DOBNS06-001-

Location Description: 15 ft directly in front of main bay doors at the fire Station

Surface Water and/or Sediment Sample Collected from (circle one): Channel/Ditch Holding Pond/Lagoon Lake/Pond River/Stream Trench Other

SEDIMENT SAMPLE

Sample ID:

Sample Collection Time:

Sample Depth:

Sediment Description:

Collection Method:

Analysis/Method:

Sample Container:

Preservative:

FJ

SURFACE WATER SAMPLE

Sample ID:

Sample Collection Time:

Sample Depth:

Collection Method:

Analysis/Method:

Sample Container:

Preservative:

Water Quality (circle one): Clear Cloudy Turbid Other

Groundwater Sample Collected from (circle one): [✓ Hydropunch] Monitoring Well Temporary Well Other

DOBNS06-001-GW-032

GROUNDWATER SAMPLE

Sample ID: DOBNS06-001-GW-032

Sample Collection Time: 1000

Sample Depth: 32 ft BGS

Collection Method: PP

Analysis/Method: EPA 537M

Sample Container: 2x 125 mL

Preservative: N/A

Water Quality (circle one): Clear Cloudy [✓ Turbid] Other

REMARKS:

12/19/17

AerostarSES LLC

SAMPLE COLLECTION LOG

Project Name: SI of AFFF Areas (Savannah)

ASL Project No: M2032.0001

Installation: Dobbins ARB

Date: 12/8/17

Sample Technician(s): A. Willis

Station ID: Current Fire Station (Building 745) AFFF 6
DOBNS06-002

Location Description: See boring log

Surface Water and/or Sediment Sample Collected from (circle one): Channel/Ditch Holding Pond/Lagoon Lake/Pond River/Stream Trench Other

SEDIMENT SAMPLE

Sample ID:
Sample Collection Time:
Sample Depth:
Sediment Description:
Collection Method:
Analysis/Method:
Sample Container:
Preservative:

SURFACE WATER SAMPLE

Sample ID:
Sample Collection Time:
Sample Depth:
Collection Method:
Analysis/Method:
Sample Container:
Preservative:
Water Quality (circle one): Clear Cloudy Turbid Other

Groundwater Sample Collected from (circle one): Hydropunch Monitoring Well [✓ Temporary Well] Other GRAB

GROUNDWATER SAMPLE

Sample ID: DOBNS06-002-GW-038
Sample Collection Time: 1225
Sample Depth: 38
Collection Method: GRAB
Analysis/Method: EPA 537M
Sample Container: 2, 125ml each
Preservative: none
Water Quality (circle one): Clear Cloudy [✓ Turbid] Other

REMARKS:

* WL (29.42) exceeded peristaltic capabilities – grab sample

AerostarSES LLC

SAMPLE COLLECTION LOG

Project Name: SI of AFFF Areas (Savannah)

ASL Project No: M2032.0001

Installation: Dobbins ARB

Date: 12/7/17

Sample Technician(s): A.Willis

Station ID: Current Fire Station (Building 745) AFFF Area 6
DOBNS06-003

Location Description: See boring logs

Surface Water and/or Sediment Sample Collected from (circle one): Channel/Ditch Holding Pond/Lagoon Lake/Pond River/Stream Trench Other

SEDIMENT SAMPLE

Sample ID:
Sample Collection Time:
Sample Depth:
Sediment Description:
Collection Method:
Analysis/Method:
Sample Container:
Preservative:

SURFACE WATER SAMPLE

Sample ID:
Sample Collection Time:
Sample Depth:
Collection Method:
Analysis/Method:
Sample Container:
Preservative:
Water Quality (circle one): Clear Cloudy Turbid Other

Groundwater Sample Collected from (circle one): Hydropunch Monitoring Well [✓ Temporary Well] Other GRAB

GROUNDWATER SAMPLE

Sample ID: DOBNS06-003-GW-036
Sample Collection Time: 1236
Sample Depth: 36
Collection Method: GRAB
Analysis/Method: EPA 537M
Sample Container: 2, 125mL each
Preservative: none
Water Quality (circle one): Clear Cloudy [✓ Turbid] Other

REMARKS:

* WL (32.28) exceeded Peristaltic capabilities - grab sample

AerostarSES LLC

SAMPLE COLLECTION LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Date: 12/3/17
Sample Technician(s): J. Meshew
Station ID: C-SA Galaxy fire (AFFF AREA 7)
DOBNS07-002
Location Description: See Boring Log

Surface Water and/or Sediment Sample Collected from (circle one): Channel/Ditch Holding Pond/Lagoon Lake/Pond River/Stream Trench Other

SEDIMENT SAMPLE

Sample ID:
Sample Collection Time:
Sample Depth:
Sediment Description:
Collection Method:
Analysis/Method:
Sample Container:
Preservative:

SURFACE WATER SAMPLE

Sample ID:
Sample Collection Time:
Sample Depth:
Collection Method:
Analysis/Method:
Sample Container:
Preservative:
Water Quality (circle one): Clear Cloudy Turbid Other

Groundwater Sample Collected from (circle one): [✓ Hydropunch] Monitoring Well Temporary Well Other

GROUNDWATER SAMPLE

Sample ID: DOBNS07-002-GW-024
Sample Collection Time: 12~~3~~45
Sample Depth: 24
Collection Method: GRAB
Analysis/Method: EPA 537M
Sample Container: 2, 125mL
Preservative: none
Water Quality (circle one): Clear Cloudy [✓ Turbid] Other

REMARKS:

6/19/18
12/7/17

AerostarSES LLC

SAMPLE COLLECTION LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Date: 12/8/17
Sample Technician(s): J. Meshew
Station ID: C-5A Galaxy Fire (AFFF 7)
DOBN807-003
Location Description: SEE BORING LOG

Surface Water and/or Sediment Sample Collected from (circle one): Channel/Ditch Holding Pond/Lagoon Lake/Pond River/Stream Trench Other

SEDIMENT SAMPLE

Sample ID:
Sample Collection Time:
Sample Depth:
Sediment Description:
Collection Method:
Analysis/Method:
Sample Container:
Preservative:

SURFACE WATER SAMPLE

Sample ID:
Sample Collection Time:
Sample Depth:
Collection Method:
Analysis/Method:
Sample Container:
Preservative:
Water Quality (circle one): Clear Cloudy Turbid Other

Groundwater Sample Collected from (circle one): [✓ Hydropunch] Monitoring Well Temporary Well Other

GROUNDWATER SAMPLE

Sample ID: DOBN807-003-GW-024
Sample Collection Time: 1358
Sample Depth: 24
Collection Method: GRAB
Analysis/Method: EPA 537M
Sample Container: 2, 125mL PE
Preservative: none
Water Quality (circle one): Clear Cloudy [✓ Turbid] Other

REMARKS:

12/7/17

AerostarSES LLC

SAMPLE COLLECTION LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Date: 12/2/17
Sample Technician(s): J. MESHEW
Station ID: C-5A Galaxy Fire (AFFF AREA 7)
DOBNS07-006
Location Description: SEE BORING LOG

~~Surface Water and/or Sediment Sample Collected from (circle one): Channel/Ditch Holding Pond/Lagoon Lake/Pond River/Stream Trench [✓ Other]~~

~~SEDIMENT SAMPLE~~

~~Sample ID: Sample Collection Time:~~
~~Sample Depth: Sediment Description:~~
~~Collection Method: Analysis/Method:~~
~~Sample Container: Preservative:~~

~~SURFACE WATER SAMPLE~~

~~Sample ID: Sample Collection Time:~~
~~Sample Depth: Collection Method:~~
~~Analysis/Method: Sample Container:~~
~~Preservative: Water Quality (circle one): Clear Cloudy Turbid Other~~

Groundwater Sample Collected from (circle one): [✓ Hydropunch] Monitoring Well Temporary Well Other

GROUNDWATER SAMPLE

Sample ID: DOBNS07-006-GW-025
Sample Collection Time: 1500
Sample Depth: 25'
Collection Method: GRAB
Analysis/Method: EPA 537M
Sample Container: 2, 125mL each PE
Preservative: none
Water Quality (circle one): Clear [✓ Cloudy] Turbid Other

REMARKS:

10/12/17

AerostarSES LLC

SAMPLE COLLECTION LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Date: 12/3/17
Sample Technician(s): J. Mathew
Station ID: C-5A Galaxy Fire (AFFF AREA 7)
DOBNS07-007
Location Description: SEE BORING LOG

Surface Water and/or Sediment Sample Collected from (circle one): Channel/Ditch Holding Pond/Lagoon Lake/Pond River/Stream Trench Other

SEDIMENT SAMPLE

Sample ID:
Sample Collection Time:
Sample Depth:
Sediment Description:
Collection Method:
Analysis/Method:
Sample Container:
Preservative:

SURFACE WATER SAMPLE

Sample ID:
Sample Collection Time:
Sample Depth:
Collection Method:
Analysis/Method:
Sample Container:
Preservative:
Water Quality (circle one): Clear Cloudy Turbid Other

Groundwater Sample Collected from (circle one): [✓ Hydropunch] Monitoring Well Temporary Well Other

GROUNDWATER SAMPLE

Sample ID: DOBNS07-007-GW-029
Sample Collection Time: 0850
Sample Depth: 29'
Collection Method: Grab
Analysis/Method: EPA 537M
Sample Container: 2,125 ml PE bottles
Preservative: none
Water Quality (circle one): Clear Cloudy [✓ Turbid] Other

REMARKS:

12/7/17

AerostarSES LLC

SAMPLE COLLECTION LOG

Project Name: SI of AFFF Areas (Savannah)

ASL Project No: M2032.0001

Installation: Dobbins Air Reserve Base

Date: 12/13/2017

Sample Technician(s): Franklin Johnson

Station ID: DOBNS09-002

Location Description: 33 ft @ 110° from the SE Corner of building 551.

Surface Water and/or Sediment Sample Collected from (circle one): Channel/Ditch Holding Pond/Lagoon Lake/Pond River/Stream Trench Other

SEDIMENT SAMPLE

Sample ID:
Sample Collection Time:
Sample Depth:
Sediment Description:
Collection Method:
Analysis/Method:
Sample Container:
Preservative:

FJ

SURFACE WATER SAMPLE

Sample ID:
Sample Collection Time:
Sample Depth:
Collection Method:
Analysis/Method:
Sample Container:
Preservative:
Water Quality (circle one): Clear Cloudy Turbid Other

Groundwater Sample Collected from (circle one): Hydropunch Monitoring Well [✓ Temporary Well] Other

GROUNDWATER SAMPLE

Sample ID: DOBNS09-002-GW-044
Sample Collection Time: 1530
Sample Depth: 44 ft
Collection Method: Check Valve
Analysis/Method: EPA 537M
Sample Container: 2x 125 mL
Preservative: N/A
Water Quality (circle one): Clear Cloudy [✓ Turbid] Other

REMARKS:

12/20/17

AerostarSES LLC

SAMPLE COLLECTION LOG

Project Name: SI of AFFF Areas (Savannah)

ASL Project No: M2032.0001

Installation: Dobbins Air Reserve Base

Date: 12/13/2017

Sample Technician(s): Franklin Johnson

Station ID: DOBNS 09-003

Location Description: Aprox. 17 ft @ 110° from the NE Corner of parking area just East of building 551.

Surface Water and/or Sediment Sample Collected from (circle one): Channel/Ditch Holding Pond/Lagoon Lake/Pond River/Stream Trench Other

SEDIMENT SAMPLE

Sample ID:

Sample Collection Time:

Sample Depth:

Sediment Description:

Collection Method:

Analysis/Method:

Sample Container:

Preservative:

FT

SURFACE WATER SAMPLE

Sample ID:

Sample Collection Time:

Sample Depth:

Collection Method:

Analysis/Method:

Sample Container:

Preservative:

Water Quality (circle one): Clear Cloudy Turbid Other

Groundwater Sample Collected from (circle one): Hydropunch Monitoring Well [✓ Temporary Well] Other

DOBNS09-003-GW-042

GROUNDWATER SAMPLE

Sample ID: DOBNS09-003-GW-942

Sample Collection Time: 1643

Sample Depth: 42 ft

Collection Method: Check Valve

Analysis/Method: EPA 537M

Sample Container: 2x 125 mL

Preservative: N/A

Water Quality (circle one): Clear Cloudy [✓ Turbid] Other

REMARKS:
Normal and duplicate sample, 4 bottles total.

12/20/17

AerostarSES LLC

SAMPLE COLLECTION LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins Air Reserve Base
Date: 12/14/2017
Sample Technician(s): Franklin Johnson
Station ID: DOBNS12-001

Location Description: Aprox 3ft from the SW Corner of the parking lot around the motor pool (Building 516).

Surface Water and/or Sediment Sample Collected from (circle one): Channel/Ditch Holding Pond/Lagoon Lake/Pond River/Stream Trench Other

SEDIMENT SAMPLE

Sample ID:
Sample Collection Time:
Sample Depth:
Sediment Description:
Collection Method:
Analysis/Method:
Sample Container:
Preservative:

FJ

SURFACE WATER SAMPLE

Sample ID:
Sample Collection Time:
Sample Depth:
Collection Method:
Analysis/Method:
Sample Container:
Preservative:
Water Quality (circle one): Clear Cloudy Turbid Other

Groundwater Sample Collected from (circle one): Hydropunch Monitoring Well [✓ Temporary Well] Other

GROUNDWATER SAMPLE

Sample ID: DOBNS12-001-GW-024
Sample Collection Time: 0835
Sample Depth: 24 ft
Collection Method: ~~Check Valve~~ FJ PP
Analysis/Method: EPA 537 M
Sample Container: 2x 125 mL
Preservative: N/A
Water Quality (circle one): Clear Cloudy [✓ Turbid] Other

REMARKS:

12/20/17

AerostarSES LLC

SAMPLE COLLECTION LOG

Project Name: SI of AFFF Areas (Savannah)

ASL Project No: M2032.0001

Installation: Dobbins ARB

Date: 1/10/18

Sample Technician(s): A. Willis

Station ID: AFFF Area 12 - Motor Pool Facility (Building 516)
DOBNS12-002

Location Description: SEE BORING LOG

Surface Water and/or Sediment Sample Collected from (circle one): Channel/Ditch Holding Pond/Lagoon Lake/Pond River/Stream Trench Other

SEDIMENT SAMPLE

No Sample

Sample ID:
Sample Collection Time:
Sample Depth:
Sediment Description:
Collection Method:
Analysis/Method:
Sample Container:
Preservative:

SURFACE WATER SAMPLE

Sample ID:
Sample Collection Time:
Sample Depth:
Collection Method:
Analysis/Method:
Sample Container:
Preservative:
Water Quality (circle one): Clear Cloudy Turbid Other

Groundwater Sample Collected from (circle one): Hydropunch Monitoring Well Temporary Well Other

GROUNDWATER SAMPLE

Well DRY

Sample ID:
Sample Collection Time:
Sample Depth:
Collection Method:
Analysis/Method:
Sample Container:
Preservative:
Water Quality (circle one): Clear Cloudy Turbid Other

REMARKS:

AerostarSES LLC

SAMPLE COLLECTION LOG

Project Name: SI of AFFF Areas (Savannah)

ASL Project No: M2032.0001

Installation: Dobbins ARB

Date: 12/14/17

Sample Technician(s): A Willis

Station ID: AFFF SPRAY TEST AREA (AFFF AREA 13)
DOBNS13-001

Location Description: See boring log

Surface Water and/or Sediment Sample Collected from (circle one): Channel/Ditch Holding Pond/Lagoon Lake/Pond River/Stream Trench Other

SEDIMENT SAMPLE

Sample ID:
Sample Collection Time:
Sample Depth:
Sediment Description:
Collection Method:
Analysis/Method:
Sample Container:
Preservative:

SURFACE WATER SAMPLE

Sample ID:
Sample Collection Time:
Sample Depth:
Collection Method:
Analysis/Method:
Sample Container:
Preservative:
Water Quality (circle one): Clear Cloudy Turbid Other

Groundwater Sample Collected from (circle one): Hydropunch Monitoring Well [✓ Temporary Well] Other

GROUNDWATER SAMPLE

Sample ID: DOBNS13-001-GW-050
Sample Collection Time: 1416
Sample Depth: 50
Collection Method: GRAB – Check valve
Analysis/Method: EPA 537A
Sample Container: 6, 250 mL
Preservative: none
Water Quality (circle one): Clear Cloudy [✓ Turbid] Other

REMARKS:

* WL (43.5) exceeded peristaltic capabilities – grab sample

12/19/17

AerostarSES LLC

SAMPLE COLLECTION LOG

Project Name: SI of AFFF Areas (Savannah)

ASL Project No: M2032.0001

Installation: Dobbins ARB

Date: 12/14/17

Sample Technician(s): A. Willis

Station ID: AFFF SPRAY TEST AREA 13
DOBWS13-002

Location Description: See boring log

Surface Water and/or Sediment Sample Collected from (circle one): Channel/Ditch Holding Pond/Lagoon Lake/Pond River/Stream Trench Other

SEDIMENT SAMPLE

Sample ID:
Sample Collection Time:
Sample Depth:
Sediment Description:
Collection Method:
Analysis/Method:
Sample Container: AW
Preservative:

SURFACE WATER SAMPLE

Sample ID:
Sample Collection Time:
Sample Depth:
Collection Method:
Analysis/Method:
Sample Container:
Preservative:
Water Quality (circle one): Clear Cloudy Turbid Other

Groundwater Sample Collected from (circle one): Hydropunch Monitoring Well [✓ Temporary Well] Other

GROUNDWATER SAMPLE

Sample ID: DOBWS13-002-GW-045
Sample Collection Time: 1252
Sample Depth: 45
Collection Method: Check Valve
Analysis/Method: 537M
Sample Container: #2, 1/2 full 250mL bottles
Preservative:
Water Quality (circle one): Clear Cloudy [✓ Turbid] Other

REMARKS: * well ran dry during sampling

** WL (36.87) exceeded peristaltic capabilities - grab samples

6/19/18
12/[illegible]/17

AerostarSES LLC

SAMPLE COLLECTION LOG

Project Name: SI of AFFF Areas (Savannah)

ASL Project No: M2032.0001

Installation: Dobbins ARB

Date: 12/14/17

Sample Technician(s): A. Willis

Station ID: AFFF SPRAY TEST AREA (AFFF AREA 13)
DOBNS13-003

Location Description: see boring log

Surface Water and/or Sediment Sample Collected from (circle one): Channel/Ditch Holding Pond/Lagoon Lake/Pond River/Stream Trench Other

SEDIMENT SAMPLE

Sample ID:
Sample Collection Time:
Sample Depth:
Sediment Description:
Collection Method:
Analysis/Method:
Sample Container:
Preservative:

SURFACE WATER SAMPLE

Sample ID:
Sample Collection Time:
Sample Depth:
Collection Method:
Analysis/Method:
Sample Container:
Preservative:
Water Quality (circle one): Clear Cloudy Turbid Other

Groundwater Sample Collected from (circle one): Hydropunch Monitoring Well [✓ Temporary Well] Other

GROUNDWATER SAMPLE

Sample ID: DOBNS13-003-GW-050
Sample Collection Time: 1502
Sample Depth: 50
Collection Method: Grab via check valve
Analysis/Method: 537M
Sample Container: 2, 250mL
Preservative: None
Water Quality (circle one): Clear Cloudy [✓ Turbid] Other

REMARKS:

* WL (43.68) exceeded peristaltic capabilities - grab samples

AerostarSES LLC

SAMPLE COLLECTION LOG

Project Name: SI of AFFF Areas (Savannah)

ASL Project No: M2032.0001

Installation: Dobbins ARB

Date: 12/11/17

Sample Technician(s): A. willis

Station ID: AFFF SPRAY TEST AREA – AFFF AREA 13
DOBNS13-004

Location Description: See boring Log

Surface Water and/or Sediment Sample Collected from (circle one): Channel/Ditch Holding Pond/Lagoon Lake/Pond River/Stream Trench Other

SEDIMENT SAMPLE

Sample ID:

Sample Collection Time:

Sample Depth:

Sediment Description:

Collection Method:

Analysis/Method:

Sample Container:

Preservative:

SURFACE WATER SAMPLE

Sample ID:

Sample Collection Time:

Sample Depth:

Collection Method:

Analysis/Method:

Sample Container:

Preservative:

Water Quality (circle one): Clear Cloudy Turbid Other

Groundwater Sample Collected from (circle one): Hydropunch Monitoring Well [✓ Temporary Well]
Other

GROUNDWATER SAMPLE

Sample ID: DOBNS13-004-GW-052

Sample Collection Time: 1055

Sample Depth: 52

Collection Method: Check valve

Analysis/Method: EPA 537M

Sample Container: 2, 250mL

Preservative: NONE

Water Quality (circle one): Clear Cloudy [✓ Turbid] Other

REMARKS:

* WL (47.16) exceeded peristaltic capabilities – grab sample

AerostarSES LLC

SAMPLE COLLECTION LOG

Project Name: SI of AFFF Areas (Savannah)

ASL Project No: M2032.0001

Installation: Dobbins ARB

Date: 11.29.17

Sample Technician(s): Jeremy A Mcshew / Justin Vojak

Station ID: DOBNS13-005

Location Description: See boring log

Surface Water and/or Sediment Sample Collected from (circle one): Channel/Ditch Holding Pond/Lagoon Lake/Pond River/Stream Trench Other

SEDIMENT SAMPLE

Sample ID:
Sample Collection Time:
Sample Depth:
Sediment Description:
Collection Method:
JM
Analysis/Method:
Sample Container:
Preservative:

SURFACE WATER SAMPLE

Sample ID:
Sample Collection Time:
Sample Depth:
Collection Method:
Analysis/Method:
Sample Container:
Preservative:
Water Quality (circle one): Clear Cloudy Turbid Other

Groundwater Sample Collected from (circle one): [✓ Hydropunch] Monitoring Well Temporary Well Other

GROUNDWATER SAMPLE

Sample ID: DOBNS13-005-GW-053(+FD)
Sample Collection Time: 1238
Sample Depth: 53' BGS
Collection Method: PP
Analysis/Method: EPA 537 M
Sample Container: 4 125 mL PE Jars
Preservative: NA
Water Quality (circle one): Clear [✓ Cloudy] Turbid Other

REMARKS: GW tagged @
SP16 Geoprobe Sampler.
Field Dup DOBNS13-005-GW-953 also collected

12/02/17

AerostarSES LLC

SAMPLE COLLECTION LOG

Project Name: SI of AFFF Areas (Savannah)

ASL Project No: M2032.0001

Installation: Dobbins ARB

Date: 12/11/17

Sample Technician(s): Greg Carlson

Station ID: BIG LAKE (OT-04) AFFF AREA 14
DOBNS 14-001

Location Description: See boring log

Surface Water and/or Sediment Sample Collected from (circle one): Channel/Ditch Holding Pond/Lagoon Lake/Pond River/Stream Trench Other

SEDIMENT SAMPLE

Sample ID: ______ Sample Collection Time: ______

Sample Depth: ______ Sediment Description: ______

Collection Method: ______ Analysis/Method: ______

Sample Container: ______ Preservative: ______

SURFACE WATER SAMPLE

Sample ID: ______ Sample Collection Time: ______

Sample Depth: ______ Collection Method: ______

Analysis/Method: ______ Sample Container: ______

Preservative: ______ Water Quality (circle one): Clear Cloudy Turbid Other

Groundwater Sample Collected from (circle one): Hydropunch Monitoring Well [✓ Temporary Well] Other______

GROUNDWATER SAMPLE

Sample ID: DOBNS 14-001-GW-012 Sample Collection Time: 1640

Sample Depth: 12 Collection Method: GRAB

Analysis/Method: 537M Sample Container: 2, 125mL

Preservative: none Water Quality (circle one): [✓ Clear] Cloudy Turbid Other

REMARKS:
* Well was not recharging fast enough (see GW LOG)

12/19/17

AerostarSES LLC

SAMPLE COLLECTION LOG

Project Name: SI of AFFF Areas (Savannah)

ASL Project No: M2032.0001

Installation: Dobbins ARB

Date: 11/29/17

Sample Technician(s): A. Willis, G. Carlson

Station ID: BIG Lake (OT-04)
DOBNS14-002

Location Description: 775' West of Monitoring well, D3-W4

Surface Water and/or Sediment Sample Collected from (circle one): Channel/Ditch Holding Pond/Lagoon Lake/Pond [✓ River/Stream] Trench Other

SEDIMENT SAMPLE

Sample ID: DOBNS14-002-SD-001
Sample Collection Time: 1515
Sample Depth: 0 - 0.5'
Sediment Description: Coarse, poorly sorted SAND
Collection Method: Spoon
Analysis/Method: EPA 537M
Sample Container: 1, 250ml PE bottle
Preservative: none

SURFACE WATER SAMPLE

Sample ID: DOBNS14-002-SW-901
DOBNS14-002-SW-001
Sample Collection Time: 1515
Sample Depth: 0-0.5'
Collection Method: GRAB
Analysis/Method: EPA 537M
Sample Container: 2, 125ml each PE bottles
Preservative: None
Water Quality (circle one): [✓ Clear] Cloudy Turbid Other

Groundwater Sample Collected from (circle one): Hydropunch Monitoring Well Temporary Well
Other

GROUNDWATER SAMPLE

Sample ID:
Sample Collection Time:
Sample Depth:
Collection Method:
Analysis/Method:
Sample Container:
Preservative:
Water Quality (circle one): Clear Cloudy Turbid Other

AC

REMARKS: GPS✓

12/02/17

AerostarSES LLC SAMPLE COLLECTION LOG

Project Name: SI of AFFF Areas (Savannah)

ASL Project No: M2032.0001

Installation: Dobbins ARB

Date: 11/28/17

Sample Technician(s): A. Willis, J. Mathew

Station ID: DOBNS14-003

Location Description: BIG LAKE (OT-04)
450', 198° SW of Building 557A

Surface Water and/or Sediment Sample Collected from (circle one): Channel/Ditch Holding Pond/Lagoon Lake/Pond [✓ River/Stream] Trench Other

SEDIMENT SAMPLE

Sample ID: DOBNS14-003-SD-001 w/ MS/MSD

Sample Collection Time: 1630

Sample Depth: 0-0.5

Sediment Description: gravelly silt

Collection Method: Spoon

Analysis/Method: EPA 537M

Sample Container: 2, 250ml PE bottles

Preservative: none

SURFACE WATER SAMPLE

Sample ID: DOBNS14-003-SW-001

Sample Collection Time: 1630

Sample Depth: 0-0.5

Collection Method: GRAB

Analysis/Method: EPA 537M

Sample Container: 2, 125ml PE bottles

Preservative: none

Water Quality (circle one): Clear [✓ Cloudy] Turbid Other

Groundwater Sample Collected from (circle one): Hydropunch Monitoring Well Temporary Well Other

GROUNDWATER SAMPLE

Sample ID:

Sample Collection Time:

Sample Depth:

Collection Method:

Analysis/Method:

Sample Container:

Preservative:

Water Quality (circle one): Clear Cloudy Turbid Other

REMARKS:

GPS ✓

12/2/17

AerostarSES LLC

SAMPLE COLLECTION LOG

Project Name: SI of AFFF Areas (Savannah)

ASL Project No: M2032.0001

Installation: Dobbins ARB

Date: 11/29/17

Sample Technician(s): A.Willis, G. Carlson

Station ID: SPILL POND 3 (AFFF AREA 15)
DOBNS15-004

Location Description: 180', 110° SE of the intersection of Atlantic AVE SE and 4th Street

Surface Water and/or Sediment Sample Collected from (circle one): Channel/Ditch [✓ Holding Pond/Lagoon] Lake/Pond River/Stream Trench Other

SEDIMENT SAMPLE

Sample ID:	DOBNS15-004-SD-001	Sample Collection Time:	1615
Sample Depth:	0-0.5'	Sediment Description:	Silty Clay
Collection Method:	SPOON	Analysis/Method:	EPA 537M
Sample Container:	1, 250mL PE EACH	Preservative:	none

SURFACE WATER SAMPLE

Sample ID:	DOBNS15-004-SW-001	Sample Collection Time:	1615
Sample Depth:	0 -0.5'	Collection Method:	GRAB
Analysis/Method:	EPA 537M	Sample Container:	2, 125 mL PE Bottles
Preservative:	None	Water Quality (circle one):	[✓ Clear] Cloudy Turbid Other

Groundwater Sample Collected from (circle one): Hydropunch Monitoring Well Temporary Well Other

GROUNDWATER SAMPLE

Sample ID:		Sample Collection Time:	
Sample Depth:		Collection Method:	
Analysis/Method:		Sample Container:	
Preservative:		Water Quality (circle one):	Clear Cloudy Turbid Other

REMARKS: GPS

AerostarSES LLC

SAMPLE COLLECTION LOG

Project Name: SI of AFFF Areas (Savannah)

ASL Project No: M2032.0001

Installation: Dobbins ARB

Date: 11/29/17

Sample Technician(s): A. Willis, G. Carlson

Station ID: SPILL POND 4 (AFFF AREA 16)
DOBNS16-004

Location Description: 200', 100° SE of the intersection of Atlantic AVE SE and Refueling RD SE

Surface Water and/or Sediment Sample Collected from (circle one): Channel/Ditch [✓ Holding Pond/Lagoon] Lake/Pond River/Stream Trench Other

SEDIMENT SAMPLE

Sample ID: DOBNS16-004-SD-001
Sample Collection Time: 1600
Sample Depth: 0-0.5
Sediment Description: Silty clay
Collection Method: Spoon
Analysis/Method: EPA 537M
Sample Container: 1, 250mL PE bottle
Preservative: none

SURFACE WATER SAMPLE

Sample ID: DOBNS16-004-SW-001 with MS/MSD
Sample Collection Time: 1600
Sample Depth: 0-0.5'
Collection Method: GRAB
Analysis/Method: EPA 537M
Sample Container: 6, 125ml each PE bottles
Preservative: None
Water Quality (circle one): [✓ Clear] Cloudy Turbid Other

Groundwater Sample Collected from (circle one): Hydropunch Monitoring Well Temporary Well Other

GROUNDWATER SAMPLE

Sample ID:
Sample Collection Time:
Sample Depth:
Collection Method:
Analysis/Method:
Sample Container:
Preservative:
Water Quality (circle one): Clear Cloudy Turbid Other

REMARKS: GPS ✓

12/2/17

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: FORMER FTA ~~FT~~-02 (AFFF AREA 1)
Date: 12/2/17
Sample Technician: A.Willis / J. MESHEW
Well ID No.: DOBNS01-001

Initial Measurements

Well Total Depth: 30.0' ft BTOC		Water Level: 23.83' ft BTOC	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACIT			
(only fill out if applicable) = (30.0 Ft -23.83 Ft) x 0.041 gal/ft = 0.25 Gal			
Calculated Well Volume: 0.25* Gallons		Well Diameter: 1.0" inches	
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): Peristaltic
Flow rate (incl. units): 500

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. [✓ (mS/Cm)]	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
1014	500	—	—	—	–	*	—	—	–	Development intiated
1024	500	140	19.6	0.051	5.67		3.15	190.7	1.32	5< well volumes
1032	500	85.7	19.7	0.044	5.33		3.80	216.3	2.37	
1038	500	28.5	19.7	0.045	5.29		3.81	218.8	3.16	
1044	500	19.4	19.7	0.045	5.29		3.85	223.2	3.95	Developed
Results At End Of Purging:		19.4	19.7	0.045	5.29	*	3.85	225.2	3.95	

COMMENTS: * Due to size of well, tubing and WLM could not both fit in - no WL data recorded during development.

Developed after purging 5< well volumes w/ stable parameters.

12/2/17

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: FORMER FTA FT-02 (AFFF AREA 1)
Date: 12/2/17
Sample Technician: A.Willis / J.Mexhew
Well ID No.: DOBNS01 - 002

Initial Measurements

Well Total Depth:	35.06 ft BTOC	Water Level:	20.74 ft BTOC		
WELL VOLUME PURGE:	1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACITY				
(only fill out if applicable)	= (35.06 Ft - 20.74 Ft) x 0.041 gal/ft = 0.59 Gal				
Calculated Well Volume:	0.59 Gallons	Well Diameter:	1.0 inches		
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft		

Well Purging Activites

Purging Method (pump type): Peristaltic
Flow rate (incl. units): 600 mL/min

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
1105	600	—	—	—	—	*	—	—	—	Development initiated
1112	600	40.1	17.8	0.063	5.65			2.33	105.9	1,10	
1116	600	23.8	17.8	0.058	5.47			2.42	96.8	1,73	
1120	600	8.83	17.8	0.056	5.48			2.40	93.0	2.36	
1122	600	4.81	17.8	0.054	5.41			2.41	95.6	2,68	
1124	600	4.24	17.8	0.053	5.43	⊥	2.40	91.4	3,08	5 < well volumes - Developed
Results At End Of Purging:		4.24	17.8	0.053	5.43	*	2.40	91.4	3.00	

COMMENTS: * Due to size of ~~tubing~~ well, both tubing and WLM could not fit — NO WL DATA Recorded during development.

Developed after purging 5 < well volumes with stable parameters

12/2/17

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)

ASL Project No: M2032.0001

Installation: Dobbins ARB

Site: FORMER FTA FT-02 (AFFF AREA 1)

Date: 12/2/17

Sample Technician: A. Willis / J. Meshow

Well ID No.: DOBNS01-003

Initial Measurements

Well Total Depth: 29.98 ft BTOC		Water Level: 21.96 ft BTOC	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACIT			
(only fill out if applicable) = (29.98 Ft - 21.96 Ft) x 0.041 gal/ft = 0.32 Gal			
Calculated Well Volume: 0.32 Gallons		Well Diameter: 1.0 inches	
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): Peristaltic

Flow rate (incl. units): 600 ml/min

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
1140	600	–	–	–	–	*	–	–	–	Development initiated
1145	600	508	20.1	0.055	5.64	↓	1.95	130.9	0.79	
1150	600	96.6	20.2	0.035	5.36		1.46	145.5	1.58	
1155	600	8.26	20.2	0.033	5.30		1.70	155.9	2.37	5< well volumes - Developed

Results At End Of Purging:	8.26	20.2	0.033	5.30	*	1.70	155.9	2.37

COMMENTS: * Due to size of well, both tubing and WLM could not fit - no WL data recorded during development.

Developed after purging 5< well volumes w/ stable parameters.

12/2/17

AerostarSESLLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: FORMER FTA FT-D2 AFFF 1
Date: 12/11/17
Sample Technician: A. Willis, Justin Vojak
Well ID No.: ~~DOBNS01-003-GW-025~~ DOBNS01-D2-W7-

Initial Measurements

Well Total Depth: 33.25 ft BTOC		Water Level: 17.58 ft BTOC	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACITY			
(only fill out if applicable) = (32.25 Ft - 17.58 Ft) x 0.163 gal/ft = 2.39 Gal			
Calculated Well Volume: 2.39 Gallons		Well Diameter: 2.0 inches	
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): Monsoon
Flow rate (incl. units): 3000 - 5000 mL/min

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
1652	3000	—	—	—	—	16.0	—	—	—	Development Initiated
1656	3000	overrange	15.6	0.061	6.26	17.5	2.49	287.3	0.79	
1700	4000	Overrange.	16.9	0.063	6.32	17.65	1.57	289.7	2.44	
1706	5000	335	17.5	0.064	6.30	21.0	1.32	295.7	10.36	
1710	~~5~~3000	215	17.7	0.064	6.31	21.2	1.26	302.9	13.53	5 < well volumes
1714	3000	132	17.5	0.060	6.25	21.3	1.20	302.7	14.32	Developed
Results At End Of Purging:		132	17.5	0.060	6.25	21.3	1.20	302.7	14.32	

COMMENTS: Historical DTW 30.5

Developed after 5 well volumes and stable parameters.

AerostarSESLLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: FORMER FTA FT-02 AFFF 1
Date: 12/11/17
Sample Technician: A. Willis
Well ID No.: DOBNS01-D2-W23

Initial Measurements

Well Total Depth:	17.48 ft BTOC	Water Level:	8.26' ft BTOC
WELL VOLUME PURGE:	1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACITY		
(only fill out if applicable)	= (17.48 Ft - 8.26 Ft) x 0.163 gal/ft = 1.50 Gal		
Calculated Well Volume:	1.50 Gallons	Well Diameter:	2.0" inches
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): Monsoon
Flow rate (incl. units): 500-800 ml/min

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
1336	500	—	—	—	—	8.11	—	—	—	Development initiated
1340	500	Over range	15.6	0.037	5.33	8.19 ~~8.24~~	2.34	170.6	1.32	
1348	500	675	15.3	0.038	5.33	9.0	2.07	177.5	2.37	
1402	500	37.6	17.2	0.038	5.01	9.0	2.59	171.5	2.90	
1404	500	55.9	17.1	0.037	4.97	9.0	2.84	180.1	3.16	
1412	500	86.3	17.3	0.036	4.95	9.0	5.78	192.7	4.21	
1418	500	45.6	17.3	0.036	4.99	9.2	5.80	195.3	5.00	
1425	500	128.0	17.4	0.036	5.04	9.2	5.90	197.8	5.92	
1432	800	230.0	17.5	0.036	5.00	9.3	5.92	222.0	~~6.34~~ 7.[illegible]	
1436	800	238.0	17.9	0.036	4.88	9.4	6.94	216.2	8.25	5< well volumes - developed

Results At End Of Purging:	Turbidity	Temp	Cond.	pH	Depth to water	DO	ORP	Total Gal Pumped
	238.0	17.9	0.036	4.87	9.4	6.94	216.2	8.12

COMMENTS: Historical depth = 17.3 / unknown screen

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: FORMER FTA FT-03 AFFF AREA 2
Date: 12/7/17
Sample Technician: A. Willis, J. Meskew
Well ID No.: DOBNS02-D3-W4

Initial Measurements

Well Total Depth:	15.0 ft BTOC	Water Level:	11.6 ft BTOC
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACIT			
(only fill out if applicable)	= (15.0 Ft - 11.6 Ft) x 0.163 gal/ft = 0.55 Gal		
Calculated Well Volume:	0.55 Gallons	Well Diameter:	2.0 inches
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): Monsoon
Flow rate (incl. units): 3500ml/min

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
1622	3500	—	—	—	—	11.3	—	—	—	Development initiated
1624	3500	over range	17.4	0.111	5.37	14.6	1.05	131.4	1.85	Ran dry to just above 1' of T
1644	3500	189	17.5	0.109	5.35	13.2	1.10	103.9	1.85	Develop initiated
1649	3500	170	17.8	0.109	5.38	14.6	1.11	100.1	6.47	Ran dry to just above 1'
1701	3500	—	—	—	—	11.80	—	—	6.47	Development resumed
1704	3500	257	18.0	0.108	5.35	13.98	1.15	79.8	9.24	Developed 5 well volum
Results At End Of Purging:		257	18.0	0.108	5.35	13.98	1.15	79.8	9.24	

COMMENTS:

Developed after 5 well volumes w/ Stable parameters.
NTUs were low but went up towards end.

12/7/1

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: FORMER FTA FT-03 (AFFF AREA 2)
Date: 12/01/17
Sample Technician: A. Willis / J. MESHEW
Well ID No.: DOBNS02-~~W~~D3- W32

Initial Measurements

Well Total Depth:	17.42 ft BTOC	Water Level:	6.22 ft BTOC
WELL VOLUME PURGE: (only fill out if applicable)	1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACITY = (17.42 Ft - 6.22 Ft) x 0.163 gal/ft = 1.83 Gal		
Calculated Well Volume:	1.83 Gallons	Well Diameter:	2.0 inches
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): Monsoon
Flow rate (incl. units): 3000 ml/min

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
1404	3000	—	—	—	—	6.05	—	—	—	Development initiated
1406	3000	647	16.9	0.048	5.93	15.53	8.19	112.8	1.58	
1410	3000	304	16.9	0.046	5.52	9.64	2.18	151.7	4.75	
1414	3000	48.8	17.1	0.045	5.32	10.55	1.62	171.4	7.92	
1418	3000	34.1	17.1	0.043	5.29	10.70	1.65	187.4	11.09	5 well volumes
1422	3000	19.8	17.1	0.043	5.25	10.70	1.68	190.7	14.26	Developed
Results At End Of Purging:		19.8	17.1	0.043	5.25	10.70	1.68	190.7	14.26	

COMMENTS: Historial depth 17.3

Developed after purging 5 well volumes w/ stable parameters.

12/2/17

AerostarSESLLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: FORMER FTA FT-03 (AFFF AREA 2)
Date: 12/01/17
Sample Technician: A.Willis, J. MESHEW
Well ID No.: DOBNS02-D3-W3

Initial Measurements

Well Total Depth: ~~55.2~~ 51.8 ft BTOC		Water Level: 30.03 ft BTOC	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACITY			
(only fill out if applicable) = (51.8 Ft -30.03Ft) x 0.163 gal/ft = 3.55 Gal			
Calculated Well Volume: 3.55 Gallons		Well Diameter: 2.0 inches	
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): Monsoon
Flow rate (incl. units): 3000 ml /min

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments / fuel odor
1316	3000	—	—	—	—	33.21	—	—	—	Development initiated
1320	3000	417	18.4	0.263	6.10	40.30	1.61	-4.9	3.17	
1325	3000	52	18.5	0.277	6.26	40.30	0.49	-27.2	7.13	
1330	3000	22.3	18.5	0.272	6.24	40.81	0.84	-22.0	11.09	
1335	3000	13.3	18.5	0.267	6.23	41.12	0.95	-15.3	15.25	
1340	3000	14.0	18.5	0.265	6.24	41.54	0.99	-13.1	19.21	5< well volumes/Develop
Results At End Of Purging:		14.0	18.5	0.265	6.24	41.54	0.99	-13.1	19.21	

A

COMMENTS: Historical depth = 55.01 Historical screen 24.5 – 55.0'

Developed after purging 5< well volumes with stable parameters

12/2/17

AerostarSESLLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)

ASL Project No: M2032.0001

Installation: Dobbins ARB

Site: FTA- FT-03 - AFFF AREA 2

Date: 12/12/17

Sample Technician: A. Willis

Well ID No.: DOBNS02 - D3 - W25 ~~- GW -~~ AW

Initial Measurements

Well Total Depth: 25.28 ft BTOC		Water Level: 16.18 ft BTOC	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (25.28 Ft - 16.18 Ft) x 0.041 gal/ft = 0.37 Gal			
Calculated Well Volume: 0.37 Gallons		Well Diameter: 1.0" inches	
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): Monsoon

Flow rate (incl. units): 4000 - 5000 mL/min

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
1754	5000	—	—	—	—	16.02	—	—	→	Development initiated
1802	5000	92.5	14.5	0.050	4.46	16.35	1.19	222.3	7.98	
1810	4000	206	17.2	0.052	4.45	16.70	1.25	248.9	8.45	
1814	4000	19.7	17.1	0.050	4.40	16.81	1.20	250.1	12.67	
1816	4000	10.8	17.2	0.050	4.39	16.82	1.19	263.4	16.89	developed
Results At End Of Purging:		10.8	17.2	0.050	4.39	16.82	1.19	263.4	16.89	

COMMENTS: Historical depth 25.2', screen unknown

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: FORMER FTA FT-03 (AFFF AREA 2)
Date: 12/14/17
Sample Technician: A Vills
Well ID No.: DOBNS 02-001

Initial Measurements

Well Total Depth: ft BTOC | Water Level: ft BTOC
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (Ft - Ft) x gal/ft = Gal
Calculated Well Volume: Gallons | Well Diameter: inches
Calculations: 1" diameter = 0.041 gal/ft | 2" diameter = 0.163 gal/ft | 4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type):
Flow rate (incl. units):

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
Results At End Of Purging:										

DRY

COMMENTS:

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: FORMER FTA FT-03 (AFFF AREA 2)
Date: 12/14/17
Sample Technician: A Willis
Well ID No.: DOBNS02-003

Initial Measurements

Well Total Depth: ft BTOC		Water Level: ft BTOC	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACITY			
(only fill out if applicable) = (Ft - Ft) x gal/ft = Gal			
Calculated Well Volume: Gallons		Well Diameter: inches	
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): DRY
Flow rate (incl. units):

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
Results At End Of Purging:										

COMMENTS:

AerostarSESLLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: BUILDING 5 (HANGAR) (AFFF AREA 3)
Date: 12/14/17
Sample Technician: A Willis
Well ID No.: DOBNS03-001

Initial Measurements

Well Total Depth: ft BTOC
Water Level: ft BTOC
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (Ft - Ft) x gal/ft = Gal
Calculated Well Volume: Gallons
Well Diameter: inches
Calculations: 1" diameter = 0.041 gal/ft 2" diameter = 0.163 gal/ft 4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type):
Flow rate (incl. units):

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
Results At End Of Purging:										

was able to
Low flow
GW sample – no development

COMMENTS: Well recharge was slow, but able to low flow sample. Took a few days for well to have water. Well was sealed after installed.

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: ~~12/14/17~~ Building 5 (Hangar) AFFF AREA 3
Date: 12/14/17
Sample Technician: A Willis
Well ID No.: DOBNS03-003

Initial Measurements

Well Total Depth: ft BTOC | Water Level: ft BTOC

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACIT

(only fill out if applicable) = (Ft - Ft) x gal/ft = Gal

Calculated Well Volume: Gallons | Well Diameter: inches

Calculations: 1" diameter = 0.041 gal/ft | 2" diameter = 0.163 gal/ft | 4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): Flow rate (incl. units):

DRY

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
Results At End Of Purging:										

COMMENTS:

AerostarSESLLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: BUILDING 5 (Hangar) AFFF AREA 3
Date: 12/14/17
Sample Technician: A Willis
Well ID No.: DOBNS03-004

Initial Measurements

Well Total Depth:	ft BTOC	Water Level:	ft BTOC
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACITY			
(only fill out if applicable) = (Ft - Ft) x gal/ft = Gal			
Calculated Well Volume: Gallons		Well Diameter: inches	
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

DRY

Purging Method (pump type): ______ Flow rate (incl. units): ______

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
Results At End Of Purging:										

COMMENTS:

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: Building 731 (HANGAR) AFFP AREA 4
Date: 12/12/17
Sample Technician: A. Willis
Well ID No.: DOBNS04-001

Initial Measurements

Well Total Depth: 35.11 ft BTOC		Water Level: 22.23 ft BTOC	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACITY			
(only fill out if applicable) = (35.11 Ft - 22.23 Ft) x 0.041 gal/ft = 0.52 Gal			
Calculated Well Volume: 0.52 Gallons		Well Diameter: 1.0 inches	
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): Peristaltic
Flow rate (incl. units): 500 mL/min

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
1052 ~~1104~~	500	—	—	—	—	*	—	—	-	Development initiated
1104	500	131	16.6	0.149	8.49		1.75	144.2	1.58	
1108	500	63.5	16.5	0.146	8.45		1.95	138.1	2.12	
1110	500	26.0	16.4	0.145	8.46		1.93	134.5	2.39	
1112	500	18.5	16.4	0.144	8.43		1.92	128.5	2.65	Developed
Results At End Of Purging:		18.5	16.4	0.144	8.43	*	1.92	128.5		

COMMENTS:
* Due to size of well, soft tubing and WLM could not fit - no WL data during development
Developed after purging 5+ well volumes w/ stable parameters

12/18/17

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)

ASL Project No: M2032.0001

Installation: Dobbins ARB

Site: Building 731 (HANGAR) AFFF AREA 4

Date: 12/12/17

Sample Technician: A Willis

Well ID No.: DOBNS04-002

Initial Measurements

Well Total Depth: ft BTOC		Water Level: 32.38 ft BTOC	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACITY			
(only fill out if applicable) = (Ft - Ft) x gal/ft = Gal			
Calculated Well Volume: Gallons		Well Diameter: inches	
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type):

Flow rate (incl. units):

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
~~1149~~	~~500~~	—		—	—	x	—	—	—	Development initiated

Due to depth of water exceeding Peristaltic capabilities this will be a grab sample. See Grab Sheet AW

Results At End Of Purging:

COMMENTS:

12/15/17

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: BUILDING 731 (HANGAR)
Date: 12/12/17
Sample Technician: A.Willis
Well ID No.: DOBNS04-003

Initial Measurements

Well Total Depth: 34.98 ft BTOC		Water Level: 29.03 ft BTOC	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (34.98 Ft - 29.03Ft) x 0.041 gal/ft = 0.24 Gal			
Calculated Well Volume: 0.24 Gallons		Well Diameter: 1.0" inches	
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): Peristaltic
Flow rate (incl. units): 500

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. [✓ (mS/Cm)]	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
1020	500	—	—	—	—	*	—	—	—	Development initiated
1026	500	234	14.4	0.105	5.23		4.50	314.0	0.79	
1030	500	114	14.7	0.103	5.25		3.60	315.0	1.32	5 < well volume
1033	500	58.4	14.8	0.101	5.25		3.52	301.9	1.72	
1035	500	3.77	14.8	0.101	5.28		3.50	299.5	1.98	Developed
Results At End Of Purging:		3.74	14.8	0.101	5.28	*	3.50	299.5	1.98	

COMMENTS: * Due to size of well, both tubing and WLM could not fit – no WL data recorded during development

TV 12/15/17

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: Building 746 (Hangar) AFFF 5
Date: 12/7/17
Sample Technician: A. Willis / J. Meshaw
Well ID No.: DOBWS5-001

Initial Measurements

Well Total Depth: 35.68 ft BTOC	Water Level: 30.30 ft BTOC		
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH ~~BTOC~~ – STATIC DEPTH TO WATER) X WELL CAPACIT			
(only fill out if applicable) = (35.08 Ft - 30.30 Ft) x 0.041 gal/ft = 0.21 Gal			
Calculated Well Volume: Gallons	Well Diameter: inches		
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): Peristaltic
Flow rate (incl. units):

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments

CAN'T DEVELOPE DUE* TO DEPTH OF WATER EXCEEDING Peristaltic Capabilities. This will be a grab using a check valve.

*See GRAB SHEET

Results At End Of Purging:

COMMENTS: * Due to size of well, both tubing and WLM could not fit — no WL DATA Recorded during development.

12/18

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: Building 746 (Hangare) AFFF Area 5
Date: 12/7/16
Sample Technician: A. Willis, J. Meshew
Well ID No.: DOBNS05-~~003~~-2

Initial Measurements

Well Total Depth: 40.08 ft BTOC
Water Level: 33.89 ft BTOC

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (Ft - Ft) x gal/ft = Gal
Calculated Well Volume: Gallons
Well Diameter: inches

Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type):
Flow rate (incl. units):

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	~~Comments~~

Depth of ~~water~~ water exceeds Peristaltic Capabilities. This will be a grab sample.

* See grab sheet

Results At End Of Purging:

COMMENTS: ~~* Notes is boring - very slow recharge / tight clay.~~

12/15

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: ~~AF Plant 6~~ Dobbins ARB
Site: Building 746 (Hangar) AFFF AREAS
Date: 12/7/17
Sample Technician: A. Willis / J. MESHEW
Well ID No.: DOBNS05-003

Initial Measurements

12/7/17 → Drilled 10' deeper WL 35.93

Well Total Depth: 39.98 ~~35.1~~ ft BTOC		Water Level: DRY ft BTOC	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACITY			
(only fill out if applicable) = (Ft - Ft) x gal/ft = Gal			
Calculated Well Volume: Gallons		Well Diameter: inches	
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): ______
Flow rate (incl. units): ______

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments

Depth of water exceeds Peristaltic capabilities. This will be converted to a grab.

* see grab sheet

Results At End Of Purging:

COMMENTS: * notes on boring log say well was dry when installed geologist called water at 29.0', pushed to 35' 30-35' was as reported as "wet to saturated"

12/15

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: Current Fire Station (Building 745) AFFF 6
Date: 12/7/17
Sample Technician: A. Willis, J Mayhew
Well ID No.: DOBNS06-002

Initial Measurements

Well Total Depth: 40.0 ft BTOC		Water Level: 29.42 ft BTOC	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACIT (only fill out if applicable) = (Ft - Ft) x gal/ft = Gal			
Calculated Well Volume: Gallons		Well Diameter: inches	
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type):

Flow rate (incl. units):

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
Results At End Of Purging:										

Depth of water exceeds Peristaltic Capabilities

Sample converted to

GRAB

See grab sheet

COMMENTS:

12/15

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: AF Plant 6
Site: Current Fire Station (Building 7451) AFFF Area 6
Date: 12/7/17
Sample Technician: A. Willis, J. Meshew
Well ID No.: DOBNSU6-003

Initial Measurements

Well Total Depth: 37.63 ft BTOC Water Level: 32.38 ft BTOC
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACIT
(only fill out if applicable) = (Ft - Ft) x gal/ft = Gal
Calculated Well Volume: Gallons Well Diameter: inches
Calculations: 1" diameter = 0.041 gal/ft 2" diameter = 0.163 gal/ft 4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type):
Flow rate (incl. units):

Time	Flow rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
Results At End Of Purging:										

Due to depth of water, Peristaltic Could not be used. Sample Converted to a grab. See grab Sheet

COMMENTS: ~~Notes on boring log says well was dry when installed~~ AW

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: AF Plant 6
Site: C-5A GALAXY FIRE (AFFF 7)
Date: 12/3/17
Sample Technician: A.Willis
Well ID No.: DOBNS07-0041

Initial Measurements

Well Total Depth: 25.08 ft BTOC
Water Level: 16.57 ft BTOC
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (25.08 Ft -16.57 Ft) x 0.041 gal/ft = 0.35 Gal
Calculated Well Volume: 0.35 Gallons
Well Diameter: 1.0" inches
Calculations: 1" diameter = 0.041 gal/ft | 2" diameter = 0.163 gal/ft | 4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): Peristaltic
Flow rate (incl. units): 600 ml/min

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
1224	600	–	–	–	–	*	–	–	–	Development initiated
1230	600	816	20.1	0.125	5.05		5.66	234.5	0.95	
1234	600	54.2	20.1	0.126	5.00		4.32	233.0	1.58	
1236	600	19.6	20.1	0.127	5.00		4.37	234.2	1.98	5< well Volumes
1238	600	10.1	20.1	0.129	4.98		4.37	235.9	2.38	Developed
Results At End Of Purging:		10.1	20.1	0.129	4.98	*	4.37	235.9	2.38	

COMMENTS: * Due to size of well, both tubing and WLM could not fit – no WL data recorded during development

Developed after purging 5< Well volumes w/ stable parameters.

12/7/17

AerostarSES

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: C-5A Galaxy Fire (AFFF 7)
Date: 12/3/17
Sample Technician: A. Willis
Well ID No.: DOBNS07-004

Initial Measurements

Well Total Depth: 36.04 ft BTOC		Water Level: 20.05 ft BTOC	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACIT (only fill out if applicable) = (30.04 Ft - 20.05 Ft) x 0.041 gal/ft = 0.41 Gal			
Calculated Well Volume: 0.41 Gallons		Well Diameter: 1.0 inches	
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): Peristaltic
Flow rate (incl. units): 500 ml/min

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
1440	500	—	—	—	—	*	—	—	—	Development initiated
1448	500	174	19.9	0.019	4.81		6.77	358.3	1.06	
1450	500	33.7	19.7	0.019	5.00		6.47	333.3	1.32	
1452	500	16.0	19.6	0.017	5.01		6.46	325.3	1.58	
1456	500	15.8	19.5	0.017	5.00		6.45	325.1	2.10	5 < well volume- Develop

AW

Results At End Of Purging:	15.8	19.5	0.018	5.00	*	6.45	325.1	2.10

COMMENTS: * Due to size of well, both tubing and WLM could not fit - no WL data recorded during development

12/7/17

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: AF Plant 6
Site: C-5A GALAXY FIRE (AFFF AREA 7)
Date: 12/2/17
Sample Technician: A. Willis
Well ID No.: DOBN507-005

Initial Measurements

Well Total Depth: 30.0 ft BTOC		Water Level: 20.01 ft BTOC	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (30.0 Ft - 20.01 Ft) x 0.041 gal/ft = 0.41 Gal			
Calculated Well Volume: 0.41 Gallons		Well Diameter: 1.0 inches	
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): Peristaltic
Flow rate (incl. units): 600 ml/min

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
1640	600	—	—	—	—	*	—	—	—	Development initiated
1645	600	926	19.7	0.078	6.36		4.45	285.1	0.79	
1650	600	137	19.7	0.039	6.72		2.00	174.9	1.58	
1655	600	110	19.7	0.035	5.52		2.52	147.5	2.37	5< Well Volumes
1700	600	51.2	19.7	0.032	5.50		2.60	142.9	3.16	
1705	600	13.2	19.6	0.031	5.51		2.63	149.2	3.95	Developed
Results At End Of Purging:		13.2	19.6	0.031	5.51	*	2.63	149.2	3.95	

COMMENTS: * Due to size of well, both tubing and WLM could not fit in well - no WL data during development.

12/7/17

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: ~~AF Plant 6~~ @ Dobbins ARB
Site: C-5A Galaxy FIRE (AFFF 7)
Date: 12/3/17
Sample Technician: A. Willis
Well ID No.: DOBNS07-008

Initial Measurements

Well Total Depth: 31.0 ft BTOC		Water Level: 25.48' ft BTOC	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACITY			
(only fill out if applicable) = (31.0 Ft - 25.48 Ft) x 0.041 gal/ft = 0.22 Gal			
Calculated Well Volume: 0.22 Gallons		Well Diameter: 1.0 inches	
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): Peristaltic
Flow rate (incl. units): 600ml/min

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
1014	600	—	—	—	—	X	—	—	—	Development initiated
1022	600	180	18.9	0.024	4.65		3.50	260.9	1.27	5 < well volumes
1028	600	57.8	18.9	0.022	4.79		4.71	258.9	2.22	
1032	600	3.24	18.9	0.022	4.69		4.78	273.5	2.85	Developed
Results At End Of Purging:		3.24	18.9	0.022	4.69	X	4.78	273.5	2.85	

COMMENTS: X Due to size of well, both tubing and WLM could not fit – no WL data recorded during development.

Developed after purging 5 < well volumes w/ stable parameters.

12/7/17

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: 08,
Date: 12/04/2017
Sample Technician: F. Johnson, Justin Voljak
Well ID No.: DOBN08-001

Initial Measurements

Well Total Depth: 32.25 ft BTOC		Water Level: 16.90 ft BTOC	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (32.25 Ft - 16.90Ft) x 0.02 gal/ft = 0.307 Gal			
Calculated Well Volume: 0.307 Gallons		Well Diameter: 0.75 inches	
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): PP
Flow rate (incl. units): 500 mL/min

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total ~~Gal~~ L Pumped	Comments
1528	500	OR						Pump	Started	
1533	500	117	17.5	0.021	6.27	~~2.99~~	2.99	151.0	2.5	
1538	500	15.4	17.5	0.020	5.37	N/A	2.38	147.2	5.0	
1543	500	5.84	17.5	0.019	5.30	↓	2.57	136.2	~~7.5~~ FJ 6.5	
1546	500	6.83	17.5	0.019	5.32	↓	2.53	128.6	8.0	
Results At End Of Purging:		6.83	17.5	0.019	5.32	N/A	2.53	128.6	8.0	

FJ

COMMENTS: 5 well volumes = ~~0.3~~ FJ 1.535 gallons = 5.81 L

12/7/17

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: Area 8
Date: 12/04/17
Sample Technician: J. Vojak, F. Johnson
Well ID No.: DOBNS08-002

Initial Measurements

Well Total Depth: ft BTOC		Water Level: ft BTOC	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (17.40 Ft - 8.09 Ft) x .02 gal/ft = ~~.02~~ 0.186 JV Gal			
Calculated Well Volume: 0.186 Gallons		Well Diameter: .75 inches	
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): PP
Flow rate (incl. units): 400mL/min / 0.106 gal/min

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
14:49	400 mL/min									
14:55	400 mL/min	22.7	20,4	,150	6,85	8,09	6,10	98,9	,636	
14:59	400 mL/min	27.0	20,4	,142	6,85	8,09	6,7	94,8	1,06	
15:02	400 mL/min	13,6	20,4	,136	6,86	8,09	6,94	93,4	1,378	
15:05	400 mL/min	18.0	20,3	,133	6,86	8,09	6,85	91,1	1,696	
15:08	400 mL/min	28.4	20,3	,131	6,76	8,09	6,76	94,2	2,014	

JV

Results At End Of Purging:	28,4	20,3	,131	6,76	8,09	6,76	94,2	2,014

COMMENTS: 5 well volumes = 0,93

12/07/17

AerostarSESLLC

WELL DEVELOPMENT LOG

500
5
2500

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: 08
Date: 12/05/2017
Sample Technician: F. Johnson, J. Vojak
Well ID No.: DOBN08-003

Initial Measurements

Well Total Depth: 15.08 ft BTOC | Water Level: 6.53 ft BTOC
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (15.08 Ft - 6.53 Ft) x 0.02 gal/ft = 0.171 Gal x 5 = 0.86 = 3.26L
Calculated Well Volume: 0.171 Gallons | Well Diameter: 0.75" inches

Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): PP
Flow rate (incl. units): 500 mL/min

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total ~~Gal~~ L Pumped	Comments
1405	500	O.R							Pump Started	
1410	500	~~18.6~~ OR	18.6	0.185	7.07	N/A	4.35	150.6	~~1.0~~ 2.5	
1415	500	O.R	18.6	0.155	6.95		4.43	98.8	~~2.0~~ 5.0	
1420	500	O.R	18.7	0.095	6.83		4.59	96.6	~~2~~ 7.5	
1423	500	O.R.	18.7	0.089	6.70		4.78	105.8	9.0	
1426	500	O.R.	18.6	0.081	6.66	↓	5.58	113.2	10.5	
Results At End Of Purging:		O.R.	18.6	0.081	6.66	N/A	5.58	113.2	10.5	

F.J

COMMENTS:

12/7/17

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)

ASL Project No: M2032.0001

Installation: Dobbins ARB

Site: 08

Date: 12/04/2017

Sample Technician: F. Johnson, J. Vojak

Well ID No.: DOBN08-004

Initial Measurements

Well Total Depth: 21.60 ft BTOC		Water Level: 14.23 ft BTOC	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACIT			
(only fill out if applicable) = (21.60 Ft - 14.23 Ft) x 0.02 gal/ft = 0.15 Gal x 5 = 0.73			
Calculated Well Volume: 0.15 Gallons		Well Diameter: 0.75 inches	
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): PP

Flow rate (incl. units): 700 mL/min

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total ~~Gal~~ Pumped L	Comments
1224	700	O.R.	19.1	0.056	5.77	N/A	4.51	222.3	Pump Started	
1229	700	15.2	19.1	0.057	5.79	↓	5.03	220.7	3.5	
1232	700	12.0	19.1	0.057	5.79		5.15	223.8	5.6	
1235	700	11.0	19.0	0.057	5.81		5.13	223.9	7.7	
1238	700	7.87	19.1	0.057	5.83		5.25	223.7	9.8	
Results At End Of Purging:		7.87	19.1	0.057	5.83		5.25	223.7	9.8	

COMMENTS:

12/7/17

AerostarSESLLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: L-188CF ELECTRA CRASH AND L-188CF ELECTRA CRASH ALTERNATE ST (AFFF 8)
Date: 12/4/16
Sample Technician: A.Wilki / J. Meshew
Well ID No.: DOBNS08-005

Initial Measurements

Well Total Depth: 20.06 ft BTOC		Water Level: 13.10' ft BTOC	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACIT			
(only fill out if applicable) = (20.06 Ft -13.10 Ft) x 0.041 gal/ft = 0.28 Gal			
Calculated Well Volume: 0.28 Gallons		Well Diameter: 1.0" inches	
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): Perist
Flow rate (incl. units): 600 ml/min

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
1056	600	—	—	—	—	*	—	—	—	Development initiated
1102	600	177	18.3	~~6.28~~ 0.024	5.74		6.28	343.9	0.95	
1104	600	9.56	18.4	0.023	5.72		6.20	330.2	1.27	
1108	600	7.44	18.4	0.023	5.71		6.25	321.6	1.59	5 < well volumes
Results At End Of Purging:		7.44	18.4	0.023	5.71	*	6.25	321.6	1.59	

COMMENTS: * Due to size of well, both tubing and WLM could not fit - no WL data recorded during development.

12/7/17

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: DOBNS08-006
Date: 12/04/17
Sample Technician: J. Vojak, F. Johnson
Well ID No.: DOBNS08-006

Initial Measurements

Well Total Depth: 20.07 ft BTOC		Water Level: ft BTOC	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (20.07 Ft - 9.46 Ft) x .02 gal/ft = 0.212 Gal			
Calculated Well Volume: 0.212 Gallons		Well Diameter: .75 inches	
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): PP
Flow rate (incl. units): 750

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
1304	750									
1310	750	13.8	18.4	.041	5.28	9.46	4.7	256.6	1.188	
1313	750	16.2	18.5	.040	5.11	9.46	5.55	266.1	1.782	
1316	750	8.43	18.5	.039	5.20	9.46	5.85	259.1	2.376	
1319	750	7.93	18.5	.039	5.18	9.46	5.95	261.9	2.97	
Results At End Of Purging:		7.93	18.5	.039	5.18	9.46	5.95	261.9	2.97	

0.198 gal/m

COMMENTS: 5 well volumes = 1.066

12/7/17

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: L-100-20 Hercules Crash (AFFF (AREA 9))
Date: 12/12/17
Sample Technician: AWillis
Well ID No.: DOBNS09-001

Initial Measurements

Well Total Depth: ft BTOC	Water Level: DRY ft BTOC
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACITY	
(only fill out if applicable) = (Ft - Ft) x gal/ft = Gal	
Calculated Well Volume: Gallons	Well Diameter: inches

Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): ____________ Flow rate (incl. units): ____________

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
Results At End Of Purging:										

COMMENTS:

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: L-100-20 Hercules Crash (AFFF AREA 9)
Date: 12/12/17
Sample Technician: A. Willis
Well ID No.: DOBNS09-002

Initial Measurements

Well Total Depth: 45.55 ft BTOC | Water Level: 42.11 ft BTOC

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (Ft - Ft) x gal/ft = Gal

Calculated Well Volume: Gallons | Well Diameter: inches

Calculations: 1" diameter = 0.041 gal/ft | 2" diameter = 0.163 gal/ft | 4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type):
Flow rate (incl. units):

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
			Check valve							
				no Development						
Results At End Of Purging:										

COMMENTS:

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: L-100-20 Hercules Crash (AFFF Area 9)
Date: 12/12/17
Sample Technician: A Willis
Well ID No.: DOBNS09-003

Initial Measurements

Well Total Depth: 45.21 ft BTOC | Water Level: 38.73 ft BTOC

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH ~~BTOC~~ – STATIC DEPTH TO WATER) X WELL CAPACIT

(only fill out if applicable) = (Ft - Ft) x gal/ft = Gal

Calculated Well Volume: Gallons | Well Diameter: inches

Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type):
Flow rate (incl. units):

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
Results At End Of Purging:										

Check valve

no development

COMMENTS:

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: F-18 TIRE FIRE (AFFF 10)
Date: 11/30/17
Sample Technician: A.Willis / J. Weshew
Well ID No.: DOBNS10 - 0031

Initial Measurements

Well Total Depth: 25.07 ft BTOC		Water Level: 14.50 ft BTOC	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (25.07 Ft - 14.50 Ft) x 0.041 gal/ft = 0.43 Gal			
Calculated Well Volume: 0.43 Gallons		Well Diameter: 1.0 inches	
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): Peristaltic
Flow rate (incl. units): 600 ml/min

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
1653	600	—	—	—	—	*	—	—	—	Development initiated
1655	600	802	17.24	0.064	5.05		2.78	-44.3	0.32	
1658	600	30.7	17.07	0.040	5.10		2.00	-144.9	0.70	
1700	600	15.1	17.07	0.037	5.06		2.01	-140.7	1.12	
1702	600	5.49	17.05	0.036	5.04		2.00	-140.1	1.44	
1704	600	2.84	17.03	0.034	5.00		2.00	-141.2	1.76	
1706	600	2.41	17.03	0.034	5.01		2.00	-145.3	2.08	
1708	600	2.60	17.02	0.034	5.00		2.02	-147.3	2.4	5 < well volume Developed
Results At End Of Purging:		2.60	17.02	0.034	5.00	*	2.02	-147.3	2.4	

COMMENTS: * Due to size of well, both tubing and WLM could not fit - no WL data recorded during development

12/2/17

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: F-18 TIRE FIRE (AFFF AREA 10)
Date: 11/30/17
Sample Technician: A. Willis / J. McSHEW
Well ID No.: DOBNS10-002

Initial Measurements

Well Total Depth: 30.0' ft BTOC		Water Level: 20.72 ft BTOC	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACIT			
(only fill out if applicable) = (30.0 Ft - 20.72 Ft) x 0.041 gal/ft = 0.38 Gal			
Calculated Well Volume: 0.38 Gallons		Well Diameter: 1.0 inches	
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): Peristaltic
Flow rate (incl. units): 600 ml/min

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
1718	600	—	—	—	—	*	—	—	—	Development initiated
1722	600	Overrange	18.83	0.062	5.46		2.43	-270.5	0.63	
1726	600	Overrange	18.50	0.061	5.48		1.28	-352.7	1.26	
1730	600	551	18.42	0.060	5.50		1.25	-365.7	1.89	
1732	600	251	18.40	0.059	5.52		1.24	-359.2	2.21	5< well volumes
1734	600	155	18.39	0.059	5.53		1.25	-355.1	2.53	
1736	600	149	18.38	0.059	5.50		1.30	-354.2	2.85	Developed
Results At End Of Purging:		149	18.38	0.059	5.50	*	1.30	~~-354.0~~ 354.2	2.85	

COMMENTS: * Due to size of well, both tubing and WLM could not fit – no WL data recorded during development

12/2/17

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)

ASL Project No: M2032.0001

Installation: Dobbins ARB

Site: E18 FIRE TIRE (AFFF AREA 10)

Date: 11/30/17

Sample Technician: A. Willis

Well ID No.: DOBNS10-003

Initial Measurements

Well Total Depth: 23.23 ft BTOC		Water Level: 17.15 ft BTOC	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACITY			
(only fill out if applicable) = ⑨ (23.23 Ft - 17.15 Ft) x 0.041 gal/ft = 0.45 Gal			
Calculated Well Volume: 0.0445 Gallons		Well Diameter: 1.0" inches	
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): Peristaltic

Flow rate (incl. units): 700 ml/min

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
1422	700	—	—	—	—	*	—	—	—	Development initiated
1427	700	32.6	19.84	0.041	5.50		2.30	19.9	0.93	
1430 ~~1500~~	700	29.6	19.82	0.041	5.11	↓	1.68	154.2	1.43	
1435	700	13.2	19.79	0.038	5.10		1.44	-291.0	2.35	5< well volumes/Developed
Results At End Of Purging:		13.2	19.79	0.838	5.10	*	1.44	-291.0	2.35	

COMMENTS: * Due to size of well, both tubing and WLM could not fit - no WL data recorded during development.

Developed after purging 5< well volume with stable parameter and NTUs ≯10.

12/2/17

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: E-2 TIRE FIRE (AFFF 11)
Date: 11/30/17
Sample Technician: A. Willis, J. Meshew
Well ID No.: DOBNS 11-001

Initial Measurements

Well Total Depth: 39.0 ft BTOC		Water Level: 17.50 ft BTOC	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACIT			
(only fill out if applicable) = (39.0 Ft - 17.50 Ft) x 0.041 gal/ft = 0.74 Gal			
Calculated Well Volume: 0.84 Gallons		Well Diameter: 1.0 inches	
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): Peristaltic
Flow rate (incl. units): 600 ml/min

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
1620	600	—	—	—	—	*	—	—	—	Development initiated
1622	600	167	17.56	0.111	6.12		6.44	209.3	0.32	
1627	600	51.7	17.50	0.094	6.50		2.15	222.0	1.11	
1630	600	23.0	17.40	0.083	6.45		2.00	231.6	1.59	
1632	600	7.27	17.39	0.080	6.40		2.00	-219.7	1.91	
1636	600	8.15	17.38	0.079	6.38		1.70	-207.9	2.54	3 < well volume
Results At End Of Purging:		8.15	17.38	0.079	6.38	*	1.70	-207.9	2.54	

COMMENTS: * Due to size of well, both tubing and WLM could not fit - no WL data recorded during development

Developed after purging 3 < well volume w/ stable parameters.

12/02/17

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)

ASL Project No: M2032.0001

Installation: Dobbins ARB

Site: E-2 TIRE FIRE (AFFF AREA 11)

Date: 11/30/17

Sample Technician: A. Willis, J. Meshaw

Well ID No.: DOBNS11-002

Initial Measurements

Well Total Depth: 27.50 ft BTOC		Water Level: 15.45 ft BTOC	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACIT			
(only fill out if applicable) = (27.50 Ft - 15.45 Ft) x 0.041 gal/ft = 0.482 Gal			
Calculated Well Volume: 0.482 Gallons		Well Diameter: 1.0 inches	
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): Peristaltic

Flow rate (incl. units): 600 ml/min

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
1600	600	—	—	—	—	*	—	—	—	Development initiated
1602	600	546	17.59	0.049	5.12		3.57	-217.8	0.32	
1608	600	20.3	17.71	0.040	5.10		2.99	-200.9	1.27	
1610	600	12.6	17.71	0.039	5.11		2.97	-200.1	1.59	Developed
Results At End Of Purging:		12.6	17.71	0.039	5.11	*	2.97	-200.1	1.59	

COMMENTS: * Due to size of well, tubing and WLM could not both fit - no WL data recorded during development

AW 12/2/17

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: E-2 TIRE FIRE (AFFF AREA)
Date: 11/30/17
Sample Technician: A.Willis, J. Meshew
Well ID No.: DOBNSI1-003

Initial Measurements

Well Total Depth: 24.77 ft BTOC		Water Level: 16.55' ft BTOC	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACIT			
(only fill out if applicable) = (24.77 Ft - 16.55 Ft) x 0.041 gal/ft = 0.34 Gal			
Calculated Well Volume: 0.34 Gallons		Well Diameter: 1.0 inches	
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): Peristaltic
Flow rate (incl. units): 600 ml/min

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
1530	600	–	–	–	–	*	–	–	–	Development initiated
1532	600	828	17.92	0.069	8.53	~~2.28~~	2.30	15.0	0.32	
1535	600	120	17.67	0.049	8.52		2.53	6.3	0.79	
1540	600	55.8	17.64	0.043	8.53		2.40	11.8	1.58	
1542	600	54.5	17.64	0.040	8.53		2.39	18.2	1.90	5 < well volumes
1546	600	15.2	17.63	0.036	8.50		2.35	20.2	2.53	Developed
Results At End Of Purging:		15.2	17.63	0.036	8.50	*	2.35	20.2	2.53	

COMMENTS: * Due to size of well, both tubing and WLM could not fit - no WL Data recorded during development.

12/02/17

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: MOTOR POOL FACILITY (BUILDING 516) AFFF 12
Date: 12/15/17
Sample Technician: A·Willis
Well ID No.: DOBNS 12-601

Initial Measurements

Well Total Depth: ft BTOC	Water Level: ft BTOC	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACIT		
(only fill out if applicable) = (Ft - Ft) x gal/ft = Gal		
Calculated Well Volume: Gallons	Well Diameter: inches	
Calculations: 1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): ____________ Flow rate (incl. units): ____________

not enough water

Slow Recharge.

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond (mS/Cm)	pH	Depth to water (BTOC	DO (mg/l)	ORP	Total Gal Pumped	Comments
Results At End Of Purging:										

COMMENTS:

2/15

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: MOTOR POOL FACILITY (Building 516) AFFF 12
Date: 12/14/17
Sample Technician: A Willis
Well ID No.: DDBN12-002

Initial Measurements

Well Total Depth: ft BTOC		Water Level: DRY ft BTOC	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACITY			
(only fill out if applicable) = (Ft - Ft) x gal/ft = Gal			
Calculated Well Volume: Gallons		Well Diameter: inches	
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type):
Flow rate (incl. units):

DRY

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond (mS/cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
Results At End Of Purging:										

COMMENTS:

AerostarSESLLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: MOTOR POOL FACILITY (BUILDING 516) AFFF 1Q
Date: 12/14/17
Sample Technician: A Willis
Well ID No.: DOBNS12-003

Initial Measurements

Well Total Depth: ft BTOC		Water Level: DRY ft BTOC	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACITY			
(only fill out if applicable) = (Ft - Ft) x gal/ft = Gal			
Calculated Well Volume: Gallons		Well Diameter: inches	
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type):
Flow rate (incl. units):

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
Results At End Of Purging:										

COMMENTS:

12/15

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: AFFF SPRAY TEST AREA (AFFF AREA 13)
Date: 12/14/17
Sample Technician: A Willis
Well ID No.: DOBNS13-001

Initial Measurements

Well Total Depth:	ft BTOC	Water Level: 43.45	ft BTOC
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACIT			
(only fill out if applicable) = (Ft - Ft) x gal/ft = Gal			
Calculated Well Volume: Gallons		Well Diameter: inches	
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): ______ Flow rate (incl. units): ______

Check valve

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
Results At End Of Purging:										

COMMENTS:

AerostarSESLLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: AFFF SPRAY TEST AREA (AFFF AREA 13)
Date: 12/14/17
Sample Technician: A. Willis
Well ID No.: DOBNS13-002

Initial Measurements

Well Total Depth: ft BTOC | Water Level: 36.87 ft BTOC

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACIT

(only fill out if applicable) = (Ft - Ft) x gal/ft = Gal

Calculated Well Volume: Gallons | Well Diameter: inches

Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): ____________ Flow rate (incl. units): ____________

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
		Check valve								
Results At End Of Purging:										

COMMENTS:

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: AFFF SPRAY TEST AREA (AFFF AREA 13)
Date: 12/14/17
Sample Technician: AWillJ
Well ID No.: DOBNS 13-003

Initial Measurements

Well Total Depth:	ft BTOC	Water Level: 43.68	ft BTOC
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACITY			
(only fill out if applicable) = (Ft - Ft) x gal/ft = Gal			
Calculated Well Volume: Gallons		Well Diameter: inches	
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): ____________ Flow rate (incl. units): ____________

Check Value

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
Results At End Of Purging:										

COMMENTS:

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)

ASL Project No: M2032.0001

Installation: Dobbins ARB

Site: AFFF SPRAY TEST AREA (AFFF AREA 13)

Date: 12/14/17

Sample Technician: A Wills

Well ID No.: DOBNS 13-004

Initial Measurements

Well Total Depth: ft BTOC	Water Level: 47.17 ft BTOC		
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACITY			
(only fill out if applicable) = (Ft - Ft) x gal/ft = Gal			
Calculated Well Volume: Gallons	Well Diameter: inches		
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type):

Flow rate (incl. units):

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
				Check						
				Valve						
Results At End Of Purging:										

COMMENTS:

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: BIG LAKE (OT-04) (AFFF AREA 14)
Date: 12/01/17
Sample Technician: A.willis / J. Meshew
Well ID No.: DOBNS14-001

Initial Measurements

Well Total Depth: 17.13 ft BTOC		Water Level: 8.61 ft BTOC	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (17.13 Ft - 8.61 Ft) x 0.041 gal/ft = 0.36 Gal			
Calculated Well Volume: 0.36 Gallons		Well Diameter: 1.0 inches	
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): Peristaltic
Flow rate (incl. units): 1000 ml/min

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
1520	1000	—	—	—	—	*	—	—	—	Development initiated
1535	1000	overrange	19.4	0.330	6.19		0.83	-32.4	0.53	Ran dry
1550	1000	235	19.1	0.315	6.17		0.98	-29.3	1.06	Ran dry
1605	1000	68.7	19.0	0.284	6.14		0.97	-26.7	1.59	Ran dry
1620	1000	55.2	19.0	0.269	6.14		0.97	-25.2	2.12	5 well volumes
Results At End Of Purging:		55.2	19.0	0.269	6.14	*	0.97	-25.2	2.12	

COMMENTS: 1520 - 1521 1000ml/min purged Ran dry
1535 - 1536 1000ml/min purged Ran dry
1550 - 1551 1000ml/min purged Ran dry

* Due to size of well, both tubing and W

12/2/17

AerostarSESLLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: BIG LAKE (OT-04) (AFFF AREA 14)
Date: 12/01/17
Sample Technician: A.Willis / J. MESHEW
Well ID No.: DOBNS14 - D3 - W24

Initial Measurements

Well Total Depth: 19.91 ft BTOC		Water Level: 10.76 ft BTOC	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACIT			
(only fill out if applicable) = (19.91 Ft - 10.76 Ft) x 0.163 gal/ft = 1.49 Gal			
Calculated Well Volume: 1.49 Gallons		Well Diameter: 2.0 inches	
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): Monsoon
Flow rate (incl. units): 3000 - 5000 ml/min

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
1230	5000	—	—	—	—	10.82	—	—	—	Development initiated
1232	5000	385	19.6	0.047	4.33	11.18	0.50	233.5	2.64	
1236	5000	51.7	19.6	0.077	4.64	11.24	2.16	138.5	7.92	5 < well volumes
1240	5000	6.38	19.5	0.091	4.79	11.26	1.07	105.9	13.2	
1242	3000	12.4	19.5	0.094	4.91	11.26	1.00	92.9	14.79	
1249 ~~1045~~ Ⓟ	3000	1.74	19.5	0.098	4.95	11.31	0.79	86.7	17.18	Developed
Results At End Of Purging:		1.74	19.5	0.098	4.95	11.31	0.79	86.7	17.18	

COMMENTS:

Developed after purging 5 < well volumes and stable parameters.

12/2/17

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: SPILL POND 3 (AFFF 15)
Date: 12/11/17
Sample Technician: A. Willis
Well ID No.: DOBNS15-001

Initial Measurements

Well Total Depth: 13.33 ft BTOC		Water Level: 5.94 ft BTOC	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACITY			
(only fill out if applicable) = (13.33 Ft - 5.94 Ft) x 0.041 gal/ft = 0.22 Gal			
Calculated Well Volume: 0.22 Gallons		Well Diameter: 1.0 inches	
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): Peristaltic
Flow rate (incl. units): 400 mL/min

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total Gal Pumped	Comments
0914	400	Overrange	—	—	—	x	—	—	—	Development initiated
0920	400	Overrange	17.5	0.095	5.83		3.34	29.9	0.63	
0924	400	overrange	16.7	0.082	6.28		2.91	42.5	1.26	5 < well volume
0930	400	Overrange	16.4	0.077	~~4.45~~ 4.52		3.98	62.2	1.89	
0936	400	386	16.7	0.074	6.02		4.12	75.5	2.52	
0938	400	98.9	16.9	0.072	7.17		4.20	80.2	2.73	
0942	400	100.0	16.8	0.070	7.00		4.21	82.3	2.94	
0944	400	34.4	16.8	0.070	7.01		4.19	88.5	3.154	
0946	400	15.8	16.7	0.069	7.02		3.83	87.5	4.02	Developed
Results At End Of Purging:		15.8	16.7	0.069	7.02	x	3.83	87.5	4.02	

COMMENTS: *Due to size of well, both tubing and WLM could not fit – no WL data recorded during development.

Clay in screen area

Developed after purging 5 well volumes w/ stable parameters

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)

ASL Project No: M2032.0001

Installation: Dobbins ARB

Site: 15, Spill Pond 3

Date: 12/11/2017

Sample Technician: F. Johnson

Well ID No.: DOBNS15-002

Initial Measurements

Well Total Depth: 12,92 ft BTOC		Water Level: 3,79 ft BTOC	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACITY			
(only fill out if applicable) = (12,92 Ft - 3,79 Ft) x 0.02 gal/ft = 0.18 Gal			
Calculated Well Volume: 0.18 Gallons		Well Diameter: 0.75 inches	
Calculations:	1" diameter = 0.041 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft
	0.75" = 0,20 gal/ft		

Well Purging Activites

Purging Method (pump type): PP

Flow rate (incl. units): 600 mL/min

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total ~~Gal~~ L Pumped	Comments
1030	600	O.R.	- Pump	Started						
1035	600	O.R	16,4	0.445	10,96	N/A	2,13	-75,9	3,0 L	
1040	600	179	17.2	0,397	11,17		1,81	-78.6	6.0 L	
1045	600	116	17.4	0,391	11,37		1,38	-72,0	9,0 L	
1050	600	68,7	17,5	0,391	11,51		1,15	-67,5	12,0 L	
Results At End Of Purging:		68,7	17,5	0,391	11,51		1,15	-67,5	12,0 L	

F.J.

COMMENTS: 5 well volumes = 0.9 gallons = 3.41 L

12.0 L purged = 3.17 gallons

pH reading is suspect due to sensor issues on YSI.

12/21/17

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: 15, Spill Pond 3
Date: 12/11/2017
Sample Technician: F. Johnson
Well ID No.: DOBNS15-003

Initial Measurements

Well Total Depth: 14.24 ft BTOC		Water Level: 5.48 ft BTOC	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (14.24 Ft - 5.48 Ft) x 0.02 gal/ft = 0.18 Gal			
Calculated Well Volume: 0.18 Gallons		Well Diameter: 0.75 inches	
Calculations:	1" diameter = 0.041 gal/ft 0.75" = 0.02 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): PP
Flow rate (incl. units): 600 mL/min

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total ~~Gal~~ L Pumped	Comments
1120	600	O.R.	— Pump Started —							
1125	600	578	18.5	0.329	6.14	N/A	1.15	2.8	3.0L	
1130	600	850	18.7	0.327	6.29		1.00	-5.1	6.0L	
1135	600	470	18.7	0.388	6.04		0.98	-85.3	9.0L	
1145	600	396	18.8	0.276	6.39		0.40	-91.2	15.0L	
Results At End Of Purging:		396	18.8	0.276	6.39	N/A	0.40	-91.2	15.0L 3.96 Gallons	

FJ

COMMENTS: 5 well volumes = 0.9 gallons = 3.41 L

12/20/17

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: 16
Date: 12/11/2017
Sample Technician: F, Johnson
Well ID No.: DOBNS16-001

Initial Measurements

Well Total Depth: 15.11 ft BTOC		Water Level: 10.32 ft BTOC	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACIT (only fill out if applicable) = (15.11 Ft - 10.32 Ft) x 0.02 gal/ft = 0.096 Gal			
Calculated Well Volume: 0.096 Gallons		Well Diameter: 0.75" inches	
Calculations:	1" diameter = 0.041 gal/ft 0.75" = 0.02 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): PP
Flow rate (incl. units): 600 mL/min

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total ~~Gal~~ L Pumped	Comments
1215	600	O.R.	Pump started							
1220	600	430	17.6	0.017	5.88	N/A	6.49	66.7	3.0L	
1225	600	429	17.5	0.020	5.75		6.96	83.8	6.0L	
1230	600	21.2	17.7	0.023	5.72		7.92	97.0	9.0L	
1235	600	12.6	18.1	0.025	5.67		8.33	106.9	12.0L	
1238	600	8.88	18.0	0.026	5.66	↓	6.25	110.3	13.8L	
Results At End Of Purging:		8.88	18.0	0.026	5.66	N/A	6.25	110.3	13.8L	

FJ

COMMENTS: 5 well volumes = 0.48 gallons =

12/20/17

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: 16
Date: 12/11/2017
Sample Technician: F. Johnson
Well ID No.: DOBNS16-002

Initial Measurements

Well Total Depth: 19.19 ft BTOC		Water Level: 5.74 ft BTOC	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (19.19 Ft - 5.74 Ft) x 0.02 gal/ft = 0.27 Gal			
Calculated Well Volume: 0.27 Gallons		Well Diameter: 0.75 inches	
Calculations:	1" diameter = 0.041 gal/ft 0.75" = 0.02 gal/ft	2" diameter = 0.163 gal/ft	4" diameter = 0.653 gal/ft

Well Purging Activites

Purging Method (pump type): PP
Flow rate (incl. units): 400 mL/min

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total ~~Gal~~ L Pumped	Comments
1350	400	O.R.	— PUMP	STARTED	—	—	—	—	—	
1355	400	130	18.5	0.061	5.99	N/A	0.71	-83.8	2.0 L	
1400	400	39.6	18.5	0.051	5.77	↓	0.36	-89.5	4.0 L	
1403	400	19.0	18.6	0.043	5.68	↓	0.25	-94.5	5.2 L	
1406	400	9.10	18.6	0.042	5.67	↓	0.24	-91.5	6.4 L	
			FJ							
Results At End Of Purging:		9.10	18.6	0.042	5.67	N/A	0.24	-91.5	6.4 L	

COMMENTS: 5 well volumes = 1.35 gallons = 5.11 L

12/20/17

AerostarSES LLC

WELL DEVELOPMENT LOG

Project Name: SI of AFFF Areas (Savannah)
ASL Project No: M2032.0001
Installation: Dobbins ARB
Site: 16,
Date: 12/11/2017
Sample Technician: F. Johnson
Well ID No.: DOBNS16-003

Initial Measurements

Well Total Depth: 24.53 ft BTOC | Water Level: 5.69 ft BTOC
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH BTOC – STATIC DEPTH TO WATER) X WELL CAPACIT
(only fill out if applicable) = (24.53 Ft - 5.69 Ft) x 0.02 gal/ft = 0.377 Gal
Calculated Well Volume: 0.337 Gallons | Well Diameter: 0.75 inches
Calculations: 1" diameter = 0.041 gal/ft | 2" diameter = 0.163 gal/ft | 4" diameter = 0.653 gal/ft
0.75" = 0.02 gal/ft

Well Purging Activites

Purging Method (pump type): PP
Flow rate (incl. units): 400 mL/min

Time	Flow Rate (ml/min)	Turbidity (NTUs)	Temp (°C)	Cond. (mS/Cm)	pH	Depth to water (BTOC)	DO (mg/l)	ORP	Total ~~Gal~~ L Pumped	Comments
1300	400	O.R.	Pump Started							
1305	400	65.8	18.9	0.092	6.34	N/A	1.24	-24.6	2.0 L	
1310	400	87.5	19.0	0.092	6.34		1.32	-40.0	4.0L	
1315	400	14.0	19.3	0.093	6.34		1.48	-67.3	6.0 L	
1320	400	14.3	19.4	0.093	6.34		1.50	-78.8	8.0L	
1325	400	15.4	19.3	0.092	6.34		1.57	-81.8	10.0L	
			FJ							
Results At End Of Purging:		15.4	19.3	0.092	6.34		1.57	-81.8	10.0L 2.64 gallons	

COMMENTS: 5 well volumes = 1.69 gallons = 6.4 L

12/20/17

Appendix D

Laboratory Case Narratives

Data Validation Report

and

Analytical Data Sheets

DATA VALIDATION REPORT

M2032.0001 (Savannah) Dobbins AFB

SAMPLE DELIVERY GROUP: B7R2776, B7R6297, B7S5172, B7S5409, B808850

Prepared for

Aerostar SES LLC

January 29, 2018

MEC^X, Inc.
8864 Interchange Drive
Houston, Texas 77054

www.mecx.net

TABLE OF CONTENTS

ACRONYMS AND ABBREVIATIONS iii

I. INTRODUCTION 1

II. Sample Management 10

III. Method Analysis- Perfluorinated Compounds by Modified EPA Method 537 Modified 14
  III.1. Holding Times 14
  III.2. Calibration 14
    III.2.1. Initial Calibration 14
    III.2.2. Continuing Calibration 14
  III.3. Quality Control Samples 15
    III.3.1. Method Blanks 15
    III.3.2. Laboratory Control Samples 15
    III.3.3. Matrix Spike/Matrix Spike Duplicate 15
  III.4. Field QC Samples 16
    III.4.1. Field Blanks and Equipment Blanks 16
    III.4.2. Field Duplicates 17
  III.5. Internal Standards Performance 20
  III.6. Compound Identification 21
  III.7. Compound Quantification and Reported Detection Limits 21
  III.8. System Performance 22

IV. Summary and Conclusions 23
  IV.1. Precision 23
  IV.2. Accuracy 23
  IV.3. Representativeness 23
  IV.4. Comparability 23
  IV.5. Completeness 23

V. References 24

TABLES

1 – Sample Identification

2 – Data Qualifier Reference

3 – Reason Code Reference

4 – FB/EB Detects

5 – FD RPDs

6 – Injection Internal Standards

ACRONYMS AND ABBREVIATIONS

°C	Celsius
%	Percent
%D	percent difference
B	blank contamination
CB	calibration blank
CCAL	continuing calibration
CCB	continuing calibration blank
CCV	continuing calibration verification
COC	chain of custody
CLP	Contract Laboratory Program
EPA	US Environmental Protection Agency
ER	equipment rinsate
FB	field blank
FD	field duplicate
ICAL	initial calibration
ICB	initial calibration blank
ICL	instrument calibration limit
ICV	initial calibration verification
IS	internal standard
J	estimated value
LCS	laboratory control sample
LOD	limit of detection
LOQ	limit of quantification
MB	method blank
MDL	method detection limit
MS	matrix spike
MSD	matrix spike duplicate
ND	nondetect
PARCC	precision, accuracy, representativeness, comparability, completeness
PFC	perfluorinated compound
QAPP	Quality Assurance Program Plan
QC	quality control
QSM	Quality Systems Manual
R	Rejected
RL	reporting limit
RPD	relative percent difference
RRF	relative response factor
RSD	relative standard deviation
SDG	sample delivery group
TB	trip blank
U	not detected
UJ	not detected; associated value is an estimate

I. INTRODUCTION

Task Order Title: M2032.0001 (Savannah) Dobbins AFB

Contract: W9128F-15-D-0051

MEC^X Project No.: 1529.001H.01

Sample Delivery Group: B7R2776, B7R6297, B7S5172, B7S5409, B808850

Project Manager: Jenny Vance

Matrix: Soil/Water

QC Level: Stage 2B, Stage 4

No. of Samples: 223

Laboratory: Maxxam

TABLE 1 - SAMPLE IDENTIFICATION

Sample Name	Lab Sample Name	Matrix	Collection	Method	Validation Level
DOBNS01-004-SS-001	FRH286	SO	2017-12-01 11:00	E537 m	Stage 2B
DOBNS01-004-SS-901	FRH287	SO	2017-12-01 11:00	E537 m	Stage 2B
DOBNS08-001-SO-026	FRH276	SO	2017-11-30 17:50	E537 m	Stage 2B
DOBNS08-001-SS-001	FRH275	SO	2017-11-30 17:05	E537 m	Stage 2B
DOBNS08-002-SO-010	FRH278	SO	2017-12-01 10:12	E537 m	Stage 2B
DOBNS08-002-SS-001	FRH277	SO	2017-12-01 09:28	E537 m	Stage 2B
DOBNS08-003-SO-005	FRH274	SO	2017-11-30 16:32	E537 m	Stage 2B
DOBNS08-003-SS-001	FRH273	SO	2017-11-30 15:30	E537 m	Stage 2B
DOBNS08-004-SO-014	FRH280	SO	2017-12-01 12:26	E537 m	Stage 2B
DOBNS08-004-SS-001	FRH279	SO	2017-12-01 11:27	E537 m	Stage 2B
DOBNS08-005-SO-011	FRH282	SO	2017-12-01 14:20	E537 m	Stage 2B
DOBNS08-005-SS-001	FRH281	SO	2017-12-01 12:55	E537 m	Stage 2B
DOBNS08-006-SO-014	FRH285	SO	2017-12-01 15:40	E537 m	Stage 2B
DOBNS08-006-SS-001	FRH284	SO	2017-12-01 14:50	E537 m	Stage 4
DOBNS10-001-SO-019	FRH266	SO	2017-11-30 10:56	E537 m	Stage 2B
DOBNS10-001-SS-001	FRH265	SO	2017-11-30 10:24	E537 m	Stage 2B
DOBNS10-002-SO-024	FRH271	SO	2017-11-30 14:40	E537 m	Stage 2B
DOBNS10-002-SO-924	FRH272	SO	2017-11-30 14:40	E537 m	Stage 2B

Sample Name	Lab Sample Name	Matrix	Collection	Method	Validation Level
DOBNS10-002-SS-001	FRH270	SO	2017-11-30 12:45	E537 m	Stage 2B
DOBNS10-003-SO-024	FRH268	SO	2017-11-30 12:55	E537 m	Stage 2B
DOBNS10-003-SS-001	FRH267	SO	2017-11-30 11:37	E537 m	Stage 2B
DOBNS11-001-SO-034	FRH264	SO	2017-11-30 09:18	E537 m	Stage 2B
DOBNS11-001-SS-001	FRH263	SO	2017-11-30 08:20	E537 m	Stage 2B
DOBNS11-002-SO-021	FRH307	SO	2017-11-29 15:12	E537 m	Stage 2B
DOBNS11-002-SS-001	FRH306	SO	2017-11-29 14:45	E537 m	Stage 2B
DOBNS11-003-SO-017	FRH309	SO	2017-11-29 16:00	E537 m	Stage 2B
DOBNS11-003-SS-001	FRH308	SO	2017-11-29 15:38	E537 m	Stage 4
DOBNS13-005-GW-053	FRH304	WG	2017-11-29 11:45	E537 m	Stage 2B
DOBNS13-005-GW-953	FRH305	WG	2017-11-29 11:45	E537 m	Stage 2B
DOBNS13-005-SO-051	FRH302	SO	2017-11-29 10:45	E537 m	Stage 2B
DOBNS13-005-SS-001	FRH301	SO	2017-11-29 09:35	E537 m	Stage 2B
DOBNS14-001-SO-016	FRH296	SO	2017-11-28 15:18	E537 m	Stage 2B
DOBNS14-001-SO-916	FRH297	SO	2017-11-28 15:18	E537 m	Stage 2B
DOBNS14-001-SS-001	FRH295	SO	2017-11-28 12:20	E537 m	Stage 4
DOBNS14-002-SD-001	FRH290	SE	2017-11-29 15:15	E537 m	Stage 2B
DOBNS14-002-SW-001	FRH288	WS	2017-11-29 15:15	E537 m	Stage 2B
DOBNS14-002-SW-901	FRH289	WS	2017-11-29 15:15	E537 m	Stage 2B
DOBNS14-003-SD-001	FRH299	SE	2017-11-28 16:30	E537 m	Stage 2B
DOBNS14-003-SW-001	FRH298	WS	2017-11-28 16:30	E537 m	Stage 2B
DOBNS15-004-SD-001	FRH294	SE	2017-11-29 16:15	E537 m	Stage 2B
DOBNS15-004-SW-001	FRH293	WS	2017-11-29 16:15	E537 m	Stage 4
DOBNS16-004-SD-001	FRH291	SE	2017-11-29 16:00	E537 m	Stage 4
DOBNS16-004-SW-001	FRH292	WS	2017-11-29 16:00	E537 m	Stage 2B
DOBNS-RS-001	FRH300	WQ	2017-11-28 16:20	E537 m	Stage 2B
DOBNS-RS-002	FRH303	WQ	2017-11-29 09:48	E537 m	Stage 2B
DOBNS-RS-003	FRH269	WQ	2017-11-30 14:00	E537 m	Stage 2B
DOBNS-RS-004	FRH283	WQ	2017-12-01 11:40	E537 m	Stage 2B

Sample Name	Lab Sample Name	Matrix	Collection	Method	Validation Level
DOBNS01-001-SO-024	FRZ753	SO	2017-12-02 08:18	E537 m	Stage 2B
DOBNS01-001-SS-001	FRZ751	SO	2017-12-02 07:45	E537 m	Stage 2B
DOBNS01-002-SO-029	FRZ758	SO	2017-12-02 09:40	E537 m	Stage 2B
DOBNS01-002-SS-001	FRZ756	SO	2017-12-02 09:12	E537 m	Stage 2B
DOBNS01-002-SS-901	FRZ757	SO	2017-12-02 09:12	E537 m	Stage 2B
DOBNS01-003-SO-024	FRZ755	SO	2017-12-02 08:55	E537 m	Stage 4
DOBNS01-003-SS-001	FRZ754	SO	2017-12-02 08:30	E537 m	Stage 2B
DOBNS05-001-SO-028	FRZ795	SO	2017-12-05 11:33	E537 m	Stage 2B
DOBNS05-001-SO-928	FRZ796	SO	2017-12-05 11:33	E537 m	Stage 2B
DOBNS05-001-SS-001	FRZ794	SO	2017-12-05 10:45	E537 m	Stage 2B
DOBNS05-002-SO-033	FRZ799	SO	2017-12-05 13:22	E537 m	Stage 2B
DOBNS05-002-SS-001	FRZ798	SO	2017-12-05 12:10	E537 m	Stage 2B
DOBNS05-003-SS-001	FRZ800	SO	2017-12-05 13:40	E537 m	Stage 2B
DOBNS06-001-GW-032	FRZ792	WG	2017-12-05 10:00	E537 m	Stage 2B
DOBNS06-001-GW-932	FRZ793	WG	2017-12-05 10:00	E537 m	Stage 2B
DOBNS06-001-SO-028	FRZ790	SO	2017-12-05 09:15	E537 m	Stage 2B
DOBNS06-001-SS-001	FRZ789	SO	2017-12-05 08:33	E537 m	Stage 2B
DOBNS06-002-SO-030	FRZ785	SO	2017-12-04 09:00	E537 m	Stage 2B
DOBNS06-002-SS-001	FRZ784	SO	2017-12-04 08:35	E537 m	Stage 2B
DOBNS06-003-SO-028	FRZ787	SO	2017-12-04 10:05	E537 m	Stage 2B
DOBNS06-003-SS-001	FRZ786	SO	2017-12-04 09:30	E537 m	Stage 2B
DOBNS07-001-GW-020	FRZ805	WG	2017-12-05 13:00	E537 m	Stage 2B
DOBNS07-001-SO-015	FRZ775	SO	2017-12-03 11:20	E537 m	Stage 2B
DOBNS07-001-SS-001	FRZ773	SO	2017-12-03 11:12	E537 m	Stage 2B
DOBNS07-001-SS-901	FRZ774	SO	2017-12-03 11:12	E537 m	Stage 2B
DOBNS07-002-GW-024	FRZ778	WG	2017-12-03 12:45	E537 m	Stage 4
DOBNS07-002-SO-018	FRZ777	SO	2017-12-03 12:35	E537 m	Stage 2B
DOBNS07-002-SS-001	FRZ776	SO	2017-12-03 12:22	E537 m	Stage 4
DOBNS07-003-GW-024	FRZ782	WG	2017-12-03 13:58	E537 m	Stage 2B

Sample Name	Lab Sample Name	Matrix	Collection	Method	Validation Level
DOBNS07-003-SO-020	FRZ781	SO	2017-12-03 13:50	E537 m	Stage 4
DOBNS07-003-SS-001	FRZ780	SO	2017-12-03 13:45	E537 m	Stage 2B
DOBNS07-004-GW-025	FRZ804	WG	2017-12-05 12:36	E537 m	Stage 2B
DOBNS07-004-SO-020	FRZ783	SO	2017-12-03 14:30	E537 m	Stage 2B
DOBNS07-004-SS-001	FRZ772	SO	2017-12-03 10:10	E537 m	Stage 2B
DOBNS07-005-GW-025	FRZ802	WG	2017-12-05 11:40	E537 m	Stage 2B
DOBNS07-005-SO-024	FRZ762	SO	2017-12-02 13:45	E537 m	Stage 2B
DOBNS07-005-SS-001	FRZ761	SO	2017-12-02 13:30	E537 m	Stage 2B
DOBNS07-006-GW-025	FRZ765	WG	2017-12-02 15:00	E537 m	Stage 2B
DOBNS07-006-SO-020	FRZ764	SO	2017-12-02 14:40	E537 m	Stage 2B
DOBNS07-006-SS-001	FRZ763	SO	2017-12-02 14:27	E537 m	Stage 2B
DOBNS07-007-GW-029	FRZ768	WG	2017-12-03 08:50	E537 m	Stage 2B
DOBNS07-007-SO-019	FRZ767	SO	2017-12-02 17:07	E537 m	Stage 2B
DOBNS07-007-SS-001	FRZ766	SO	2017-12-02 15:50	E537 m	Stage 2B
DOBNS07-008-GW-029	FRZ803	WG	2017-12-05 12:04	E537 m	Stage 2B
DOBNS07-008-SO-025	FRZ770	SO	2017-12-03 09:35	E537 m	Stage 2B
DOBNS07-008-SO-925	FRZ771	SO	2017-12-03 09:35	E537 m	Stage 2B
DOBNS07-008-SS-001	FRZ769	SO	2017-12-03 09:15	E537 m	Stage 2B
DOBNS10-002-GW-025	FRZ788	WG	2017-12-04 17:15	E537 m	Stage 2B
DOBNS13-004-SO-051	FRZ760	SO	2017-12-02 11:30	E537 m	Stage 2B
DOBNS13-004-SS-001	FRZ759	SO	2017-12-02 10:40	E537 m	Stage 2B
DOBNS-RS-005	FRZ752	WQ	2017-12-02 08:00	E537 m	Stage 2B
DOBNS-RS-006	FRZ779	WQ	2017-12-03 12:30	E537 m	Stage 2B
DOBNS-RS-007	FRZ791	WQ	2017-12-04 17:10	E537 m	Stage 2B
DOBNS-RS-008	FRZ797	WQ	2017-12-05 12:02	E537 m	Stage 2B
DOBNS01-D2-W7-GW-023	FTW409	WG	2017-12-15 13:28	E537 m	Stage 2B
DOBNS02-D3-W25-GW-020	FTW407	WG	2017-12-15 09:44	E537 m	Stage 2B
DOBNS02-D3-W32-GW-012	FTW408	WG	2017-12-15 11:18	E537 m	Stage 2B
DOBNS02-D3-W3-GW-035	FTW406	WG	2017-12-15 08:58	E537 m	Stage 4

Sample Name	Lab Sample Name	Matrix	Collection	Method	Validation Level
DOBNS-RS-017	FTW405	WQ	2017-12-15 08:26	E537 m	Stage 2B
DOBNS01-D2-W23-GW-014	FXE170	WG	2018-01-10 09:44	E537 m	Stage 4
DOBNS14-OT004-MW04-GW-018	FXE171	WG	2018-01-10 13:45	E537 m	Stage 2B
DOBNS14-OT004-MW04-GW-918	FXE172	WG	2018-01-10 13:45	E537 m	Stage 2B
DOBNS-RS-A01	FXE169	WQ	2018-01-10 08:55	E537 m	Stage 2B
DOBNS01-001-GW-025	FTT969	WG	2017-12-11 12:56	E537 m	Stage 2B
DOBNS01-002-GW-030	FTT968	WG	2017-12-11 12:20	E537 m	Stage 2B
DOBNS01-003-GW-025	FTT970	WG	2017-12-11 15:54	E537 m	Stage 4
DOBNS02-001-SO-010	FTT926	SO	2017-12-06 12:35	E537 m	Stage 2B
DOBNS02-001-SO-910	FTT927	SO	2017-12-06 12:35	E537 m	Stage 2B
DOBNS02-001-SS-001	FTT925	SO	2017-12-06 11:00	E537 m	Stage 4
DOBNS02-002-GW-039	FTT923	WG	2017-12-06 10:22	E537 m	Stage 2B
DOBNS02-002-SO-036	FTT924	SO	2017-12-06 10:40	E537 m	Stage 2B
DOBNS02-002-SS-001	FTT922	SO	2017-12-06 09:00	E537 m	Stage 2B
DOBNS02-003-SO-005	FTT928	SO	2017-12-06 13:55	E537 m	Stage 2B
DOBNS02-003-SS-001	FTT921	SO	2017-12-05 16:20	E537 m	Stage 2B
DOBNS02-D3-W4-GW-013	FTT966	WG	2017-12-10 12:02	E537 m	Stage 2B
DOBNS03-001-GW-019	FTT918	WG	2017-12-14 10:48	E537 m	Stage 2B
DOBNS03-001-SO-020	FTT884	SO	2017-12-10 11:08	E537 m	Stage 2B
DOBNS03-001-SS-001	FTT882	SO	2017-12-10 09:45	E537 m	Stage 2B
DOBNS03-002-SO-024	FTT886	SO	2017-12-10 13:55	E537 m	Stage 2B
DOBNS03-002-SS-001	FTT885	SO	2017-12-10 11:40	E537 m	Stage 2B
DOBNS03-003-SO-015	FTT888	SO	2017-12-10 15:35	E537 m	Stage 2B
DOBNS03-003-SS-001	FTT887	SO	2017-12-10 14:45	E537 m	Stage 2B
DOBNS03-004-SO-020	FTT905	SO	2017-12-12 09:30	E537 m	Stage 2B
DOBNS03-004-SS-001	FTT904	SO	2017-12-12 08:30	E537 m	Stage 4
DOBNS04-001-GW-030	FTT917	WG	2017-12-14 09:42	E537 m	Stage 2B

Sample Name	Lab Sample Name	Matrix	Collection	Method	Validation Level
DOBNS04-001-SO-028	FTT990	SO	2017-12-06 17:40	E537 m	Stage 2B
DOBNS04-001-SS-001	FTT988	SO	2017-12-06 16:15	E537 m	Stage 2B
DOBNS04-001-SS-901	FTT989	SO	2017-12-06 16:15	E537 m	Stage 2B
DOBNS04-002-GW-034	FTT971	WG	2017-12-12 12:00	E537 m	Stage 2B
DOBNS04-002-SO-030	FTT994	SO	2017-12-07 10:55	E537 m	Stage 2B
DOBNS04-002-SS-001	FTT993	SO	2017-12-07 09:45	E537 m	Stage 2B
DOBNS04-003-GW-015	FTT987	WG	2017-12-13 17:25	E537 m	Stage 2B
DOBNS04-003-SO-026	FTT992	SO	2017-12-06 15:45	E537 m	Stage 2B
DOBNS04-003-SS-001	FTT991	SO	2017-12-06 15:10	E537 m	Stage 4
DOBNS05-001-GW-034	FTT945	WG	2017-12-08 11:25	E537 m	Stage 2B
DOBNS05-002-GW-038	FTT962	WG	2017-12-08 12:05	E537 m	Stage 2B
DOBNS05-002-GW-938	FTT963	WG	2017-12-08 12:05	E537 m	Stage 2B
DOBNS05-003-GW-038	FTT946	WG	2017-12-08 11:40	E537 m	Stage 2B
DOBNS05-003-SO-035	FTT954	SO	2017-12-07 17:10	E537 m	Stage 2B
DOBNS06-002-GW-038	FTT964	WG	2017-12-08 12:25	E537 m	Stage 2B
DOBNS06-003-GW-036	FTT965	WG	2017-12-08 12:36	E537 m	Stage 2B
DOBNS08-001-GW-027	FTT941	WG	2017-12-07 11:54	E537 m	Stage 2B
DOBNS08-002-GW-012	FTT939	WG	2017-12-06 16:50	E537 m	Stage 2B
DOBNS08-003-GW-010	FTT940	WG	2017-12-07 11:18	E537 m	Stage 4
DOBNS08-004-GW-016	FTT942	WG	2017-12-07 12:40	E537 m	Stage 2B
DOBNS08-005-GW-015	FTT944	WG	2017-12-07 13:52	E537 m	Stage 2B
DOBNS08-006-GW-015	FTT943	WG	2017-12-07 13:18	E537 m	Stage 2B
DOBNS09-001-SO-009	FTT898	SO	2017-12-11 10:48	E537 m	Stage 2B
DOBNS09-001-SS-001	FTT897	SO	2017-12-11 10:16	E537 m	Stage 2B
DOBNS09-002-GW-044	FTT985	WG	2017-12-13 15:30	E537 m	Stage 2B
DOBNS09-002-SO-037	FTT901	SO	2017-12-11 13:15	E537 m	Stage 2B
DOBNS09-002-SS-001	FTT899	SO	2017-12-11 11:31	E537 m	Stage 2B
DOBNS09-002-SS-901	FTT900	SO	2017-12-11 11:31	E537 m	Stage 2B
DOBNS09-003-GW-042	FTT983	WG	2017-12-13 16:43	E537 m	Stage 4

Sample Name	Lab Sample Name	Matrix	Collection	Method	Validation Level
DOBNS09-003-GW-942	FTT984	WG	2017-12-13 16:43	E537 m	Stage 2B
DOBNS09-003-SO-037	FTT903	SO	2017-12-11 15:22	E537 m	Stage 2B
DOBNS09-003-SS-001	FTT902	SO	2017-12-11 14:00	E537 m	Stage 2B
DOBNS10-001-GW-020	FTT937	WG	2017-12-06 14:10	E537 m	Stage 2B
DOBNS10-003-GW-023	FTT938	WG	2017-12-06 15:46	E537 m	Stage 4
DOBNS11-001-GW-034	FTT936	WG	2017-12-06 13:00	E537 m	Stage 2B
DOBNS11-002-GW-022	FTT935	WG	2017-12-06 12:20	E537 m	Stage 2B
DOBNS11-003-GW-018	FTT933	WG	2017-12-06 11:26	E537 m	Stage 2B
DOBNS11-003-GW-918	FTT934	WG	2017-12-06 11:26	E537 m	Stage 2B
DOBNS12-001-GW-024	FTT911	WG	2017-12-14 08:35	E537 m	Stage 2B
DOBNS12-001-SO-024	FTT932	SO	2017-12-07 13:00	E537 m	Stage 2B
DOBNS12-001-SS-001	FTT930	SO	2017-12-07 12:02	E537 m	Stage 2B
DOBNS12-002-SO-009	FTT950	SO	2017-12-07 14:32	E537 m	Stage 2B
DOBNS12-002-SS-001	FTT947	SO	2017-12-07 13:30	E537 m	Stage 2B
DOBNS12-002-SS-901	FTT948	SO	2017-12-07 13:30	E537 m	Stage 2B
DOBNS12-003-SO-007	FTT952	SO	2017-12-07 15:44	E537 m	Stage 2B
DOBNS12-003-SO-907	FTT953	SO	2017-12-07 15:44	E537 m	Stage 2B
DOBNS12-003-SS-001	FTT951	SO	2017-12-07 15:05	E537 m	Stage 4
DOBNS13-001-GW-050	FTT920	WG	2017-12-14 14:16	E537 m	Stage 2B
DOBNS13-001-SO-047	FTT982	SO	2017-12-12 17:20	E537 m	Stage 2B
DOBNS13-001-SS-001	FTT981	SO	2017-12-12 15:37	E537 m	Stage 2B
DOBNS13-002-GW-045	FTT919	WG	2017-12-14 12:52	E537 m	Stage 2B
DOBNS13-002-SO-034	FTT909	SO	2017-12-12 15:07	E537 m	Stage 2B
DOBNS13-002-SS-001	FTT908	SO	2017-12-12 13:00	E537 m	Stage 2B
DOBNS13-003-GW-050	FTT973	WG	2017-12-14 15:02	E537 m	Stage 2B
DOBNS13-003-SO-048	FTT907	SO	2017-12-12 12:27	E537 m	Stage 2B
DOBNS13-003-SS-001	FTT906	SO	2017-12-12 10:26	E537 m	Stage 2B
DOBNS13-004-GW-052	FTT967	WG	2017-12-11 10:55	E537 m	Stage 2B
DOBNS14-001-GW-012	FTT974	WG	2017-12-12 10:40	E537 m	Stage 2B

Sample Name	Lab Sample Name	Matrix	Collection	Method	Validation Level
DOBNS14-D3-W24-GW-015	FTT916	WG	2017-12-14 14:20	E537 m	Stage 2B
DOBNS14-OT004-MW02	FTT976	WG	2017-12-12 14:50	E537 m	Stage 2B
DOBNS14-OT004-MW03	FTT975	WG	2017-12-12 12:50	E537 m	Stage 4
DOBNS15-001-GW-011	FTT980	WG	2017-12-12 18:40	E537 m	Stage 2B
DOBNS15-001-SO-008	FTT893	SO	2017-12-10 17:28	E537 m	Stage 2B
DOBNS15-001-SS-001	FTT891	SO	2017-12-10 16:50	E537 m	Stage 4
DOBNS15-001-SS-901	FTT892	SO	2017-12-10 16:50	E537 m	Stage 2B
DOBNS15-002-GW-007	FTT977	WG	2017-12-12 16:25	E537 m	Stage 2B
DOBNS15-002-SO-005	FTT895	SO	2017-12-11 08:30	E537 m	Stage 2B
DOBNS15-002-SS-001	FTT894	SO	2017-12-11 08:20	E537 m	Stage 2B
DOBNS15-003-GW-011	FTT978	WG	2017-12-12 17:15	E537 m	Stage 2B
DOBNS15-003-GW-911	FTT979	WG	2017-12-12 17:15	E537 m	Stage 2B
DOBNS15-003-SO-005	FTT890	SO	2017-12-10 16:41	E537 m	Stage 2B
DOBNS15-003-SS-001	FTT889	SO	2017-12-10 16:13	E537 m	Stage 2B
DOBNS16-001-GW-012	FTT912	WG	2017-12-14 10:30	E537 m	Stage 2B
DOBNS16-001-SO-006	FTT961	SO	2017-12-08 12:50	E537 m	Stage 2B
DOBNS16-001-SS-001	FTT959	SO	2017-12-08 12:25	E537 m	Stage 2B
DOBNS16-002-GW-015	FTT915	WG	2017-12-14 12:28	E537 m	Stage 4
DOBNS16-002-SO-006	FTT958	SO	2017-12-08 11:40	E537 m	Stage 4
DOBNS16-002-SS-001	FTT957	SO	2017-12-08 10:40	E537 m	Stage 2B
DOBNS16-003-GW-020	FTT914	WG	2017-12-14 11:35	E537 m	Stage 2B
DOBNS16-003-SO-015	FTT956	SO	2017-12-08 10:20	E537 m	Stage 2B
DOBNS16-003-SS-001	FTT955	SO	2017-12-08 09:05	E537 m	Stage 2B
DOBNS-RS-009	FTT972	WQ	2017-12-06 11:56	E537 m	Stage 2B
DOBNS-RS-010	FTT931	WQ	2017-12-07 12:15	E537 m	Stage 2B
DOBNS-RS-011	FTT960	WQ	2017-12-08 12:45	E537 m	Stage 2B
DOBNS-RS-012	FTT883	WQ	2017-12-10 10:50	E537 m	Stage 2B
DOBNS-RS-013	FTT896	WQ	2017-12-11 10:05	E537 m	Stage 2B
DOBNS-RS-014	FTT910	WQ	2017-12-12 15:30	E537 m	Stage 2B

Sample Name	Lab Sample Name	Matrix	Collection	Method	Validation Level
DOBNS-RS-015	FTT986	WQ	2017-12-13 16:56	E537 m	Stage 2B
DOBNS-RS-016	FTT913	WQ	2017-12-14 11:05	E537 m	Stage 2B
DOBNS-SB-001	FTT929	WP	2017-12-07 09:37	E537 m	Stage 2B
DOBNS-SB-002	FTT949	WP	2017-12-07 13:55	E537 m	Stage 2B

II. SAMPLE MANAGEMENT

According to the case narratives and the chains-of-custody (COCs) provided by the laboratory for sample delivery groups (SDGs) B7R2776, B7R6297, B7S5409, B7S5172, and B808850:

- Specific cooler temperatures were not recorded on the B7S5172 COCs; however, the case narrative noted all samples were received at temperatures ≤10°C and specific cooler temperatures were included in the general information section. All samples were received between the control limits of ≤6°C and >0°C.
- B7S5172, an email is attached that itemizes COC observations and responses. Sample DOBNS15-001-GW-012 on the COC was DOBNS15-001-GW-011 on the bottle. Client directed laboratory to identify sample as DOBNS15-001-GW-011. Samples DOBNS04-001-SS-001 and DOBNS04-001-SS-901 showed a sample time of 16:25 on the COC but 16:15 on the bottles. Client directed laboratory to use the sample time of 1615 on the bottles.
- Field and laboratory personnel signed and dated the COCs.
- The case narrative noted custody seals were present and intact on the coolers upon receipt at the laboratory.
- Some chain of custody entries were corrected by writing over an error, as opposed to striking the entry out, signing and dating. All entries are legible.
- The samples in SDG B7S5409 were reported to the client previously. The case narrative states that the previous report, for which the data for PFTeDA and PFTriDA was outside of holding times, used a reextraction that was later deemed unnecessary. Results were reissued using the original analyses for these two compounds. In addition, documentation states an analysis date was corrected from the original report.

TABLE 2 - DATA QUALIFIER REFERENCE

Qualifier	Definition
R	The sample results are rejected because of serious deficiencies in the ability to analyze the sample and to meet quality control (QC) criteria. The presence or absence of the analyte cannot be verified.
U	The analyte was analyzed for but was nondetect (ND) above the reported sample quantification limit.
B	The reported concentration is less than 5 times the concentration reported in an associated field or lab blank.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. J- denotes a low bias for the sample results and J+ for a high bias.
UJ	The material was analyzed for but was ND. The associated value is an estimate and may be inaccurate or imprecise.

TABLE 3 - REASON CODE REFERENCE

Reason Code	Definition
01	Sample received outside of 4+/-2 degrees Celsius (°C)
01A	Improper sample preservation
02	Holding time exceeded
02A	Extraction
02B	Analysis
03	Instrument performance – outside criteria
03A*	Bromofluorobenzene (BFB)
03B*	Decafluorotriphenylphosphine (DFTPP)
03C*	dichlorodiphenyltrichloroethane (DDT) and/or endrin % breakdown exceeds criteria
03D	Retention time windows
03E	Resolution
04	ICAL results outside specified criteria
04A	Compound mean RRF QC criteria not met
04B	Individual % RSD criteria not met
04C	$r < 0.995$ or $r^2 < 0.99$
04D	ICAL % Recovery
05	Continuing calibration results outside specified criteria

Reason Code	Definition
05A	Compound mean RRF QC criteria not met
05B	Compound % Difference QC criteria not met
06	Result qualified as a result of the 5x/10x blank correction
06A	Method or preparation blank
06B	ICB or CCB
06C	ER
06D	TB
06E	FB
07	Surrogate recoveries outside control limits
07A	Sample
07B	Associated MB or LCS
08	MS/MSD/Duplicate results outside criteria
08A	MS and/or MSD recovery not within control limits (accuracy)
08B	% RPD outside acceptance criteria (precision)
09*	Post digestion spike outside criteria graphite furnace atomic absorption (GFAA)
10	Internal standards outside specified control limits
10A	Recovery
10B	Retention time
11	LCS recoveries outside specified limits
11A	Recovery
11B	% RPD (if run in duplicate)
12*	Interference check standard
13*	Serial dilution
14*	Tentatively identified compounds
15	Quantification
16	Multiple results available; alternate analysis preferred
17	Field duplicate RPD criteria is exceeded
18*	Percent difference between original and second column exceeds QC criteria
19	Professional judgment was used to qualify the data
20*	Pesticide clean-up checks
21	Target compound identification

Reason Code	Definition
22*	Radiological calibration
23*	Radiological quantification
24	Reported result and/or lab qualifier revised to reflect validation findings

*Indicates that this code is not expected to apply to the evaluation of PFAS analyses

III. METHOD ANALYSIS- PERFLUORINATED COMPOUNDS BY MODIFIED EPA METHOD 537 MODIFIED

K. Zilis of MEC^{X} reviewed this SDG February 23, 2018.

III.1. HOLDING TIMES

With the exceptions listed below, the holding times specified in the QAPP were met. Samples were extracted within 28 days of collection and all samples were analyzed within 45 days of extraction.

SDG B7S5172
Target compound 6:2 FTS was detected in the method and instrument blanks for QC batches 5333738 and 5333749. Samples with a 6:2 FTS concentration within 10x the blank concentration were reextracted in batches 5361235 and 5364029. The samples were collected on 12/14/2017, This extraction was performed on 1/19/18, and 1/22 respectively, exceeding the 28-day holding time for extraction. These results for 6:2 FTS were qualified as estimated (J for detects and UJ for nondetects) with a 02A reason code.

Samples DOBNS06-002-GW-038 and DOBNS06-003-GW-036 were analyzed by the high-level serial dilution method on 1/26/2018 for PFHxA and PFHxS, respectively. The samples were extracted on 12/21/2017, meeting the holding time for both extraction and analysis.

III.2. CALIBRATION

Calibration criteria were met, with exceptions noted in below.

III.2.1. *INITIAL CALIBRATION*

Initial calibration criteria were met. Recoveries were within 70-130% for the lowest level of each initial calibration and 75-125% for the remaining levels, and all correlation coefficient r^2 values were within the control limit of ≥0.990 or r values ≥0.995. Applicable %RSDs were within the control limit of ≤20%. The calculated peak asymmetry factors were within the control range of 0.8-1.5. MEC^{X} noted the laboratory utilized as the calibration method a weighted (1/X) linear initial calibration standard curve not forced through zero.

In the initial calibration in SDG B7R2776, 1/2/2018, WG 5311478, recovery for PFBS in Std 2 was 74% with a QC limit of 75%. The results for PFBS for the soils analyzed against this calibration curve (WG 5311478) have been qualified as estimated (J for detects and UJ for nondetects).

III.2.2. *CONTINUING CALIBRATION*

The initial calibration verification (ICV) and continuing calibration verification (CCV) recoveries were within the control limits of 75-125%. Low-level instrument sensitivity check standard (ISC) recoveries were within the control limits of 70-130%.

In SDG B7S5172, QC batch 5333738, instrument sensitivity check on 1/19/2018, the recovery for PFPeA and PFOA were above the QC limits at 130.1% and 132.6% respectively. Results for these two target compounds were qualified as estimated (J) in the affected samples with detects.

In SDG B8O8850, QC batch 5366854, instrument sensitivity check on 1/25/2018, the recovery for PFBS was below the QC limits at 74.93%. Results for this target compounds were qualified as estimated (J for detects) in all samples.

III.3. QUALITY CONTROL SAMPLES

III.3.1. *METHOD BLANKS*

The method blanks associated with the analyses of the soil and water samples had no target analyte detects above the respective soil and water detection limits (DLs) with one exception. In SDG B7S5172, 6:2 FTS was detected in the method blank in QC batch 5333738 at 0.011 µg/L with an LOD of 0.015 µg/L. All samples containing 6:2 FTS within 10 times this concentration were re-extracted [outside of holding times (See holding time section)] and reanalyzed.

III.3.2. *LABORATORY CONTROL SAMPLES*

LCS recoveries were within the control limits of 70-130%, and RPDs for water LCS/LCSD pairs were within the control limit of ≤30.

III.3.3. *MATRIX SPIKE/MATRIX SPIKE DUPLICATE*

In SDG B7R2776, MS/MSD analyses were performed on soil samples DOBNS08-001-SS-001, DOBNS08-002-SO-010 and DOBNS14-003-SD-001 and on water sample DOBNS16-004-SW-001. All recoveries and RPDs were within the control limits of 70-130% and ≤30%, respectively for the MS/MSD pairs.

In SDG B7R6297, MS/MSD analyses were performed on soil samples DOBNS01-001-SS-001 and DOBNS13-004-SO-051. Matrix spikes were not requested or performed on the water samples. All recoveries and RPDs were within the control limits of 70-130% and ≤30%, respectively for the MS/MSD pairs.

In SDG B7S5172, MS/MSD analyses were requested on water samples DOBNS03-001-GW-019, DOBNS01-003-GW-025, DOBNS08-003-GW-010 and DOBNS13-001-GW-050, and soil samples DOBNS02-003-SO-005 and DOBNS16-003-SS-001. Matrix spike analyses were performed as requested, and also performed on sample DOBNS15-002-SS-001 in QC batch 5338469. These analyses were performed and all recoveries and RPDs were within the control limits of 70-130% and ≤30%, respectively for the MS/MSD pairs with the following exceptions. In the MS/MSD analysis of sample DOBNS01-003-GW-025, the recoveries of PFHxS, at 40 and 60%, were low and the recoveries of PFOA, at 288 and 206%, were high in both the MS and MSD. The RPD for PFHxS was also above the QC limit. The results for PFOA were qualified as estimated in sample DOBNS01-003-GW-025 with a reason code of 08A, and 08A and 08B for PFHxS. In the MS/MSD analysis of sample DOBNS13-001-GW-050, the recoveries of PFHxS were low, at 47 and the RPD was above the QC limit. The result for PFHxS in sample DOBNS13-001-GW-050 was qualified as estimated with a reason code of 08A and 08B. MS/MSD extraction was performed on soil sample DOBNS02-003-SO-005 but were not analyzed due to high concentrations of target analytes.

Matrix spikes were not performed on samples in SDG B7S5409. An LCS and LCSD were analyzed for precision QC.

In SDG B8O8850, sample DOBNS01-D2-W23-GW-014 was designated for matrix spike analyses. Due to high concentrations of target compounds in the sample, a matrix duplicate was performed instead of MS/MSD.

III.4. FIELD QC SAMPLES

MEC^X evaluated field QC samples, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. MEC^X used the remaining detects to evaluate the associated site samples. Findings associated with field QC samples are summarized below.

III.4.1. *FIELD BLANKS AND EQUIPMENT BLANKS*

The field and equipment blanks are listed in the tables below. Sample results within 10x the concentration reported in the field blanks would be qualified (B), however, PFOS and PFOS results for samples in SDG B7S5409 are all well over 10x the blank concentration and no qualifiers have been applied to any of the Dobbins Air Force Base samples on the basis of the field blanks.

Table 4-FB/EB Detects

SDG B7R2776

Field or Equipment Blank	Detects	Concentration	LOQ
DOBNS-RS-001	none	N/A	N/A
DOBNS-RS-002	none	N/A	N/A
DOBNS-RS-003	none	N/A	N/A
DOBNS-RS-004	none	N/A	N/A

SDGB7R6297

Field or Equipment Blank	Detects	Concentration	LOQ
DOBNS-RS-005	none	N/A	N/A
DOBNS-RS-006	none	N/A	N/A
DOBNS-RS-007	none	N/A	N/A
DOBNS-RS-008	none	N/A	N/A

SDGB7S5172

Field or Equipment Blank	Detects	Concentration	LOQ
DOBNS-RS-009	none	N/A	N/A
DOBNS-RS-010	none	N/A	N/A
DOBNS-RS-011	none	N/A	N/A
DOBNS-RS-012	none	N/A	N/A
DOBNS-RS-013	none	N/A	N/A
DOBNS-RS-014	none	N/A	N/A
DOBNS-RS-015	none	N/A	N/A
DOBNS-RS-016	none	N/A	N/A
DOBNS-SB-001	none	N/A	N/A
DOBNS-SB-002	none	N/A	N/A

SDG B7S5409

Field or Equipment Blank	Detects	Concentration	LOQ
DOBNS-RS-17	PFOA PFOS	0.0067 µg/L 0.014 µg/L	0.020 µg/L

III.4.2. *FIELD DUPLICATES*

Field duplicate pairs are listed below. Field duplicate pairs are listed below. RPDs for common detects above the LOQ were within the control limit of ≤30%, and detects below the LOQ in one or both samples of a pair were within the reasonable control limit of ±LOQ, with exceptions noted in the table below. Results for the outlier target analytes were qualified as estimated (J or UJ) in both samples of a pair.

Table 5-FD RPDs

SDGs B7R2776

Parent Sample	Field Duplicate	Target Analyte	RPD Outliers
DOBNS10-002-SO-024	DOBNS10-002-SO-924	none	none

Parent Sample	Field Duplicate	Target Analyte	RPD Outliers
DOBNS01-004-SS-001	DOBNS01-004-SS-901	none	none

Parent Sample	Field Duplicate	Target Analyte	RPD Outliers
DOBNS14-002-SW-001	DOBNS14-002-SW-901	none	none

Parent Sample	Field Duplicate	Target Analyte	RPD Outliers
DOBNS14-001-SO-016	DOBNS14-001-SO-916	6:2 FTS PFOS	Diff >LOQ 187%

Results for PFOS were 1.6 ug/kg and 46 ug/kg for DOBNS14-001-SO-016 and DOBNS14-001-SO-916 respectively. Results for 6:2 FTS were 0.49J ug/kg and 2.3 ug/kg respectively, with reporting limits of 1.1 ug/kg. (The native sample result is the lower of the two values for both comparisons). Results for 6:2 FTS and PFOS were qualified as estimated (J or UJ) in both samples.

Parent Sample	Field Duplicate	Target Analyte	RPD Outliers
DOBNS13-005-GW-053	DOBNS13-005-GW-953	PFOS	41%

SDGs B7R6297

Parent Sample	Field Duplicate	Target Analyte	RPD Outliers
DOBNS01-002-SS-001	DOBNS01-002-SS-901	none	none

Parent Sample	Field Duplicate	Target Analyte	RPD Outliers
DOBNS01-004-SS-001	DOBNS01-004-SS-901	none	none

Parent Sample	Field Duplicate	Target Analyte	RPD Outliers
DOBNS07-008-SO-025	DOBNS07-008-SO-925	none	none

Parent Sample	Field Duplicate	Target Analyte	RPD Outliers
DOBNS07-001-SS-001	DOBNS07-001-SS-901	none	none

Parent Sample	Field Duplicate	Target Analyte	RPD Outliers
DOBNS06-001-GW-032	DOBNS06-001-GW-932	none	none

Parent Sample	Field Duplicate	Target Analyte	RPD Outliers
DOBNS05-001-SO-028	DOBNS05-001-SO-928	none	none

SDGs B7S5172

Parent Sample	Field Duplicate	Target Analyte	RPD Outliers
DOBNS15-001-SS-001	DOBNS15-001-SS-901	none	none

Parent Sample	Field Duplicate	Target Analyte	RPD Outliers
DOBNS09-002-SS-001	DOBNS09-002-SS-901	6:2 FTS	61.5
		8:2 FTS	73.2
		PFBA	76.9
		PFDeS	64.9
		PFHpA	87.1
		PFHxS	91.1
		PFHxA	79.1
		PFOA	82.4
		PFNoA	52.0
		PFPeA	74.0
		PFUnDA	58.5

The field duplicate is consistently lower than the parent sample.

Parent Sample	Field Duplicate	Target Analyte	RPD Outliers
DOBNS02-001-SO-010	DOBNS02-001-SO-910	None	none

Parent Sample	Field Duplicate	Target Analyte	RPD Outliers
DOBNS11-003-GW-018	DOBNS11-003-GW-018	None	none

Parent Sample	Field Duplicate	Target Analyte	RPD Outliers
DOBNS12-002-SS-001	DOBNS12-002-SS-901	6:2 FTS 8:2 FTS PFDeA PFHxS PFOSA	50.0 62.3 +/- RL 36.1 93.3

Parent Sample	Field Duplicate	Target Analyte	RPD Outliers
DOBNS12-003-SO-007	DOBNS12-003-SO-907	6:2 FTS 8:2 FTS PFHxS	+/- RL 40.0 79.6

Parent Sample	Field Duplicate	Target Analyte	RPD Outliers
DOBNS05-002-GW-038	DOBNS05-002-GW-938	None	none

Parent Sample	Field Duplicate	Target Analyte	RPD Outliers
DOBNS15-003-GW-011	DOBNS15-003-GW-911	None	none

Parent Sample	Field Duplicate	Target Analyte	RPD Outliers
DOBNS09-003-GW-042	DOBNS09-003-GW-942	None	none

Parent Sample	Field Duplicate	Target Analyte	RPD Outliers
DOBNS04-001-SS-001	DOBNS04-001-SS-901	PFDeS PFDeA PFHxS PFHxA PFOA PFNoA PFOSA PFPeA PFUnDA	38.3 34.0 42.4 38.5 44.4 34.1 36.7 46.6 83.3

The field duplicate is consistently lower than the parent sample.

SDGs B8O8850

Parent Sample	Field Duplicate	Target Analyte	RPD Outliers
DOBNS14-OT004-MW04-GW-018	DOBNS14-OT004-MW04-GW-918	none	none

III.5. INTERNAL STANDARDS PERFORMANCE

The applicable labeled internal standard recoveries were within the control limits of ±50% of the average peak areas of the initial calibration.

SDGs B7R2776

In soil sample DOBNS08-005-SO-011, 6 internal standards were initially below the QC limits. Results were reported from a 10x dilution and reporting limits for these two compounds were raised accordingly. In water sample DOBNS15-004-SW-001, the internal standard MPHTeDA was below the QC limit in the initial 1x analysis. Results for the associated target compounds, PFTriDA and PFTeDA were reported from the 10x analysis with compliant internal standard recoveries and reporting limits for these two compounds were raised accordingly.

SDGs B7R6297

In soil sample DOBNS07-006-SO-020, 6 internal standards were initially below the QC limits. Results were reported from a 10x dilution and reporting limits for seven compounds were raised accordingly. In soil samples DOBNS07-002-SO-018 and DOBNS06-002-SO-030, internal standard PFTeDA was were initially below the QC limits. Results for the associated target compounds, PFTriDA and PFTeDA were reported from the 10x analysis with compliant internal standard recoveries and reporting limits for these two compounds were raised accordingly. In soil sample DOBNS05-001-SO-028, the internal standard MPFBS was were initially below the QC limits, and results for the associated target compound were reported from the 10x analysis and reporting limits were raised accordingly.

SDGs B7S5172

Table 6-Injection Internal Standards

Injection Internal Standard	% Recovery	Affected Sample	Associated Target Analyte(s)
13C6-PFHxA 13C9-PFDA		DOBNS02-001-SS-001 DOBNS02-001-SO-010 DOBNS02-001-SO-910 DOBNS12-001-SO-024 DOBNS12-002-SS-001	PFTeA PFTriA

The injection internal standard areas were greater than ±50% of the midpoint standard in the calibration curve in QC batch 5335906 for Standard level 5 in the initial calibration and samples DOBNS02-001-SS-001, DOBNS02-001-SO-010, DOBNS02-001-SO-910, DOBNS12-001-SO-024, and DOBNS12-002-SS-001. Results have been estimated (J for detects and UJ for nondetects) for these samples with a 10A reason code. The injection internal standards were above the QC limit in the 1x analysis of sample DOBNS02-002-SO-036, however the results were reported from the 10x dilution where injection and extraction internal standards were compliant.

Extracted internal standards were below the QC acceptance limits in numerous samples and results were reported from dilution analyses with acceptable extracted internal standard recoveries. Reporting limits were raised accordingly. The reporting limits for PFTrDA and PFTeDA were raised due to a low original MPFTeDA internal standard recovery and subsequent dilution for samples: DOBNS02-001-SS-001, DOBNS12-002-SS-001, DOBNS12-002-SS-901, DOBNS12-003-SS-001, DOBNS04-001-SS-001, DOBNS04-001-SS-901, DOBNS04-003-SO-26, and DOBNS04-002-SO-030. For sample, DOBNS12-003-SS-001, the reporting limits for target analytes PFUnA, PFDoA and PFOSA were raised due to low recoveries for the associated internal standards.

For samples DOBNS02-002-SO-036, DOBNS16-001-SO-006 and DOBNS13-001-SO-047, all target compound reporting limits were elevated due to the results reported from a 10x dilution despite few, if any, target compounds detected, because all extracted internal standard recoveries were below QC limits in the original undiluted analysis. However, the injection internal standards were above the QC limit in the 1x analysis of sample DOBNS02-002-SO-036 so either analysis would be qualified as estimated.

III.6. COMPOUND IDENTIFICATION

Compound identification was verified for the following samples:

SDGs B7R2776
Soil samples DOBNS08-006-SS-001, DOBNS16-004-SD-001, DOBNS14-001-SS-001 and DOBNS11-003-SS-001, and water sample DOBNS15-004-SW-001

SDGs B7R6297
Soil samples DOBNS01-001-SO-024, DOBNS01-003-SO-02 and DOBNS06-002-SS-001, and water sample DOBNS07-002-GW-024.

SDGs B7S5172
Soil samples DOBNS15-001-SS-001, DOBNS03-004-SS-001, DOBNS02-001-SS-001, DOBNS12-003-SS-001, DOBNS16-002-SO-006 and DOBNS04-003-SS-001, and water samples DOBNS16-002-GW-015, DOBNS10-003-GW-023, DOBNS08-003-GW-010, DOBNS01-003-GW-025, DOBNS14-OT004-MW03 and DOBNS09-003-GW-042 were validated at a level 4.

SDGs B7S5409
Water sample DOBNS02-D3-W32-GW-012 was validated at a level 4.

SDGs B8O8850
Water sample DOBNS01-D2-W23-GW-014 was validated at a level 4.

The laboratory analyzed for 18 perfluorinated compounds by Modified EPA Method 537. Review of retention time and the ion chromatograms indicated no issues with compound identification.

III.7. COMPOUND QUANTIFICATION AND REPORTED DETECTION LIMITS

Calculations were verified and sample results reported on the sample result summaries were verified against the raw data for the samples listed above (see Compound Identification section). Quantitation verification was limited based upon the significant figures presented in the raw data and were therefore estimations of the actual sample amounts. The reviewer considered the concentration verified within that limitation. The laboratory calculated and reported compound-specific detection limits. Detects below the LOQ were qualified as estimated (J). Nondetects are valid to the LOD.

The laboratory integrated isomeric forms for the PFCs with linear and branched isomers as required by Revision 1.1 of EPA Method 537.

<u>B7S5217</u>

Based on screening results indicating the presence of high concentrations of target analytes, 17 of the 46 water site samples (not including field blanks) were extracted using reduced sample volumes. Six of the 57 soil samples were reported from dilution analyses and all reporting limits were elevated accordingly. Three of those 6 soil samples were reported from dilution analyses because all internal standard recoveries were below QC limits in the 100% analysis. They were not diluted because of any elevated target compound concentrations. Further dilutions or high-level analyses were performed for specific target analytes. The DLs and LOQs were adjusted accordingly. Remaining results were reported from the undiluted analysis.

<u>B7S5409</u>

Based on screening results indicating the presence of high concentrations of target analytes, 3 of the 4 water site samples were extracted using reduced sample volumes. Reporting limits were elevated accordingly.

<u>B8O8850</u>

Based on screening results indicating the presence of high concentrations of target analytes, 3 of the 3 water site samples were extracted using reduced sample volumes. Reporting limits were elevated accordingly.

III.8. SYSTEM PERFORMANCE

No issues were noted with system performance.

IV. SUMMARY AND CONCLUSIONS

MEC^X evaluated a total of 3654 data records from field samples during the validation and qualified 190 records (5.2% of the data) as estimated values (J for detects and UJ for nondetects). The qualification was required for initial calibration recovery outliers, continuing calibration outliers, matrix spike recovery outliers, matrix spike precision outliers, internal standard outliers and field duplicate precision outliers. Nondetect compounds were flagged (U) to indicate that the compound was analyzed for but not detected above the limit of detection (LOD). Specific qualification is discussed in the text above.

Overall, the quality of the data was acceptable. The precision (98.3%) and accuracy results (96.3%) were acceptable. Other data quality indicators (DQI) (representativeness, comparability and completeness) met the project objectives. Each of these DQIs is discussed below.

IV.1. PRECISION

Precision is a measure of the agreement between duplicate sample measurements of the same quantity and is reflected in the relative percent difference (RPD) between spikes and the RPD for the field duplicate pair analysis. Precision was measured at 98.3% primarily due to field duplicate outliers. Precision was considered acceptable for the project.

IV.2. ACCURACY

Accuracy is measured by the results from the recovery of known amounts of compounds or elements from calibration, method blanks, laboratory control samples (LCS), matrix spikes (MS), internal standard recoveries and surrogate recoveries. The primary qualification for accuracy was for internal standard outliers (2.5%). The accuracy was 96.3%. Accuracy was considered acceptable for the project.

IV.3. REPRESENTATIVENESS

The measures of representativeness – sample handling, analytical blank analysis, were met. Designated analytical protocols were followed. The laboratory did utilize a weighted 1/X calibration curve which was not forced through zero. Although this is a deviation from Method 537, it is acceptable on DoD projects and was considered acceptable by the reviewer. Holding times were met for all analyses. No analytical problems were noted which would impact data representativeness.

IV.4. COMPARABILITY

The samples were analyzed using appropriate approved methods of analysis. All data were reported correctly using standard units.

IV.5. COMPLETENESS

Completeness is the amount of validated data compared to the planned amount of data and is expressed as a percentage of the usable data divided by the total number of data points. Of the 3654 target data points, no data points were rejected, resulting in a completeness of 100%.

V. REFERENCES

Aerostar, 2016. *Final Quality Assurance Project Plan for Site Inspection of Aqueous Film Forming Foam Areas, Multiple Sites United States Air Force Installations*, March 2016

Aerostar, 2016a. *Uniform Federal Policy (UFP) Quality Assurance Project Plan (QAPP) for Site Inspection of Aqueous Film Forming Foam Areas, Multiple Sites, United States Air Force Installations, Addendum 18, Field Sampling Plan for Dobbins Air Reserve Base Cobb County, Georgia,* October 2017.

Department of Defense (DOD), 2017. *DoD Quality Systems Manual for Environmental Laboratories,* Version 5.1. January 2017.

EPA, 2009. *Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS),* Version 1.1, September 2009. EPA Document #: EPA/600/R-08/092.

EPA, 2014. *EPA Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review*, EPA/540-R-014-002.

EPA (U.S. Environmental Protection Agency), January 2009. OSWER 9200-1-85. *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use.* EPA-540/R-08-005.

Validated Sample Result Forms: B7R2776

Analysis Method: EPA 537 m

Sample Name DOBNS01-004-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRH286 **Sample Date/Time:** 2017-12-01 11:00 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.80	0.26	0.80	1.0	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.80	0.33	0.80	1.0	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.50	0.17	0.50	1.0	ug/kg	U	UJ	04D
PERFLUOROBUTANOIC ACID	375-22-4	0.63	0.23	0.50	1.0	ug/kg	J	J	
PERFLUORODECANE SULFONATE	335-77-3	<0.80	0.39	0.80	1.0	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.80	0.28	0.80	1.0	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.80	0.28	0.80	1.0	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.50	0.19	0.50	1.0	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	3.1	0.24	0.50	1.0	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	0.86	0.14	0.50	1.0	ug/kg	J	J	
PERFLUORONONANOIC ACID	375-95-1	<0.50	0.22	0.50	1.0	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	0.94	0.14	0.50	1.0	ug/kg	J	J	
PERFLUOROOCTANE SULFONATE	1763-23-1	7.0	0.26	0.80	1.0	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	1.5	0.25	0.80	1.0	ug/kg			
PERFLUOROPENTANOIC ACID	2706-90-3	0.56	0.25	0.80	1.0	ug/kg	J	J	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.80	0.31	0.80	1.0	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.80	0.33	0.80	1.0	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.80	0.34	0.80	1.0	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS01-004-SS-901 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRH287 **Sample Date/Time:** 2017-12-01 11:00 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.80	0.26	0.80	1.0	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.80	0.33	0.80	1.0	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.50	0.17	0.50	1.0	ug/kg	U	UJ	04D
PERFLUOROBUTANOIC ACID	375-22-4	1.5	0.23	0.50	1.0	ug/kg			
PERFLUORODECANE SULFONATE	335-77-3	<0.80	0.39	0.80	1.0	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.80	0.28	0.80	1.0	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.80	0.28	0.80	1.0	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.50	0.19	0.50	1.0	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	2.8	0.24	0.50	1.0	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	1.2	0.14	0.50	1.0	ug/kg			
PERFLUORONONANOIC ACID	375-95-1	<0.50	0.22	0.50	1.0	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	0.79	0.14	0.50	1.0	ug/kg	J	J	
PERFLUOROOCTANE SULFONATE	1763-23-1	6.1	0.26	0.80	1.0	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	1.7	0.25	0.80	1.0	ug/kg			
PERFLUOROPENTANOIC ACID	2706-90-3	0.91	0.25	0.80	1.0	ug/kg	J	J	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.80	0.31	0.80	1.0	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.80	0.33	0.80	1.0	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.80	0.34	0.80	1.0	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS08-001-SO-026 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRH276 **Sample Date/Time:** 2017-11-30 17:50 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<1.1	0.36	1.1	1.4	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<1.1	0.46	1.1	1.4	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.70	0.24	0.70	1.4	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.70	0.32	0.70	1.4	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<1.1	0.55	1.1	1.4	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<1.1	0.39	1.1	1.4	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<1.1	0.39	1.1	1.4	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.70	0.27	0.70	1.4	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.70	0.34	0.70	1.4	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.70	0.20	0.70	1.4	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.70	0.31	0.70	1.4	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.70	0.20	0.70	1.4	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<1.1	0.36	1.1	1.4	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<1.1	0.35	1.1	1.4	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<1.1	0.35	1.1	1.4	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<1.1	0.43	1.1	1.4	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<1.1	0.46	1.1	1.4	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<1.1	0.48	1.1	1.4	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS08-001-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRH275 **Sample Date/Time:** 2017-11-30 17:05 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.88	0.29	0.88	1.1	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.55	0.19	0.55	1.1	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.55	0.25	0.55	1.1	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.55	0.21	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.55	0.26	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.55	0.24	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	3.4	0.29	0.88	1.1	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS08-002-SO-010 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRH278 **Sample Date/Time:** 2017-12-01 10:12 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.96	0.31	0.96	1.2	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.60	0.20	0.60	1.2	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.60	0.28	0.60	1.2	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.96	0.47	0.96	1.2	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.96	0.34	0.96	1.2	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.96	0.34	0.96	1.2	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.60	0.23	0.60	1.2	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.60	0.29	0.60	1.2	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.60	0.17	0.60	1.2	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.60	0.26	0.60	1.2	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.60	0.17	0.60	1.2	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.96	0.31	0.96	1.2	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.96	0.30	0.96	1.2	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.96	0.30	0.96	1.2	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.96	0.37	0.96	1.2	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.96	0.41	0.96	1.2	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS08-002-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRH277 **Sample Date/Time:** 2017-12-01 09:28 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<1.0	0.34	1.0	1.3	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<1.0	0.43	1.0	1.3	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.65	0.22	0.65	1.3	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.65	0.30	0.65	1.3	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<1.0	0.51	1.0	1.3	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	0.86	0.36	1.0	1.3	ug/kg	J	J	
PERFLUORODODECANOIC ACID	307-55-1	<1.0	0.36	1.0	1.3	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.65	0.25	0.65	1.3	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.79	0.31	0.65	1.3	ug/kg	J	J	
PERFLUOROHEXANOIC ACID	307-24-4	<0.65	0.18	0.65	1.3	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.65	0.29	0.65	1.3	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.65	0.18	0.65	1.3	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	12	0.34	1.0	1.3	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	<1.0	0.33	1.0	1.3	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<1.0	0.33	1.0	1.3	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<1.0	0.40	1.0	1.3	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<1.0	0.43	1.0	1.3	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<1.0	0.44	1.0	1.3	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS08-003-SO-005 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRH274 **Sample Date/Time:** 2017-11-30 16:32 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<1.1	0.36	1.1	1.4	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<1.1	0.46	1.1	1.4	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.70	0.24	0.70	1.4	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.70	0.32	0.70	1.4	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<1.1	0.55	1.1	1.4	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<1.1	0.39	1.1	1.4	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<1.1	0.39	1.1	1.4	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.70	0.27	0.70	1.4	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.70	0.34	0.70	1.4	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.70	0.20	0.70	1.4	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.70	0.31	0.70	1.4	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.70	0.20	0.70	1.4	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<1.1	0.36	1.1	1.4	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<1.1	0.35	1.1	1.4	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<1.1	0.35	1.1	1.4	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<1.1	0.43	1.1	1.4	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<1.1	0.46	1.1	1.4	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<1.1	0.48	1.1	1.4	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS08-003-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRH273 **Sample Date/Time:** 2017-11-30 15:30 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<1.0	0.34	1.0	1.3	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<1.0	0.43	1.0	1.3	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.65	0.22	0.65	1.3	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.65	0.30	0.65	1.3	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<1.0	0.51	1.0	1.3	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<1.0	0.36	1.0	1.3	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<1.0	0.36	1.0	1.3	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.54	0.25	0.65	1.3	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.65	0.31	0.65	1.3	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	0.57	0.18	0.65	1.3	ug/kg	J	J	
PERFLUORONONANOIC ACID	375-95-1	0.79	0.29	0.65	1.3	ug/kg	J	J	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.65	0.18	0.65	1.3	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	5.8	0.34	1.0	1.3	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	1.0	0.33	1.0	1.3	ug/kg	J	J	
PERFLUOROPENTANOIC ACID	2706-90-3	<1.0	0.33	1.0	1.3	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<1.0	0.40	1.0	1.3	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<1.0	0.43	1.0	1.3	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<1.0	0.44	1.0	1.3	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS08-004-SO-014 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRH280 **Sample Date/Time:** 2017-12-01 12:26 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.80	0.26	0.80	1.0	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.80	0.33	0.80	1.0	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.50	0.17	0.50	1.0	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.50	0.23	0.50	1.0	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.80	0.39	0.80	1.0	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.80	0.28	0.80	1.0	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.80	0.28	0.80	1.0	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.50	0.19	0.50	1.0	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.50	0.24	0.50	1.0	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.50	0.14	0.50	1.0	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.50	0.22	0.50	1.0	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.50	0.14	0.50	1.0	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.80	0.26	0.80	1.0	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.80	0.25	0.80	1.0	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.80	0.25	0.80	1.0	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.80	0.31	0.80	1.0	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.80	0.33	0.80	1.0	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.80	0.34	0.80	1.0	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS08-004-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRH279 **Sample Date/Time:** 2017-12-01 11:27 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.96	0.31	0.96	1.2	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.60	0.20	0.60	1.2	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.60	0.28	0.60	1.2	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.96	0.47	0.96	1.2	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.96	0.34	0.96	1.2	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.96	0.34	0.96	1.2	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.47	0.23	0.60	1.2	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.60	0.29	0.60	1.2	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	0.61	0.17	0.60	1.2	ug/kg	J	J	
PERFLUORONONANOIC ACID	375-95-1	1.2	0.26	0.60	1.2	ug/kg	J	J	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.60	0.17	0.60	1.2	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	5.2	0.31	0.96	1.2	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	<0.96	0.30	0.96	1.2	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.96	0.30	0.96	1.2	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.96	0.37	0.96	1.2	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.96	0.41	0.96	1.2	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS08-005-SO-011 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRH282 **Sample Date/Time:** 2017-12-01 14:20 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<1.0	0.34	1.0	1.3	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<1.0	0.43	1.0	13	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.65	0.22	0.65	1.3	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.65	0.30	0.65	1.3	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<1.0	0.51	1.0	1.3	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<1.0	0.36	1.0	13	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<1.0	0.36	1.0	13	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.65	0.25	0.65	1.3	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.65	0.31	0.65	1.3	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.65	0.18	0.65	1.3	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.65	0.29	0.65	1.3	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.65	0.18	0.65	1.3	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<1.0	0.34	1.0	1.3	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<1.0	0.33	1.0	1.3	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<1.0	0.33	1.0	1.3	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<1.0	0.40	1.0	13	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<1.0	0.43	1.0	13	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<1.0	0.44	1.0	13	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS08-005-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRH281 **Sample Date/Time:** 2017-12-01 12:55 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.96	0.31	0.96	1.2	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.60	0.20	0.60	1.2	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.60	0.28	0.60	1.2	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.96	0.47	0.96	1.2	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.96	0.34	0.96	1.2	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.96	0.34	0.96	1.2	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.50	0.23	0.60	1.2	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.60	0.29	0.60	1.2	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.60	0.17	0.60	1.2	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	1.0	0.26	0.60	1.2	ug/kg	J	J	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.60	0.17	0.60	1.2	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	6.8	0.31	0.96	1.2	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	0.69	0.30	0.96	1.2	ug/kg	J	J	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.96	0.30	0.96	1.2	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.96	0.37	0.96	1.2	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.96	0.41	0.96	1.2	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS08-006-SO-014 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRH285 **Sample Date/Time:** 2017-12-01 15:40 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.80	0.26	0.80	1.0	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.80	0.33	0.80	1.0	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.50	0.17	0.50	1.0	ug/kg	U	UJ	04D
PERFLUOROBUTANOIC ACID	375-22-4	<0.50	0.23	0.50	1.0	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.80	0.39	0.80	1.0	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.80	0.28	0.80	1.0	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.80	0.28	0.80	1.0	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	1.2	0.19	0.50	1.0	ug/kg			
PERFLUOROHEXANE SULFONATE	108427-53-8	5.5	0.24	0.50	1.0	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	1.9	0.14	0.50	1.0	ug/kg			
PERFLUORONONANOIC ACID	375-95-1	<0.50	0.22	0.50	1.0	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.50	0.14	0.50	1.0	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.80	0.26	0.80	1.0	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.80	0.25	0.80	1.0	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	1.8	0.25	0.80	1.0	ug/kg			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.80	0.31	0.80	1.0	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.80	0.33	0.80	1.0	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.80	0.34	0.80	1.0	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS08-006-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRH284 **Sample Date/Time:** 2017-12-01 14:50 **Validation Level:** Stage 4

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.96	0.31	0.96	1.2	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.60	0.20	0.60	1.2	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	1.1	0.28	0.60	1.2	ug/kg	J	J	
PERFLUORODECANE SULFONATE	335-77-3	<0.96	0.47	0.96	1.2	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.96	0.34	0.96	1.2	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.96	0.34	0.96	1.2	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.57	0.23	0.60	1.2	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.60	0.29	0.60	1.2	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	0.67	0.17	0.60	1.2	ug/kg	J	J	
PERFLUORONONANOIC ACID	375-95-1	0.87	0.26	0.60	1.2	ug/kg	J	J	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.60	0.17	0.60	1.2	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	16	0.31	0.96	1.2	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	0.72	0.30	0.96	1.2	ug/kg	J	J	
PERFLUOROPENTANOIC ACID	2706-90-3	1.6	0.30	0.96	1.2	ug/kg			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.96	0.37	0.96	1.2	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.96	0.41	0.96	1.2	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS10-001-SO-019 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRH266 **Sample Date/Time:** 2017-11-30 10:56 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<1.1	0.36	1.1	1.4	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<1.1	0.46	1.1	1.4	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.70	0.24	0.70	1.4	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.70	0.32	0.70	1.4	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<1.1	0.55	1.1	1.4	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<1.1	0.39	1.1	1.4	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<1.1	0.39	1.1	1.4	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.70	0.27	0.70	1.4	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.70	0.34	0.70	1.4	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.70	0.20	0.70	1.4	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.70	0.31	0.70	1.4	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.70	0.20	0.70	1.4	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<1.1	0.36	1.1	1.4	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<1.1	0.35	1.1	1.4	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<1.1	0.35	1.1	1.4	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<1.1	0.43	1.1	1.4	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<1.1	0.46	1.1	1.4	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<1.1	0.48	1.1	1.4	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS10-001-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRH265 **Sample Date/Time:** 2017-11-30 10:24 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.96	0.31	0.96	1.2	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.60	0.20	0.60	1.2	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.60	0.28	0.60	1.2	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.96	0.47	0.96	1.2	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.96	0.34	0.96	1.2	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.96	0.34	0.96	1.2	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.60	0.23	0.60	1.2	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.59	0.29	0.60	1.2	ug/kg	J	J	
PERFLUOROHEXANOIC ACID	307-24-4	<0.60	0.17	0.60	1.2	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.60	0.26	0.60	1.2	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.60	0.17	0.60	1.2	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	7.2	0.31	0.96	1.2	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	<0.96	0.30	0.96	1.2	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.96	0.30	0.96	1.2	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.96	0.37	0.96	1.2	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.96	0.41	0.96	1.2	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS10-002-SO-024 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRH271 **Sample Date/Time:** 2017-11-30 14:40 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.88	0.29	0.88	1.1	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.55	0.19	0.55	1.1	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.55	0.25	0.55	1.1	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.55	0.21	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.55	0.26	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.55	0.24	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.88	0.29	0.88	1.1	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS10-002-SO-924 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRH272 **Sample Date/Time:** 2017-11-30 14:40 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<1.2	0.39	1.2	1.5	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<1.2	0.50	1.2	1.5	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.75	0.26	0.75	1.5	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.75	0.35	0.75	1.5	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<1.2	0.59	1.2	1.5	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<1.2	0.42	1.2	1.5	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<1.2	0.42	1.2	1.5	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.75	0.29	0.75	1.5	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.75	0.36	0.75	1.5	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.75	0.21	0.75	1.5	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.75	0.33	0.75	1.5	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.75	0.21	0.75	1.5	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<1.2	0.39	1.2	1.5	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<1.2	0.38	1.2	1.5	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<1.2	0.38	1.2	1.5	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<1.2	0.47	1.2	1.5	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<1.2	0.50	1.2	1.5	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<1.2	0.51	1.2	1.5	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS10-002-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRH270 **Sample Date/Time:** 2017-11-30 12:45 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.88	0.29	0.88	1.1	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.55	0.19	0.55	1.1	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	1.2	0.25	0.55	1.1	ug/kg			
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	1.1	0.21	0.55	1.1	ug/kg			
PERFLUOROHEXANE SULFONATE	108427-53-8	1.8	0.26	0.55	1.1	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	1.2	0.15	0.55	1.1	ug/kg			
PERFLUORONONANOIC ACID	375-95-1	0.76	0.24	0.55	1.1	ug/kg	J	J	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	12	0.29	0.88	1.1	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	1.7	0.28	0.88	1.1	ug/kg			
PERFLUOROPENTANOIC ACID	2706-90-3	1.8	0.28	0.88	1.1	ug/kg			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS10-003-SO-024 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRH268 **Sample Date/Time:** 2017-11-30 12:55 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.88	0.29	0.88	1.1	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.55	0.19	0.55	1.1	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.55	0.25	0.55	1.1	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.55	0.21	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.55	0.26	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.55	0.24	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.88	0.29	0.88	1.1	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS10-003-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRH267 **Sample Date/Time:** 2017-11-30 11:37 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.88	0.29	0.88	1.1	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.55	0.19	0.55	1.1	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.55	0.25	0.55	1.1	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.55	0.21	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.80	0.26	0.55	1.1	ug/kg	J	J	
PERFLUOROHEXANOIC ACID	307-24-4	0.51	0.15	0.55	1.1	ug/kg	J	J	
PERFLUORONONANOIC ACID	375-95-1	<0.55	0.24	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	2.9	0.29	0.88	1.1	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS11-001-SO-034 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRH264 **Sample Date/Time:** 2017-11-30 09:18 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<1.0	0.34	1.0	1.3	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<1.0	0.43	1.0	1.3	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.65	0.22	0.65	1.3	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.65	0.30	0.65	1.3	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<1.0	0.51	1.0	1.3	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<1.0	0.36	1.0	1.3	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<1.0	0.36	1.0	1.3	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.65	0.25	0.65	1.3	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.65	0.31	0.65	1.3	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.65	0.18	0.65	1.3	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.65	0.29	0.65	1.3	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.65	0.18	0.65	1.3	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<1.0	0.34	1.0	1.3	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<1.0	0.33	1.0	1.3	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<1.0	0.33	1.0	1.3	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<1.0	0.40	1.0	1.3	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<1.0	0.43	1.0	1.3	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<1.0	0.44	1.0	1.3	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS11-001-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRH263 **Sample Date/Time:** 2017-11-30 08:20 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.88	0.29	0.88	1.1	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.55	0.19	0.55	1.1	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.55	0.25	0.55	1.1	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.55	0.21	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.55	0.26	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.55	0.24	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	6.6	0.29	0.88	1.1	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	0.63	0.28	0.88	1.1	ug/kg	J	J	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS11-002-SO-021 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRH307 **Sample Date/Time:** 2017-11-29 15:12 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.96	0.31	0.96	1.2	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.60	0.20	0.60	1.2	ug/kg	U	UJ	04D
PERFLUOROBUTANOIC ACID	375-22-4	<0.60	0.28	0.60	1.2	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.96	0.47	0.96	1.2	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.96	0.34	0.96	1.2	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.96	0.34	0.96	1.2	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.60	0.23	0.60	1.2	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.60	0.29	0.60	1.2	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.60	0.17	0.60	1.2	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.60	0.26	0.60	1.2	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.60	0.17	0.60	1.2	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.96	0.31	0.96	1.2	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.96	0.30	0.96	1.2	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.96	0.30	0.96	1.2	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.96	0.37	0.96	1.2	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.96	0.41	0.96	1.2	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS11-002-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRH306 **Sample Date/Time:** 2017-11-29 14:45 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.76	0.25	0.76	0.95	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.76	0.31	0.76	0.95	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.48	0.16	0.48	0.95	ug/kg	U	UJ	04D
PERFLUOROBUTANOIC ACID	375-22-4	<0.48	0.22	0.48	0.95	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.76	0.37	0.76	0.95	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.76	0.27	0.76	0.95	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.76	0.27	0.76	0.95	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.18	0.18	0.48	0.95	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.48	0.23	0.48	0.95	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	0.35	0.13	0.48	0.95	ug/kg	J	J	
PERFLUORONONANOIC ACID	375-95-1	<0.48	0.21	0.48	0.95	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.48	0.13	0.48	0.95	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	3.8	0.25	0.76	0.95	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	0.32	0.24	0.76	0.95	ug/kg	J	J	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.76	0.24	0.76	0.95	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.76	0.29	0.76	0.95	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.76	0.31	0.76	0.95	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.76	0.32	0.76	0.95	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS11-003-SO-017 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRH309 **Sample Date/Time:** 2017-11-29 16:00 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.88	0.29	0.88	1.1	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.55	0.19	0.55	1.1	ug/kg	U	UJ	04D
PERFLUOROBUTANOIC ACID	375-22-4	<0.55	0.25	0.55	1.1	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.55	0.21	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.55	0.26	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.55	0.24	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.88	0.29	0.88	1.1	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS11-003-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRH308 **Sample Date/Time:** 2017-11-29 15:38 **Validation Level:** Stage 4

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.80	0.26	0.80	1.0	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.80	0.33	0.80	1.0	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.50	0.17	0.50	1.0	ug/kg	U	UJ	04D
PERFLUOROBUTANOIC ACID	375-22-4	<0.50	0.23	0.50	1.0	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.80	0.39	0.80	1.0	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	0.42	0.28	0.80	1.0	ug/kg	J	J	
PERFLUORODODECANOIC ACID	307-55-1	<0.80	0.28	0.80	1.0	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.50	0.19	0.50	1.0	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.86	0.24	0.50	1.0	ug/kg	J	J	
PERFLUOROHEXANOIC ACID	307-24-4	0.39	0.14	0.50	1.0	ug/kg	J	J	
PERFLUORONONANOIC ACID	375-95-1	<0.50	0.22	0.50	1.0	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.50	0.14	0.50	1.0	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	11	0.26	0.80	1.0	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	<0.80	0.25	0.80	1.0	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.80	0.25	0.80	1.0	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.80	0.31	0.80	1.0	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.80	0.33	0.80	1.0	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.80	0.34	0.80	1.0	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS13-005-GW-053 **Matrix Type:** **Result Type:** TRG

Lab Sample Name: FRH304 **Sample Date/Time:** 2017-11-29 11:45 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	1.0	0.013	0.030	0.040	ug/L			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.030	0.013	0.030	0.040	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.79	0.011	0.030	0.040	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.22	0.011	0.030	0.040	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.030	0.012	0.030	0.040	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.030	0.012	0.030	0.040	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.020	0.010	0.020	0.040	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.13	0.015	0.030	0.040	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	5.1	0.11	0.30	0.40	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	1.2	0.0070	0.020	0.040	ug/L			
PERFLUORONONANOIC ACID	375-95-1	0.019	0.017	0.036	0.040	ug/L	J	J	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.020	0.0068	0.020	0.040	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	4.4	0.12	0.30	0.40	ug/L		J	17
PERFLUOROOCTANOIC ACID	335-67-1	0.40	0.0066	0.020	0.040	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	0.48	0.015	0.036	0.040	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.020	0.0054	0.020	0.040	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.020	0.0076	0.020	0.040	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.020	0.0050	0.020	0.040	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS13-005-GW-953 **Matrix Type:** **Result Type:** TRG

Lab Sample Name: FRH305 **Sample Date/Time:** 2017-11-29 11:45 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	1.1	0.013	0.030	0.040	ug/L			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.030	0.013	0.030	0.040	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.70	0.011	0.030	0.040	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.22	0.011	0.030	0.040	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.030	0.012	0.030	0.040	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.030	0.012	0.030	0.040	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.020	0.010	0.020	0.040	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.14	0.015	0.030	0.040	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	5.7	0.11	0.30	0.40	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	1.2	0.0070	0.020	0.040	ug/L			
PERFLUORONONANOIC ACID	375-95-1	0.020	0.017	0.036	0.040	ug/L	J	J	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.020	0.0068	0.020	0.040	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	6.7	0.12	0.30	0.40	ug/L		J	17
PERFLUOROOCTANOIC ACID	335-67-1	0.40	0.0066	0.020	0.040	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	0.51	0.015	0.036	0.040	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.020	0.0054	0.020	0.040	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.020	0.0076	0.020	0.040	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.020	0.0050	0.020	0.040	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS13-005-SO-051 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRH302 **Sample Date/Time:** 2017-11-29 10:45 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.96	0.31	0.96	1.2	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.60	0.20	0.60	1.2	ug/kg	U	UJ	04D
PERFLUOROBUTANOIC ACID	375-22-4	<0.60	0.28	0.60	1.2	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.96	0.47	0.96	1.2	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.96	0.34	0.96	1.2	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.96	0.34	0.96	1.2	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.60	0.23	0.60	1.2	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.60	0.29	0.60	1.2	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.60	0.17	0.60	1.2	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.60	0.26	0.60	1.2	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.60	0.17	0.60	1.2	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.96	0.31	0.96	1.2	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.96	0.30	0.96	1.2	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.96	0.30	0.96	1.2	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.96	0.37	0.96	1.2	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.96	0.41	0.96	1.2	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS13-005-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRH301 **Sample Date/Time:** 2017-11-29 09:35 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.74	0.24	0.74	0.92	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.74	0.30	0.74	0.92	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	4.8	0.16	0.46	0.92	ug/kg		J	04D
PERFLUOROBUTANOIC ACID	375-22-4	2.2	0.21	0.46	0.92	ug/kg			
PERFLUORODECANE SULFONATE	335-77-3	1.5	0.36	0.74	0.92	ug/kg			
PERFLUORODECANOIC ACID	335-76-2	1.3	0.26	0.74	0.92	ug/kg			
PERFLUORODODECANOIC ACID	307-55-1	0.83	0.26	0.74	0.92	ug/kg	J	J	
PERFLUOROHEPTANOIC ACID	375-85-9	0.30	0.17	0.46	0.92	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	23	0.22	0.46	0.92	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	4.4	0.13	0.46	0.92	ug/kg			
PERFLUORONONANOIC ACID	375-95-1	<0.46	0.20	0.46	0.92	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.46	0.13	0.46	0.92	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	77	2.4	7.4	9.2	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	0.57	0.23	0.74	0.92	ug/kg	J	J	
PERFLUOROPENTANOIC ACID	2706-90-3	3.1	0.23	0.74	0.92	ug/kg			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.74	0.29	0.74	0.92	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	0.36	0.30	0.74	0.92	ug/kg	J	J	
PERFLUOROUNDECANOIC ACID	2058-94-8	1.6	0.31	0.74	0.92	ug/kg			

Analysis Method: EPA 537 m

Sample Name DOBNS14-001-SO-016 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRH296 **Sample Date/Time:** 2017-11-28 15:18 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.49	0.29	0.88	1.1	ug/kg	J	J	17
8:2 FLUOROTELOMER SULFONATE	39108-34-4	0.99	0.36	0.88	1.1	ug/kg	J	J	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.55	0.19	0.55	1.1	ug/kg	U	UJ	04D
PERFLUOROBUTANOIC ACID	375-22-4	<0.55	0.25	0.55	1.1	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.55	0.21	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.55	0.26	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	0.36	0.15	0.55	1.1	ug/kg	J	J	
PERFLUORONONANOIC ACID	375-95-1	<0.55	0.24	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	1.6	0.29	0.88	1.1	ug/kg		J	17
PERFLUOROOCTANOIC ACID	335-67-1	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS14-001-SO-916 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRH297 **Sample Date/Time:** 2017-11-28 15:18 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	2.3	0.29	0.88	1.1	ug/kg		J	17
8:2 FLUOROTELOMER SULFONATE	39108-34-4	1.0	0.36	0.88	1.1	ug/kg	J	J	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.55	0.19	0.55	1.1	ug/kg	U	UJ	04D
PERFLUOROBUTANOIC ACID	375-22-4	<0.55	0.25	0.55	1.1	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.55	0.21	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.59	0.26	0.55	1.1	ug/kg	J	J	
PERFLUOROHEXANOIC ACID	307-24-4	0.44	0.15	0.55	1.1	ug/kg	J	J	
PERFLUORONONANOIC ACID	375-95-1	<0.55	0.24	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	46	0.29	0.88	1.1	ug/kg		J	17
PERFLUOROOCTANOIC ACID	335-67-1	0.57	0.28	0.88	1.1	ug/kg	J	J	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS14-001-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRH295 **Sample Date/Time:** 2017-11-28 12:20 **Validation Level:** Stage 4

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.96	0.31	0.96	1.2	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.60	0.20	0.60	1.2	ug/kg	U	UJ	04D
PERFLUOROBUTANOIC ACID	375-22-4	1.6	0.28	0.60	1.2	ug/kg			
PERFLUORODECANE SULFONATE	335-77-3	1.2	0.47	0.96	1.2	ug/kg			
PERFLUORODECANOIC ACID	335-76-2	1.2	0.34	0.96	1.2	ug/kg	J	J	
PERFLUORODODECANOIC ACID	307-55-1	<0.96	0.34	0.96	1.2	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.64	0.23	0.60	1.2	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	4.0	0.29	0.60	1.2	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	1.3	0.17	0.60	1.2	ug/kg			
PERFLUORONONANOIC ACID	375-95-1	2.7	0.26	0.60	1.2	ug/kg			
PERFLUOROOCTANE SULFONAMIDE	754-91-6	1.0	0.17	0.60	1.2	ug/kg	J	J	
PERFLUOROOCTANE SULFONATE	1763-23-1	120	3.1	9.6	12	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	1.8	0.30	0.96	1.2	ug/kg			
PERFLUOROPENTANOIC ACID	2706-90-3	2.6	0.30	0.96	1.2	ug/kg			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.96	0.37	0.96	1.2	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	0.95	0.41	0.96	1.2	ug/kg	J	J	

Analysis Method: EPA 537 m

Sample Name DOBNS14-002-SD-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRH290 **Sample Date/Time:** 2017-11-29 15:15 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.88	0.29	0.88	1.1	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.55	0.19	0.55	1.1	ug/kg	U	UJ	04D
PERFLUOROBUTANOIC ACID	375-22-4	<0.55	0.25	0.55	1.1	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.55	0.21	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.28	0.26	0.55	1.1	ug/kg	J	J	
PERFLUOROHEXANOIC ACID	307-24-4	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.55	0.24	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.88	0.29	0.88	1.1	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS14-002-SW-001 **Matrix Type:** **Result Type:** TRG

Lab Sample Name: FRH288 **Sample Date/Time:** 2017-11-29 15:15 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.12	0.0066	0.015	0.020	ug/L			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.11	0.0054	0.015	0.020	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.047	0.0055	0.015	0.020	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.039	0.0074	0.015	0.020	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	0.52	0.0056	0.015	0.020	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	0.20	0.0035	0.010	0.020	ug/L			
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.31	0.0060	0.015	0.020	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	0.10	0.0033	0.010	0.020	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	0.10	0.0075	0.018	0.020	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS14-002-SW-901 **Matrix Type:** **Result Type:** TRG

Lab Sample Name: FRH289 **Sample Date/Time:** 2017-11-29 15:15 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.12	0.0066	0.015	0.020	ug/L			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.11	0.0054	0.015	0.020	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.049	0.0055	0.015	0.020	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.040	0.0074	0.015	0.020	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	0.47	0.0056	0.015	0.020	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	0.20	0.0035	0.010	0.020	ug/L			
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.27	0.0060	0.015	0.020	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	0.10	0.0033	0.010	0.020	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	0.11	0.0075	0.018	0.020	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS14-003-SD-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRH299 **Sample Date/Time:** 2017-11-28 16:30 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	1.5	0.31	0.96	1.2	ug/kg			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	1.8	0.40	0.96	1.2	ug/kg			
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.60	0.20	0.60	1.2	ug/kg	U	UJ	04D
PERFLUOROBUTANOIC ACID	375-22-4	<0.60	0.28	0.60	1.2	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.96	0.47	0.96	1.2	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.96	0.34	0.96	1.2	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.96	0.34	0.96	1.2	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.60	0.23	0.60	1.2	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.68	0.29	0.60	1.2	ug/kg	J	J	
PERFLUOROHEXANOIC ACID	307-24-4	0.44	0.17	0.60	1.2	ug/kg	J	J	
PERFLUORONONANOIC ACID	375-95-1	<0.60	0.26	0.60	1.2	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.60	0.17	0.60	1.2	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	20	0.31	0.96	1.2	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	<0.96	0.30	0.96	1.2	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.96	0.30	0.96	1.2	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.96	0.37	0.96	1.2	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.96	0.41	0.96	1.2	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS14-003-SW-001 **Matrix Type:** **Result Type:** TRG

Lab Sample Name: FRH298 **Sample Date/Time:** 2017-11-28 16:30 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.24	0.0066	0.015	0.020	ug/L			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	0.065	0.0066	0.015	0.020	ug/L			
PERFLUOROBUTANE SULFONATE	29420-43-3	0.074	0.0054	0.015	0.020	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.036	0.0055	0.015	0.020	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.053	0.0074	0.015	0.020	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	0.50	0.0056	0.015	0.020	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	0.22	0.0035	0.010	0.020	ug/L			
PERFLUORONONANOIC ACID	375-95-1	0.011	0.0087	0.018	0.020	ug/L	J	J	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.81	0.0060	0.015	0.020	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	0.13	0.0033	0.010	0.020	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	0.12	0.0075	0.018	0.020	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS15-004-SD-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRH294 **Sample Date/Time:** 2017-11-29 16:15 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.84	0.44	1.4	1.7	ug/kg	J	J	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<1.4	0.56	1.4	1.7	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.85	0.29	0.85	1.7	ug/kg	U	UJ	04D
PERFLUOROBUTANOIC ACID	375-22-4	<0.85	0.39	0.85	1.7	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	0.89	0.66	1.4	1.7	ug/kg	J	J	
PERFLUORODECANOIC ACID	335-76-2	<1.4	0.48	1.4	1.7	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	0.55	0.48	1.4	1.7	ug/kg	J	J	
PERFLUOROHEPTANOIC ACID	375-85-9	0.38	0.32	0.85	1.7	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	7.2	0.41	0.85	1.7	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	0.94	0.24	0.85	1.7	ug/kg	J	J	
PERFLUORONONANOIC ACID	375-95-1	<0.85	0.37	0.85	1.7	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	1.5	0.24	0.85	1.7	ug/kg	J	J	
PERFLUOROOCTANE SULFONATE	1763-23-1	53	0.44	1.4	1.7	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	1.3	0.43	1.4	1.7	ug/kg	J	J	
PERFLUOROPENTANOIC ACID	2706-90-3	<1.4	0.43	1.4	1.7	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<1.4	0.53	1.4	1.7	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<1.4	0.56	1.4	1.7	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	0.94	0.58	1.4	1.7	ug/kg	J	J	

Analysis Method: EPA 537 m

Sample Name DOBNS15-004-SW-001 **Matrix Type:** **Result Type:** TRG

Lab Sample Name: FRH293 **Sample Date/Time:** 2017-11-29 16:15 **Validation Level:** Stage 4

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.29	0.0066	0.015	0.020	ug/L			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	0.038	0.0066	0.015	0.020	ug/L			
PERFLUOROBUTANE SULFONATE	29420-43-3	0.069	0.0054	0.015	0.020	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.077	0.0055	0.015	0.020	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.15	0.0074	0.015	0.020	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	1.2	0.056	0.15	0.20	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	0.48	0.0035	0.010	0.020	ug/L			
PERFLUORONONANOIC ACID	375-95-1	0.037	0.0087	0.018	0.020	ug/L			
PERFLUOROOCTANE SULFONAMIDE	754-91-6	0.030	0.0034	0.010	0.020	ug/L			
PERFLUOROOCTANE SULFONATE	1763-23-1	2.0	0.060	0.15	0.20	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	0.38	0.0033	0.010	0.020	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	0.30	0.0075	0.018	0.020	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.10	0.027	0.10	0.20	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.10	0.038	0.10	0.20	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS16-004-SD-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRH291 **Sample Date/Time:** 2017-11-29 16:00 **Validation Level:** Stage 4

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<1.1	0.36	1.1	1.4	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<1.1	0.46	1.1	1.4	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.70	0.24	0.70	1.4	ug/kg	U	UJ	04D
PERFLUOROBUTANOIC ACID	375-22-4	0.92	0.32	0.70	1.4	ug/kg	J	J	
PERFLUORODECANE SULFONATE	335-77-3	0.84	0.55	1.1	1.4	ug/kg	J	J	
PERFLUORODECANOIC ACID	335-76-2	<1.1	0.39	1.1	1.4	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<1.1	0.39	1.1	1.4	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	1.1	0.27	0.70	1.4	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	2.1	0.34	0.70	1.4	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	2.1	0.20	0.70	1.4	ug/kg			
PERFLUORONONANOIC ACID	375-95-1	<0.70	0.31	0.70	1.4	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.70	0.20	0.70	1.4	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	13	0.36	1.1	1.4	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	1.9	0.35	1.1	1.4	ug/kg			
PERFLUOROPENTANOIC ACID	2706-90-3	1.9	0.35	1.1	1.4	ug/kg			
PERFLUOROTETRADECANOIC ACID	376-06-7	<1.1	0.43	1.1	1.4	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<1.1	0.46	1.1	1.4	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<1.1	0.48	1.1	1.4	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS16-004-SW-001 **Matrix Type:** **Result Type:** TRG

Lab Sample Name: FRH292 **Sample Date/Time:** 2017-11-29 16:00 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.19	0.0066	0.015	0.020	ug/L			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	0.0080	0.0066	0.015	0.020	ug/L	J	J	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.085	0.0054	0.015	0.020	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.049	0.0055	0.015	0.020	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.081	0.0074	0.015	0.020	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	0.57	0.0056	0.015	0.020	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	0.26	0.0035	0.010	0.020	ug/L			
PERFLUORONONANOIC ACID	375-95-1	0.0092	0.0087	0.018	0.020	ug/L	J	J	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.33	0.0060	0.015	0.020	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	0.14	0.0033	0.010	0.020	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	0.18	0.0075	0.018	0.020	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS-RS-001 **Matrix Type:** **Result Type:** TRG

Lab Sample Name: FRH300 **Sample Date/Time:** 2017-11-28 16:20 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.015	0.0066	0.015	0.020	ug/L	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.015	0.0054	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.015	0.0055	0.015	0.020	ug/L	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.015	0.0074	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.015	0.0056	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.010	0.0035	0.010	0.020	ug/L	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.010	0.0033	0.010	0.020	ug/L	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.018	0.0075	0.018	0.020	ug/L	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS-RS-002 **Matrix Type:** **Result Type:** TRG

Lab Sample Name: FRH303 **Sample Date/Time:** 2017-11-29 09:48 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.015	0.0066	0.015	0.020	ug/L	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.015	0.0054	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.015	0.0055	0.015	0.020	ug/L	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.015	0.0074	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.015	0.0056	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.010	0.0035	0.010	0.020	ug/L	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.010	0.0033	0.010	0.020	ug/L	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.018	0.0075	0.018	0.020	ug/L	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS-RS-003 **Matrix Type:** **Result Type:** TRG

Lab Sample Name: FRH269 **Sample Date/Time:** 2017-11-30 14:00 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.015	0.0066	0.015	0.020	ug/L	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.015	0.0054	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.015	0.0055	0.015	0.020	ug/L	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.015	0.0074	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.015	0.0056	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.010	0.0035	0.010	0.020	ug/L	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.010	0.0033	0.010	0.020	ug/L	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.018	0.0075	0.018	0.020	ug/L	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS-RS-004 **Matrix Type:** **Result Type:** TRG

Lab Sample Name: FRH283 **Sample Date/Time:** 2017-12-01 11:40 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.015	0.0066	0.015	0.020	ug/L	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.015	0.0054	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.015	0.0055	0.015	0.020	ug/L	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.015	0.0074	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.015	0.0056	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.010	0.0035	0.010	0.020	ug/L	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.010	0.0033	0.010	0.020	ug/L	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.018	0.0075	0.018	0.020	ug/L	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Validated Sample Result Forms: B7R6297

Analysis Method: EPA 537 m

Sample Name DOBNS01-001-SO-024 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRZ753 **Sample Date/Time:** 2017-12-02 08:18 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.80	0.26	0.80	1.0	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.80	0.33	0.80	1.0	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	1.1	0.17	0.50	1.0	ug/kg			
PERFLUOROBUTANOIC ACID	375-22-4	1.5	0.23	0.50	1.0	ug/kg			
PERFLUORODECANE SULFONATE	335-77-3	<0.80	0.39	0.80	1.0	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.80	0.28	0.80	1.0	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.80	0.28	0.80	1.0	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	1.3	0.19	0.50	1.0	ug/kg			
PERFLUOROHEXANE SULFONATE	108427-53-8	13	0.24	0.50	1.0	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	12	0.14	0.50	1.0	ug/kg			
PERFLUORONONANOIC ACID	375-95-1	<0.50	0.22	0.50	1.0	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.50	0.14	0.50	1.0	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.80	0.26	0.80	1.0	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	28	0.25	0.80	1.0	ug/kg			
PERFLUOROPENTANOIC ACID	2706-90-3	1.7	0.25	0.80	1.0	ug/kg			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.80	0.31	0.80	1.0	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.80	0.33	0.80	1.0	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.80	0.34	0.80	1.0	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS01-001-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRZ751 **Sample Date/Time:** 2017-12-02 07:45 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.96	0.31	0.96	1.2	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	1.0	0.20	0.60	1.2	ug/kg	J	J	
PERFLUOROBUTANOIC ACID	375-22-4	2.7	0.28	0.60	1.2	ug/kg			
PERFLUORODECANE SULFONATE	335-77-3	<0.96	0.47	0.96	1.2	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.96	0.34	0.96	1.2	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.96	0.34	0.96	1.2	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.37	0.23	0.60	1.2	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	20	0.29	0.60	1.2	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	3.0	0.17	0.60	1.2	ug/kg			
PERFLUORONONANOIC ACID	375-95-1	<0.60	0.26	0.60	1.2	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	9.8	0.17	0.60	1.2	ug/kg			
PERFLUOROOCTANE SULFONATE	1763-23-1	65	3.1	9.6	12	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	3.6	0.30	0.96	1.2	ug/kg			
PERFLUOROPENTANOIC ACID	2706-90-3	2.9	0.30	0.96	1.2	ug/kg			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.96	0.37	0.96	1.2	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.96	0.41	0.96	1.2	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS01-002-SO-029 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRZ758 **Sample Date/Time:** 2017-12-02 09:40 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.88	0.29	0.88	1.1	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.55	0.19	0.55	1.1	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.55	0.25	0.55	1.1	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.54	0.21	0.55	1.1	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	5.3	0.26	0.55	1.1	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	2.3	0.15	0.55	1.1	ug/kg			
PERFLUORONONANOIC ACID	375-95-1	<0.55	0.24	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.45	0.29	0.88	1.1	ug/kg	J	J	
PERFLUOROOCTANOIC ACID	335-67-1	23	0.28	0.88	1.1	ug/kg			
PERFLUOROPENTANOIC ACID	2706-90-3	0.65	0.28	0.88	1.1	ug/kg	J	J	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS01-002-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRZ756 **Sample Date/Time:** 2017-12-02 09:12 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.80	0.26	0.80	1.0	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.80	0.33	0.80	1.0	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.92	0.17	0.50	1.0	ug/kg	J	J	
PERFLUOROBUTANOIC ACID	375-22-4	5.4	0.23	0.50	1.0	ug/kg			
PERFLUORODECANE SULFONATE	335-77-3	<0.80	0.39	0.80	1.0	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	0.49	0.28	0.80	1.0	ug/kg	J	J	
PERFLUORODODECANOIC ACID	307-55-1	<0.80	0.28	0.80	1.0	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.62	0.19	0.50	1.0	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	7.6	0.24	0.50	1.0	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	5.2	0.14	0.50	1.0	ug/kg			
PERFLUORONONANOIC ACID	375-95-1	<0.50	0.22	0.50	1.0	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.50	0.14	0.50	1.0	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	28	0.26	0.80	1.0	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	5.5	0.25	0.80	1.0	ug/kg			
PERFLUOROPENTANOIC ACID	2706-90-3	4.9	0.25	0.80	1.0	ug/kg			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.80	0.31	0.80	1.0	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.80	0.33	0.80	1.0	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.80	0.34	0.80	1.0	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS01-002-SS-901 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRZ757 **Sample Date/Time:** 2017-12-02 09:12 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.96	0.31	0.96	1.2	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	1.1	0.20	0.60	1.2	ug/kg	J	J	
PERFLUOROBUTANOIC ACID	375-22-4	5.2	0.28	0.60	1.2	ug/kg			
PERFLUORODECANE SULFONATE	335-77-3	<0.96	0.47	0.96	1.2	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.96	0.34	0.96	1.2	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.96	0.34	0.96	1.2	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.60	0.23	0.60	1.2	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	6.1	0.29	0.60	1.2	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	5.1	0.17	0.60	1.2	ug/kg			
PERFLUORONONANOIC ACID	375-95-1	<0.60	0.26	0.60	1.2	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.60	0.17	0.60	1.2	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	23	0.31	0.96	1.2	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	5.2	0.30	0.96	1.2	ug/kg			
PERFLUOROPENTANOIC ACID	2706-90-3	4.3	0.30	0.96	1.2	ug/kg			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.96	0.37	0.96	1.2	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.96	0.41	0.96	1.2	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS01-003-SO-024 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRZ755 **Sample Date/Time:** 2017-12-02 08:55 **Validation Level:** Stage 4

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.88	0.29	0.88	1.1	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.55	0.19	0.55	1.1	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.55	0.25	0.55	1.1	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.42	0.21	0.55	1.1	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	3.8	0.26	0.55	1.1	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	1.4	0.15	0.55	1.1	ug/kg			
PERFLUORONONANOIC ACID	375-95-1	<0.55	0.24	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.43	0.29	0.88	1.1	ug/kg	J	J	
PERFLUOROOCTANOIC ACID	335-67-1	7.3	0.28	0.88	1.1	ug/kg			
PERFLUOROPENTANOIC ACID	2706-90-3	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS01-003-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRZ754 **Sample Date/Time:** 2017-12-02 08:30 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.74	0.24	0.74	0.92	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.74	0.30	0.74	0.92	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.80	0.16	0.46	0.92	ug/kg	J	J	
PERFLUOROBUTANOIC ACID	375-22-4	<0.46	0.21	0.46	0.92	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	0.88	0.36	0.74	0.92	ug/kg	J	J	
PERFLUORODECANOIC ACID	335-76-2	0.97	0.26	0.74	0.92	ug/kg			
PERFLUORODODECANOIC ACID	307-55-1	<0.74	0.26	0.74	0.92	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.54	0.17	0.46	0.92	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	26	0.22	0.46	0.92	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	5.3	0.13	0.46	0.92	ug/kg			
PERFLUORONONANOIC ACID	375-95-1	<0.46	0.20	0.46	0.92	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	17	0.13	0.46	0.92	ug/kg			
PERFLUOROOCTANE SULFONATE	1763-23-1	200	2.4	7.4	9.2	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	6.9	0.23	0.74	0.92	ug/kg			
PERFLUOROPENTANOIC ACID	2706-90-3	1.7	0.23	0.74	0.92	ug/kg			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.74	0.29	0.74	0.92	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.74	0.30	0.74	0.92	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.74	0.31	0.74	0.92	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS05-001-SO-028 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRZ795 **Sample Date/Time:** 2017-12-05 11:33 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.96	0.31	0.96	1.2	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.60	0.20	0.60	1.2	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<6.0	2.8	6.0	12	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.96	0.47	0.96	1.2	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.96	0.34	0.96	1.2	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.96	0.34	0.96	1.2	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.60	0.23	0.60	1.2	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.60	0.29	0.60	1.2	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.60	0.17	0.60	1.2	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.60	0.26	0.60	1.2	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.60	0.17	0.60	1.2	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.96	0.31	0.96	1.2	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.96	0.30	0.96	1.2	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.96	0.30	0.96	1.2	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.96	0.37	0.96	1.2	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.96	0.41	0.96	1.2	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS05-001-SO-928 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRZ796 **Sample Date/Time:** 2017-12-05 11:33 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.88	0.29	0.88	1.1	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.55	0.19	0.55	1.1	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.55	0.25	0.55	1.1	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.55	0.21	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.55	0.26	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.55	0.24	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	1.3	0.29	0.88	1.1	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS05-001-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRZ794 **Sample Date/Time:** 2017-12-05 10:45 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.96	0.31	0.96	1.2	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.43	0.20	0.60	1.2	ug/kg	J	J	
PERFLUOROBUTANOIC ACID	375-22-4	2.3	0.28	0.60	1.2	ug/kg			
PERFLUORODECANE SULFONATE	335-77-3	<0.96	0.47	0.96	1.2	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	0.51	0.34	0.96	1.2	ug/kg	J	J	
PERFLUORODODECANOIC ACID	307-55-1	<0.96	0.34	0.96	1.2	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	1.2	0.23	0.60	1.2	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	5.4	0.29	0.60	1.2	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	3.5	0.17	0.60	1.2	ug/kg			
PERFLUORONONANOIC ACID	375-95-1	2.4	0.26	0.60	1.2	ug/kg			
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.60	0.17	0.60	1.2	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	72	3.1	9.6	12	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	2.3	0.30	0.96	1.2	ug/kg			
PERFLUOROPENTANOIC ACID	2706-90-3	4.2	0.30	0.96	1.2	ug/kg			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.96	0.37	0.96	1.2	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.96	0.41	0.96	1.2	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS05-002-SO-033 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRZ799 **Sample Date/Time:** 2017-12-05 13:22 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.88	0.29	0.88	1.1	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	1.5	0.19	0.55	1.1	ug/kg			
PERFLUOROBUTANOIC ACID	375-22-4	0.73	0.25	0.55	1.1	ug/kg	J	J	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	1.2	0.21	0.55	1.1	ug/kg			
PERFLUOROHEXANE SULFONATE	108427-53-8	34	0.26	0.55	1.1	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	8.4	0.15	0.55	1.1	ug/kg			
PERFLUORONONANOIC ACID	375-95-1	<0.55	0.24	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.32	0.29	0.88	1.1	ug/kg	J	J	
PERFLUOROOCTANOIC ACID	335-67-1	4.4	0.28	0.88	1.1	ug/kg			
PERFLUOROPENTANOIC ACID	2706-90-3	2.3	0.28	0.88	1.1	ug/kg			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS05-002-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRZ798 **Sample Date/Time:** 2017-12-05 12:10 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<1.0	0.34	1.0	1.3	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<1.0	0.43	1.0	1.3	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.65	0.22	0.65	1.3	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	1.2	0.30	0.65	1.3	ug/kg	J	J	
PERFLUORODECANE SULFONATE	335-77-3	2.6	0.51	1.0	1.3	ug/kg			
PERFLUORODECANOIC ACID	335-76-2	1.2	0.36	1.0	1.3	ug/kg	J	J	
PERFLUORODODECANOIC ACID	307-55-1	0.64	0.36	1.0	1.3	ug/kg	J	J	
PERFLUOROHEPTANOIC ACID	375-85-9	0.33	0.25	0.65	1.3	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	6.0	0.31	0.65	1.3	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	2.0	0.18	0.65	1.3	ug/kg			
PERFLUORONONANOIC ACID	375-95-1	1.2	0.29	0.65	1.3	ug/kg	J	J	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	2.5	0.18	0.65	1.3	ug/kg			
PERFLUOROOCTANE SULFONATE	1763-23-1	71	3.4	10	13	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	1.2	0.33	1.0	1.3	ug/kg	J	J	
PERFLUOROPENTANOIC ACID	2706-90-3	2.1	0.33	1.0	1.3	ug/kg			
PERFLUOROTETRADECANOIC ACID	376-06-7	<1.0	0.40	1.0	1.3	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	0.46	0.43	1.0	1.3	ug/kg	J	J	
PERFLUOROUNDECANOIC ACID	2058-94-8	1.6	0.44	1.0	1.3	ug/kg			

Analysis Method: EPA 537 m

Sample Name DOBNS05-003-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRZ800 **Sample Date/Time:** 2017-12-05 13:40 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.80	0.26	0.80	1.0	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.80	0.33	0.80	1.0	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.50	0.17	0.50	1.0	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.50	0.23	0.50	1.0	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.80	0.39	0.80	1.0	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.80	0.28	0.80	1.0	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.80	0.28	0.80	1.0	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.50	0.19	0.50	1.0	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.59	0.24	0.50	1.0	ug/kg	J	J	
PERFLUOROHEXANOIC ACID	307-24-4	0.22	0.14	0.50	1.0	ug/kg	J	J	
PERFLUORONONANOIC ACID	375-95-1	<0.50	0.22	0.50	1.0	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.50	0.14	0.50	1.0	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	15	0.26	0.80	1.0	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	<0.80	0.25	0.80	1.0	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	0.38	0.25	0.80	1.0	ug/kg	J	J	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.80	0.31	0.80	1.0	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.80	0.33	0.80	1.0	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.80	0.34	0.80	1.0	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS06-001-GW-032 **Matrix Type:** **Result Type:** TRG

Lab Sample Name: FRZ792 **Sample Date/Time:** 2017-12-05 10:00 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	2.3	0.033	0.075	0.10	ug/L			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	0.056	0.033	0.075	0.10	ug/L	J	J	
PERFLUOROBUTANE SULFONATE	29420-43-3	1.5	0.027	0.075	0.10	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.57	0.028	0.075	0.10	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.075	0.030	0.075	0.10	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.075	0.031	0.075	0.10	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.050	0.025	0.050	0.10	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.29	0.037	0.075	0.10	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	8.2	0.28	0.75	1.0	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	2.2	0.018	0.050	0.10	ug/L			
PERFLUORONONANOIC ACID	375-95-1	0.062	0.044	0.090	0.10	ug/L	J	J	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	0.056	0.017	0.050	0.10	ug/L	J	J	
PERFLUOROOCTANE SULFONATE	1763-23-1	19	0.30	0.75	1.0	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	1.2	0.017	0.050	0.10	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	0.70	0.038	0.090	0.10	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.050	0.014	0.050	0.10	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.050	0.019	0.050	0.10	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.050	0.013	0.050	0.10	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS06-001-GW-932 **Matrix Type:** **Result Type:** TRG

Lab Sample Name: FRZ793 **Sample Date/Time:** 2017-12-05 10:00 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	2.2	0.033	0.075	0.10	ug/L			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	0.034	0.033	0.075	0.10	ug/L	J	J	
PERFLUOROBUTANE SULFONATE	29420-43-3	1.5	0.027	0.075	0.10	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.59	0.028	0.075	0.10	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.075	0.030	0.075	0.10	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.075	0.031	0.075	0.10	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.050	0.025	0.050	0.10	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.28	0.037	0.075	0.10	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	8.0	0.28	0.75	1.0	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	2.4	0.018	0.050	0.10	ug/L			
PERFLUORONONANOIC ACID	375-95-1	0.070	0.044	0.090	0.10	ug/L	J	J	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	0.075	0.017	0.050	0.10	ug/L	J	J	
PERFLUOROOCTANE SULFONATE	1763-23-1	17	0.30	0.75	1.0	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	1.3	0.017	0.050	0.10	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	0.83	0.038	0.090	0.10	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.050	0.014	0.050	0.10	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.050	0.019	0.050	0.10	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.050	0.013	0.050	0.10	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS06-001-SO-028 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRZ790 **Sample Date/Time:** 2017-12-05 09:15 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.96	0.31	0.96	1.2	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.60	0.20	0.60	1.2	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.60	0.28	0.60	1.2	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.96	0.47	0.96	1.2	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.96	0.34	0.96	1.2	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.96	0.34	0.96	1.2	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.60	0.23	0.60	1.2	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.60	0.29	0.60	1.2	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.60	0.17	0.60	1.2	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.60	0.26	0.60	1.2	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.60	0.17	0.60	1.2	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.96	0.31	0.96	1.2	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.96	0.30	0.96	1.2	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.96	0.30	0.96	1.2	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.96	0.37	0.96	1.2	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.96	0.41	0.96	1.2	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS06-001-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRZ789 **Sample Date/Time:** 2017-12-05 08:33 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<75.0	24	75.0	94	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<750	310	750	940	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	27	16	47	94	ug/kg	J	J	
PERFLUOROBUTANOIC ACID	375-22-4	<47	22	47	94	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<75	37	75	94	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<75	26	75	94	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<75	26	75	94	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<47	18	47	94	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	440	23	47	94	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	44	13	47	94	ug/kg	J	J	
PERFLUORONONANOIC ACID	375-95-1	<47	21	47	94	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	560	13	47	94	ug/kg			
PERFLUOROOCTANE SULFONATE	1763-23-1	22000	240	750	940	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	<75	24	75	94	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<75	24	75	94	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<75	29	75	94	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<75	31	75	94	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<75	32	75	94	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS06-002-SO-030 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRZ785 **Sample Date/Time:** 2017-12-04 09:00 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.80	0.26	0.80	1.0	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.80	0.33	0.80	1.0	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	8.6	0.17	0.50	1.0	ug/kg			
PERFLUOROBUTANOIC ACID	375-22-4	5.3	0.23	0.50	1.0	ug/kg			
PERFLUORODECANE SULFONATE	335-77-3	<0.80	0.39	0.80	1.0	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.80	0.28	0.80	1.0	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.80	0.28	0.80	1.0	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.50	0.19	0.50	1.0	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.47	0.24	0.50	1.0	ug/kg	J	J	
PERFLUOROHEXANOIC ACID	307-24-4	72	1.4	5.0	10	ug/kg			
PERFLUORONONANOIC ACID	375-95-1	<0.50	0.22	0.50	1.0	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.50	0.14	0.50	1.0	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.38	0.26	0.80	1.0	ug/kg	J	J	
PERFLUOROOCTANOIC ACID	335-67-1	<0.80	0.25	0.80	1.0	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	16	0.25	0.80	1.0	ug/kg			
PERFLUOROTETRADECANOIC ACID	376-06-7	<8.0	3.1	8.0	10	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<8.0	3.3	8.0	10	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.80	0.34	0.80	1.0	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS06-002-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRZ784 **Sample Date/Time:** 2017-12-04 08:35 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	5.7	3.1	9.6	12	ug/kg	J	J	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<9.6	4.0	9.6	12	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<6.0	2.0	6.0	12	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<6.0	2.8	6.0	12	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	13	4.7	9.6	12	ug/kg			
PERFLUORODECANOIC ACID	335-76-2	10	3.4	9.6	12	ug/kg	J	J	
PERFLUORODODECANOIC ACID	307-55-1	5.3	3.4	9.6	12	ug/kg	J	J	
PERFLUOROHEPTANOIC ACID	375-85-9	2.5	2.3	6.0	12	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	85	2.9	6.0	12	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	8.6	1.7	6.0	12	ug/kg	J	J	
PERFLUORONONANOIC ACID	375-95-1	8.4	2.6	6.0	12	ug/kg	J	J	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	86	1.7	6.0	12	ug/kg			
PERFLUOROOCTANE SULFONATE	1763-23-1	1200	31	96	120	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	8.2	3.0	9.6	12	ug/kg	J	J	
PERFLUOROPENTANOIC ACID	2706-90-3	8.2	3.0	9.6	12	ug/kg	J	J	
PERFLUOROTETRADECANOIC ACID	376-06-7	<9.6	3.7	9.6	12	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<9.6	4.0	9.6	12	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	8.0	4.1	9.6	12	ug/kg	J	J	

Analysis Method: EPA 537 m

Sample Name DOBNS06-003-SO-028 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRZ787 **Sample Date/Time:** 2017-12-04 10:05 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	3.6	3.4	10	13	ug/kg	J	J	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<10	4.3	10	13	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	3.3	2.2	6.5	13	ug/kg	J	J	
PERFLUOROBUTANOIC ACID	375-22-4	<6.5	3.0	6.5	13	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<10	5.1	10	13	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<10	3.6	10	13	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<10	3.6	10	13	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<6.5	2.5	6.5	13	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	62	3.1	6.5	13	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	16	1.8	6.5	13	ug/kg			
PERFLUORONONANOIC ACID	375-95-1	<6.5	2.9	6.5	13	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<6.5	1.8	6.5	13	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<10	3.4	10	13	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	90	3.3	10	13	ug/kg			
PERFLUOROPENTANOIC ACID	2706-90-3	7.8	3.3	10	13	ug/kg	J	J	
PERFLUOROTETRADECANOIC ACID	376-06-7	<10	4.0	10	13	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<10	4.3	10	13	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<10	4.4	10	13	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS06-003-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRZ786 **Sample Date/Time:** 2017-12-04 09:30 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<8.8	2.9	8.8	11	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<8.8	3.6	8.8	11	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<5.5	1.9	5.5	11	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<5.5	2.5	5.5	11	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	23	4.3	8.8	11	ug/kg			
PERFLUORODECANOIC ACID	335-76-2	8.7	3.1	8.8	11	ug/kg	J	J	
PERFLUORODODECANOIC ACID	307-55-1	7.2	3.1	8.8	11	ug/kg	J	J	
PERFLUOROHEPTANOIC ACID	375-85-9	7.9	2.1	5.5	11	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	150	2.6	5.5	11	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	35	1.5	5.5	11	ug/kg			
PERFLUORONONANOIC ACID	375-95-1	<5.5	2.4	5.5	11	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	4300	15	55	110	ug/kg			
PERFLUOROOCTANE SULFONATE	1763-23-1	2700	29	88	110	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	95	2.8	8.8	11	ug/kg			
PERFLUOROPENTANOIC ACID	2706-90-3	7.5	2.8	8.8	11	ug/kg	J	J	
PERFLUOROTETRADECANOIC ACID	376-06-7	<8.8	3.4	8.8	11	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<8.8	3.6	8.8	11	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	6.2	3.7	8.8	11	ug/kg	J	J	

Analysis Method: EPA 537 m

Sample Name DOBNS07-001-GW-020 **Matrix Type:** **Result Type:** TRG

Lab Sample Name: FRZ805 **Sample Date/Time:** 2017-12-05 13:00 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.015	0.0066	0.015	0.020	ug/L	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.0073	0.0054	0.015	0.020	ug/L	J	J	
PERFLUOROBUTANOIC ACID	375-22-4	<0.015	0.0055	0.015	0.020	ug/L	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.015	0.0074	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.058	0.0056	0.015	0.020	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	<0.010	0.0035	0.010	0.020	ug/L	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.010	0.0033	0.010	0.020	ug/L	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.018	0.0075	0.018	0.020	ug/L	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS07-001-SO-015 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRZ775 **Sample Date/Time:** 2017-12-03 11:20 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<1.0	0.34	1.0	1.3	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<1.0	0.43	1.0	1.3	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.65	0.22	0.65	1.3	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.65	0.30	0.65	1.3	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<1.0	0.51	1.0	1.3	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<1.0	0.36	1.0	1.3	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<1.0	0.36	1.0	1.3	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.65	0.25	0.65	1.3	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.65	0.31	0.65	1.3	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.65	0.18	0.65	1.3	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.65	0.29	0.65	1.3	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.65	0.18	0.65	1.3	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<1.0	0.34	1.0	1.3	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<1.0	0.33	1.0	1.3	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<1.0	0.33	1.0	1.3	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<1.0	0.40	1.0	1.3	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<1.0	0.43	1.0	1.3	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<1.0	0.44	1.0	1.3	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS07-001-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRZ773 **Sample Date/Time:** 2017-12-03 11:12 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.88	0.29	0.88	1.1	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.55	0.19	0.55	1.1	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.55	0.25	0.55	1.1	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.55	0.21	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.55	0.26	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	0.34	0.15	0.55	1.1	ug/kg	J	J	
PERFLUORONONANOIC ACID	375-95-1	<0.55	0.24	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.88	0.29	0.88	1.1	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS07-001-SS-901 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRZ774 **Sample Date/Time:** 2017-12-03 11:12 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.78	0.25	0.78	0.97	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.78	0.32	0.78	0.97	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.49	0.16	0.49	0.97	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.49	0.22	0.49	0.97	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.78	0.38	0.78	0.97	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.78	0.27	0.78	0.97	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.78	0.27	0.78	0.97	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.49	0.18	0.49	0.97	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.49	0.23	0.49	0.97	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.49	0.14	0.49	0.97	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.49	0.21	0.49	0.97	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.49	0.14	0.49	0.97	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.78	0.25	0.78	0.97	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.78	0.24	0.78	0.97	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.78	0.24	0.78	0.97	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.78	0.30	0.78	0.97	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.78	0.32	0.78	0.97	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.78	0.33	0.78	0.97	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS07-002-GW-024 **Matrix Type:** **Result Type:** TRG

Lab Sample Name: FRZ778 **Sample Date/Time:** 2017-12-03 12:45 **Validation Level:** Stage 4

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.015	0.0066	0.015	0.020	ug/L	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.015	0.0054	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.015	0.0055	0.015	0.020	ug/L	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.015	0.0074	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.093	0.0056	0.015	0.020	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	<0.010	0.0035	0.010	0.020	ug/L	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.010	0.0033	0.010	0.020	ug/L	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.018	0.0075	0.018	0.020	ug/L	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS07-002-SO-018 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRZ777 **Sample Date/Time:** 2017-12-03 12:35 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.88	0.29	0.88	1.1	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.55	0.19	0.55	1.1	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.55	0.25	0.55	1.1	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.55	0.21	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.55	0.26	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.55	0.24	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.88	0.29	0.88	1.1	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<9.6	3.4	8.8	11	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<9.6	3.6	9.6	11	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS07-002-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRZ776 **Sample Date/Time:** 2017-12-03 12:22 **Validation Level:** Stage 4

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.80	0.26	0.80	1.0	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.80	0.33	0.80	1.0	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.50	0.17	0.50	1.0	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.50	0.23	0.50	1.0	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.80	0.39	0.80	1.0	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.80	0.28	0.80	1.0	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.80	0.28	0.80	1.0	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.50	0.19	0.50	1.0	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.50	0.24	0.50	1.0	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.50	0.14	0.50	1.0	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.50	0.22	0.50	1.0	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.50	0.14	0.50	1.0	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.50	0.26	0.80	1.0	ug/kg	J	J	
PERFLUOROOCTANOIC ACID	335-67-1	<0.80	0.25	0.80	1.0	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.80	0.25	0.80	1.0	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.80	0.31	0.80	1.0	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.80	0.33	0.80	1.0	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.80	0.34	0.80	1.0	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS07-003-GW-024 **Matrix Type:** **Result Type:** TRG

Lab Sample Name: FRZ782 **Sample Date/Time:** 2017-12-03 13:58 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.015	0.0066	0.015	0.020	ug/L	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.015	0.0054	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.015	0.0055	0.015	0.020	ug/L	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.015	0.0074	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.0081	0.0056	0.015	0.020	ug/L	J	J	
PERFLUOROHEXANOIC ACID	307-24-4	<0.010	0.0035	0.010	0.020	ug/L	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.0097	0.0060	0.015	0.020	ug/L	J	J	
PERFLUOROOCTANOIC ACID	335-67-1	0.0091	0.0033	0.010	0.020	ug/L	J	J	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.018	0.0075	0.018	0.020	ug/L	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS07-003-SO-020 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRZ781 **Sample Date/Time:** 2017-12-03 13:50 **Validation Level:** Stage 4

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.88	0.29	0.88	1.1	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.55	0.19	0.55	1.1	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.55	0.25	0.55	1.1	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.55	0.21	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.55	0.26	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.55	0.24	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.88	0.29	0.88	1.1	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS07-003-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRZ780 **Sample Date/Time:** 2017-12-03 13:45 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.80	0.26	0.80	1.0	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.80	0.33	0.80	1.0	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.50	0.17	0.50	1.0	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.50	0.23	0.50	1.0	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.80	0.39	0.80	1.0	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.80	0.28	0.80	1.0	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.80	0.28	0.80	1.0	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.50	0.19	0.50	1.0	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.50	0.24	0.50	1.0	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.50	0.14	0.50	1.0	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.50	0.22	0.50	1.0	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.50	0.14	0.50	1.0	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.38	0.26	0.80	1.0	ug/kg	J	J	
PERFLUOROOCTANOIC ACID	335-67-1	<0.80	0.25	0.80	1.0	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.80	0.25	0.80	1.0	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.80	0.31	0.80	1.0	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.80	0.33	0.80	1.0	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.80	0.34	0.80	1.0	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS07-004-GW-025 **Matrix Type:** **Result Type:** TRG

Lab Sample Name: FRZ804 **Sample Date/Time:** 2017-12-05 12:36 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.015	0.0066	0.015	0.020	ug/L	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.015	0.0054	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.015	0.0055	0.015	0.020	ug/L	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.015	0.0074	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.0073	0.0056	0.015	0.020	ug/L	J	J	
PERFLUOROHEXANOIC ACID	307-24-4	<0.010	0.0035	0.010	0.020	ug/L	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.010	0.0033	0.010	0.020	ug/L	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.018	0.0075	0.018	0.020	ug/L	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS07-004-SO-020 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRZ783 **Sample Date/Time:** 2017-12-03 14:30 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.88	0.29	0.88	1.1	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.55	0.19	0.55	1.1	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.55	0.25	0.55	1.1	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.55	0.21	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.55	0.26	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.55	0.24	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.88	0.29	0.88	1.1	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS07-004-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRZ772 **Sample Date/Time:** 2017-12-03 10:10 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.88	0.29	0.88	1.1	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.55	0.19	0.55	1.1	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.55	0.25	0.55	1.1	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.37	0.21	0.55	1.1	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.55	0.26	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	0.33	0.15	0.55	1.1	ug/kg	J	J	
PERFLUORONONANOIC ACID	375-95-1	<0.55	0.24	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.55	0.29	0.88	1.1	ug/kg	J	J	
PERFLUOROOCTANOIC ACID	335-67-1	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS07-005-GW-025 **Matrix Type:** **Result Type:** TRG

Lab Sample Name: FRZ802 **Sample Date/Time:** 2017-12-05 11:40 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.015	0.0066	0.015	0.020	ug/L	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.015	0.0054	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.015	0.0055	0.015	0.020	ug/L	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.015	0.0074	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.010	0.0056	0.015	0.020	ug/L	J	J	
PERFLUOROHEXANOIC ACID	307-24-4	<0.010	0.0035	0.010	0.020	ug/L	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.010	0.0033	0.010	0.020	ug/L	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.018	0.0075	0.018	0.020	ug/L	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS07-005-SO-024 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRZ762 **Sample Date/Time:** 2017-12-02 13:45 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.88	0.29	0.88	1.1	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.55	0.19	0.55	1.1	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.55	0.25	0.55	1.1	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.55	0.21	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.55	0.26	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.55	0.24	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.88	0.29	0.88	1.1	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS07-005-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRZ761 **Sample Date/Time:** 2017-12-02 13:30 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.88	0.29	0.88	1.1	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.55	0.19	0.55	1.1	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.55	0.25	0.55	1.1	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.55	0.21	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.87	0.26	0.55	1.1	ug/kg	J	J	
PERFLUOROHEXANOIC ACID	307-24-4	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.55	0.24	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.82	0.29	0.88	1.1	ug/kg	J	J	
PERFLUOROOCTANOIC ACID	335-67-1	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS07-006-GW-025 **Matrix Type:** **Result Type:** TRG

Lab Sample Name: FRZ765 **Sample Date/Time:** 2017-12-02 15:00 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.011	0.0066	0.015	0.020	ug/L	J	J	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.0075	0.0054	0.015	0.020	ug/L	J	J	
PERFLUOROBUTANOIC ACID	375-22-4	<0.015	0.0055	0.015	0.020	ug/L	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.015	0.0074	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.066	0.0056	0.015	0.020	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	0.015	0.0035	0.010	0.020	ug/L	J	J	
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.15	0.0060	0.015	0.020	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	0.012	0.0033	0.010	0.020	ug/L	J	J	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.018	0.0075	0.018	0.020	ug/L	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS07-006-SO-020 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRZ764 **Sample Date/Time:** 2017-12-02 14:40 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<9.6	3.1	9.6	12	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<9.6	4.0	9.6	12	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.60	0.20	0.60	1.2	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<6.0	2.8	6.0	12	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.96	0.47	0.96	1.2	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.96	0.34	0.96	1.2	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.96	0.34	0.96	1.2	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.60	0.23	0.60	1.2	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<6.0	2.9	6.0	12	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.60	0.17	0.60	1.2	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.60	0.26	0.60	1.2	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.60	0.17	0.60	1.2	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.96	0.31	0.96	1.2	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.96	0.30	0.96	1.2	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.96	0.30	0.96	1.2	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<9.6	3.7	9.6	12	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<9.6	4.0	9.6	12	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<9.6	4.1	9.6	12	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS07-006-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRZ763 **Sample Date/Time:** 2017-12-02 14:27 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.88	0.29	0.88	1.1	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.55	0.19	0.55	1.1	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.55	0.25	0.55	1.1	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.55	0.21	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.44	0.26	0.55	1.1	ug/kg	J	J	
PERFLUOROHEXANOIC ACID	307-24-4	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.55	0.24	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.88	0.29	0.88	1.1	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS07-007-GW-029 **Matrix Type:** **Result Type:** TRG

Lab Sample Name: FRZ768 **Sample Date/Time:** 2017-12-03 08:50 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.015	0.0066	0.015	0.020	ug/L	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.015	0.0054	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.015	0.0055	0.015	0.020	ug/L	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.015	0.0074	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.018	0.0056	0.015	0.020	ug/L	J	J	
PERFLUOROHEXANOIC ACID	307-24-4	<0.010	0.0035	0.010	0.020	ug/L	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.021	0.0060	0.015	0.020	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	0.0080	0.0033	0.010	0.020	ug/L	J	J	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.018	0.0075	0.018	0.020	ug/L	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS07-007-SO-019 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRZ767 **Sample Date/Time:** 2017-12-02 17:07 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.79	0.26	0.79	0.99	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.79	0.33	0.79	0.99	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.50	0.17	0.50	0.99	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.50	0.23	0.50	0.99	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.79	0.39	0.79	0.99	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.79	0.28	0.79	0.99	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.79	0.28	0.79	0.99	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.50	0.19	0.50	0.99	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.50	0.24	0.50	0.99	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.50	0.14	0.50	0.99	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.50	0.22	0.50	0.99	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.50	0.14	0.50	0.99	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.79	0.26	0.79	0.99	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.79	0.25	0.79	0.99	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.79	0.25	0.79	0.99	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.79	0.31	0.79	0.99	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.79	0.33	0.79	0.99	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.79	0.34	0.79	0.99	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS07-007-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRZ766 **Sample Date/Time:** 2017-12-02 15:50 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.80	0.26	0.80	1.0	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.80	0.33	0.80	1.0	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.50	0.17	0.50	1.0	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.50	0.23	0.50	1.0	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.80	0.39	0.80	1.0	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.80	0.28	0.80	1.0	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.80	0.28	0.80	1.0	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.50	0.19	0.50	1.0	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.50	0.24	0.50	1.0	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.50	0.14	0.50	1.0	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.50	0.22	0.50	1.0	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.50	0.14	0.50	1.0	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.80	0.26	0.80	1.0	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.80	0.25	0.80	1.0	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.80	0.25	0.80	1.0	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.80	0.31	0.80	1.0	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.80	0.33	0.80	1.0	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.80	0.34	0.80	1.0	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS07-008-GW-029 **Matrix Type:** **Result Type:** TRG

Lab Sample Name: FRZ803 **Sample Date/Time:** 2017-12-05 12:04 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.015	0.0066	0.015	0.020	ug/L	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.015	0.0054	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.015	0.0055	0.015	0.020	ug/L	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.015	0.0074	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.015	0.0056	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.010	0.0035	0.010	0.020	ug/L	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.010	0.0033	0.010	0.020	ug/L	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.018	0.0075	0.018	0.020	ug/L	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS07-008-SO-025 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRZ770 **Sample Date/Time:** 2017-12-03 09:35 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.88	0.29	0.88	1.1	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.55	0.19	0.55	1.1	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.55	0.25	0.55	1.1	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.55	0.21	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.55	0.26	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.55	0.24	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.88	0.29	0.88	1.1	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS07-008-SO-925 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRZ771 **Sample Date/Time:** 2017-12-03 09:35 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.88	0.29	0.88	1.1	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.55	0.19	0.55	1.1	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.55	0.25	0.55	1.1	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.55	0.21	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.55	0.26	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.55	0.24	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.88	0.29	0.88	1.1	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS07-008-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRZ769 **Sample Date/Time:** 2017-12-03 09:15 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.88	0.29	0.88	1.1	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.55	0.19	0.55	1.1	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.55	0.25	0.55	1.1	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.55	0.21	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.55	0.26	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	0.32	0.15	0.55	1.1	ug/kg	J	J	
PERFLUORONONANOIC ACID	375-95-1	<0.55	0.24	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.50	0.29	0.88	1.1	ug/kg	J	J	
PERFLUOROOCTANOIC ACID	335-67-1	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS10-002-GW-025 **Matrix Type:** **Result Type:** TRG

Lab Sample Name: FRZ788 **Sample Date/Time:** 2017-12-04 17:15 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.015	0.0066	0.015	0.020	ug/L	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.015	0.0054	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.015	0.0055	0.015	0.020	ug/L	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.015	0.0074	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.020	0.0056	0.015	0.020	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	<0.010	0.0035	0.010	0.020	ug/L	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.010	0.0033	0.010	0.020	ug/L	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.018	0.0075	0.018	0.020	ug/L	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS13-004-SO-051 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRZ760 **Sample Date/Time:** 2017-12-02 11:30 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.88	0.29	0.88	1.1	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.55	0.19	0.55	1.1	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.55	0.25	0.55	1.1	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.55	0.21	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.55	0.26	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.55	0.24	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.88	0.29	0.88	1.1	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS13-004-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FRZ759 **Sample Date/Time:** 2017-12-02 10:40 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	1.1	0.26	0.80	1.0	ug/kg			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.80	0.33	0.80	1.0	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	7.1	0.17	0.50	1.0	ug/kg			
PERFLUOROBUTANOIC ACID	375-22-4	4.2	0.23	0.50	1.0	ug/kg			
PERFLUORODECANE SULFONATE	335-77-3	0.62	0.39	0.80	1.0	ug/kg	J	J	
PERFLUORODECANOIC ACID	335-76-2	0.81	0.28	0.80	1.0	ug/kg	J	J	
PERFLUORODODECANOIC ACID	307-55-1	<0.80	0.28	0.80	1.0	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.68	0.19	0.50	1.0	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	28	0.24	0.50	1.0	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	6.1	0.14	0.50	1.0	ug/kg			
PERFLUORONONANOIC ACID	375-95-1	1.0	0.22	0.50	1.0	ug/kg			
PERFLUOROOCTANE SULFONAMIDE	754-91-6	1.1	0.14	0.50	1.0	ug/kg			
PERFLUOROOCTANE SULFONATE	1763-23-1	270	2.6	8.0	10	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	1.4	0.25	0.80	1.0	ug/kg			
PERFLUOROPENTANOIC ACID	2706-90-3	6.0	0.25	0.80	1.0	ug/kg			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.80	0.31	0.80	1.0	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.80	0.33	0.80	1.0	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.80	0.34	0.80	1.0	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS-RS-005 **Matrix Type:** **Result Type:** TRG

Lab Sample Name: FRZ752 **Sample Date/Time:** 2017-12-02 08:00 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.015	0.0066	0.015	0.020	ug/L	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.015	0.0054	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.015	0.0055	0.015	0.020	ug/L	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.015	0.0074	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.015	0.0056	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.010	0.0035	0.010	0.020	ug/L	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.010	0.0033	0.010	0.020	ug/L	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.018	0.0075	0.018	0.020	ug/L	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS-RS-006 **Matrix Type:** **Result Type:** TRG

Lab Sample Name: FRZ779 **Sample Date/Time:** 2017-12-03 12:30 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.015	0.0066	0.015	0.020	ug/L	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.015	0.0054	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.015	0.0055	0.015	0.020	ug/L	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.015	0.0074	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.015	0.0056	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.010	0.0035	0.010	0.020	ug/L	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.010	0.0033	0.010	0.020	ug/L	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.018	0.0075	0.018	0.020	ug/L	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS-RS-007 **Matrix Type:** **Result Type:** TRG

Lab Sample Name: FRZ791 **Sample Date/Time:** 2017-12-04 17:10 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.015	0.0066	0.015	0.020	ug/L	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.015	0.0054	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.015	0.0055	0.015	0.020	ug/L	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.015	0.0074	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.015	0.0056	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.010	0.0035	0.010	0.020	ug/L	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.010	0.0033	0.010	0.020	ug/L	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.018	0.0075	0.018	0.020	ug/L	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS-RS-008 **Matrix Type:** **Result Type:** TRG

Lab Sample Name: FRZ797 **Sample Date/Time:** 2017-12-05 12:02 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.015	0.0066	0.015	0.020	ug/L	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.015	0.0054	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.015	0.0055	0.015	0.020	ug/L	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.015	0.0074	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.015	0.0056	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.010	0.0035	0.010	0.020	ug/L	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.010	0.0033	0.010	0.020	ug/L	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.018	0.0075	0.018	0.020	ug/L	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Validated Sample Result Forms: B7S5172

Analysis Method: EPA 537 m

Sample Name DOBNS01-001-GW-025 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT969 **Sample Date/Time:** 2017-12-11 12:56 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.037	0.013	0.030	0.040	ug/L	J	J	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.030	0.013	0.030	0.040	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.67	0.011	0.030	0.040	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.72	0.011	0.030	0.040	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.030	0.012	0.030	0.040	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.030	0.012	0.030	0.040	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.020	0.010	0.020	0.040	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.70	0.015	0.030	0.040	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	4.9	0.11	0.30	0.40	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	9.3	0.070	0.20	0.40	ug/L			
PERFLUORONONANOIC ACID	375-95-1	<0.036	0.017	0.036	0.040	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	0.0081	0.0068	0.020	0.040	ug/L	J	J	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.21	0.012	0.030	0.040	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	14	0.066	0.20	0.40	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	1.7	0.015	0.036	0.040	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.020	0.0054	0.020	0.040	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.020	0.0076	0.020	0.040	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.020	0.0050	0.020	0.040	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS01-002-GW-030 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT968 **Sample Date/Time:** 2017-12-11 12:20 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.14	0.066	0.15	0.20	ug/L	J	J	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.15	0.066	0.15	0.20	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.65	0.054	0.15	0.20	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.48	0.055	0.15	0.20	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.15	0.060	0.15	0.20	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.15	0.061	0.15	0.20	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.10	0.050	0.10	0.20	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	1.4	0.074	0.15	0.20	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	15	0.56	1.5	2.0	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	7.2	0.035	0.10	0.20	ug/L			
PERFLUORONONANOIC ACID	375-95-1	<0.18	0.087	0.18	0.20	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.10	0.034	0.10	0.20	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.77	0.060	0.15	0.20	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	80	0.33	1.0	2.0	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	1.6	0.075	0.18	0.20	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.10	0.027	0.10	0.20	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.10	0.038	0.10	0.20	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.10	0.025	0.10	0.20	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS01-003-GW-025 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT970 **Sample Date/Time:** 2017-12-11 15:54 **Validation Level:** Stage 4

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.022	0.0066	0.015	0.020	ug/L			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.071	0.0054	0.015	0.020	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.060	0.0055	0.015	0.020	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.14	0.0074	0.015	0.020	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	3.9	0.056	0.15	0.20	ug/L		J	08A;08B
PERFLUOROHEXANOIC ACID	307-24-4	0.69	0.0035	0.010	0.020	ug/L			
PERFLUORONONANOIC ACID	375-95-1	0.013	0.0087	0.018	0.020	ug/L	J	J	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	0.037	0.0034	0.010	0.020	ug/L			
PERFLUOROOCTANE SULFONATE	1763-23-1	0.67	0.0060	0.015	0.020	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	4.7	0.033	0.10	0.20	ug/L		J	08A
PERFLUOROPENTANOIC ACID	2706-90-3	0.16	0.0075	0.018	0.020	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS02-001-SO-010 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT926 **Sample Date/Time:** 2017-12-06 12:35 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	100	3.1	9.6	12	ug/kg		J	10A
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.96	0.40	0.96	1.2	ug/kg	U	UJ	10A
PERFLUOROBUTANE SULFONATE	29420-43-3	9.4	0.20	0.60	1.2	ug/kg		J	10A
PERFLUOROBUTANOIC ACID	375-22-4	5.6	0.28	0.60	1.2	ug/kg		J	10A
PERFLUORODECANE SULFONATE	335-77-3	<0.96	0.47	0.96	1.2	ug/kg	U	UJ	10A
PERFLUORODECANOIC ACID	335-76-2	<0.96	0.34	0.96	1.2	ug/kg	U	UJ	10A
PERFLUORODODECANOIC ACID	307-55-1	<0.96	0.34	0.96	1.2	ug/kg	U	UJ	10A
PERFLUOROHEPTANOIC ACID	375-85-9	7.8	0.23	0.60	1.2	ug/kg		J	10A
PERFLUOROHEXANE SULFONATE	108427-53-8	100	2.9	6.0	12	ug/kg		J	10A
PERFLUOROHEXANOIC ACID	307-24-4	43	0.17	0.60	1.2	ug/kg		J	10A
PERFLUORONONANOIC ACID	375-95-1	<0.60	0.26	0.60	1.2	ug/kg	U	UJ	10A
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.60	0.17	0.60	1.2	ug/kg	U	UJ	10A
PERFLUOROOCTANE SULFONATE	1763-23-1	1.1	0.31	0.96	1.2	ug/kg	J	J	10A
PERFLUOROOCTANOIC ACID	335-67-1	19	0.30	0.96	1.2	ug/kg		J	10A
PERFLUOROPENTANOIC ACID	2706-90-3	27	0.30	0.96	1.2	ug/kg		J	10A
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.96	0.37	0.96	1.2	ug/kg	U	UJ	10A
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.96	0.40	0.96	1.2	ug/kg	U	UJ	10A
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.96	0.41	0.96	1.2	ug/kg	U	UJ	10A

Analysis Method: EPA 537 m

Sample Name DOBNS02-001-SO-910 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT927 **Sample Date/Time:** 2017-12-06 12:35 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	100	2.6	8.0	10	ug/kg		J	10A
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.80	0.33	0.80	1.0	ug/kg	U	UJ	10A
PERFLUOROBUTANE SULFONATE	29420-43-3	9.1	0.17	0.50	1.0	ug/kg		J	10A
PERFLUOROBUTANOIC ACID	375-22-4	5.4	0.23	0.50	1.0	ug/kg		J	10A
PERFLUORODECANE SULFONATE	335-77-3	<0.80	0.39	0.80	1.0	ug/kg	U	UJ	10A
PERFLUORODECANOIC ACID	335-76-2	<0.80	0.28	0.80	1.0	ug/kg	U	UJ	10A
PERFLUORODODECANOIC ACID	307-55-1	<0.80	0.28	0.80	1.0	ug/kg	U	UJ	10A
PERFLUOROHEPTANOIC ACID	375-85-9	7.1	0.19	0.50	1.0	ug/kg		J	10A
PERFLUOROHEXANE SULFONATE	108427-53-8	99	2.4	5.0	10	ug/kg		J	10A
PERFLUOROHEXANOIC ACID	307-24-4	36	0.14	0.50	1.0	ug/kg		J	10A
PERFLUORONONANOIC ACID	375-95-1	<0.50	0.22	0.50	1.0	ug/kg	U	UJ	10A
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.50	0.14	0.50	1.0	ug/kg	U	UJ	10A
PERFLUOROOCTANE SULFONATE	1763-23-1	1.5	0.26	0.80	1.0	ug/kg		J	10A
PERFLUOROOCTANOIC ACID	335-67-1	18	0.25	0.80	1.0	ug/kg		J	10A
PERFLUOROPENTANOIC ACID	2706-90-3	26	0.25	0.80	1.0	ug/kg		J	10A
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.80	0.31	0.80	1.0	ug/kg	U	UJ	10A
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.80	0.33	0.80	1.0	ug/kg	U	UJ	10A
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.80	0.34	0.80	1.0	ug/kg	U	UJ	10A

Analysis Method: EPA 537 m

Sample Name DOBNS02-001-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT925 **Sample Date/Time:** 2017-12-06 11:00 **Validation Level:** Stage 4

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.40	0.26	0.80	1.0	ug/kg	J	J	10A
8:2 FLUOROTELOMER SULFONATE	39108-34-4	0.49	0.33	0.80	1.0	ug/kg	J	J	10A
PERFLUOROBUTANE SULFONATE	29420-43-3	0.59	0.17	0.50	1.0	ug/kg	J	J	10A
PERFLUOROBUTANOIC ACID	375-22-4	2.8	0.23	0.50	1.0	ug/kg		J	10A
PERFLUORODECANE SULFONATE	335-77-3	2.7	0.39	0.80	1.0	ug/kg		J	10A
PERFLUORODECANOIC ACID	335-76-2	3.7	0.28	0.80	1.0	ug/kg		J	10A
PERFLUORODODECANOIC ACID	307-55-1	1.1	0.28	0.80	1.0	ug/kg		J	10A
PERFLUOROHEPTANOIC ACID	375-85-9	2.7	0.19	0.50	1.0	ug/kg		J	10A
PERFLUOROHEXANE SULFONATE	108427-53-8	9.8	0.24	0.50	1.0	ug/kg		J	10A
PERFLUOROHEXANOIC ACID	307-24-4	2.6	0.14	0.50	1.0	ug/kg		J	10A
PERFLUORONONANOIC ACID	375-95-1	15	0.22	0.50	1.0	ug/kg		J	10A
PERFLUOROOCTANE SULFONAMIDE	754-91-6	0.99	0.14	0.50	1.0	ug/kg	J	J	10A
PERFLUOROOCTANE SULFONATE	1763-23-1	140	2.6	8.0	10	ug/kg		J	10A
PERFLUOROOCTANOIC ACID	335-67-1	7.3	0.25	0.80	1.0	ug/kg		J	10A
PERFLUOROPENTANOIC ACID	2706-90-3	4.9	0.25	0.80	1.0	ug/kg		J	10A
PERFLUOROTETRADECANOIC ACID	376-06-7	<8.0	3.1	8.0	10	ug/kg	U	UJ	10A
PERFLUOROTRIDECANOIC ACID	72629-94-8	<8.0	3.3	8.0	10	ug/kg	U	UJ	10A
PERFLUOROUNDECANOIC ACID	2058-94-8	3.4	0.34	0.80	1.0	ug/kg		J	10A

Analysis Method: EPA 537 m

Sample Name DOBNS02-002-GW-039 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT923 **Sample Date/Time:** 2017-12-06 10:22 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	10	0.13	0.30	0.40	ug/L			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	0.085	0.013	0.030	0.040	ug/L			
PERFLUOROBUTANE SULFONATE	29420-43-3	0.90	0.011	0.030	0.040	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	1.3	0.011	0.030	0.040	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.030	0.012	0.030	0.040	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.030	0.012	0.030	0.040	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.020	0.010	0.020	0.040	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	1.5	0.015	0.030	0.040	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	7.9	0.11	0.30	0.40	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	5.6	0.070	0.20	0.40	ug/L			
PERFLUORONONANOIC ACID	375-95-1	0.17	0.017	0.036	0.040	ug/L			
PERFLUOROOCTANE SULFONAMIDE	754-91-6	0.029	0.0068	0.020	0.040	ug/L	J	J	
PERFLUOROOCTANE SULFONATE	1763-23-1	8.5	0.12	0.30	0.40	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	3.2	0.066	0.20	0.40	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	4.0	0.15	0.36	0.40	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.20	0.054	0.20	0.40	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.20	0.076	0.20	0.40	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.020	0.0050	0.020	0.040	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS02-002-SO-036 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT924 **Sample Date/Time:** 2017-12-06 10:40 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	6.1	2.9	8.8	11	ug/kg	J	J	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<8.8	3.6	8.8	11	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<5.5	1.9	5.5	11	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<5.5	2.5	5.5	11	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<8.8	4.3	8.8	11	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<8.8	3.1	8.8	11	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<8.8	3.1	8.8	11	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<5.5	2.1	5.5	11	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	3.0	2.6	5.5	11	ug/kg	J	J	
PERFLUOROHEXANOIC ACID	307-24-4	<5.5	1.5	5.5	11	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<5.5	2.4	5.5	11	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<5.5	1.5	5.5	11	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<8.8	2.9	8.8	11	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<8.8	2.8	8.8	11	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<8.8	2.8	8.8	11	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<8.8	3.4	8.8	11	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<8.8	3.6	8.8	11	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<8.8	3.7	8.8	11	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS02-002-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT922 **Sample Date/Time:** 2017-12-06 09:00 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.47	0.31	0.96	1.2	ug/kg	J	J	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	0.53	0.40	0.96	1.2	ug/kg	J	J	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.60	0.20	0.60	1.2	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	1.4	0.28	0.60	1.2	ug/kg			
PERFLUORODECANE SULFONATE	335-77-3	0.54	0.47	0.96	1.2	ug/kg	J	J	
PERFLUORODECANOIC ACID	335-76-2	0.72	0.34	0.96	1.2	ug/kg	J	J	
PERFLUORODODECANOIC ACID	307-55-1	<0.96	0.34	0.96	1.2	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.93	0.23	0.60	1.2	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	4.4	0.29	0.60	1.2	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	1.6	0.17	0.60	1.2	ug/kg			
PERFLUORONONANOIC ACID	375-95-1	3.0	0.26	0.60	1.2	ug/kg			
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.60	0.17	0.60	1.2	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	55	0.31	0.96	1.2	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	2.2	0.30	0.96	1.2	ug/kg			
PERFLUOROPENTANOIC ACID	2706-90-3	3.3	0.30	0.96	1.2	ug/kg			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.96	0.37	0.96	1.2	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	0.43	0.41	0.96	1.2	ug/kg	J	J	

Analysis Method: EPA 537 m

Sample Name DOBNS02-003-SO-005 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT928 **Sample Date/Time:** 2017-12-06 13:55 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	780	25	78	97	ug/kg			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	66	32	78	97	ug/kg	J	J	
PERFLUOROBUTANE SULFONATE	29420-43-3	<49	16	49	97	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<49	22	49	97	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<78	38	78	97	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<78	27	78	97	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<78	27	78	97	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<49	18	49	97	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	42	23	49	97	ug/kg	J	J	
PERFLUOROHEXANOIC ACID	307-24-4	19	14	49	97	ug/kg	J	J	
PERFLUORONONANOIC ACID	375-95-1	<49	21	49	97	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<49	14	49	97	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	5300	250	780	970	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	<78	24	78	97	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<78	24	78	97	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<78	30	78	97	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<78	32	78	97	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<78	33	78	97	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS02-003-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT921 **Sample Date/Time:** 2017-12-05 16:20 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	3.8	0.26	0.80	1.0	ug/kg			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	22	0.33	0.80	1.0	ug/kg			
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.50	0.17	0.50	1.0	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	1.0	0.23	0.50	1.0	ug/kg			
PERFLUORODECANE SULFONATE	335-77-3	3.8	0.39	0.80	1.0	ug/kg			
PERFLUORODECANOIC ACID	335-76-2	4.0	0.28	0.80	1.0	ug/kg			
PERFLUORODODECANOIC ACID	307-55-1	0.52	0.28	0.80	1.0	ug/kg	J	J	
PERFLUOROHEPTANOIC ACID	375-85-9	2.3	0.19	0.50	1.0	ug/kg			
PERFLUOROHEXANE SULFONATE	108427-53-8	6.0	0.24	0.50	1.0	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	2.0	0.14	0.50	1.0	ug/kg			
PERFLUORONONANOIC ACID	375-95-1	12	0.22	0.50	1.0	ug/kg			
PERFLUOROOCTANE SULFONAMIDE	754-91-6	4.8	0.14	0.50	1.0	ug/kg			
PERFLUOROOCTANE SULFONATE	1763-23-1	270	2.6	8.0	10	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	4.6	0.25	0.80	1.0	ug/kg			
PERFLUOROPENTANOIC ACID	2706-90-3	3.0	0.25	0.80	1.0	ug/kg			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.80	0.31	0.80	1.0	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.80	0.33	0.80	1.0	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	2.6	0.34	0.80	1.0	ug/kg			

Analysis Method: EPA 537 m

Sample Name DOBNS02-D3-W4-GW-013 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT966 **Sample Date/Time:** 2017-12-10 12:02 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	51	0.66	1.5	2.0	ug/L			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	0.65	0.066	0.15	0.20	ug/L			
PERFLUOROBUTANE SULFONATE	29420-43-3	2.0	0.054	0.15	0.20	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	2.4	0.055	0.15	0.20	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.15	0.060	0.15	0.20	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.15	0.061	0.15	0.20	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.10	0.050	0.10	0.20	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	3.8	0.074	0.15	0.20	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	29	0.56	1.5	2.0	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	15	0.35	1.0	2.0	ug/L			
PERFLUORONONANOIC ACID	375-95-1	0.34	0.087	0.18	0.20	ug/L			
PERFLUOROOCTANE SULFONAMIDE	754-91-6	0.064	0.034	0.10	0.20	ug/L	J	J	
PERFLUOROOCTANE SULFONATE	1763-23-1	29	0.60	1.5	2.0	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	8.0	0.033	0.10	0.20	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	9.1	0.075	0.18	0.20	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.10	0.027	0.10	0.20	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.10	0.038	0.10	0.20	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.10	0.025	0.10	0.20	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS03-001-GW-019 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT918 **Sample Date/Time:** 2017-12-14 10:48 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.012	0.0066	0.015	0.020	ug/L	J	J	02A
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.026	0.0054	0.015	0.020	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.024	0.0055	0.015	0.020	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.017	0.0074	0.015	0.020	ug/L	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.18	0.0056	0.015	0.020	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	0.051	0.0035	0.010	0.020	ug/L			
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.051	0.0060	0.015	0.020	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	0.019	0.0033	0.010	0.020	ug/L	J	J	05B
PERFLUOROPENTANOIC ACID	2706-90-3	0.046	0.0075	0.018	0.020	ug/L		J	05B
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS03-001-SO-020 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT884 **Sample Date/Time:** 2017-12-10 11:08 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.88	0.29	0.88	1.1	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.55	0.19	0.55	1.1	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.55	0.25	0.55	1.1	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.55	0.21	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.55	0.26	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.55	0.24	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.59	0.29	0.88	1.1	ug/kg	J	J	
PERFLUOROOCTANOIC ACID	335-67-1	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS03-001-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT882 **Sample Date/Time:** 2017-12-10 09:45 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.96	0.31	0.96	1.2	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.60	0.20	0.60	1.2	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.60	0.28	0.60	1.2	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.96	0.47	0.96	1.2	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.96	0.34	0.96	1.2	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.96	0.34	0.96	1.2	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.60	0.23	0.60	1.2	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.60	0.29	0.60	1.2	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.60	0.17	0.60	1.2	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.60	0.26	0.60	1.2	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.60	0.17	0.60	1.2	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	5.7	0.31	0.96	1.2	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	<0.96	0.30	0.96	1.2	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.96	0.30	0.96	1.2	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.96	0.37	0.96	1.2	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.96	0.41	0.96	1.2	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS03-002-SO-024 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT886 **Sample Date/Time:** 2017-12-10 13:55 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.78	0.25	0.78	0.97	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.78	0.32	0.78	0.97	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.49	0.16	0.49	0.97	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.49	0.22	0.49	0.97	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.78	0.38	0.78	0.97	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.78	0.27	0.78	0.97	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.78	0.27	0.78	0.97	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.49	0.18	0.49	0.97	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.49	0.23	0.49	0.97	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.49	0.14	0.49	0.97	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.49	0.21	0.49	0.97	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.49	0.14	0.49	0.97	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.78	0.25	0.78	0.97	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.78	0.24	0.78	0.97	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.78	0.24	0.78	0.97	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.78	0.30	0.78	0.97	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.78	0.32	0.78	0.97	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.78	0.33	0.78	0.97	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS03-002-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT885 **Sample Date/Time:** 2017-12-10 11:40 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.88	0.29	0.88	1.1	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.55	0.19	0.55	1.1	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.55	0.25	0.55	1.1	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.55	0.21	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	1.3	0.26	0.55	1.1	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	0.32	0.15	0.55	1.1	ug/kg	J	J	
PERFLUORONONANOIC ACID	375-95-1	<0.55	0.24	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	22	0.29	0.88	1.1	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	0.48	0.28	0.88	1.1	ug/kg	J	J	
PERFLUOROPENTANOIC ACID	2706-90-3	0.56	0.28	0.88	1.1	ug/kg	J	J	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS03-003-SO-015 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT888 **Sample Date/Time:** 2017-12-10 15:35 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.67	0.22	0.67	0.84	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.67	0.28	0.67	0.84	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.42	0.14	0.42	0.84	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.42	0.19	0.42	0.84	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.67	0.33	0.67	0.84	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.67	0.24	0.67	0.84	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.67	0.24	0.67	0.84	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.42	0.16	0.42	0.84	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.42	0.20	0.42	0.84	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.42	0.12	0.42	0.84	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.42	0.18	0.42	0.84	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.42	0.12	0.42	0.84	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.67	0.22	0.67	0.84	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.67	0.21	0.67	0.84	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.67	0.21	0.67	0.84	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.67	0.26	0.67	0.84	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.67	0.28	0.67	0.84	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.67	0.29	0.67	0.84	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS03-003-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT887 **Sample Date/Time:** 2017-12-10 14:45 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.80	0.26	0.80	1.0	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.80	0.33	0.80	1.0	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.50	0.17	0.50	1.0	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.50	0.23	0.50	1.0	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.80	0.39	0.80	1.0	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.80	0.28	0.80	1.0	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.80	0.28	0.80	1.0	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.50	0.19	0.50	1.0	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.50	0.24	0.50	1.0	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.50	0.14	0.50	1.0	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.50	0.22	0.50	1.0	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.50	0.14	0.50	1.0	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	7.4	0.26	0.80	1.0	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	<0.80	0.25	0.80	1.0	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.80	0.25	0.80	1.0	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.80	0.31	0.80	1.0	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.80	0.33	0.80	1.0	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.80	0.34	0.80	1.0	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS03-004-SO-020 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT905 **Sample Date/Time:** 2017-12-12 09:30 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	260	2.9	8.8	11	ug/kg			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.73	0.19	0.55	1.1	ug/kg	J	J	
PERFLUOROBUTANOIC ACID	375-22-4	1.5	0.25	0.55	1.1	ug/kg			
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.62	0.21	0.55	1.1	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	1.7	0.26	0.55	1.1	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	14	0.15	0.55	1.1	ug/kg			
PERFLUORONONANOIC ACID	375-95-1	<0.55	0.24	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	16	0.29	0.88	1.1	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	9.5	0.28	0.88	1.1	ug/kg			
PERFLUOROPENTANOIC ACID	2706-90-3	3.4	0.28	0.88	1.1	ug/kg			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS03-004-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT904 **Sample Date/Time:** 2017-12-12 08:30 **Validation Level:** Stage 4

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	52	2.4	7.4	9.3	ug/kg			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	190	3.1	7.4	9.3	ug/kg			
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.47	0.16	0.47	0.93	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.47	0.21	0.47	0.93	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	8.4	0.36	0.74	0.93	ug/kg			
PERFLUORODECANOIC ACID	335-76-2	1.2	0.26	0.74	0.93	ug/kg			
PERFLUORODODECANOIC ACID	307-55-1	<0.74	0.26	0.74	0.93	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.21	0.18	0.47	0.93	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	1.8	0.22	0.47	0.93	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	0.60	0.13	0.47	0.93	ug/kg	J	J	
PERFLUORONONANOIC ACID	375-95-1	0.36	0.20	0.47	0.93	ug/kg	J	J	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	12	0.13	0.47	0.93	ug/kg			
PERFLUOROOCTANE SULFONATE	1763-23-1	220	2.4	7.4	9.3	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	0.77	0.23	0.74	0.93	ug/kg	J	J	
PERFLUOROPENTANOIC ACID	2706-90-3	0.68	0.23	0.74	0.93	ug/kg	J	J	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.74	0.29	0.74	0.93	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.74	0.31	0.74	0.93	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.74	0.32	0.74	0.93	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS04-001-GW-030 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT917 **Sample Date/Time:** 2017-12-14 09:42 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.91	0.013	0.030	0.040	ug/L		J	02A
8:2 FLUOROTELOMER SULFONATE	39108-34-4	0.026	0.013	0.030	0.040	ug/L	J	J	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.51	0.011	0.030	0.040	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.20	0.011	0.030	0.040	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.030	0.012	0.030	0.040	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.030	0.012	0.030	0.040	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.020	0.010	0.020	0.040	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.24	0.015	0.030	0.040	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	6.1	0.11	0.30	0.40	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	0.96	0.0070	0.020	0.040	ug/L			
PERFLUORONONANOIC ACID	375-95-1	0.026	0.017	0.036	0.040	ug/L	J	J	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	0.032	0.0068	0.020	0.040	ug/L	J	J	
PERFLUOROOCTANE SULFONATE	1763-23-1	2.5	0.12	0.30	0.40	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	0.31	0.0066	0.020	0.040	ug/L		J	05B
PERFLUOROPENTANOIC ACID	2706-90-3	0.51	0.015	0.036	0.040	ug/L		J	05B
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.020	0.0054	0.020	0.040	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.020	0.0076	0.020	0.040	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.020	0.0050	0.020	0.040	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS04-001-SO-028 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT990 **Sample Date/Time:** 2017-12-06 17:40 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.88	0.29	0.88	1.1	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.55	0.19	0.55	1.1	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.55	0.25	0.55	1.1	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.55	0.21	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	1.2	0.26	0.55	1.1	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	0.26	0.15	0.55	1.1	ug/kg	J	J	
PERFLUORONONANOIC ACID	375-95-1	<0.55	0.24	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.56	0.29	0.88	1.1	ug/kg	J	J	
PERFLUOROOCTANOIC ACID	335-67-1	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS04-001-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT988 **Sample Date/Time:** 2017-12-06 16:15 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.37	0.31	0.96	1.2	ug/kg	J	J	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.45	0.20	0.60	1.2	ug/kg	J	J	
PERFLUOROBUTANOIC ACID	375-22-4	1.4	0.28	0.60	1.2	ug/kg			
PERFLUORODECANE SULFONATE	335-77-3	5.6	0.47	0.96	1.2	ug/kg		J	17
PERFLUORODECANOIC ACID	335-76-2	3.1	0.34	0.96	1.2	ug/kg		J	17
PERFLUORODODECANOIC ACID	307-55-1	2.0	0.34	0.96	1.2	ug/kg			
PERFLUOROHEPTANOIC ACID	375-85-9	1.3	0.23	0.60	1.2	ug/kg			
PERFLUOROHEXANE SULFONATE	108427-53-8	20	0.29	0.60	1.2	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	3.1	0.17	0.60	1.2	ug/kg		J	17
PERFLUORONONANOIC ACID	375-95-1	2.4	0.26	0.60	1.2	ug/kg		J	17
PERFLUOROOCTANE SULFONAMIDE	754-91-6	7.1	0.17	0.60	1.2	ug/kg		J	17
PERFLUOROOCTANE SULFONATE	1763-23-1	160	3.1	9.6	12	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	2.2	0.30	0.96	1.2	ug/kg		J	17
PERFLUOROPENTANOIC ACID	2706-90-3	4.5	0.30	0.96	1.2	ug/kg		J	17
PERFLUOROTETRADECANOIC ACID	376-06-7	<9.6	3.7	9.6	12	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<9.6	4.0	9.6	12	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	3.4	0.41	0.96	1.2	ug/kg		J	17

Analysis Method: EPA 537 m

Sample Name DOBNS04-001-SS-901 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT989 **Sample Date/Time:** 2017-12-06 16:15 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.36	0.26	0.80	1.0	ug/kg	J	J	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.80	0.33	0.80	1.0	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.29	0.17	0.50	1.0	ug/kg	J	J	
PERFLUOROBUTANOIC ACID	375-22-4	1.1	0.23	0.50	1.0	ug/kg			
PERFLUORODECANE SULFONATE	335-77-3	3.8	0.39	0.80	1.0	ug/kg		J	17
PERFLUORODECANOIC ACID	335-76-2	2.2	0.28	0.80	1.0	ug/kg		J	17
PERFLUORODODECANOIC ACID	307-55-1	0.78	0.28	0.80	1.0	ug/kg	J	J	
PERFLUOROHEPTANOIC ACID	375-85-9	0.85	0.19	0.50	1.0	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	13	0.24	0.50	1.0	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	2.1	0.14	0.50	1.0	ug/kg		J	17
PERFLUORONONANOIC ACID	375-95-1	1.7	0.22	0.50	1.0	ug/kg		J	17
PERFLUOROOCTANE SULFONAMIDE	754-91-6	4.9	0.14	0.50	1.0	ug/kg		J	17
PERFLUOROOCTANE SULFONATE	1763-23-1	190	2.6	8.0	10	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	1.4	0.25	0.80	1.0	ug/kg		J	17
PERFLUOROPENTANOIC ACID	2706-90-3	2.8	0.25	0.80	1.0	ug/kg		J	17
PERFLUOROTETRADECANOIC ACID	376-06-7	<8.0	3.1	8.0	10	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<8.0	3.3	8.0	10	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	1.4	0.34	0.80	1.0	ug/kg		J	17

Analysis Method: EPA 537 m

Sample Name DOBNS04-002-GW-034 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT971 **Sample Date/Time:** 2017-12-12 12:00 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.030	0.0076	0.017	0.023	ug/L			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.017	0.0076	0.017	0.023	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.013	0.0062	0.017	0.023	ug/L	J	J	
PERFLUOROBUTANOIC ACID	375-22-4	0.0095	0.0063	0.017	0.023	ug/L	J	J	
PERFLUORODECANE SULFONATE	335-77-3	<0.017	0.0069	0.017	0.023	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.017	0.0070	0.017	0.023	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.012	0.0058	0.012	0.023	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.014	0.0085	0.017	0.023	ug/L	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.35	0.0064	0.017	0.023	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	0.047	0.0040	0.012	0.023	ug/L			
PERFLUORONONANOIC ACID	375-95-1	<0.021	0.010	0.021	0.023	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.012	0.0039	0.012	0.023	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.63	0.0069	0.017	0.023	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	0.076	0.0038	0.012	0.023	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	0.021	0.0086	0.021	0.023	ug/L	J	J	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.012	0.0031	0.012	0.023	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.012	0.0044	0.012	0.023	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.012	0.0029	0.012	0.023	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS04-002-SO-030 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT994 **Sample Date/Time:** 2017-12-07 10:55 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.80	0.26	0.80	1.0	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.80	0.33	0.80	1.0	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.50	0.17	0.50	1.0	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.50	0.23	0.50	1.0	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.80	0.39	0.80	1.0	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.80	0.28	0.80	1.0	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.80	0.28	0.80	1.0	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.50	0.19	0.50	1.0	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.50	0.24	0.50	1.0	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.50	0.14	0.50	1.0	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.50	0.22	0.50	1.0	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.50	0.14	0.50	1.0	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.80	0.26	0.80	1.0	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.80	0.25	0.80	1.0	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.80	0.25	0.80	1.0	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<8.0	3.1	8.0	10	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<8.0	3.3	8.0	10	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.80	0.34	0.80	1.0	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS04-002-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT993 **Sample Date/Time:** 2017-12-07 09:45 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.73	0.24	0.73	0.91	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.73	0.30	0.73	0.91	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.46	0.15	0.46	0.91	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.46	0.21	0.46	0.91	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.73	0.35	0.73	0.91	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.73	0.25	0.73	0.91	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.73	0.25	0.73	0.91	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.46	0.17	0.46	0.91	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.95	0.22	0.46	0.91	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	0.29	0.13	0.46	0.91	ug/kg	J	J	
PERFLUORONONANOIC ACID	375-95-1	<0.46	0.20	0.46	0.91	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.46	0.13	0.46	0.91	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	41	0.24	0.73	0.91	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	<0.73	0.23	0.73	0.91	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	0.41	0.23	0.73	0.91	ug/kg	J	J	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.73	0.28	0.73	0.91	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.73	0.30	0.73	0.91	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.73	0.31	0.73	0.91	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS04-003-GW-015 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT987 **Sample Date/Time:** 2017-12-13 17:25 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	1.5	0.033	0.075	0.10	ug/L			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.075	0.033	0.075	0.10	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	2.4	0.027	0.075	0.10	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	1.1	0.028	0.075	0.10	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.075	0.030	0.075	0.10	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.075	0.031	0.075	0.10	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.050	0.025	0.050	0.10	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.45	0.037	0.075	0.10	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	24	0.28	0.75	1.0	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	2.2	0.018	0.050	0.10	ug/L			
PERFLUORONONANOIC ACID	375-95-1	<0.090	0.044	0.090	0.10	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.050	0.017	0.050	0.10	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.031	0.030	0.075	0.10	ug/L	J	J	
PERFLUOROOCTANOIC ACID	335-67-1	0.96	0.017	0.050	0.10	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	1.4	0.038	0.090	0.10	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.050	0.014	0.050	0.10	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.050	0.019	0.050	0.10	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.050	0.013	0.050	0.10	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS04-003-SO-026 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT992 **Sample Date/Time:** 2017-12-06 15:45 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.88	0.29	0.88	1.1	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.55	0.19	0.55	1.1	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.55	0.25	0.55	1.1	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.55	0.21	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	3.0	0.26	0.55	1.1	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.55	0.24	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.88	0.29	0.88	1.1	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<8.8	3.4	8.8	11	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<8.8	3.6	8.8	11	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS04-003-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT991 **Sample Date/Time:** 2017-12-06 15:10 **Validation Level:** Stage 4

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.88	0.29	0.88	1.1	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.55	0.19	0.55	1.1	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	0.31	0.25	0.55	1.1	ug/kg	J	J	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.55	0.21	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.71	0.26	0.55	1.1	ug/kg	J	J	
PERFLUOROHEXANOIC ACID	307-24-4	0.23	0.15	0.55	1.1	ug/kg	J	J	
PERFLUORONONANOIC ACID	375-95-1	<0.55	0.24	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	11	0.29	0.88	1.1	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	0.38	0.28	0.88	1.1	ug/kg	J	J	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS05-001-GW-034 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT945 **Sample Date/Time:** 2017-12-08 11:25 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.13	0.0092	0.021	0.028	ug/L			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.021	0.0092	0.021	0.028	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.24	0.0076	0.021	0.028	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.25	0.0077	0.021	0.028	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.021	0.0084	0.021	0.028	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.021	0.0085	0.021	0.028	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.014	0.0070	0.014	0.028	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.42	0.010	0.021	0.028	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	1.2	0.0078	0.021	0.028	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	1.1	0.0049	0.014	0.028	ug/L			
PERFLUORONONANOIC ACID	375-95-1	<0.025	0.012	0.025	0.028	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.014	0.0048	0.014	0.028	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.17	0.0084	0.021	0.028	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	0.073	0.0046	0.014	0.028	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	1.2	0.011	0.025	0.028	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.014	0.0038	0.014	0.028	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.014	0.0053	0.014	0.028	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.014	0.0035	0.014	0.028	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS05-002-GW-038 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT962 **Sample Date/Time:** 2017-12-08 12:05 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.21	0.0083	0.019	0.025	ug/L			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.019	0.0083	0.019	0.025	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.22	0.0068	0.019	0.025	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.081	0.0069	0.019	0.025	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.019	0.0075	0.019	0.025	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.019	0.0076	0.019	0.025	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.013	0.0063	0.013	0.025	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.065	0.0093	0.019	0.025	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	1.2	0.0070	0.019	0.025	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	0.49	0.0044	0.013	0.025	ug/L			
PERFLUORONONANOIC ACID	375-95-1	0.082	0.011	0.023	0.025	ug/L			
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.013	0.0043	0.013	0.025	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	3.7	0.060	0.15	0.20	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	0.17	0.0041	0.013	0.025	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	0.20	0.0094	0.023	0.025	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.013	0.0034	0.013	0.025	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.013	0.0048	0.013	0.025	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.013	0.0031	0.013	0.025	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS05-002-GW-938 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT963 **Sample Date/Time:** 2017-12-08 12:05 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.16	0.010	0.023	0.031	ug/L			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.023	0.010	0.023	0.031	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.23	0.0084	0.023	0.031	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.093	0.0085	0.023	0.031	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.023	0.0093	0.023	0.031	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.023	0.0095	0.023	0.031	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.016	0.0078	0.016	0.031	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.073	0.011	0.023	0.031	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	1.3	0.0087	0.023	0.031	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	0.52	0.0054	0.016	0.031	ug/L			
PERFLUORONONANOIC ACID	375-95-1	0.085	0.013	0.028	0.031	ug/L			
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.016	0.0053	0.016	0.031	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	3.5	0.060	0.15	0.20	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	0.19	0.0051	0.016	0.031	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	0.21	0.012	0.028	0.031	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.016	0.0042	0.016	0.031	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.016	0.0059	0.016	0.031	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.016	0.0039	0.016	0.031	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS05-003-GW-038 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT946 **Sample Date/Time:** 2017-12-08 11:40 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.011	0.0073	0.017	0.022	ug/L	J	J	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.017	0.0073	0.017	0.022	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.051	0.0059	0.017	0.022	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.024	0.0061	0.017	0.022	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.017	0.0066	0.017	0.022	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.017	0.0067	0.017	0.022	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.011	0.0055	0.011	0.022	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.011	0.0081	0.017	0.022	ug/L	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.033	0.0062	0.017	0.022	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	0.12	0.0039	0.011	0.022	ug/L			
PERFLUORONONANOIC ACID	375-95-1	<0.020	0.0096	0.020	0.022	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	0.0055	0.0037	0.011	0.022	ug/L	J	J	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.056	0.0066	0.017	0.022	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	0.010	0.0036	0.011	0.022	ug/L	J	J	
PERFLUOROPENTANOIC ACID	2706-90-3	0.047	0.0083	0.020	0.022	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.011	0.0030	0.011	0.022	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.011	0.0042	0.011	0.022	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.011	0.0028	0.011	0.022	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS05-003-SO-035 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT954 **Sample Date/Time:** 2017-12-07 17:10 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<1.2	0.39	1.2	1.5	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<1.2	0.50	1.2	1.5	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.75	0.26	0.75	1.5	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.75	0.35	0.75	1.5	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<1.2	0.59	1.2	1.5	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<1.2	0.42	1.2	1.5	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<1.2	0.42	1.2	1.5	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.75	0.29	0.75	1.5	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.75	0.36	0.75	1.5	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.75	0.21	0.75	1.5	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.75	0.33	0.75	1.5	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.75	0.21	0.75	1.5	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	1.1	0.39	1.2	1.5	ug/kg	J	J	
PERFLUOROOCTANOIC ACID	335-67-1	<1.2	0.38	1.2	1.5	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<1.2	0.38	1.2	1.5	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<1.2	0.47	1.2	1.5	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<1.2	0.50	1.2	1.5	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<1.2	0.51	1.2	1.5	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS06-002-GW-038 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT964 **Sample Date/Time:** 2017-12-08 12:25 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.15	0.066	0.15	0.20	ug/L	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.15	0.066	0.15	0.20	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	9.5	0.054	0.15	0.20	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	5.0	0.055	0.15	0.20	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.15	0.060	0.15	0.20	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.15	0.061	0.15	0.20	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.10	0.050	0.10	0.20	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.16	0.074	0.15	0.20	ug/L	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.20	0.056	0.15	0.20	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	98	1.1	3.0	8.0	ug/L			
PERFLUORONONANOIC ACID	375-95-1	<0.18	0.087	0.18	0.20	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.10	0.034	0.10	0.20	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.33	0.060	0.15	0.20	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	<0.10	0.033	0.10	0.20	ug/L	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	18	0.75	1.8	2.0	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.10	0.027	0.10	0.20	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.10	0.038	0.10	0.20	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.10	0.025	0.10	0.20	ug/L	U	U	

Sample Name DOBNS06-002-GW-038LR **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT964LR **Sample Date/Time:** 2017-12-08 12:25 **Validation Level:**

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
PERFLUOROHEXANOIC ACID	307-24-4	110	1.1		8.0	ug/L			

Analysis Method: EPA 537 m

Sample Name DOBNS06-003-GW-036 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT965 **Sample Date/Time:** 2017-12-08 12:36 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.19	0.066	0.15	0.20	ug/L	J	J	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.15	0.066	0.15	0.20	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	10	0.54	1.5	2.0	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	3.1	0.055	0.15	0.20	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.15	0.060	0.15	0.20	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.15	0.061	0.15	0.20	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.10	0.050	0.10	0.20	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	6.4	0.074	0.15	0.20	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	100	2.4	5.0	8.0	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	58	0.35	1.0	2.0	ug/L			
PERFLUORONONANOIC ACID	375-95-1	<0.18	0.087	0.18	0.20	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	0.60	0.034	0.10	0.20	ug/L			
PERFLUOROOCTANE SULFONATE	1763-23-1	1.7	0.060	0.15	0.20	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	37	0.33	1.0	2.0	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	12	0.75	1.8	2.0	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.10	0.027	0.10	0.20	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.10	0.038	0.10	0.20	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.10	0.025	0.10	0.20	ug/L	U	U	

Sample Name DOBNS06-003-GW-036LR **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT965LR **Sample Date/Time:** 2017-12-08 12:36 **Validation Level:**

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
PERFLUOROHEXANE SULFONATE	108427-53-8	120	2.4		8.0	ug/L			

Analysis Method: EPA 537 m

Sample Name DOBNS08-001-GW-027 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT941 **Sample Date/Time:** 2017-12-07 11:54 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.015	0.0066	0.015	0.020	ug/L	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.015	0.0054	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.015	0.0055	0.015	0.020	ug/L	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.015	0.0074	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.031	0.0056	0.015	0.020	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	0.012	0.0035	0.010	0.020	ug/L	J	J	
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.025	0.0060	0.015	0.020	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	0.0090	0.0033	0.010	0.020	ug/L	J	J	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.018	0.0075	0.018	0.020	ug/L	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS08-002-GW-012 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT939 **Sample Date/Time:** 2017-12-06 16:50 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.015	0.0066	0.015	0.020	ug/L	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.014	0.0054	0.015	0.020	ug/L	J	J	
PERFLUOROBUTANOIC ACID	375-22-4	0.024	0.0055	0.015	0.020	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.024	0.0074	0.015	0.020	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	0.13	0.0056	0.015	0.020	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	0.037	0.0035	0.010	0.020	ug/L			
PERFLUORONONANOIC ACID	375-95-1	0.010	0.0087	0.018	0.020	ug/L	J	J	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.063	0.0060	0.015	0.020	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	0.041	0.0033	0.010	0.020	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	0.034	0.0075	0.018	0.020	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS08-003-GW-010 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT940 **Sample Date/Time:** 2017-12-07 11:18 **Validation Level:** Stage 4

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.015	0.0066	0.015	0.020	ug/L	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.0093	0.0054	0.015	0.020	ug/L	J	J	
PERFLUOROBUTANOIC ACID	375-22-4	0.0089	0.0055	0.015	0.020	ug/L	J	J	
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.015	0.0074	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.026	0.0056	0.015	0.020	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	0.0081	0.0035	0.010	0.020	ug/L	J	J	
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.011	0.0060	0.015	0.020	ug/L	J	J	
PERFLUOROOCTANOIC ACID	335-67-1	0.0078	0.0033	0.010	0.020	ug/L	J	J	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.018	0.0075	0.018	0.020	ug/L	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS08-004-GW-016 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT942 **Sample Date/Time:** 2017-12-07 12:40 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.089	0.0069	0.016	0.021	ug/L			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.016	0.0069	0.016	0.021	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.037	0.0057	0.016	0.021	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.30	0.0058	0.016	0.021	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.016	0.0063	0.016	0.021	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.016	0.0064	0.016	0.021	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.011	0.0053	0.011	0.021	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.49	0.0078	0.016	0.021	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	0.14	0.0059	0.016	0.021	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	1.2	0.037	0.11	0.20	ug/L			
PERFLUORONONANOIC ACID	375-95-1	<0.019	0.0091	0.019	0.021	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.011	0.0036	0.011	0.021	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.016	0.0063	0.016	0.021	ug/L	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	0.062	0.0035	0.011	0.021	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	1.4	0.079	0.019	0.20	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.011	0.0028	0.011	0.021	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.011	0.0040	0.011	0.021	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.011	0.0026	0.011	0.021	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS08-005-GW-015 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT944 **Sample Date/Time:** 2017-12-07 13:52 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.015	0.0066	0.015	0.020	ug/L	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.022	0.0054	0.015	0.020	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	<0.015	0.0055	0.015	0.020	ug/L	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.0088	0.0074	0.015	0.020	ug/L	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.21	0.0056	0.015	0.020	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	0.028	0.0035	0.010	0.020	ug/L			
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.010	0.0033	0.010	0.020	ug/L	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	0.015	0.0075	0.018	0.020	ug/L	J	J	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS08-006-GW-015 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT943 **Sample Date/Time:** 2017-12-07 13:18 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.015	0.013	0.030	0.040	ug/L	J	J	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.030	0.013	0.030	0.040	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.75	0.011	0.030	0.040	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.45	0.011	0.030	0.040	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.030	0.012	0.030	0.040	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.030	0.012	0.030	0.040	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.020	0.010	0.020	0.040	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	1.3	0.015	0.030	0.040	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	4.4	0.11	0.30	0.40	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	2.7	0.070	0.20	0.40	ug/L			
PERFLUORONONANOIC ACID	375-95-1	<0.036	0.017	0.036	0.040	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.020	0.0068	0.020	0.040	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.017	0.012	0.030	0.040	ug/L	J	J	
PERFLUOROOCTANOIC ACID	335-67-1	0.13	0.0066	0.020	0.040	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	2.5	0.15	0.36	0.40	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.020	0.0054	0.020	0.040	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.020	0.0076	0.020	0.040	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.020	0.0050	0.020	0.040	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS09-001-SO-009 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT898 **Sample Date/Time:** 2017-12-11 10:48 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.88	0.29	0.88	1.1	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.55	0.19	0.55	1.1	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.55	0.25	0.55	1.1	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.44	0.21	0.55	1.1	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	3.4	0.26	0.55	1.1	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	0.82	0.15	0.55	1.1	ug/kg	J	J	
PERFLUORONONANOIC ACID	375-95-1	0.68	0.24	0.55	1.1	ug/kg	J	J	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	120	2.9	8.8	11	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	0.99	0.28	0.88	1.1	ug/kg	J	J	
PERFLUOROPENTANOIC ACID	2706-90-3	0.86	0.28	0.88	1.1	ug/kg	J	J	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS09-001-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT897 **Sample Date/Time:** 2017-12-11 10:16 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.96	0.31	0.96	1.2	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.60	0.20	0.60	1.2	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	1.2	0.28	0.60	1.2	ug/kg			
PERFLUORODECANE SULFONATE	335-77-3	4.9	0.47	0.96	1.2	ug/kg			
PERFLUORODECANOIC ACID	335-76-2	1.8	0.34	0.96	1.2	ug/kg			
PERFLUORODODECANOIC ACID	307-55-1	1.2	0.34	0.96	1.2	ug/kg			
PERFLUOROHEPTANOIC ACID	375-85-9	0.84	0.23	0.60	1.2	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	5.0	0.29	0.60	1.2	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	0.93	0.17	0.60	1.2	ug/kg	J	J	
PERFLUORONONANOIC ACID	375-95-1	2.3	0.26	0.60	1.2	ug/kg			
PERFLUOROOCTANE SULFONAMIDE	754-91-6	0.59	0.17	0.60	1.2	ug/kg	J	J	
PERFLUOROOCTANE SULFONATE	1763-23-1	54	0.31	0.96	1.2	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	1.5	0.30	0.96	1.2	ug/kg			
PERFLUOROPENTANOIC ACID	2706-90-3	2.8	0.30	0.96	1.2	ug/kg			
PERFLUOROTETRADECANOIC ACID	376-06-7	0.58	0.37	0.96	1.2	ug/kg	J	J	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	2.1	0.41	0.96	1.2	ug/kg			

Analysis Method: EPA 537 m

Sample Name DOBNS09-002-GW-044 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT985 **Sample Date/Time:** 2017-12-13 15:30 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	19	0.66	1.5	2.0	ug/L			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.15	0.066	0.15	0.20	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	2.5	0.054	0.15	0.20	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	1.4	0.055	0.15	0.20	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.15	0.060	0.15	0.20	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.15	0.061	0.15	0.20	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.10	0.050	0.10	0.20	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	2.2	0.074	0.15	0.20	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	9.1	0.056	0.15	0.20	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	5.6	0.035	0.10	0.20	ug/L			
PERFLUORONONANOIC ACID	375-95-1	0.10	0.087	0.18	0.20	ug/L	J	J	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.10	0.034	0.10	0.20	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	37	0.60	0.15	2.0	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	2.4	0.033	0.10	0.20	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	4.5	0.075	0.18	0.20	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.10	0.027	0.10	0.20	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.10	0.038	0.10	0.20	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.10	0.025	0.10	0.20	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS09-002-SO-037 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT901 **Sample Date/Time:** 2017-12-11 13:15 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	3.7	0.31	0.96	1.2	ug/kg			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.51	0.20	0.60	1.2	ug/kg	J	J	
PERFLUOROBUTANOIC ACID	375-22-4	0.82	0.28	0.60	1.2	ug/kg	J	J	
PERFLUORODECANE SULFONATE	335-77-3	<0.96	0.47	0.96	1.2	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.96	0.34	0.96	1.2	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.96	0.34	0.96	1.2	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.54	0.23	0.60	1.2	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	1.2	0.29	0.60	1.2	ug/kg	J	J	
PERFLUOROHEXANOIC ACID	307-24-4	6.1	0.17	0.60	1.2	ug/kg			
PERFLUORONONANOIC ACID	375-95-1	<0.60	0.26	0.60	1.2	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.60	0.17	0.60	1.2	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	1.2	0.31	0.96	1.2	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	<0.96	0.30	0.96	1.2	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	3.0	0.30	0.96	1.2	ug/kg			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.96	0.37	0.96	1.2	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.96	0.41	0.96	1.2	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS09-002-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT899 **Sample Date/Time:** 2017-12-11 11:31 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	6.8	0.31	0.96	1.2	ug/kg		J	17
8:2 FLUOROTELOMER SULFONATE	39108-34-4	5.6	0.40	0.96	1.2	ug/kg		J	17
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.60	0.20	0.60	1.2	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	2.7	0.28	0.60	1.2	ug/kg		J	17
PERFLUORODECANE SULFONATE	335-77-3	5.1	0.47	0.96	1.2	ug/kg		J	17
PERFLUORODECANOIC ACID	335-76-2	4.6	0.34	0.96	1.2	ug/kg			
PERFLUORODODECANOIC ACID	307-55-1	0.75	0.34	0.96	1.2	ug/kg	J	J	
PERFLUOROHEPTANOIC ACID	375-85-9	15	0.23	0.60	1.2	ug/kg		J	17
PERFLUOROHEXANE SULFONATE	108427-53-8	23	0.29	0.60	1.2	ug/kg		J	17
PERFLUOROHEXANOIC ACID	307-24-4	9.0	0.17	0.60	1.2	ug/kg		J	17
PERFLUORONONANOIC ACID	375-95-1	16	0.26	0.60	1.2	ug/kg		J	17
PERFLUOROOCTANE SULFONAMIDE	754-91-6	0.73	0.17	0.60	1.2	ug/kg	J	J	
PERFLUOROOCTANE SULFONATE	1763-23-1	410	6.2	19	24	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	18	0.30	0.96	1.2	ug/kg		J	17
PERFLUOROPENTANOIC ACID	2706-90-3	8.7	0.30	0.96	1.2	ug/kg		J	17
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.96	0.37	0.96	1.2	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	5.3	0.41	0.96	1.2	ug/kg		J	17

Analysis Method: EPA 537 m

Sample Name DOBNS09-002-SS-901 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT900 **Sample Date/Time:** 2017-12-11 11:31 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	3.6	0.25	0.77	0.96	ug/kg		J	17
8:2 FLUOROTELOMER SULFONATE	39108-34-4	2.6	0.32	0.77	0.96	ug/kg		J	17
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.48	0.16	0.48	0.96	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	1.2	0.22	0.48	0.96	ug/kg		J	17
PERFLUORODECANE SULFONATE	335-77-3	2.6	0.37	0.77	0.96	ug/kg		J	17
PERFLUORODECANOIC ACID	335-76-2	5.2	0.27	0.77	0.96	ug/kg			
PERFLUORODODECANOIC ACID	307-55-1	<0.77	0.27	0.77	0.96	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	5.9	0.18	0.48	0.96	ug/kg		J	17
PERFLUOROHEXANE SULFONATE	108427-53-8	8.6	0.23	0.48	0.96	ug/kg		J	17
PERFLUOROHEXANOIC ACID	307-24-4	3.9	0.13	0.48	0.96	ug/kg		J	17
PERFLUORONONANOIC ACID	375-95-1	9.4	0.21	0.48	0.96	ug/kg		J	17
PERFLUOROOCTANE SULFONAMIDE	754-91-6	0.61	0.13	0.48	0.96	ug/kg	J	J	
PERFLUOROOCTANE SULFONATE	1763-23-1	390	5.0	15	19	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	7.5	0.24	0.77	0.96	ug/kg		J	17
PERFLUOROPENTANOIC ACID	2706-90-3	4.0	0.24	0.77	0.96	ug/kg		J	17
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.77	0.30	0.77	0.96	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.77	0.32	0.77	0.96	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	2.9	0.33	0.77	0.96	ug/kg		J	17

Analysis Method: EPA 537 m

Sample Name DOBNS09-003-GW-042 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT983 **Sample Date/Time:** 2017-12-13 16:43 **Validation Level:** Stage 4

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.18	0.013	0.030	0.040	ug/L			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	0.53	0.013	0.030	0.040	ug/L			
PERFLUOROBUTANE SULFONATE	29420-43-3	0.58	0.011	0.030	0.040	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.39	0.011	0.030	0.040	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.030	0.012	0.030	0.040	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	0.041	0.012	0.030	0.040	ug/L			
PERFLUORODODECANOIC ACID	307-55-1	<0.020	0.010	0.020	0.040	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.19	0.015	0.030	0.040	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	0.35	0.011	0.030	0.040	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	1.4	0.0070	0.020	0.040	ug/L			
PERFLUORONONANOIC ACID	375-95-1	0.13	0.017	0.036	0.040	ug/L			
PERFLUOROOCTANE SULFONAMIDE	754-91-6	0.018	0.0068	0.020	0.040	ug/L	J	J	
PERFLUOROOCTANE SULFONATE	1763-23-1	4.8	0.12	0.30	0.40	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	0.13	0.0066	0.020	0.040	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	1.5	0.015	0.036	0.040	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.020	0.0054	0.020	0.040	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.020	0.0076	0.020	0.040	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	0.017	0.0050	0.020	0.040	ug/L	J	J	

Analysis Method: EPA 537 m

Sample Name DOBNS09-003-GW-942 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT984 **Sample Date/Time:** 2017-12-13 16:43 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.20	0.013	0.030	0.040	ug/L			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	0.52	0.013	0.030	0.040	ug/L			
PERFLUOROBUTANE SULFONATE	29420-43-3	0.62	0.011	0.030	0.040	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.38	0.011	0.030	0.040	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.030	0.012	0.030	0.040	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	0.040	0.012	0.030	0.040	ug/L			
PERFLUORODODECANOIC ACID	307-55-1	<0.020	0.010	0.020	0.040	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.18	0.015	0.030	0.040	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	0.35	0.011	0.030	0.040	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	1.4	0.0070	0.020	0.040	ug/L			
PERFLUORONONANOIC ACID	375-95-1	0.12	0.017	0.036	0.040	ug/L			
PERFLUOROOCTANE SULFONAMIDE	754-91-6	0.022	0.0068	0.020	0.040	ug/L	J	J	
PERFLUOROOCTANE SULFONATE	1763-23-1	5.1	0.12	0.30	0.40	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	0.13	0.0066	0.020	0.040	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	1.5	0.015	0.036	0.040	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.020	0.0054	0.020	0.040	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.020	0.0076	0.020	0.040	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	0.016	0.0050	0.020	0.040	ug/L	J	J	

Analysis Method: EPA 537 m

Sample Name DOBNS09-003-SO-037 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT903 **Sample Date/Time:** 2017-12-11 15:22 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.88	0.29	0.88	1.1	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.55	0.19	0.55	1.1	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	0.72	0.25	0.55	1.1	ug/kg	J	J	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	3.3	0.21	0.55	1.1	ug/kg			
PERFLUOROHEXANE SULFONATE	108427-53-8	16	0.26	0.55	1.1	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	2.3	0.15	0.55	1.1	ug/kg			
PERFLUORONONANOIC ACID	375-95-1	<0.55	0.24	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.88	0.29	0.88	1.1	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	2.8	0.28	0.88	1.1	ug/kg			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS09-003-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT902 **Sample Date/Time:** 2017-12-11 14:00 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	2.5	0.31	0.96	1.2	ug/kg			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	1.9	0.40	0.96	1.2	ug/kg			
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.60	0.20	0.60	1.2	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	3.4	0.28	0.60	1.2	ug/kg			
PERFLUORODECANE SULFONATE	335-77-3	5.4	0.47	0.96	1.2	ug/kg			
PERFLUORODECANOIC ACID	335-76-2	3.9	0.34	0.96	1.2	ug/kg			
PERFLUORODODECANOIC ACID	307-55-1	1.4	0.34	0.96	1.2	ug/kg			
PERFLUOROHEPTANOIC ACID	375-85-9	5.6	0.23	0.60	1.2	ug/kg			
PERFLUOROHEXANE SULFONATE	108427-53-8	10	0.29	0.60	1.2	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	4.8	0.17	0.60	1.2	ug/kg			
PERFLUORONONANOIC ACID	375-95-1	11	0.26	0.60	1.2	ug/kg			
PERFLUOROOCTANE SULFONAMIDE	754-91-6	5.5	0.17	0.60	1.2	ug/kg			
PERFLUOROOCTANE SULFONATE	1763-23-1	300	3.1	9.6	12	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	9.8	0.30	0.96	1.2	ug/kg			
PERFLUOROPENTANOIC ACID	2706-90-3	7.0	0.30	0.96	1.2	ug/kg			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.96	0.37	0.96	1.2	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	1.3	0.40	0.96	1.2	ug/kg			
PERFLUOROUNDECANOIC ACID	2058-94-8	5.4	0.41	0.96	1.2	ug/kg			

Analysis Method: EPA 537 m

Sample Name DOBNS10-001-GW-020 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT937 **Sample Date/Time:** 2017-12-06 14:10 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.015	0.0066	0.015	0.020	ug/L	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.011	0.0054	0.015	0.020	ug/L	J	J	
PERFLUOROBUTANOIC ACID	375-22-4	0.014	0.0055	0.015	0.020	ug/L	J	J	
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.010	0.0074	0.015	0.020	ug/L	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.075	0.0056	0.015	0.020	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	0.020	0.0035	0.010	0.020	ug/L			
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.013	0.0060	0.015	0.020	ug/L	J	J	
PERFLUOROOCTANOIC ACID	335-67-1	0.024	0.0033	0.010	0.020	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	0.021	0.0075	0.018	0.020	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS10-003-GW-023 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT938 **Sample Date/Time:** 2017-12-06 15:46 **Validation Level:** Stage 4

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.015	0.0066	0.015	0.020	ug/L	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.21	0.0054	0.015	0.020	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.021	0.0055	0.015	0.020	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.014	0.0074	0.015	0.020	ug/L	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.54	0.0056	0.015	0.020	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	0.096	0.0035	0.010	0.020	ug/L			
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	0.014	0.0033	0.010	0.020	ug/L	J	J	
PERFLUOROPENTANOIC ACID	2706-90-3	0.043	0.0075	0.018	0.020	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS11-001-GW-034 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT936 **Sample Date/Time:** 2017-12-06 13:00 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.015	0.0066	0.015	0.020	ug/L	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.011	0.0054	0.015	0.020	ug/L	J	J	
PERFLUOROBUTANOIC ACID	375-22-4	<0.015	0.0055	0.015	0.020	ug/L	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.015	0.0074	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.077	0.0056	0.015	0.020	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	0.016	0.0035	0.010	0.020	ug/L	J	J	
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.021	0.0060	0.015	0.020	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	0.010	0.0033	0.010	0.020	ug/L	J	J	
PERFLUOROPENTANOIC ACID	2706-90-3	0.016	0.0075	0.018	0.020	ug/L	J	J	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS11-002-GW-022 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT935 **Sample Date/Time:** 2017-12-06 12:20 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.015	0.0066	0.015	0.020	ug/L	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.010	0.0054	0.015	0.020	ug/L	J	J	
PERFLUOROBUTANOIC ACID	375-22-4	0.012	0.0055	0.015	0.020	ug/L	J	J	
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.013	0.0074	0.015	0.020	ug/L	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.054	0.0056	0.015	0.020	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	0.021	0.0035	0.010	0.020	ug/L			
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	0.024	0.0033	0.010	0.020	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	0.017	0.0075	0.018	0.020	ug/L	J	J	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS11-003-GW-018 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT933 **Sample Date/Time:** 2017-12-06 11:26 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.015	0.0066	0.015	0.020	ug/L	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.012	0.0054	0.015	0.020	ug/L	J	J	
PERFLUOROBUTANOIC ACID	375-22-4	0.021	0.0055	0.015	0.020	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.015	0.0074	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.043	0.0056	0.015	0.020	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	0.032	0.0035	0.010	0.020	ug/L			
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.020	0.0060	0.015	0.020	ug/L	J	J	
PERFLUOROOCTANOIC ACID	335-67-1	0.021	0.0033	0.010	0.020	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	0.013	0.0075	0.018	0.020	ug/L	J	J	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS11-003-GW-918 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT934 **Sample Date/Time:** 2017-12-06 11:26 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.015	0.0066	0.015	0.020	ug/L	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.010	0.0054	0.015	0.020	ug/L	J	J	
PERFLUOROBUTANOIC ACID	375-22-4	<0.015	0.0055	0.015	0.020	ug/L	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.015	0.0074	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.034	0.0056	0.015	0.020	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	0.032	0.0035	0.010	0.020	ug/L			
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.017	0.0060	0.015	0.020	ug/L	J	J	
PERFLUOROOCTANOIC ACID	335-67-1	0.020	0.0033	0.010	0.020	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	0.013	0.0075	0.018	0.020	ug/L	J	J	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS12-001-GW-024 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT911 **Sample Date/Time:** 2017-12-14 08:35 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.48	0.0066	0.015	0.020	ug/L			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	0.0093	0.0066	0.015	0.020	ug/L	J	J	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.24	0.0054	0.015	0.020	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.33	0.0055	0.015	0.020	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.22	0.0074	0.015	0.020	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	1.6	0.056	0.15	0.20	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	1.2	0.035	0.10	0.20	ug/L			
PERFLUORONONANOIC ACID	375-95-1	0.012	0.0087	0.018	0.020	ug/L	J	J	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.84	0.0060	0.015	0.020	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	0.23	0.0033	0.010	0.020	ug/L		J	05B
PERFLUOROPENTANOIC ACID	2706-90-3	0.94	0.0075	0.018	0.020	ug/L		J	05B
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS12-001-SO-024 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT932 **Sample Date/Time:** 2017-12-07 13:00 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.77	0.25	0.76	0.95	ug/kg	J	J	10A
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.76	0.31	0.76	0.95	ug/kg	U	UJ	10A
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.48	0.16	0.48	0.95	ug/kg	U	UJ	10A
PERFLUOROBUTANOIC ACID	375-22-4	<0.48	0.22	0.48	0.95	ug/kg	U	UJ	10A
PERFLUORODECANE SULFONATE	335-77-3	<0.76	0.37	0.76	0.95	ug/kg	U	UJ	10A
PERFLUORODECANOIC ACID	335-76-2	<0.76	0.27	0.76	0.95	ug/kg	U	UJ	10A
PERFLUORODODECANOIC ACID	307-55-1	<0.76	0.27	0.76	0.95	ug/kg	U	UJ	10A
PERFLUOROHEPTANOIC ACID	375-85-9	<0.48	0.18	0.48	0.95	ug/kg	U	UJ	10A
PERFLUOROHEXANE SULFONATE	108427-53-8	0.93	0.23	0.48	0.95	ug/kg	J	J	10A
PERFLUOROHEXANOIC ACID	307-24-4	0.24	0.13	0.48	0.95	ug/kg	J	J	10A
PERFLUORONONANOIC ACID	375-95-1	<0.48	0.21	0.48	0.95	ug/kg	U	UJ	10A
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.48	0.13	0.48	0.95	ug/kg	U	UJ	10A
PERFLUOROOCTANE SULFONATE	1763-23-1	3.8	0.25	0.76	0.95	ug/kg		J	10A
PERFLUOROOCTANOIC ACID	335-67-1	<0.76	0.24	0.76	0.95	ug/kg	U	UJ	10A
PERFLUOROPENTANOIC ACID	2706-90-3	<0.76	0.24	0.76	0.95	ug/kg	U	UJ	10A
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.76	0.29	0.76	0.95	ug/kg	U	UJ	10A
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.76	0.31	0.76	0.95	ug/kg	U	UJ	10A
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.76	0.32	0.76	0.95	ug/kg	U	UJ	10A

Analysis Method: EPA 537 m

Sample Name DOBNS12-001-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT930 **Sample Date/Time:** 2017-12-07 12:02 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	3.8	0.31	0.96	1.2	ug/kg			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	1.4	0.40	0.96	1.2	ug/kg			
PERFLUOROBUTANE SULFONATE	29420-43-3	2.7	0.20	0.60	1.2	ug/kg			
PERFLUOROBUTANOIC ACID	375-22-4	1.9	0.28	0.60	1.2	ug/kg			
PERFLUORODECANE SULFONATE	335-77-3	1.8	0.47	0.96	1.2	ug/kg			
PERFLUORODECANOIC ACID	335-76-2	<0.96	0.34	0.96	1.2	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.96	0.34	0.96	1.2	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.77	0.23	0.60	1.2	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	47	0.29	0.60	1.2	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	3.5	0.17	0.60	1.2	ug/kg			
PERFLUORONONANOIC ACID	375-95-1	0.64	0.26	0.60	1.2	ug/kg	J	J	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	18	0.17	0.60	1.2	ug/kg			
PERFLUOROOCTANE SULFONATE	1763-23-1	54	0.31	0.96	1.2	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	1.5	0.30	0.96	1.2	ug/kg			
PERFLUOROPENTANOIC ACID	2706-90-3	2.4	0.30	0.96	1.2	ug/kg			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.96	0.37	0.96	1.2	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	0.55	0.41	0.96	1.2	ug/kg	J	J	

Analysis Method: EPA 537 m

Sample Name DOBNS12-002-SO-009 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT950 **Sample Date/Time:** 2017-12-07 14:32 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	5.0	0.29	0.88	1.1	ug/kg			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	48	3.6	8.8	11	ug/kg			
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.55	0.19	0.55	1.1	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.55	0.25	0.55	1.1	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.58	0.21	0.55	1.1	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	1.3	0.26	0.55	1.1	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	0.35	0.15	0.55	1.1	ug/kg	J	J	
PERFLUORONONANOIC ACID	375-95-1	1.9	0.24	0.55	1.1	ug/kg			
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	73	2.9	8.8	11	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	2.1	0.28	0.88	1.1	ug/kg			
PERFLUOROPENTANOIC ACID	2706-90-3	0.44	0.28	0.88	1.1	ug/kg	J	J	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS12-002-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT947 **Sample Date/Time:** 2017-12-07 13:30 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	21	0.29	0.88	1.1	ug/kg		J	10A;17
8:2 FLUOROTELOMER SULFONATE	39108-34-4	6.3	0.36	0.88	1.1	ug/kg		J	10A;17
PERFLUOROBUTANE SULFONATE	29420-43-3	0.64	0.19	0.55	1.1	ug/kg	J	J	10A
PERFLUOROBUTANOIC ACID	375-22-4	1.9	0.25	0.55	1.1	ug/kg		J	10A
PERFLUORODECANE SULFONATE	335-77-3	0.65	0.43	0.88	1.1	ug/kg	J	J	10A
PERFLUORODECANOIC ACID	335-76-2	0.93	0.31	0.88	1.1	ug/kg	J	J	10A;17
PERFLUORODODECANOIC ACID	307-55-1	1.0	0.31	0.88	1.1	ug/kg	J	J	10A
PERFLUOROHEPTANOIC ACID	375-85-9	1.1	0.21	0.55	1.1	ug/kg	J	J	10A
PERFLUOROHEXANE SULFONATE	108427-53-8	8.5	0.26	0.55	1.1	ug/kg		J	10A;17
PERFLUOROHEXANOIC ACID	307-24-4	2.1	0.15	0.55	1.1	ug/kg		J	10A
PERFLUORONONANOIC ACID	375-95-1	0.69	0.24	0.55	1.1	ug/kg	J	J	10A
PERFLUOROOCTANE SULFONAMIDE	754-91-6	4.0	0.15	0.55	1.1	ug/kg		J	10A;17
PERFLUOROOCTANE SULFONATE	1763-23-1	31	0.29	0.88	1.1	ug/kg		J	10A
PERFLUOROOCTANOIC ACID	335-67-1	1.5	0.28	0.88	1.1	ug/kg		J	10A
PERFLUOROPENTANOIC ACID	2706-90-3	3.1	0.28	0.88	1.1	ug/kg		J	10A
PERFLUOROTETRADECANOIC ACID	376-06-7	<8.8	3.4	8.8	11	ug/kg	U	UJ	10A
PERFLUOROTRIDECANOIC ACID	72629-94-8	<8.8	3.6	8.8	11	ug/kg	U	UJ	10A
PERFLUOROUNDECANOIC ACID	2058-94-8	0.99	0.37	0.88	1.1	ug/kg	J	J	10A

Analysis Method: EPA 537 m

Sample Name DOBNS12-002-SS-901 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT948 **Sample Date/Time:** 2017-12-07 13:30 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	35	2.9	8.8	11	ug/kg		J	17
8:2 FLUOROTELOMER SULFONATE	39108-34-4	12	0.36	0.88	1.1	ug/kg		J	17
PERFLUOROBUTANE SULFONATE	29420-43-3	0.35	0.19	0.55	1.1	ug/kg	J	J	
PERFLUOROBUTANOIC ACID	375-22-4	1.9	0.25	0.55	1.1	ug/kg			
PERFLUORODECANE SULFONATE	335-77-3	0.91	0.43	0.88	1.1	ug/kg	J	J	
PERFLUORODECANOIC ACID	335-76-2	2.1	0.31	0.88	1.1	ug/kg		J	17
PERFLUORODODECANOIC ACID	307-55-1	1.5	0.31	0.88	1.1	ug/kg			
PERFLUOROHEPTANOIC ACID	375-85-9	1.3	0.21	0.55	1.1	ug/kg			
PERFLUOROHEXANE SULFONATE	108427-53-8	5.9	0.26	0.55	1.1	ug/kg		J	17
PERFLUOROHEXANOIC ACID	307-24-4	2.1	0.15	0.55	1.1	ug/kg			
PERFLUORONONANOIC ACID	375-95-1	1.1	0.24	0.55	1.1	ug/kg	J	J	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	11	0.15	0.55	1.1	ug/kg		J	17
PERFLUOROOCTANE SULFONATE	1763-23-1	28	0.29	0.88	1.1	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	2.0	0.28	0.88	1.1	ug/kg			
PERFLUOROPENTANOIC ACID	2706-90-3	2.9	0.28	0.88	1.1	ug/kg			
PERFLUOROTETRADECANOIC ACID	376-06-7	<8.8	3.4	8.8	11	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<8.8	3.6	8.8	11	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	1.5	0.37	0.88	1.1	ug/kg			

Analysis Method: EPA 537 m

Sample Name DOBNS12-003-SO-007 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT952 **Sample Date/Time:** 2017-12-07 15:44 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	2.0	0.26	0.80	1.0	ug/kg		J	17
8:2 FLUOROTELOMER SULFONATE	39108-34-4	2.6	0.33	0.80	1.0	ug/kg		J	17
PERFLUOROBUTANE SULFONATE	29420-43-3	0.26	0.17	0.50	1.0	ug/kg	J	J	
PERFLUOROBUTANOIC ACID	375-22-4	0.59	0.23	0.50	1.0	ug/kg	J	J	
PERFLUORODECANE SULFONATE	335-77-3	<0.80	0.39	0.80	1.0	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.80	0.28	0.80	1.0	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.80	0.28	0.80	1.0	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	1.2	0.19	0.50	1.0	ug/kg			
PERFLUOROHEXANE SULFONATE	108427-53-8	7.9	0.24	0.50	1.0	ug/kg		J	17
PERFLUOROHEXANOIC ACID	307-24-4	1.6	0.14	0.50	1.0	ug/kg			
PERFLUORONONANOIC ACID	375-95-1	0.59	0.22	0.50	1.0	ug/kg	J	J	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.50	0.14	0.50	1.0	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	200	2.6	8.0	10	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	2.5	0.25	0.80	1.0	ug/kg			
PERFLUOROPENTANOIC ACID	2706-90-3	1.7	0.25	0.80	1.0	ug/kg			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.80	0.31	0.80	1.0	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.80	0.33	0.80	1.0	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.80	0.34	0.80	1.0	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS12-003-SO-907 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT953 **Sample Date/Time:** 2017-12-07 15:44 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.83	0.23	0.72	0.90	ug/kg	J	J	17
8:2 FLUOROTELOMER SULFONATE	39108-34-4	3.9	0.30	0.72	0.90	ug/kg		J	17
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.45	0.15	0.45	0.90	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	0.31	0.21	0.45	0.90	ug/kg	J	J	
PERFLUORODECANE SULFONATE	335-77-3	<0.72	0.35	0.72	0.90	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.72	0.25	0.72	0.90	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.72	0.25	0.72	0.90	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.54	0.17	0.45	0.90	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	3.4	0.22	0.45	0.90	ug/kg		J	17
PERFLUOROHEXANOIC ACID	307-24-4	0.78	0.13	0.45	0.90	ug/kg	J	J	
PERFLUORONONANOIC ACID	375-95-1	0.59	0.20	0.45	0.90	ug/kg	J	J	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.45	0.13	0.45	0.90	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	220	2.3	7.2	9.0	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	2.2	0.23	0.72	0.90	ug/kg			
PERFLUOROPENTANOIC ACID	2706-90-3	0.85	0.23	0.72	0.90	ug/kg	J	J	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.72	0.28	0.72	0.90	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.72	0.30	0.72	0.90	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.72	0.31	0.72	0.90	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS12-003-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT951 **Sample Date/Time:** 2017-12-07 15:05 **Validation Level:** Stage 4

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	13	0.23	0.72	0.90	ug/kg			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	3.6	0.30	0.72	0.90	ug/kg			
PERFLUOROBUTANE SULFONATE	29420-43-3	1.3	0.15	0.45	0.90	ug/kg			
PERFLUOROBUTANOIC ACID	375-22-4	1.2	0.21	0.45	0.90	ug/kg			
PERFLUORODECANE SULFONATE	335-77-3	1.1	0.35	0.72	0.90	ug/kg			
PERFLUORODECANOIC ACID	335-76-2	0.55	0.25	0.72	0.90	ug/kg	J	J	
PERFLUORODODECANOIC ACID	307-55-1	<7.2	2.5	7.2	9.0	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.80	0.17	0.45	0.90	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	12	0.22	0.45	0.90	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	1.5	0.13	0.45	0.90	ug/kg			
PERFLUORONONANOIC ACID	375-95-1	0.67	0.20	0.45	0.90	ug/kg	J	J	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	5.6	1.3	4.5	9.0	ug/kg	J	J	
PERFLUOROOCTANE SULFONATE	1763-23-1	150	2.3	0.72	9.0	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	1.2	0.23	0.72	0.90	ug/kg			
PERFLUOROPENTANOIC ACID	2706-90-3	2.3	0.23	0.72	0.90	ug/kg			
PERFLUOROTETRADECANOIC ACID	376-06-7	<7.2	2.8	7.2	9.0	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<7.2	3.0	7.2	9.0	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<7.2	3.1	7.2	9.0	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS13-001-GW-050 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT920 **Sample Date/Time:** 2017-12-14 14:16 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.041	0.0069	0.016	0.021	ug/L		J	02A
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.017	0.0073	0.017	0.022	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.12	0.0059	0.017	0.022	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.037	0.0061	0.017	0.022	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.017	0.0066	0.017	0.022	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.017	0.0067	0.017	0.022	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.011	0.0055	0.011	0.022	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.028	0.0081	0.017	0.022	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	0.47	0.0062	0.017	0.022	ug/L		J	08A;08B
PERFLUOROHEXANOIC ACID	307-24-4	0.16	0.0039	0.011	0.022	ug/L			
PERFLUORONONANOIC ACID	375-95-1	<0.020	0.0096	0.020	0.022	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.011	0.0037	0.011	0.022	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.20	0.0066	0.017	0.022	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	0.039	0.0036	0.011	0.022	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	0.12	0.0083	0.020	0.022	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.011	0.0030	0.011	0.022	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.011	0.0042	0.011	0.022	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.011	0.0028	0.011	0.022	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS13-001-SO-047 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT982 **Sample Date/Time:** 2017-12-12 17:20 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<13	4.2	13	16	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<13	5.3	13	16	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<8.0	2.7	8.0	16	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<8.0	3.7	8.0	16	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<13	6.2	13	16	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<13	4.5	13	16	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<13	4.5	13	16	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<8.0	3.0	8.0	16	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<8.0	3.8	8.0	16	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<8.0	2.2	8.0	16	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<8.0	3.5	8.0	16	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<8.0	2.2	8.0	16	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<13	4.2	13	16	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<13	4.0	13	16	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<13	4.0	13	16	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<13	5.0	13	16	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<13	5.3	13	16	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<13	5.4	13	16	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS13-001-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT981 **Sample Date/Time:** 2017-12-12 15:37 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<7.4	2.4	7.4	9.3	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<7.4	3.1	7.4	9.3	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	6.8	1.6	4.7	9.3	ug/kg	J	J	
PERFLUOROBUTANOIC ACID	375-22-4	<4.7	2.1	4.7	9.3	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<7.4	3.6	7.4	9.3	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<7.4	2.6	7.4	9.3	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<7.4	2.6	7.4	9.3	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	3.8	1.8	4.7	9.3	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	80	2.2	4.7	9.3	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	11	1.3	4.7	9.3	ug/kg			
PERFLUORONONANOIC ACID	375-95-1	5.6	2.0	4.7	9.3	ug/kg	J	J	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<4.7	1.3	4.7	9.3	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	900	24	74	93	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	11	2.3	7.4	9.3	ug/kg			
PERFLUOROPENTANOIC ACID	2706-90-3	6.2	2.3	7.4	9.3	ug/kg	J	J	
PERFLUOROTETRADECANOIC ACID	376-06-7	<7.4	2.9	7.4	9.3	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<7.4	3.1	7.4	9.3	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<7.4	3.2	7.4	9.3	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS13-002-GW-045 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT919 **Sample Date/Time:** 2017-12-14 12:52 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.020	0.0089	0.020	0.027	ug/L	U	UJ	02A
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.020	0.0086	0.020	0.026	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.020	0.0070	0.020	0.026	ug/L	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.020	0.0072	0.020	0.026	ug/L	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.020	0.0078	0.020	0.026	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.020	0.0079	0.020	0.026	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.013	0.0065	0.013	0.026	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.020	0.0096	0.020	0.026	ug/L	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.023	0.0073	0.020	0.026	ug/L	J	J	
PERFLUOROHEXANOIC ACID	307-24-4	<0.013	0.0046	0.013	0.026	ug/L	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.023	0.011	0.023	0.026	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.013	0.0044	0.013	0.026	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.055	0.0078	0.020	0.026	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	0.013	0.0043	0.013	0.026	ug/L	J	J	05B
PERFLUOROPENTANOIC ACID	2706-90-3	<0.023	0.0098	0.023	0.026	ug/L	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.013	0.0035	0.013	0.026	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.013	0.0049	0.013	0.026	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.013	0.0033	0.013	0.026	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS13-002-SO-034 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT909 **Sample Date/Time:** 2017-12-12 15:07 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.80	0.26	0.80	1.0	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.80	0.33	0.80	1.0	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.50	0.17	0.50	1.0	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.50	0.23	0.50	1.0	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.80	0.39	0.80	1.0	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.80	0.28	0.80	1.0	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.80	0.28	0.80	1.0	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.50	0.19	0.50	1.0	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.50	0.24	0.50	1.0	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.50	0.14	0.50	1.0	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.50	0.22	0.50	1.0	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.50	0.14	0.50	1.0	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.80	0.26	0.80	1.0	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.80	0.25	0.80	1.0	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.80	0.25	0.80	1.0	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.80	0.31	0.80	1.0	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.80	0.33	0.80	1.0	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.80	0.34	0.80	1.0	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS13-002-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT908 **Sample Date/Time:** 2017-12-12 13:00 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.91	0.31	0.96	1.2	ug/kg	J	J	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	1.2	0.20	0.60	1.2	ug/kg			
PERFLUOROBUTANOIC ACID	375-22-4	1.6	0.28	0.60	1.2	ug/kg			
PERFLUORODECANE SULFONATE	335-77-3	2.7	0.47	0.96	1.2	ug/kg			
PERFLUORODECANOIC ACID	335-76-2	3.2	0.34	0.96	1.2	ug/kg			
PERFLUORODODECANOIC ACID	307-55-1	<0.96	0.34	0.96	1.2	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	1.3	0.23	0.60	1.2	ug/kg			
PERFLUOROHEXANE SULFONATE	108427-53-8	42	0.29	0.60	1.2	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	4.4	0.17	0.60	1.2	ug/kg			
PERFLUORONONANOIC ACID	375-95-1	1.8	0.26	0.60	1.2	ug/kg			
PERFLUOROOCTANE SULFONAMIDE	754-91-6	5.2	0.17	0.60	1.2	ug/kg			
PERFLUOROOCTANE SULFONATE	1763-23-1	440	6.2	19	24	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	1.7	0.30	0.96	1.2	ug/kg			
PERFLUOROPENTANOIC ACID	2706-90-3	4.5	0.30	0.96	1.2	ug/kg			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.96	0.37	0.96	1.2	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	0.43	0.41	0.96	1.2	ug/kg	J	J	

Analysis Method: EPA 537 m

Sample Name DOBNS13-003-GW-050 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT973 **Sample Date/Time:** 2017-12-14 15:02 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.034	0.0063	0.014	0.019	ug/L		J	02A
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.017	0.0073	0.017	0.022	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.046	0.0059	0.017	0.022	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.020	0.0061	0.017	0.022	ug/L	J	J	
PERFLUORODECANE SULFONATE	335-77-3	<0.017	0.0066	0.017	0.022	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.017	0.0067	0.017	0.022	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.011	0.0055	0.011	0.022	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.018	0.0081	0.017	0.022	ug/L	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.38	0.0062	0.017	0.022	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	0.092	0.0039	0.011	0.022	ug/L			
PERFLUORONONANOIC ACID	375-95-1	<0.020	0.0096	0.020	0.022	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.011	0.0037	0.011	0.022	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.42	0.0066	0.017	0.022	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	0.079	0.0036	0.011	0.022	ug/L		J	05B
PERFLUOROPENTANOIC ACID	2706-90-3	0.027	0.0083	0.020	0.022	ug/L		J	05B
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.011	0.0030	0.011	0.022	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.011	0.0042	0.011	0.022	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.011	0.0028	0.011	0.022	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS13-003-SO-048 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT907 **Sample Date/Time:** 2017-12-12 12:27 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.78	0.25	0.78	0.97	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.78	0.32	0.78	0.97	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.49	0.16	0.49	0.97	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.49	0.22	0.49	0.97	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.78	0.38	0.78	0.97	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.78	0.27	0.78	0.97	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.78	0.27	0.78	0.97	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.49	0.18	0.49	0.97	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.54	0.23	0.49	0.97	ug/kg	J	J	
PERFLUOROHEXANOIC ACID	307-24-4	<0.49	0.14	0.49	0.97	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.49	0.21	0.49	0.97	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.49	0.14	0.49	0.97	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	1.8	0.25	0.78	0.97	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	<0.78	0.24	0.78	0.97	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.78	0.24	0.78	0.97	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.78	0.30	0.78	0.97	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.78	0.32	0.78	0.97	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.78	0.33	0.78	0.97	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS13-003-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT906 **Sample Date/Time:** 2017-12-12 10:26 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	51	2.9	8.8	11	ug/kg			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<8.8	3.6	8.8	11	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	180	1.9	5.5	11	ug/kg			
PERFLUOROBUTANOIC ACID	375-22-4	8.9	2.5	5.5	11	ug/kg	J	J	
PERFLUORODECANE SULFONATE	335-77-3	<8.8	4.3	8.8	11	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<8.8	3.1	8.8	11	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<8.8	3.1	8.8	11	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	14	2.1	5.5	11	ug/kg			
PERFLUOROHEXANE SULFONATE	108427-53-8	670	26	55	110	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	220	1.5	5.5	11	ug/kg			
PERFLUORONONANOIC ACID	375-95-1	<5.5	2.4	5.5	11	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	7.7	1.5	5.5	11	ug/kg	J	J	
PERFLUOROOCTANE SULFONATE	1763-23-1	1900	29	88	110	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	18	2.8	8.8	11	ug/kg			
PERFLUOROPENTANOIC ACID	2706-90-3	59	2.8	8.8	11	ug/kg			
PERFLUOROTETRADECANOIC ACID	376-06-7	<8.8	3.4	8.8	11	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<8.8	3.6	8.8	11	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<8.8	3.7	8.8	11	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS13-004-GW-052 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT967 **Sample Date/Time:** 2017-12-11 10:55 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	2.0	0.033	0.075	0.10	ug/L			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.075	0.033	0.075	0.10	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	4.9	0.027	0.075	0.10	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.96	0.028	0.075	0.10	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.075	0.030	0.075	0.10	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.075	0.031	0.075	0.10	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.050	0.025	0.050	0.10	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.48	0.037	0.075	0.10	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	17	0.28	0.75	1.0	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	5.1	0.018	0.050	0.10	ug/L			
PERFLUORONONANOIC ACID	375-95-1	<0.090	0.044	0.090	0.10	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.050	0.017	0.050	0.10	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	34	0.30	0.75	1.0	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	1.0	0.017	0.050	0.10	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	2.0	0.038	0.090	0.10	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.050	0.014	0.050	0.10	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.050	0.019	0.050	0.10	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.050	0.013	0.050	0.10	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS14-001-GW-012 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT974 **Sample Date/Time:** 2017-12-12 10:40 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	18	0.13	0.30	0.40	ug/L			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	2.8	0.13	0.30	0.40	ug/L			
PERFLUOROBUTANE SULFONATE	29420-43-3	0.18	0.011	0.030	0.040	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.41	0.011	0.030	0.040	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.030	0.012	0.030	0.040	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	0.015	0.012	0.030	0.040	ug/L	J	J	
PERFLUORODODECANOIC ACID	307-55-1	<0.020	0.010	0.020	0.040	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.68	0.015	0.030	0.040	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	5.8	0.11	0.30	0.40	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	1.8	0.0070	0.020	0.040	ug/L			
PERFLUORONONANOIC ACID	375-95-1	0.15	0.017	0.036	0.040	ug/L			
PERFLUOROOCTANE SULFONAMIDE	754-91-6	0.018	0.0068	0.020	0.040	ug/L	J	J	
PERFLUOROOCTANE SULFONATE	1763-23-1	16	0.12	0.30	0.40	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	1.8	0.0066	0.020	0.040	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	1.0	0.015	0.036	0.040	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.020	0.0054	0.020	0.040	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.020	0.0076	0.020	0.040	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.020	0.0050	0.020	0.040	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS14-D3-W24-GW-015 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT916 **Sample Date/Time:** 2017-12-14 14:20 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.17	0.0066	0.015	0.020	ug/L			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	0.016	0.0066	0.015	0.020	ug/L	J	J	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.086	0.0054	0.015	0.020	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.30	0.0055	0.015	0.020	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.58	0.0074	0.015	0.020	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	1.1	0.056	0.15	0.20	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	0.72	0.0035	0.010	0.020	ug/L			
PERFLUORONONANOIC ACID	375-95-1	0.19	0.0087	0.018	0.020	ug/L			
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	2.0	0.060	0.15	0.20	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	0.48	0.0033	0.010	0.020	ug/L		J	05B
PERFLUOROPENTANOIC ACID	2706-90-3	0.88	0.0075	0.018	0.020	ug/L		J	05B
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS14-OT004-MW02 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT976 **Sample Date/Time:** 2017-12-12 14:50 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.017	0.0066	0.015	0.020	ug/L	J	J	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.019	0.0054	0.015	0.020	ug/L	J	J	
PERFLUOROBUTANOIC ACID	375-22-4	0.022	0.0055	0.015	0.020	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.014	0.0074	0.015	0.020	ug/L	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.12	0.0056	0.015	0.020	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	0.058	0.0035	0.010	0.020	ug/L			
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.090	0.0060	0.015	0.020	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	0.14	0.0033	0.010	0.020	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	0.024	0.0075	0.018	0.020	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS14-OT004-MW03 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT975 **Sample Date/Time:** 2017-12-12 12:50 **Validation Level:** Stage 4

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.50	0.0066	0.015	0.020	ug/L			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	0.011	0.0066	0.015	0.020	ug/L	J	J	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.071	0.0054	0.015	0.020	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.093	0.0055	0.015	0.020	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.11	0.0074	0.015	0.020	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	0.89	0.0056	0.015	0.020	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	0.34	0.0035	0.010	0.020	ug/L			
PERFLUORONONANOIC ACID	375-95-1	0.031	0.0087	0.018	0.020	ug/L			
PERFLUOROOCTANE SULFONAMIDE	754-91-6	0.010	0.0034	0.010	0.020	ug/L	J	J	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.97	0.0060	0.015	0.020	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	0.24	0.0033	0.010	0.020	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	0.25	0.0075	0.018	0.020	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS15-001-GW-011 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT980 **Sample Date/Time:** 2017-12-12 18:40 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	1.3	0.066	0.15	0.20	ug/L			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	0.041	0.0066	0.015	0.020	ug/L			
PERFLUOROBUTANE SULFONATE	29420-43-3	0.20	0.0054	0.015	0.020	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.19	0.0055	0.015	0.020	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.38	0.0074	0.015	0.020	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	2.2	0.056	0.15	0.20	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	0.66	0.0035	0.010	0.020	ug/L			
PERFLUORONONANOIC ACID	375-95-1	0.053	0.0087	0.018	0.020	ug/L			
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	4.4	0.060	0.15	0.20	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	0.43	0.0033	0.010	0.020	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	0.72	0.0075	0.018	0.020	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS15-001-SO-008 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT893 **Sample Date/Time:** 2017-12-10 17:28 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.88	0.29	0.88	1.1	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.55	0.19	0.55	1.1	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.55	0.25	0.55	1.1	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.55	0.21	0.55	1.1	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.72	0.26	0.55	1.1	ug/kg	J	J	
PERFLUOROHEXANOIC ACID	307-24-4	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.55	0.24	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.88	0.29	0.88	1.1	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS15-001-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT891 **Sample Date/Time:** 2017-12-10 16:50 **Validation Level:** Stage 4

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.88	0.29	0.88	1.1	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.55	0.19	0.55	1.1	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.55	0.25	0.55	1.1	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.43	0.21	0.55	1.1	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	2.8	0.26	0.55	1.1	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	0.84	0.15	0.55	1.1	ug/kg	J	J	
PERFLUORONONANOIC ACID	375-95-1	<0.55	0.24	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	9.1	0.29	0.88	1.1	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	1.6	0.28	0.88	1.1	ug/kg			
PERFLUOROPENTANOIC ACID	2706-90-3	0.93	0.28	0.88	1.1	ug/kg	J	J	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS15-001-SS-901 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT892 **Sample Date/Time:** 2017-12-10 16:50 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<1.0	0.34	1.0	1.3	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<1.0	0.43	1.0	1.3	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.65	0.22	0.65	1.3	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.65	0.30	0.65	1.3	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<1.0	0.51	1.0	1.3	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<1.0	0.36	1.0	1.3	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<1.0	0.36	1.0	1.3	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.47	0.25	0.65	1.3	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	2.1	0.31	0.65	1.3	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	1.0	0.18	0.65	1.3	ug/kg	J	J	
PERFLUORONONANOIC ACID	375-95-1	<0.65	0.29	0.65	1.3	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.65	0.18	0.65	1.3	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	6.7	0.34	1.0	1.3	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	1.3	0.33	1.0	1.3	ug/kg			
PERFLUOROPENTANOIC ACID	2706-90-3	0.96	0.33	1.0	1.3	ug/kg	J	J	
PERFLUOROTETRADECANOIC ACID	376-06-7	<1.0	0.40	1.0	1.3	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<1.0	0.43	1.0	1.3	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<1.0	0.44	1.0	1.3	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS15-002-GW-007 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT977 **Sample Date/Time:** 2017-12-12 16:25 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.018	0.0066	0.015	0.020	ug/L	J	J	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.081	0.0054	0.015	0.020	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.12	0.0055	0.015	0.020	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.20	0.0074	0.015	0.020	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	0.96	0.0056	0.015	0.020	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	0.64	0.0035	0.010	0.020	ug/L			
PERFLUORONONANOIC ACID	375-95-1	0.011	0.0087	0.018	0.020	ug/L	J	J	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.28	0.0060	0.015	0.020	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	0.24	0.0033	0.010	0.020	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	0.43	0.0075	0.018	0.020	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS15-002-SO-005 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT895 **Sample Date/Time:** 2017-12-11 08:30 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.96	0.31	0.96	1.2	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.60	0.20	0.60	1.2	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.60	0.28	0.60	1.2	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.96	0.47	0.96	1.2	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.96	0.34	0.96	1.2	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.96	0.34	0.96	1.2	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.24	0.23	0.60	1.2	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.71	0.29	0.60	1.2	ug/kg	J	J	
PERFLUOROHEXANOIC ACID	307-24-4	0.19	0.17	0.60	1.2	ug/kg	J	J	
PERFLUORONONANOIC ACID	375-95-1	<0.60	0.26	0.60	1.2	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.60	0.17	0.60	1.2	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	4.7	0.31	0.96	1.2	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	<0.96	0.30	0.96	1.2	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.96	0.30	0.96	1.2	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.96	0.37	0.96	1.2	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.96	0.40	0.96	1.2	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.96	0.41	0.96	1.2	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS15-002-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT894 **Sample Date/Time:** 2017-12-11 08:20 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.88	0.29	0.88	1.1	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.55	0.19	0.55	1.1	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.55	0.25	0.55	1.1	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.25	0.21	0.55	1.1	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.81	0.26	0.55	1.1	ug/kg	J	J	
PERFLUOROHEXANOIC ACID	307-24-4	0.26	0.15	0.55	1.1	ug/kg	J	J	
PERFLUORONONANOIC ACID	375-95-1	<0.55	0.24	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	1.3	0.29	0.88	1.1	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	<0.88	0.28	0.88	1.1	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	0.58	0.28	0.88	1.1	ug/kg	J	J	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS15-003-GW-011 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT978 **Sample Date/Time:** 2017-12-12 17:15 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.060	0.0066	0.015	0.020	ug/L			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.072	0.0054	0.015	0.020	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.081	0.0055	0.015	0.020	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.096	0.0074	0.015	0.020	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	0.67	0.0056	0.015	0.020	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	0.37	0.0035	0.010	0.020	ug/L			
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.36	0.0060	0.015	0.020	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	0.12	0.0033	0.010	0.020	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	0.29	0.0075	0.018	0.020	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS15-003-GW-911 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT979 **Sample Date/Time:** 2017-12-12 17:15 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.053	0.0066	0.015	0.020	ug/L			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.077	0.0054	0.015	0.020	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.085	0.0055	0.015	0.020	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.099	0.0074	0.015	0.020	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	0.70	0.0056	0.015	0.020	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	0.33	0.0035	0.010	0.020	ug/L			
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.36	0.0060	0.015	0.020	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	0.12	0.0033	0.010	0.020	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	0.31	0.0075	0.018	0.020	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS15-003-SO-005 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT890 **Sample Date/Time:** 2017-12-10 16:41 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.80	0.26	0.80	1.0	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.80	0.33	0.80	1.0	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.50	0.17	0.50	1.0	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.50	0.23	0.50	1.0	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.80	0.39	0.80	1.0	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.80	0.28	0.80	1.0	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.80	0.28	0.80	1.0	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.50	0.19	0.50	1.0	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	0.48	0.24	0.50	1.0	ug/kg	J	J	
PERFLUOROHEXANOIC ACID	307-24-4	<0.50	0.14	0.50	1.0	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.50	0.22	0.50	1.0	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.50	0.14	0.50	1.0	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	3.2	0.26	0.80	1.0	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	<0.80	0.25	0.80	1.0	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.80	0.25	0.80	1.0	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.80	0.31	0.80	1.0	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.80	0.33	0.80	1.0	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.80	0.34	0.80	1.0	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS15-003-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT889 **Sample Date/Time:** 2017-12-10 16:13 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.88	0.29	0.88	1.1	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.55	0.19	0.55	1.1	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.55	0.25	0.55	1.1	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.29	0.21	0.55	1.1	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	1.2	0.26	0.55	1.1	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	0.54	0.15	0.55	1.1	ug/kg	J	J	
PERFLUORONONANOIC ACID	375-95-1	<0.55	0.24	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	4.9	0.29	0.88	1.1	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	1.7	0.28	0.88	1.1	ug/kg			
PERFLUOROPENTANOIC ACID	2706-90-3	0.69	0.28	0.88	1.1	ug/kg	J	J	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS16-001-GW-012 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT912 **Sample Date/Time:** 2017-12-14 10:30 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.64	0.033	0.075	0.10	ug/L		J	02A
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.075	0.033	0.075	0.10	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.98	0.027	0.075	0.10	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.41	0.028	0.075	0.10	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.075	0.030	0.075	0.10	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.075	0.031	0.075	0.10	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.050	0.025	0.050	0.10	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.88	0.037	0.075	0.10	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	15	0.14	0.38	0.50	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	4.6	0.018	0.050	0.10	ug/L			
PERFLUORONONANOIC ACID	375-95-1	<0.090	0.044	0.090	0.10	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.050	0.017	0.050	0.10	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.90	0.030	0.075	0.10	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	2.4	0.017	0.050	0.10	ug/L		J	05B
PERFLUOROPENTANOIC ACID	2706-90-3	1.2	0.038	0.090	0.10	ug/L		J	05B
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.050	0.014	0.050	0.10	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.050	0.019	0.050	0.10	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.050	0.013	0.050	0.10	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS16-001-SO-006 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT961 **Sample Date/Time:** 2017-12-08 12:50 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<12	3.9	12	15	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<12	5.0	12	15	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<7.5	2.6	7.5	15	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<7.5	3.5	7.5	15	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<12	5.9	12	15	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<12	4.2	12	15	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<12	4.2	12	15	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<7.5	2.9	7.5	15	ug/kg	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<7.5	3.6	7.5	15	ug/kg	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<7.5	2.1	7.5	15	ug/kg	U	U	
PERFLUORONONANOIC ACID	375-95-1	<7.5	3.3	7.5	15	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<7.5	2.1	7.5	15	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<12	3.9	12	15	ug/kg	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<12	3.8	12	15	ug/kg	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<12	3.8	12	15	ug/kg	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<12	4.7	12	15	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<12	5.0	12	15	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<12	5.1	12	15	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS16-001-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT959 **Sample Date/Time:** 2017-12-08 12:25 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.88	0.29	0.88	1.1	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.55	0.19	0.55	1.1	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.55	0.25	0.55	1.1	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.23	0.21	0.55	1.1	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	3.0	0.26	0.55	1.1	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	0.99	0.15	0.55	1.1	ug/kg	J	J	
PERFLUORONONANOIC ACID	375-95-1	0.55	0.24	0.55	1.1	ug/kg	J	J	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	22	0.29	0.88	1.1	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	1.4	0.28	0.88	1.1	ug/kg			
PERFLUOROPENTANOIC ACID	2706-90-3	0.67	0.28	0.88	1.1	ug/kg	J	J	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS16-002-GW-015 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT915 **Sample Date/Time:** 2017-12-14 12:28 **Validation Level:** Stage 4

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	3.0	0.13	0.30	0.40	ug/L			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	0.76	0.013	0.030	0.040	ug/L			
PERFLUOROBUTANE SULFONATE	29420-43-3	0.62	0.011	0.030	0.040	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.31	0.011	0.030	0.040	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.030	0.012	0.030	0.040	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	0.021	0.012	0.030	0.040	ug/L	J	J	
PERFLUORODODECANOIC ACID	307-55-1	<0.020	0.010	0.020	0.040	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.60	0.015	0.030	0.040	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	8.6	0.11	0.30	0.40	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	2.4	0.070	0.20	0.40	ug/L			
PERFLUORONONANOIC ACID	375-95-1	0.079	0.017	0.036	0.040	ug/L			
PERFLUOROOCTANE SULFONAMIDE	754-91-6	0.18	0.0068	0.020	0.040	ug/L			
PERFLUOROOCTANE SULFONATE	1763-23-1	8.2	0.12	0.30	0.40	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	1.6	0.0066	0.020	0.040	ug/L		J	05B
PERFLUOROPENTANOIC ACID	2706-90-3	1.0	0.015	0.036	0.040	ug/L		J	05B
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.020	0.0054	0.020	0.040	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.020	0.0076	0.020	0.040	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.020	0.0050	0.020	0.040	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS16-002-SO-006 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT958 **Sample Date/Time:** 2017-12-08 11:40 **Validation Level:** Stage 4

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	4.2	0.25	0.78	0.98	ug/kg			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	4.7	0.32	0.78	0.98	ug/kg			
PERFLUOROBUTANE SULFONATE	29420-43-3	0.48	0.17	0.49	0.98	ug/kg	J	J	
PERFLUOROBUTANOIC ACID	375-22-4	0.73	0.23	0.49	0.98	ug/kg	J	J	
PERFLUORODECANE SULFONATE	335-77-3	<0.78	0.38	0.78	0.98	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.78	0.27	0.78	0.98	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.78	0.27	0.78	0.98	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	1.5	0.19	0.49	0.98	ug/kg			
PERFLUOROHEXANE SULFONATE	108427-53-8	18	0.24	0.49	0.98	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	3.5	0.14	0.49	0.98	ug/kg			
PERFLUORONONANOIC ACID	375-95-1	1.1	0.22	0.49	0.98	ug/kg			
PERFLUOROOCTANE SULFONAMIDE	754-91-6	73	1.4	4.9	9.8	ug/kg			
PERFLUOROOCTANE SULFONATE	1763-23-1	75	2.5	7.8	9.8	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	7.6	0.25	0.78	0.98	ug/kg			
PERFLUOROPENTANOIC ACID	2706-90-3	1.9	0.25	0.78	0.98	ug/kg			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.78	0.30	0.78	0.98	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.78	0.32	0.78	0.98	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.78	0.33	0.78	0.98	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS16-002-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT957 **Sample Date/Time:** 2017-12-08 10:40 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.88	0.29	0.88	1.1	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.63	0.19	0.55	1.1	ug/kg	J	J	
PERFLUOROBUTANOIC ACID	375-22-4	3.1	0.25	0.55	1.1	ug/kg			
PERFLUORODECANE SULFONATE	335-77-3	2.4	0.43	0.88	1.1	ug/kg			
PERFLUORODECANOIC ACID	335-76-2	1.8	0.31	0.88	1.1	ug/kg			
PERFLUORODODECANOIC ACID	307-55-1	0.54	0.31	0.88	1.1	ug/kg	J	J	
PERFLUOROHEPTANOIC ACID	375-85-9	1.2	0.21	0.55	1.1	ug/kg			
PERFLUOROHEXANE SULFONATE	108427-53-8	22	0.26	0.55	1.1	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	3.9	0.15	0.55	1.1	ug/kg			
PERFLUORONONANOIC ACID	375-95-1	2.9	0.24	0.55	1.1	ug/kg			
PERFLUOROOCTANE SULFONAMIDE	754-91-6	2.0	0.15	0.55	1.1	ug/kg			
PERFLUOROOCTANE SULFONATE	1763-23-1	60	0.29	0.88	11	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	3.3	0.28	0.88	1.1	ug/kg			
PERFLUOROPENTANOIC ACID	2706-90-3	4.4	0.28	0.88	1.1	ug/kg			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	1.6	0.37	0.88	1.1	ug/kg			

Analysis Method: EPA 537 m

Sample Name DOBNS16-003-GW-020 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT914 **Sample Date/Time:** 2017-12-14 11:35 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	3.3	0.033	0.075	0.10	ug/L			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	0.22	0.033	0.075	0.10	ug/L			
PERFLUOROBUTANE SULFONATE	29420-43-3	1.4	0.027	0.075	0.10	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.77	0.028	0.075	0.10	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.075	0.030	0.075	0.10	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.075	0.031	0.075	0.10	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.050	0.025	0.050	0.10	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	1.4	0.037	0.075	0.10	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	18	0.28	0.75	1.0	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	7.7	0.18	0.50	1.0	ug/L			
PERFLUORONONANOIC ACID	375-95-1	0.076	0.044	0.090	0.10	ug/L	J	J	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	0.22	0.017	0.050	0.10	ug/L			
PERFLUOROOCTANE SULFONATE	1763-23-1	5.7	0.30	0.75	1.0	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	5.6	0.17	0.50	1.0	ug/L		J	05B
PERFLUOROPENTANOIC ACID	2706-90-3	2.4	0.038	0.090	0.10	ug/L		J	05B
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.050	0.014	0.050	0.10	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.050	0.019	0.050	0.10	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.050	0.013	0.050	0.10	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS16-003-SO-015 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT956 **Sample Date/Time:** 2017-12-08 10:20 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	1.3	0.29	0.88	1.1	ug/kg			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.73	0.19	0.55	1.1	ug/kg	J	J	
PERFLUOROBUTANOIC ACID	375-22-4	<0.55	0.25	0.55	1.1	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.45	0.21	0.55	1.1	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	7.8	0.26	0.55	1.1	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	3.1	0.15	0.55	1.1	ug/kg			
PERFLUORONONANOIC ACID	375-95-1	<0.55	0.24	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	1.7	0.29	0.88	1.1	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	1.9	0.28	0.88	1.1	ug/kg			
PERFLUOROPENTANOIC ACID	2706-90-3	1.1	0.28	0.88	1.1	ug/kg	J	J	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS16-003-SS-001 **Matrix Type:** S **Result Type:** TRG

Lab Sample Name: FTT955 **Sample Date/Time:** 2017-12-08 09:05 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.88	0.29	0.88	1.1	ug/kg	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.55	0.19	0.55	1.1	ug/kg	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.55	0.25	0.55	1.1	ug/kg	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.88	0.43	0.88	1.1	ug/kg	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.88	0.31	0.88	1.1	ug/kg	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.82	0.21	0.55	1.1	ug/kg	J	J	
PERFLUOROHEXANE SULFONATE	108427-53-8	23	0.26	0.55	1.1	ug/kg			
PERFLUOROHEXANOIC ACID	307-24-4	1.6	0.15	0.55	1.1	ug/kg			
PERFLUORONONANOIC ACID	375-95-1	<0.55	0.24	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.55	0.15	0.55	1.1	ug/kg	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	38	0.29	0.88	1.1	ug/kg			
PERFLUOROOCTANOIC ACID	335-67-1	10	0.28	0.88	1.1	ug/kg			
PERFLUOROPENTANOIC ACID	2706-90-3	0.93	0.28	0.88	1.1	ug/kg	J	J	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.88	0.34	0.88	1.1	ug/kg	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.88	0.36	0.88	1.1	ug/kg	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.88	0.37	0.88	1.1	ug/kg	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS-RS-009 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT972 **Sample Date/Time:** 2017-12-06 11:56 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.015	0.0066	0.015	0.020	ug/L	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.015	0.0054	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.015	0.0055	0.015	0.020	ug/L	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.015	0.0074	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.015	0.0056	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.010	0.0035	0.010	0.020	ug/L	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.010	0.0033	0.010	0.020	ug/L	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.018	0.0075	0.018	0.020	ug/L	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS-RS-010 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT931 **Sample Date/Time:** 2017-12-07 12:15 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.015	0.0066	0.015	0.020	ug/L	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.015	0.0054	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.015	0.0055	0.015	0.020	ug/L	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.015	0.0074	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.015	0.0056	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.010	0.0035	0.010	0.020	ug/L	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.010	0.0033	0.010	0.020	ug/L	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.018	0.0075	0.018	0.020	ug/L	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS-RS-011 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT960 **Sample Date/Time:** 2017-12-08 12:45 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.015	0.0066	0.015	0.020	ug/L	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.015	0.0054	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.015	0.0055	0.015	0.020	ug/L	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.015	0.0074	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.015	0.0056	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.010	0.0035	0.010	0.020	ug/L	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.010	0.0033	0.010	0.020	ug/L	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.018	0.0075	0.018	0.020	ug/L	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS-RS-012 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT883 **Sample Date/Time:** 2017-12-10 10:50 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.015	0.0066	0.015	0.020	ug/L	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.015	0.0054	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.015	0.0055	0.015	0.020	ug/L	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.015	0.0074	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.015	0.0056	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.010	0.0035	0.010	0.020	ug/L	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.010	0.0033	0.010	0.020	ug/L	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.018	0.0075	0.018	0.020	ug/L	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS-RS-013 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT896 **Sample Date/Time:** 2017-12-11 10:05 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.015	0.0066	0.015	0.020	ug/L	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.015	0.0054	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.015	0.0055	0.015	0.020	ug/L	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.015	0.0074	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.015	0.0056	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.010	0.0035	0.010	0.020	ug/L	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.010	0.0033	0.010	0.020	ug/L	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.018	0.0075	0.018	0.020	ug/L	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS-RS-014 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT910 **Sample Date/Time:** 2017-12-12 15:30 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.015	0.0066	0.015	0.020	ug/L	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.015	0.0054	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.015	0.0055	0.015	0.020	ug/L	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.015	0.0074	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.015	0.0056	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.010	0.0035	0.010	0.020	ug/L	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.010	0.0033	0.010	0.020	ug/L	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.018	0.0075	0.018	0.020	ug/L	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS-RS-015 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT986 **Sample Date/Time:** 2017-12-13 16:56 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.015	0.0066	0.015	0.020	ug/L	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.015	0.0054	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.015	0.0055	0.015	0.020	ug/L	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.015	0.0074	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.015	0.0056	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.010	0.0035	0.010	0.020	ug/L	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.010	0.0033	0.010	0.020	ug/L	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.018	0.0075	0.018	0.020	ug/L	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS-RS-016 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT913 **Sample Date/Time:** 2017-12-14 11:05 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.015	0.0066	0.015	0.020	ug/L	U	UJ	02A
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.015	0.0054	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.015	0.0055	0.015	0.020	ug/L	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.015	0.0074	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.015	0.0056	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.010	0.0035	0.010	0.020	ug/L	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.010	0.0033	0.010	0.020	ug/L	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.018	0.0075	0.018	0.020	ug/L	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS-SB-001 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT929 **Sample Date/Time:** 2017-12-07 09:37 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.015	0.0066	0.015	0.020	ug/L	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.015	0.0054	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	0.013	0.0055	0.015	0.020	ug/L	J	J	
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.015	0.0074	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.015	0.0056	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	0.0083	0.0035	0.010	0.020	ug/L	J	J	
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	0.0050	0.0034	0.010	0.020	ug/L	J	J	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.010	0.0033	0.010	0.020	ug/L	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.018	0.0075	0.018	0.020	ug/L	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS-SB-002 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FTT949 **Sample Date/Time:** 2017-12-07 13:55 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.015	0.0066	0.015	0.020	ug/L	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.015	0.0054	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.015	0.0055	0.015	0.020	ug/L	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.015	0.0074	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.015	0.0056	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.010	0.0035	0.010	0.020	ug/L	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.010	0.0033	0.010	0.020	ug/L	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.018	0.0075	0.018	0.020	ug/L	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Validated Sample Result Forms: B7S5409

Analysis Method: EPA 537 m

Sample Name DOBNS01-D2-W7-GW-023 **Matrix Type:** **Result Type:** TRG

Lab Sample Name: FTW409 **Sample Date/Time:** 2017-12-15 13:28 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.042	0.013	0.030	0.040	ug/L			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.030	0.013	0.030	0.040	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.31	0.011	0.030	0.040	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.22	0.011	0.030	0.040	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.030	0.012	0.030	0.040	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.030	0.012	0.030	0.040	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.020	0.010	0.020	0.040	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.60	0.015	0.030	0.040	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	10	0.11	0.30	0.40	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	3.6	0.070	0.20	0.40	ug/L			
PERFLUORONONANOIC ACID	375-95-1	0.053	0.017	0.036	0.040	ug/L			
PERFLUOROOCTANE SULFONAMIDE	754-91-6	0.075	0.0068	0.020	0.040	ug/L			
PERFLUOROOCTANE SULFONATE	1763-23-1	5.3	0.12	0.30	0.40	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	10	0.066	0.20	0.40	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	0.63	0.015	0.036	0.040	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.020	0.0054	0.020	0.040	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.020	0.0076	0.020	0.040	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.020	0.0050	0.020	0.040	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS02-D3-W25-GW-020 **Matrix Type:** **Result Type:** TRG

Lab Sample Name: FTW407 **Sample Date/Time:** 2017-12-15 09:44 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.26	0.0066	0.015	0.020	ug/L			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	0.031	0.0066	0.015	0.020	ug/L			
PERFLUOROBUTANE SULFONATE	29420-43-3	0.072	0.0054	0.015	0.020	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.21	0.0055	0.015	0.020	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	0.54	0.0074	0.015	0.020	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	1.5	0.056	0.15	0.20	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	0.89	0.0035	0.010	0.020	ug/L			
PERFLUORONONANOIC ACID	375-95-1	0.024	0.0087	0.018	0.020	ug/L			
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.86	0.0060	0.015	0.020	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	0.35	0.0033	0.010	0.020	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	0.84	0.0075	0.018	0.020	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.013	0.0027	0.013	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.013	0.0038	0.013	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS02-D3-W32-GW-012 **Matrix Type:** **Result Type:** TRG

Lab Sample Name: FTW408 **Sample Date/Time:** 2017-12-15 11:18 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	5.1	0.13	0.30	0.40	ug/L			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	0.035	0.013	0.030	0.040	ug/L	J	J	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.70	0.011	0.030	0.040	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	0.84	0.011	0.030	0.040	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.030	0.012	0.030	0.040	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.030	0.012	0.030	0.040	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.020	0.010	0.020	0.040	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	1.1	0.015	0.030	0.040	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	6.5	0.11	0.30	0.40	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	3.9	0.070	0.20	0.40	ug/L			
PERFLUORONONANOIC ACID	375-95-1	0.12	0.017	0.036	0.040	ug/L			
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.020	0.0068	0.020	0.040	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	3.6	0.12	0.30	0.40	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	1.9	0.0066	0.020	0.040	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	3.0	0.15	0.36	0.40	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.020	0.0054	0.020	0.040	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.020	0.0076	0.020	0.040	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.020	0.0050	0.020	0.040	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS02-D3-W3-GW-035 **Matrix Type:** **Result Type:** TRG

Lab Sample Name: FTW406 **Sample Date/Time:** 2017-12-15 08:58 **Validation Level:** Stage 4

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	91	0.66	1.5	2.0	ug/L			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	0.089	0.066	0.15	0.20	ug/L	J	J	
PERFLUOROBUTANE SULFONATE	29420-43-3	1.5	0.054	0.15	0.20	ug/L			
PERFLUOROBUTANOIC ACID	375-22-4	3.1	0.055	0.15	0.20	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.15	0.060	0.15	0.20	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.15	0.061	0.15	0.20	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.10	0.050	0.10	0.20	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	5.4	0.074	0.15	0.20	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	46	0.56	1.5	2.0	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	18	0.35	1.0	2.0	ug/L			
PERFLUORONONANOIC ACID	375-95-1	0.20	0.087	0.18	0.20	ug/L			
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.10	0.034	0.10	0.20	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	34	0.60	1.5	2.0	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	18	0.33	1.0	2.0	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	11	0.75	1.8	2.0	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.10	0.027	0.10	0.20	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.10	0.038	0.10	0.20	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.10	0.025	0.10	0.20	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS-RS-017 **Matrix Type:** **Result Type:** TRG

Lab Sample Name: FTW405 **Sample Date/Time:** 2017-12-15 08:26 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.015	0.0066	0.015	0.020	ug/L	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.015	0.0054	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.015	0.0055	0.015	0.020	ug/L	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.015	0.0074	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.015	0.0056	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.010	0.0035	0.010	0.020	ug/L	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.014	0.0060	0.015	0.020	ug/L	J	J	
PERFLUOROOCTANOIC ACID	335-67-1	0.0067	0.0033	0.010	0.020	ug/L	J	J	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.018	0.0075	0.018	0.020	ug/L	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	

Validated Sample Result Forms: B808850

Analysis Method: EPA 537 m

Sample Name DOBNS01-D2-W23-GW-014 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FXE170 **Sample Date/Time:** 2018-01-10 09:44 **Validation Level:** Stage 4

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	0.066	0.033	0.075	0.10	ug/L	J	J	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.075	0.033	0.075	0.10	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	0.92	0.027	0.075	0.10	ug/L		J	05B
PERFLUOROBUTANOIC ACID	375-22-4	1.4	0.028	0.075	0.10	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.075	0.030	0.075	0.10	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.075	0.031	0.075	0.10	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.050	0.025	0.050	0.10	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	1.0	0.037	0.075	0.10	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	6.0	0.28	0.75	1.0	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	9.2	0.18	0.050	1.0	ug/L			
PERFLUORONONANOIC ACID	375-95-1	<0.090	0.044	0.090	0.10	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.050	0.017	0.050	0.10	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	0.19	0.030	0.075	0.10	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	12	0.17	0.50	1.0	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	2.8	0.038	0.090	0.10	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.050	0.014	0.050	0.10	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.050	0.019	0.050	0.10	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.050	0.013	0.050	0.10	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS14-OT004-MW04-GW-018 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FXE171 **Sample Date/Time:** 2018-01-10 13:45 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	28	0.33	0.75	1.0	ug/L			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	0.18	0.033	0.075	0.10	ug/L			
PERFLUOROBUTANE SULFONATE	29420-43-3	1.1	0.027	0.075	0.10	ug/L		J	05B
PERFLUOROBUTANOIC ACID	375-22-4	1.5	0.028	0.075	0.10	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.075	0.030	0.075	0.10	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.075	0.031	0.075	0.10	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.050	0.025	0.050	0.10	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	3.1	0.037	0.075	0.10	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	18	0.28	0.75	1.0	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	9.1	0.18	0.50	1.0	ug/L			
PERFLUORONONANOIC ACID	375-95-1	0.48	0.044	0.090	0.10	ug/L			
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.050	0.017	0.050	0.10	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	26	0.30	0.75	1.0	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	5.6	0.17	0.50	1.0	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	5.4	0.38	0.90	1.0	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.050	0.014	0.050	0.10	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.050	0.019	0.050	0.10	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.050	0.013	0.050	0.10	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS14-OT004-MW04-GW-918 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FXE172 **Sample Date/Time:** 2018-01-10 13:45 **Validation Level:** Stage 2B

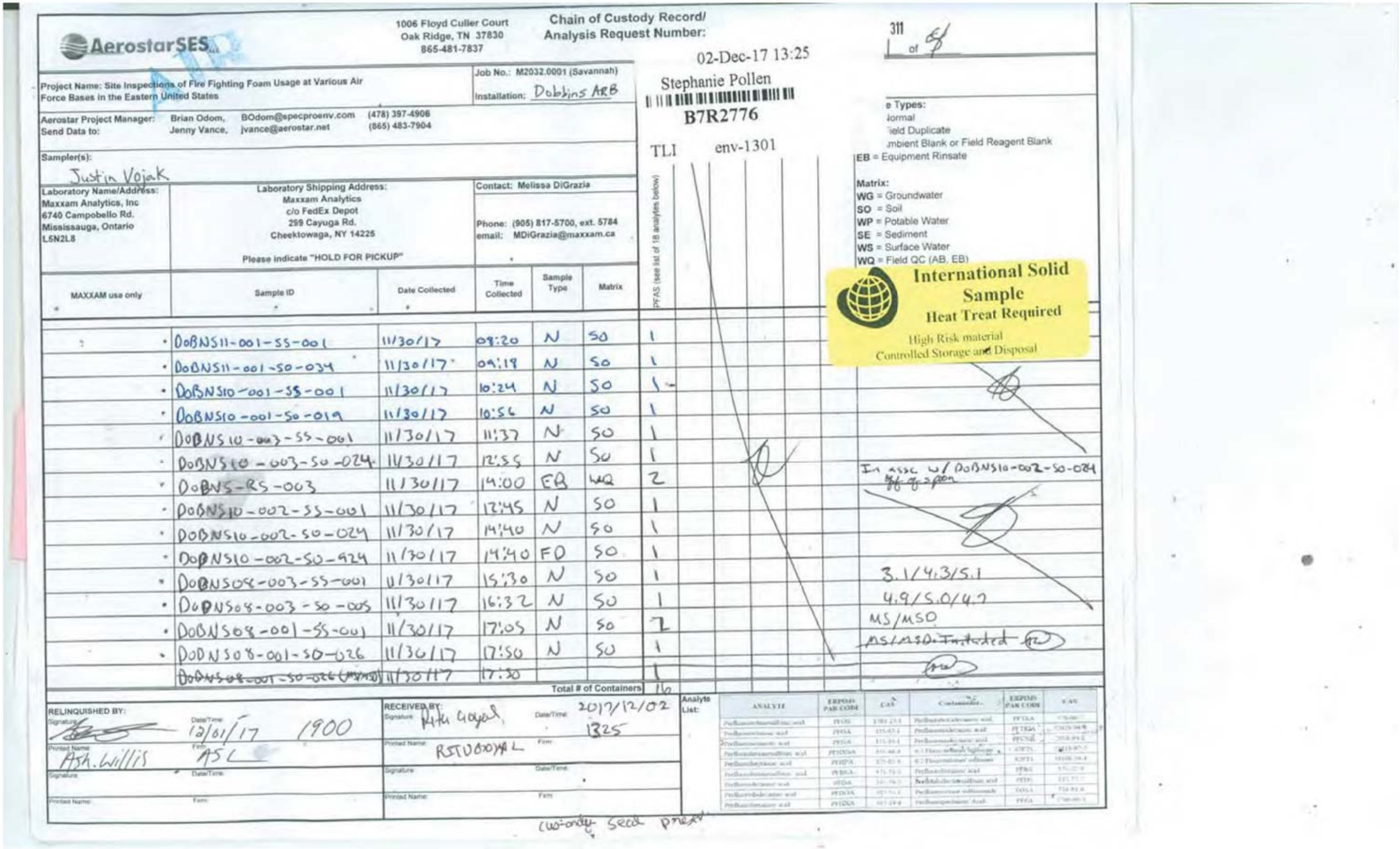
Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	31	0.33	0.75	1.0	ug/L			
8:2 FLUOROTELOMER SULFONATE	39108-34-4	0.15	0.033	0.075	0.10	ug/L			
PERFLUOROBUTANE SULFONATE	29420-43-3	1.0	0.027	0.075	0.10	ug/L		J	05B
PERFLUOROBUTANOIC ACID	375-22-4	1.5	0.028	0.075	0.10	ug/L			
PERFLUORODECANE SULFONATE	335-77-3	<0.075	0.030	0.075	0.10	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.075	0.031	0.075	0.10	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.050	0.025	0.050	0.10	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	3.0	0.037	0.075	0.10	ug/L			
PERFLUOROHEXANE SULFONATE	108427-53-8	18	0.28	0.75	1.0	ug/L			
PERFLUOROHEXANOIC ACID	307-24-4	8.7	0.18	0.50	1.0	ug/L			
PERFLUORONONANOIC ACID	375-95-1	0.39	0.044	0.090	0.10	ug/L			
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.050	0.017	0.050	0.10	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	28	0.30	0.75	1.0	ug/L			
PERFLUOROOCTANOIC ACID	335-67-1	5.8	0.17	0.50	1.0	ug/L			
PERFLUOROPENTANOIC ACID	2706-90-3	5.9	0.38	0.90	1.0	ug/L			
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.050	0.014	0.050	0.10	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.050	0.019	0.050	0.10	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.050	0.013	0.050	0.10	ug/L	U	U	

Analysis Method: EPA 537 m

Sample Name DOBNS-RS-A01 **Matrix Type:** W **Result Type:** TRG

Lab Sample Name: FXE169 **Sample Date/Time:** 2018-01-10 08:55 **Validation Level:** Stage 2B

Analyte	CAS No	Result Value	DL	LOD	LOQ	Result Units	Lab Qualifier	Validation Qualifier	Validation Reason Code
6:2 FLUOROTELOMER SULFONATE	27619-97-2	<0.015	0.0066	0.015	0.020	ug/L	U	U	
8:2 FLUOROTELOMER SULFONATE	39108-34-4	<0.015	0.0066	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANE SULFONATE	29420-43-3	<0.015	0.0054	0.015	0.020	ug/L	U	U	
PERFLUOROBUTANOIC ACID	375-22-4	<0.015	0.0055	0.015	0.020	ug/L	U	U	
PERFLUORODECANE SULFONATE	335-77-3	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUORODECANOIC ACID	335-76-2	<0.015	0.0061	0.015	0.020	ug/L	U	U	
PERFLUORODODECANOIC ACID	307-55-1	<0.010	0.0050	0.010	0.020	ug/L	U	U	
PERFLUOROHEPTANOIC ACID	375-85-9	<0.015	0.0074	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANE SULFONATE	108427-53-8	<0.015	0.0056	0.015	0.020	ug/L	U	U	
PERFLUOROHEXANOIC ACID	307-24-4	<0.010	0.0035	0.010	0.020	ug/L	U	U	
PERFLUORONONANOIC ACID	375-95-1	<0.018	0.0087	0.018	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONAMIDE	754-91-6	<0.010	0.0034	0.010	0.020	ug/L	U	U	
PERFLUOROOCTANE SULFONATE	1763-23-1	<0.015	0.0060	0.015	0.020	ug/L	U	U	
PERFLUOROOCTANOIC ACID	335-67-1	<0.010	0.0033	0.010	0.020	ug/L	U	U	
PERFLUOROPENTANOIC ACID	2706-90-3	<0.018	0.0075	0.018	0.020	ug/L	U	U	
PERFLUOROTETRADECANOIC ACID	376-06-7	<0.010	0.0027	0.010	0.020	ug/L	U	U	
PERFLUOROTRIDECANOIC ACID	72629-94-8	<0.010	0.0038	0.010	0.020	ug/L	U	U	
PERFLUOROUNDECANOIC ACID	2058-94-8	<0.010	0.0025	0.010	0.020	ug/L	U	U	



AerostarSES

1006 Floyd Culler Court
Oak Ridge, TN 37830
865-481-7837

Chain of Custody Record/ Analysis Request Number:

311
1 of 4

02-Dec-17 13:25
Stephanie Pollen
B7R2776
TLI env-1301

Project Name: Site Inspections of Fire Fighting Foam Usage at Various Air Force Bases in the Eastern United States

Job No.: M2032.0001 (Savannah)
Installation: Dobbins ARB

Aerostar Project Manager: Brian Odom, BOdom@specproenv.com (478) 397-4906
Send Data to: Jenny Vance, jvance@aerostar.net (865) 483-7904

Sampler(s): Justin Vojak

Laboratory Name/Address:
Maxxam Analytics, Inc
6740 Campobello Rd.
Mississauga, Ontario
L5N2L8

Laboratory Shipping Address:
Maxxam Analytics
c/o FedEx Depot
259 Cayuga Rd.
Cheektowaga, NY 14225

Please indicate "HOLD FOR PICKUP"

Contact: Melissa DiGrazia
Phone: (905) 817-5700, ext. 5784
email: MDiGrazia@maxxam.ca

e Types:
lormal
ield Duplicate
mbient Blank or Field Reagent Blank
EB = Equipment Rinsate

Matrix:
WG = Groundwater
SO = Soil
WP = Potable Water
SE = Sediment
WS = Surface Water
WQ = Field QC (AB, EB)

International Solid Sample
Heat Treat Required
High Risk material
Controlled Storage and Disposal

MAXXAM use only	Sample ID	Date Collected	Time Collected	Sample Type	Matrix	PFAS (see list of 18 analytes below)	
	DOBNS11-001-SS-001	11/30/17	08:20	N	SO	1	
	DOBNS11-001-SO-034	11/30/17	09:18	N	SO	1	
	DOBNS10-001-SS-001	11/30/17	10:24	N	SO	1	
	DOBNS10-001-SO-019	11/30/17	10:56	N	SO	1	
	DOBNS10-003-SS-001	11/30/17	11:37	N	SO	1	
	DOBNS10-003-SO-024	11/30/17	12:55	N	SO	1	
	DOBNS-RS-003	11/30/17	14:00	EB	WQ	2	In assc w/ DOBNS10-002-SO-024 ~~[illegible]~~
	DOBNS10-002-SS-001	11/30/17	12:45	N	SO	1	
	DOBNS10-002-SO-024	11/30/17	14:40	N	SO	1	
	DOBNS10-002-SO-924	11/30/17	14:40	FD	SO	1	
	DOBNS08-003-SS-001	11/30/17	15:30	N	SO	1	3.1/4.3/5.1
	DOBNS08-003-SO-005	11/30/17	16:32	N	SO	1	4.9/5.0/4.7
	DOBNS08-001-SS-001	11/30/17	17:05	N	SO	2	MS/MSD
	DOBNS08-001-SO-026	11/30/17	17:50	N	SO	1	~~MS/MSD Initiated~~
	~~DOBNS08-001-SO-026 (MS/MSD)~~	11/30/17	17:30			1	
					Total # of Containers	16	

RELINQUISHED BY:
Signature:
Date/Time: 12/01/17 1900
Printed Name: Ash. Willis
Firm: ASL
Signature:
Date/Time:
Printed Name:
Firm:

RECEIVED BY:
Signature: Ritu Goyal
Date/Time: 2017/12/02 1325
Printed Name: RITU GOYAL
Firm:
Signature:
Date/Time:
Printed Name:
Firm:

Analyte List:

ANALYTE	ERPIMS PAR CODE	CAS	Contaminant	ERPIMS PAR CODE	CAS
[illegible]	PFOS	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	PFOA	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Cu-ody Seal prest

AerostarSES

1006 Floyd Culler Court
Oak Ridge, TN 37830
865-481-7837

Chain of Custody Record/ Analysis Request Number: 448

Page 2 of 4

Project Name: Site Inspections of Fire Fighting Foam Usage at Various Air Force Bases in the Eastern United States

Job No.: M2032.0001 (Savannah)

Installation: Dobbins ARB

Aerostar Project Manager: Brian Odom, BOdom@specproenv.com (478) 397-4906

Send Data to: Jenny Vance, jvance@aerostar.net (865) 483-7904

Sampler(s): Justin Vojak

Laboratory Name/Address:
Maxxam Analytics, Inc
6740 Campobello Rd.
Mississauga, Ontario
L5N2L8

Laboratory Shipping Address:
Maxxam Analytics
c/o FedEx Depot
299 Cayuga Rd.
Cheektowaga, NY 14225

Please indicate "HOLD FOR PICKUP"

Contact: Melissa DiGrazia

Phone: (905) 817-5700, ext. 5784
email: MDiGrazia@maxxam.ca

Sample Types:
N = Normal
FD = Field Duplicate
AB = Ambient Blank or Field Reagent Blank
EB = Equipment Rinsate

Matrix:
WG = Groundwater
SO = Soil
WP = Potable Water
SE = Sediment
WS = Surface Water
WQ = Field QC (AB, EB)

ANALYSIS

MAXXAM use only	Sample ID	Date Collected	Time Collected	Sample Type	Matrix	PFAS (see list of 18 analytes below)	NOTES
	DOBNS08-002-SS-001	12/1/17	09:28	N	SO	1	
	DOBNS08-002-SO-010	12/1/17	10:12	N	SO	2	MS/MSD Included
	DOBNS08-004-SS-001	12/1/17	11:27	N	SO	1	
	DOBNS08-004-SO-014	12/1/17	12:26	N	SO	1	
	DOBNS08-005-SS-001	12/1/17	12:55	N	SO	1	
	DOBNS08-005-SO-011	12/1/17	14:20	N	SO	1	
	DOBNS-RS-004	12/01/17	11:40	EB	WQ	2	Associate w/ DOBNS08-004-SO-014 off of spoon
	DOBNS08-006-SS-001	12/1/17	1450 ~~12:55~~ (A)	N	SO	1	
	DOBNS08-006-SO-014	12/1/17	15:40	N	SO	1	

3.1/4.3/5.1
4.9|5.0/4.7

Total # of Containers: 11

RELINQUISHED BY:
Signature:
Date/Time: 12/01/17 1900
Printed Name: Ash Willis
Firm: ASL
Signature:
Date/Time:
Printed Name:
Firm:

RECEIVED BY:
Signature: Ritu Goyal
Date/Time: 2017/12/02 1325
Printed Name: RITU GOYAL
Firm:
Signature:
Date/Time:
Printed Name:
Firm:

Analyte List:

ANALYTE	ERPIMS PAR CODE	CAS	Contaminant	ERPIMS PAR CODE	CAS
[illegible]	PFOS	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	PFOA	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	PFNA	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	6:2 Fluorotelomer sulfonate	6:2FTS	[illegible]
[illegible]	[illegible]	[illegible]	8:2 Fluorotelomer sulfonate	8:2FTS	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	PFBA	[illegible]
[illegible]	PFDA	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	PFDOA	[illegible]	[illegible]	FOSA	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

custody seal present

AerostarSES

1006 Floyd Culler Court
Oak Ridge, TN 37830
865-481-7837

Chain of Custody Record/ Analysis Request Number:

Page 3 of ~~7~~ 4 456

Project Name: Site Inspections of Fire Fighting Foam Usage at Various Air Force Bases in the Eastern United States

Job No.: M2032.0001 (Savannah)

Installation: Dobbins ARB

Aerostar Project Manager: Brian Odom, BOdom@specproenv.com (478) 397-4906
Send Data to: Jenny Vance, jvance@aerostar.net (865) 483-7904

Sampler(s): A. Willis / J. Mcglew

Laboratory Name/Address:
Maxxam Analytics, Inc
6740 Campobello Rd.
Mississauga, Ontario
L5N2L8

Laboratory Shipping Address:
Maxxam Analytics
c/o FedEx Depot
299 Cayuga Rd.
Cheektowaga, NY 14225

Please indicate "HOLD FOR PICKUP"

Contact: Melissa DiGrazia

Phone: (905) 817-5700, ext. 5784
email: MDiGrazia@maxxam.ca

Sample Types:
N = Normal
FD = Field Duplicate
AB = Ambient Blank or Field Reagent Blank
EB = Equipment Rinsate

Matrix:
WG = Groundwater
SO = Soil
WP = Potable Water
SE = Sediment
WS = Surface Water
WQ = Field QC (AB, EB)

MAXXAM use only	Sample ID	Date Collected	Time Collected	Sample Type	Matrix	PFAS (see list of 18 analytes below)	ANALYSIS					NOTES
	~~DOBNS-RS-001~~	~~11/28/17~~	~~1620~~	~~EB~~	~~WQ~~	2						Associate w/ DOBNS14-003-SD-001 off of Spoon
	~~DOBNS14-003-SD-001~~	~~11/28/17~~	~~1630~~	~~N~~	~~SE~~	~~2~~						MS/MSD
	~~DOBNS14-003-SW-001~~	~~11/28/17~~	~~1630~~	~~N~~	~~WS~~	~~2~~						
•	DOBNS01-004-SS-001	12/01/17	1100	N	SO	1						
•	DOBNS01-004-SS-901	12/01/17	1100	FD	SO	1						
•	DOBNS14-002-SW-001	~~12~~ 11/29/17	1515	N	WS	2						
•	DOBNS14-002-SW-901	11/29/17	1515	N	WS	2						
•	DOBNS14-002-SD-001	11/29/17	1515	N	SE	1						
•	DOBNS16-004-SD-001	11/29/17	1600	N	SE	1						
•	DOBNS16-004-SW-001	11/29/17	1600	N	WS	6						MS/MSD
•	DOBNS15-004-SW-001	11/24/17	1615	N	WS	2						
•	DOBNS15-004-SD-001	11/29/17	1615	N	SE	~~2~~ 1						
												3.1/4.3/5.1
												4.9/5.0/4.7
					Total # of Containers	17						

RELINQUISHED BY:
Signature:
Date/Time: 12/01/17 1900
Printed Name: Ash Willis
Firm: ASL

Signature:
Date/Time:
Printed Name:
Firm:

RECEIVED BY:
Signature: Ritu Goyal
Date/Time: 2017/12/02 1325
Printed Name: RITU GOYAL
Firm:

Signature:
Date/Time:
Printed Name:
Firm:

Custody Seal present

Analyte List:

ANALYTE	ERPIMS PAR CODE	CAS	Contaminant	ERPIMS PAR CODE	CAS
[illegible]	PFOS	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	PFOA	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	PFNA	[illegible]	[illegible]	PFUNA	[illegible]
[illegible]	[illegible]	[illegible]	6:2 Fluorotelomer sulfonate	[illegible]	[illegible]
[illegible]	PFHPA	[illegible]	8:2 Fluorotelomer sulfonate	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	PFBA	[illegible]
[illegible]	PFDA	[illegible]	[illegible]	PFDS	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

AerostarSES LLC

1006 Floyd Culler Court
Oak Ridge, TN 37830
865-481-7837

Chain of Custody Record/ Analysis Request Number:

/ 265

Page ~~4~~ 4 of ~~7~~ 4

Project Name: Site Inspections of Fire Fighting Foam Usage at Various Air Force Bases in the Eastern United States

Job No.: M2032.0001 (Savannah)

Installation: Dobbins ARB

Aerostar Project Manager: Brian Odom, BOdom@specproenv.com (478) 397-4906
Send Data to: Jenny Vance, jvance@aerostar.net (865) 483-7904

Sampler(s): Justin Vijek

Laboratory Name/Address:
Maxxam Analytics, Inc
6740 Campobello Rd.
Mississauga, Ontario
L5N2L8

Laboratory Shipping Address:
Maxxam Analytics
c/o FedEx Depot
299 Cayuga Rd.
Cheektowaga, NY 14225

Please indicate "HOLD FOR PICKUP"

Contact: Melissa DiGrazia

Phone: (905) 817-5700, ext. 5784
email: MDiGrazia@maxxam.ca

ANALYSIS

Sample Types:
N = Normal
FD = Field Duplicate
AB = Ambient Blank or Field Reagent Blank
EB = Equipment Rinsate

Matrix:
WG = Groundwater
SO = Soil
WP = Potable Water
SE = Sediment
WS = Surface Water
WQ = Field QC (AB, EB)

MAXXAM use only	Sample ID	Date Collected	Time Collected	Sample Type	Matrix	PFAS (see list of 18 analytes below)						NOTES
	DOBNS14-001-SS-001	11/28/17	12:20	N	SO	1						
	DOBNS14-001-SO-016	11/28/17	15:18	N	SO	1						
	DOBNS14-001-SO-916	11/28/17	15:18	FD	SO	1						
	DOBNS14-003-SW-001	11/28/17	16:30	~~WS~~ N JV 11/28/17	WS	2						
	DOBNS14-003-SD-001	11/28/17	16:30	N	SE	2						MS/MSD Included
	DOBNS-RS-001	11/28/17	16:20	EB	WQ	2						In association w/ DOBNS14-003-SD-001 (ff of spoon)
	DOBNS13-005-SS-001	11/29/17	09:35	N	SO	1						
	DOBNS13-005-SO-051	11/29/17	10:45	N	SO	1						
	DOBNS-RS-002	11/29/17	09:48	EB	WQ	2						Assoc.co DOBNS13-005-SO-051 ff of spoon
	DOBNS13-005-GW-053	11/29/17	11:45	N	WG	2						
	DOBNS13-005-GW-953	11/29/17	11:45	FD	WG	2						
	DOBNS11-002-SS-001	11/29/17	14:45	N	SO	1						
	DOBNS11-002-SO-021	11/29/17	1512	N	SO	1						
	DOBNS11-003-SS-001	11/29/17	15:38	N	SO	1						3.1/4.3/5.1
	DOBNS11-003-SO-017	11/29/17	1600	N	SO	1						4.9/5.0/4.7
					Total # of Containers	21						

RELINQUISHED BY:
Signature:
Date/Time: 12/01/17 1110
Printed Name: Ash Willis
Firm: ASC
Signature:
Date/Time:
Printed Name:
Firm:

RECEIVED BY:
Signature: Ritu Goyal
Date/Time: 2017/12/02 1325
Printed Name: RITU GOYAL
Firm:
Signature:
Date/Time:
Printed Name:
Firm:

custody seal present

Analyte List:

ANALYTE	ERPIMS PAR CODE	CAS	Contaminant	ERPIMS PAR CODE	CAS
[illegible]	PFOS	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	PFOA	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	PFNA	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	PFHPA	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	PFBSA	[illegible]	[illegible]	PFBA	[illegible]
[illegible]	PFDA	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	PFDOA	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

AerostarSES LLC

1006 Floyd Culler Court
Oak Ridge, TN 37830
865-481-7837

Chain of Custody Record/ Analysis Request Number: 449

Page 1 of 5

Project Name: Site Inspections of Fire Fighting Foam Usage at Various Air Force Bases in the Eastern United States

Job No.: M2032.0001 (Savannah)

Installation: Dobbins ARB

Aerostar Project Manager: Brian Odom, BOdom@specproenv.com (478) 397-4906
Send Data to: Jenny Vance, jvance@aerostar.net (865) 483-7904

Sampler(s): J. Vijak

Laboratory Name/Address:
Maxxam Analytics, Inc
6740 Campobello Rd.
Mississauga, Ontario
L5N2L8

Laboratory Shipping Address:
Maxxam Analytics
c/o FedEx Depot
299 Cayuga Rd.
Cheektowaga, NY 14225

Please indicate "HOLD FOR PICKUP"

Contact: Melissa DiGrazia

Phone: (905) 817-5700, ext. 5784
email: MDiGrazia@maxxam.ca

06-Dec-17 14:51
Stephanie Pollen
B7R6297
TLI ENV-1103

Sample Types:
N = Normal
FD = Field Duplicate
AB = Ambient Blank or Field Reagent Blank
EB = Equipment Rinsate

Matrix:
WG = Groundwater
SO = Soil
WP = Potable Water
SE = Sediment
WS = Surface Water
WQ = Field QC (AB, EB)

MAXXAM use only	Sample ID	Date Collected	Time Collected	Sample Type	Matrix	PFAS (see list of 18 analytes below)	NOTES
	DOBNS01-001-SS-001	12/02/17	07:45	N	SO	2	MS/MSD Included
	DOBNS-RS-005	12/02/17	08:00	EB	WQ	2	Taken off of spoon In assc w/ DOBNS01-001-SO-024
	DOBNS01-001-SO-024	12/02/17	08:18	N	SO	1	
	DOBNS01-003-SS-001	12/02/17	08:30	N	SO	1	
	DOBNS01-003-SO-024	12/02/17	08:35	N	SO	1	
	DOBNS01-002-SS-001	12/02/17	09:12	N	SO	1	
	DOBNS01-002-SS-901	12/02/17	09:12	N	SO	1	
	DOBNS01-002-SO-029	12/02/17	09:40	N	SO	1	
	DOBNS13-004-SS-001	12/02/17	10:40	N	SO	1	
	DOBNS13-004-SO-051	12/02/17	11:30	N	SO	2	MS/MSD Included.
	DOBNS07-005-SS-001	12/02/17	13:30	N	SO	1	
	DOBNS07-005-SO-024	12/02/17	13:45	N	SO	1	
	DOBNS07-006-SS-001	12/02/17	14:27	N	SO	1	
	DOBNS07-006-SO-020	12/02/17	14:40	N	SO	1	
	DOBNS07-006-GW-025	12/02/17	15:00	N	WG	2	Custody Seal present
					Total # of Containers	19	

International Solid Sample
Heat Treat Required
High Risk material
Controlled Storage and Disposal

RELINQUISHED BY:
Signature:
Date/Time: 12/5/17 1900
Printed Name: Ash Willis
Firm: ASL
Signature:
Date/Time:
Printed Name:
Firm:

RECEIVED BY:
Signature:
Date/Time: 2017/12/06 14:51
Printed Name: PARAMJEET SINGH
Firm: 5.0/3.8/4.8 4.2/2.3/5.5
Signature:
Date/Time:
Printed Name:
Firm:

Analyte List:

ANALYTE	ERPIMS PAR CODE	CAS	Contaminant	ERPIMS PAR CODE	CAS
[illegible]	PFOS	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	PFOA	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	PFNA	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	PFHPA	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	PFBA	[illegible]
[illegible]	PFDA	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	FOSA	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

AerostarSES LLC

1006 Floyd Culler Court
Oak Ridge, TN 37830
865-481-7837

Chain of Custody Record/ Analysis Request Number:

450

Page 2 of 5

Project Name: Site Inspections of Fire Fighting Foam Usage at Various Air Force Bases in the Eastern United States

Job No.: M2032.0001 (Savannah)

Installation: Dobbins ARB

Aerostar Project Manager: Brian Odom, BOdom@specproenv.com (478) 397-4906
Send Data to: Jenny Vance, jvance@aerostar.net (865) 483-7904

Sampler(s): J. Ujak

Laboratory Name/Address:
Maxxam Analytics, Inc
6740 Campobello Rd.
Mississauga, Ontario
L5N2L8

Laboratory Shipping Address:
Maxxam Analytics
c/o FedEx Depot
299 Cayuga Rd.
Cheektowaga, NY 14225
Please Indicate "HOLD FOR PICKUP"

Contact: Melissa DiGrazia
Phone: (905) 817-5700, ext. 5784
email: MDiGrazia@maxxam.ca

ANALYSIS

Sample Types:
N = Normal
FD = Field Duplicate
AB = Ambient Blank or Field Reagent Blank
EB = Equipment Rinsate

Matrix:
WG = Groundwater
SO = Soil
WP = Potable Water
SE = Sediment
WS = Surface Water
WQ = Field QC (AB, EB)

MAXXAM use only	Sample ID	Date Collected	Time Collected	Sample Type	Matrix	PFAS (see list of 18 analytes below)						NOTES
•	DOBNS07-007-SS-001	12/02/17	13:50	N	SO	1						
•	DOBNS07-007-SO-019	12/02/17	17:07	N	SO	1						
•	DOBNS07-007-GW-029	12/03/17	08:50	N	WG	2						
•	DOBNS07-008-SS-001	12/03/17	09:15	N	SO	1						
•	DOBNS07-008-SO-025	12/03/17	09:35	N	SO	1						
•	DOBNS07-008-SO-925	12/03/17	09:35	FD	SO	1						
•	DOBNS07-004-SS-001	12/03/17	10:10	N	SO	1						
•	~~DOBNS07-004-SO-010~~ JU/12/03/17	~~12/03/17~~	~~10:15~~	~~N~~	~~SO~~	~~1~~						
•	DOBNS07-001-SS-001	12/03/17	11:12	N	SO	1						
•	DOBNS07-001-SS-901	12/03/17	11:12	FD	SO	1						
•	DOBNS07-001-SO-015	12/03/17	11:20	N	SO	1						
•	DOBNS07-002-SS-001	12/03/17	12:22	N	SO	1						
•	DOBNS07-002-SO-018	12/03/17	12:55	N	SO	1						
•	DOBNS07-002-GW-029	12/03/17	12:45	N	WG	2						
•	DOBNS-RS-006	12/03/17	12:30	EB	WQ	2						off check valve, in assc. w/ DOBNS07-002-GW-029
					Total # of Containers	17						

RELINQUISHED BY:
Signature:
Date/Time: 12/5/17 1900
Printed Name: Ash Willis
Firm: ASL
Signature:
Date/Time:
Printed Name:
Firm:

RECEIVED BY:
Signature: Paramjeet
Date/Time: 2017/12/06 14:51
Printed Name: PARAMJEET SINGH
Firm: 5.0/3.7/4.8 4.2/3.3/5.5
Signature:
Date/Time:
Printed Name:
Firm:

Analyte List:

ANALYTE	ERPIMS PAR CODE	CAS	Contaminant	ERPIMS PAR CODE	CAS
[illegible]	PFOS	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	PFOA	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	PFNA	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	PFHPA	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	PFDA	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Custody seal present.

AerostarSES LLC

1006 Floyd Culler Court
Oak Ridge, TN 37830
865-481-7837

Chain of Custody Record/ Analysis Request Number: 451

Page 3 of 5

Project Name: Site Inspections of Fire Fighting Foam Usage at Various Air Force Bases in the Eastern United States

Job No.: M2032.0001 (Savannah)

Installation: Dobbins ARB

Aerostar Project Manager: Brian Odom, BOdom@specproenv.com (478) 397-4906
Send Data to: Jenny Vance, jvance@aerostar.net (865) 483-7904

Sampler(s): J. Vojak

Laboratory Name/Address:
Maxxam Analytics, Inc
6740 Campobello Rd.
Mississauga, Ontario
L5N2L8

Laboratory Shipping Address:
Maxxam Analytics
c/o FedEx Depot
299 Cayuga Rd.
Cheektowaga, NY 14225

Please indicate "HOLD FOR PICKUP"

Contact: Melissa DiGrazia

Phone: (905) 817-5700, ext. 5784
email: MDiGrazia@maxxam.ca

ANALYSIS

Sample Types:
N = Normal
FD = Field Duplicate
AB = Ambient Blank or Field Reagent Blank
EB = Equipment Rinsate

Matrix:
WG = Groundwater
SO = Soil
WP = Potable Water
SE = Sediment
WS = Surface Water
WQ = Field QC (AB, EB)

MAXXAM use only	Sample ID	Date Collected	Time Collected	Sample Type	Matrix	PFAS (see list of 18 analytes below)						NOTES
•	DOBNS07-003-SS-001	12/03/17	13:45	AB	SO	1						
•	DOBNS07-003-SO-020	12/03/17	13:50	N	SO	1						
•	DOBNS07-003-GW-024	12/03/17	13:58	N	SO	2						
•	DOBNS07-004-SO-020	12/03/17	14:30	N	SO	1						
•	DOBNS06-002-SS-001	12/04/17	08:35	N	SO	1						
•	DOBNS06-002-SO-030	12/04/17	09:00	N	SO	1						
•	DOANS06-003-SS-001	12/04/17	09:30	N	SO	1						
•	DOBNS06-003-SO-028	12/04/17	10:05	N	SO	1						
•	DOBNS10-002-GW-025	12/04/17	17:15	N	WG	2						
•	DOBNS06-001-SS-001	12/05/2017	0833	N	SO	1						
•	DOBNS06-001-SO-028	12/03/17	09:15	N	SO	1						
•	DOBNS-RS-007	12/4/17	17:10	EB	WQ	2						Through polyflow. In assc. w/ DOBNS06-001-GW-032
•	DOBNS06-001-GW-032	12/5/17	10:00	N	WG	2						
•	DOBNS06-001-GW-A32	12/5/17	10:00	N	WG	2						
•	DODNS05-001-SS-001	12/5/17	10:45	N	SO	1						Custody seal present
					Total # of Containers							

RELINQUISHED BY:
Signature:
Date/Time: 12/5/17 1900
Printed Name: Ash Willis
Firm: ASL
Signature:
Date/Time:
Printed Name:
Firm:

RECEIVED BY:
Signature: Parjeet
Date/Time: 2017/12/06 14:51
Printed Name: PARAMJEET SINGH
Firm: 5.0/3.8 14.3 4.2/3.3/55
Signature:
Date/Time:
Printed Name:
Firm:

Analyte List:

ANALYTE	ERPIMS PAR CODE	CAS	Contaminant	ERPIMS PAR CODE	CAS
[illegible]	PFOS	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	PFOA	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	PFNA	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	PFDA	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

AerostarSES LLC

1006 Floyd Culler Court
Oak Ridge, TN 37830
865-481-7837

Chain of Custody Record/ Analysis Request Number: 452

Page 4 of 5

Project Name: Site Inspections of Fire Fighting Foam Usage at Various Air Force Bases in the Eastern United States

Job No.: M2032.0001 (Savannah)

Installation: Dobbins ARB

Aerostar Project Manager: Brian Odom, BOdom@specproenv.com (478) 397-4906
Send Data to: Jenny Vance, jvance@aerostar.net (865) 483-7904

Sampler(s): J. Vojak

Laboratory Name/Address:
Maxxam Analytics, Inc
6740 Campobello Rd.
Mississauga, Ontario
L5N2L8

Laboratory Shipping Address:
Maxxam Analytics
c/o FedEx Depot
299 Cayuga Rd.
Cheektowaga, NY 14225

Please indicate "HOLD FOR PICKUP"

Contact: Melissa DiGrazia

Phone: (905) 817-5700, ext. 5784
email: MDiGrazia@maxxam.ca

Sample Types:
N = Normal
FD = Field Duplicate
AB = Ambient Blank or Field Reagent Blank
EB = Equipment Rinsate

Matrix:
WG = Groundwater
SO = Soil
WP = Potable Water
SE = Sediment
WS = Surface Water
WQ = Field QC (AB, EB)

MAXXAM use only	Sample ID	Date Collected	Time Collected	Sample Type	Matrix	PFAS (see list of 18 analytes below)	ANALYSIS					NOTES
•	DOBNS05-001-SO-029	12/5/17	11:33	N	SO	1						
•	DOBNS05-001-SO-928	12/5/17	11:33	FD	SO	1						
•	DOBNS-~~008~~ RS-004	12/5/17	12:02	EB	WQ	2						O+G spoon in assc. w/ DOBNS05-002-SS-001
•	DOBNS05-002-SS-001	12/5/17	12:10	N	SO	1						
•	DOBNS05-002-SO-033	12/5/17	13:22	N	SO	1						
•	DOBNS05-003-SS-001	12/5/17	13:40	N	SO	1						
•	DOBNS05-003-SO-028	12/5/17	14:47	N	SO	1						
	~~DOBNS02-001-SS-001~~	~~12/05/2017~~	~~1550~~	~~N~~	~~SO~~	~~1~~	12/5/17					
	~~DOBNS02-003-SS-001~~	~~12/05/2017~~	~~1620~~	~~N~~	~~SO~~	~~1~~	12/5/17					
												Custody Seal present

Total # of Containers: 8

RELINQUISHED BY:
Signature:
Date/Time: 12/5/17 1900
Printed Name: Ash Willis
Firm: ASL
Signature:
Date/Time:
Printed Name:
Firm:

RECEIVED BY:
Signature: Paramjeet
Date/Time: 2017/12/06 14:51
Printed Name: PARAMJEET SINGH
Firm: 5.0|3.3|4.8 4.2|3.3|5.5
Signature:
Date/Time:
Printed Name:
Firm:

Analyte List:

ANALYTE	ERPIMS PAR CODE	CAS	Contaminant	ERPIMS PAR CODE	CAS
[illegible]	PFOS	[illegible]	[illegible]	PFTA	[illegible]
[illegible]	PFOA	[illegible]	[illegible]	PFTRIA	[illegible]
[illegible]	PFNA	[illegible]	[illegible]	PFUNA	[illegible]
[illegible]	PFHXSA	[illegible]	[illegible]	6:2FTS	[illegible]
[illegible]	PFHPA	[illegible]	[illegible]	8:2FTS	[illegible]
[illegible]	PFBSA	[illegible]	[illegible]	PFBA	[illegible]
[illegible]	PFDA	[illegible]	[illegible]	PFDS	[illegible]
[illegible]	PFDOA	[illegible]	[illegible]	FOSA	[illegible]
[illegible]	PFHXA	[illegible]	[illegible]	PFPA	[illegible]

AerostarSES LLC

1006 Floyd Culler Court
Oak Ridge, TN 37830
865-481-7837

Chain of Custody Record/ Analysis Request Number:

Page 5 of 5 457

Project Name: Site Inspections of Fire Fighting Foam Usage at Various Air Force Bases in the Eastern United States

Job No.: M2032.0001 (Savannah)

Installation: DOBNS

Aerostar Project Manager: Brian Odom, BOdom@specproenv.com (478) 397-4906
Send Data to: Jenny Vance, jvance@aerostar.net (865) 483-7904

Sampler(s): A.Willis / J.Meshew

Laboratory Name/Address:
Maxxam Analytics, Inc
6740 Campobello Rd.
Mississauga, Ontario
L5N2L8

Laboratory Shipping Address:
Maxxam Analytics
c/o FedEx Depot
299 Cayuga Rd.
Cheektowaga, NY 14225

Please indicate "HOLD FOR PICKUP"

Contact: Melissa DiGrazia
Phone: (905) 817-5700, ext. 5784
email: MDiGrazia@maxxam.ca

ANALYSIS

Sample Types:
N = Normal
FD = Field Duplicate
AB = Ambient Blank or Field Reagent Blank
EB = Equipment Rinsate

Matrix:
WG = Groundwater
SO = Soil
WP = Potable Water
SE = Sediment
WS = Surface Water
WQ = Field QC (AB, EB)

MAXXAM use only	Sample ID	Date Collected	Time Collected	Sample Type	Matrix	PFAS (see list of 18 analytes below)	NOTES
	DOBNS07-005-GW-025	12/05/2017	1140	N	WG	2	
	DOBNS07-008-GW-029	12/05/2017	1204	N	WG	2	
	DOBNS07-004-GW-025	12/05/2017	1236	N	WG	2	
	DOBNS07-001-GW-020	12/05/2017	1300	N	WG	2	
							Custody Seal present

Total # of Containers 8

RELINQUISHED BY:
Signature:
Date/Time: 12/5/17 1900
Printed Name: Ash Willis
Firm: ASL
Signature:
Date/Time:
Printed Name:
Firm:

RECEIVED BY:
Signature: Paramjeet
Date/Time: 2017/12/06 14:51
Printed Name: PARAMJEET. SINGH
Firm: 5.0/3.8/4.8
Signature:
Date/Time: 4.2/3.3/5.5
Printed Name:
Firm:

Analyte List:

ANALYTE	ERPIMS PAR CODE	CAS	Constituent	ERPIMS PAR CODE	CAS
Perfluorooctanesulfonic acid	PFOS	1763-23-1	Perfluorotetradecanoic acid	PFTA	376-06-7
Perfluorooctanoic acid	PFOA	335-67-1	Perfluorotridecanoic acid	PFTRIA	72629-94-8
Perfluorononanoic acid	PFNA	375-95-1	Perfluoroundecanoic acid	PFUNA	2058-94-8
Perfluorohexanesulfonic acid	PFHXSA	355-46-4	6:2 Fluorotelomer sulfonate	62FTS	27619-97-2
Perfluoroheptanoic acid	PFHPA	375-85-9	8:2 Fluorotelomer sulfonate	82FTS	39108-34-4
Perfluorobutanesulfonic acid	PFBSA	375-73-5	Perfluorobutanoic acid	PFBA	375-22-4
Perfluorodecanoic acid	PFDA	335-76-2	Perfluorodecanesulfonic acid	PFDS	335-77-3
Perfluorododecanoic acid	PFDOA	307-55-1	Perfluorooctane sulfonamide	PFOSA	754-91-6
Perfluorohexanoic acid	PFHXA	307-24-4	Perfluoropentanoic Acid	PFPA	2706-90-3

AerostarSES LLC

1006 Floyd Culler Court
Oak Ridge, TN 37830
865-481-7837

Chain of Custody Record/ Analysis Request Number: 472

Page 1 of 10

Project Name: Site Inspections of Fire Fighting Foam Usage at Various Air Force Bases in the Eastern United States

AIR

Job No.: M2032.0001 (Savannah)

Installation: Dobbins ARB

Aerostar Project Manager: Brian Odom, BOdom@specproenv.com (478) 397-4906
Send Data to: Jenny Vance, jvance@aerostar.net (865) 483-7904

Sampler(s): J Vojak

Laboratory Name/Address:
Maxxam Analytics, Inc
6740 Campobello Rd.
Mississauga, Ontario
L5N2L8

Laboratory Shipping Address:
Maxxam Analytics
c/o FedEx Depot
299 Cayuga Rd.
Cheektowaga, NY 14225

Please indicate "HOLD FOR PICKUP"

Contact: Melissa DiGrazia

Phone: (905) 817-5700, ext. 5784
email: MDiGrazia@maxxam.ca

Sample Types:
N = Normal
FD = Field Duplicate
AB = Ambient Blank or Field Reagent Blank
EB = Equipment Rinsate

Matrix:
WG = Groundwater
SO = Soil
WP = Potable Water
SE = Sediment
WS = Surface Water
WQ = Field QC (AB, EB)

MAXXAM use only	Sample ID	Date Collected	Time Collected	Sample Type	Matrix	PFAS (see list of 18 analytes below)	ANALYSIS					NOTES
	DOBNS03-001-SS-001	12/10/2017	0945	N	SO	1						
	DOBNS-RS-012	12/10/2017	1050	EB	WQ	2						Spoon rinsate, following sample
	DOBNS03-001-SO-020	12/10/2017	1108	N	SO	1						
	DOBNS03-002-SS-001	12/10/2017	1140	N	SO	1						
	DOBNS03-002-SO-024	12/10/2017	1355	N	SO	1						
	DOBNS03-003-SS-001	12/10/2017	1445	N	SO	1						
	DOBNS03-003-SO-015	12/10/2017	1535	N	SO	1						
	DOBNS15-003-SS-001	12/10/2017	1613	N	SO	1						
	DOBNS15-003-SO-005	12/10/2017	1641	N	SO	1						
	DOBNS15-001-SS-001	12/10/2017	1650	N	SO	1						
	DOBNS15-001-SS-901	12/10/2017	1650	FD	SO	1						
	DOBNS15-001-SO-008	12/10/2017	1728	N	SO	1						
	DOBNS15-002-SS-001	12/11/2017	0820	N	SO	1						
	DOBNS15-002-SO-005	12/11/2017	0830	N	SO	1						(collected from HA)
					Total # of Containers	15						

15-Dec-17 14:34
Stephanie Pollen
B7S5172
MAF ENV-1324

International Solid Sample
Heat Treat Required
High Risk material
Controlled Storage and Disposal

RELINQUISHED BY:
Signature:
Date/Time: 12/14/17 2000
Printed Name: Ash Willis
Firm: ASL
Signature:
Date/Time:
Printed Name:
Firm:

RECEIVED BY:
Signature: Tardup
Date/Time: 2017/12/15 14:34
Printed Name: Tardeep K. Pusecal
Firm:
Signature:
Date/Time:
Printed Name:
Firm:

Analyte List:

ANALYTE	ERPIMS PAR CODE	CAS	Contaminant	ERPIMS PAR CODE	CAS
Perfluorooctanesulfonic acid	PFOS	1763-23-1	Perfluorotetradecanoic acid	PFTEA	376-06-7
Perfluorooctanoic acid	PFOA	335-67-1	Perfluorotridecanoic acid	PFTRIA	72629-94-8
Perfluorononanoic acid	PFNA	375-95-1	Perfluoroundecanoic acid	PFUNA	2058-94-8
Perfluorohexanesulfonic acid	PFHXSA	355-46-4	6:2 Fluorotelomer sulfonate	62FTS	27619-97-2
Perfluoroheptanoic acid	PFHPA	375-85-9	8:2 Fluorotelomer sulfonate	82FTS	39108-34-4
Perfluorobutanesulfonic acid	PFBSA	375-73-5	Perfluorobutanoic acid	PFBA	375-22-4
Perfluorodecanoic Acid	PFDA	335-76-2	Perfluorodecanesulfonic acid	PFDS	335-77-3
Perfluorododecanoic acid	PFDOA	307-55-1	Perfluorooctane sulfonamide	FOSA	754-91-6
Perfluorohexanoic acid	PFHXA	307-24-4	Perfluoropentanoic Acid	PFPA	2706-90-3

refer to ACTR custody seal present and intact

AerostarSES

AIR

1006 Floyd Culler Court
Oak Ridge, TN 37830
865-481-7837

Chain of Custody Record/ Analysis Request Number:

464

Page 2 of 10

B7S5174

Project Name: Site Inspections of Fire Fighting Foam Usage at Various Air Force Bases in the Eastern United States

Job No.: M2032.0001 (Savannah)

Installation: Dobbin ARB

Aerostar Project Manager: Brian Odom, BOdom@specproenv.com (478) 397-4906
Send Data to: Jenny Vance, jvance@aerostar.net (865) 483-7904

Sampler(s): J. Vijak

Laboratory Name/Address:
Maxxam Analytics, Inc
6740 Campobello Rd.
Mississauga, Ontario
L5N2L8

Laboratory Shipping Address:
Maxxam Analytics
c/o FedEx Depot
299 Cayuga Rd.
Cheektowaga, NY 14225

Please indicate "HOLD FOR PICKUP"

Contact: Melissa DiGrazia

Phone: (905) 817-5700, ext. 5784
email: MDiGrazia@maxxam.ca

Sample Types:
N = Normal
FD = Field Duplicate
AB = Ambient Blank or Field Reagent Blank
EB = Equipment Rinsate

Matrix:
WG = Groundwater
SO = Soil
WP = Potable Water
SE = Sediment
WS = Surface Water
WQ = Field QC (AB, EB)

MAXXAM use only	Sample ID	Date Collected	Time Collected	Sample Type	Matrix	PFAS (see list of 18 analytes below)	ANALYSIS					NOTES
	DOBNS-RS-013	12/11/17	1005	EB	WQ	2						Off spoon, In assc. w/ DOBNS09-001-SS-001
	DOBNS09-001-SS-001	12/11/17	1016	N	SO	1						
	DOBNS09-001-SO-009	12/11/17	1048	N	SO	1						
	DOBNS09-002-SS-001	12/11/17	1131	N	SO	1						
	DOBNS09-002-SS-901	12/11/17	1131	FD	SO	1						
	DOBNS09-002-SO-037	12/11/17	1315	N	SO	1						
	DOBNS09-003-SS-001	12/11/17	1400	N	SO	1						
	DOBNS09-003-SO-037	12/11/17	1522	N	SO	1						
	DOBNS03-004-SS-001	12/12/17	0830	N	SO	1						
	DOBNS03-004-SO-020	12/12/17	0930	N	SO	1						
	DOBNS13-003-SS-001	12/12/17	1026	N	SO	1						
	DOBNS13-003-SO-048	12/12/17	1227	N	SO	1						
	DOBNS13-002-SS-001	12/12/17	1300	N	SO	1						
	DOBNS13-002-SO-034	12/12/17	1507	N	SO	1						
	DOBNS-RS-014	12/12/17	1530	EB	WQ	2						Off spoon in assc w/ DOBNS13-001-SS-001
					Total # of Containers	17						

RELINQUISHED BY:
Signature:
Date/Time: 12/14/17 2000
Printed Name: A Willis
Firm: ASC
Signature:
Date/Time:
Printed Name:
Firm:

RECEIVED BY:
Signature: Pardeep
Date/Time: 2017/12/15 14:34
Printed Name: Pardeep K Rosewal
Firm:
Signature:
Date/Time:
Printed Name:
Firm:

Analyte List:

ANALYTE	ERPIMS PAR CODE	CAS	Contaminant	ERPIMS PAR CODE	CAS
Perfluorooctanesulfonic acid	PFOS	1763-23-1	Perfluorotetradecanoic acid	PFTEA	376-06-7
Perfluorooctanoic acid	PFOA	335-67-1	Perfluorotridecanoic acid	PFTRIA	72629-94-8
Perfluorononanoic acid	PFNA	375-95-1	Perfluoroundecanoic acid	PFUNA	2058-94-8
Perfluorohexanesulfonic acid	PFHXSA	355-46-4	6:2 Fluorotelomer sulfonate	62FTS	27619-97-2
Perfluoroheptanoic acid	PFHPA	375-85-9	8:2 Fluorotelomer sulfonate	82FTS	39108-34-4
Perfluorobutanesulfonic acid	PFBSA	375-73-5	Perfluorobutanoic acid	PFBA	375-22-4
Perfluorodecanoic acid	PFDA	335-76-2	Perfluorodecanesulfonic acid	PFDS	335-77-3
Perfluorododecanoic acid	PFDOA	307-55-1	Perfluorooctane sulfonamide	FOSA	754-91-6
Perfluorohexanoic acid	PFHXA	307-24-4	Perfluoropentanoic Acid	PFPA	2706-90-3

refer to ACFF

AerostarSES

1006 Floyd Culler Court
Oak Ridge, TN 37830
865-481-7837

Chain of Custody Record/ Analysis Request Number:

477

Page 3 of 10

B75 S17V4

Project Name: Site Inspections of Fire Fighting Foam Usage at Various Air Force Bases in the Eastern United States

Job No.: M2032.0001 (Savannah)

Installation: DOBBINS

Aerostar Project Manager: Brian Odom, BOdom@specproenv.com (478) 397-4906

Send Data to: Jenny Vance, jvance@aerostar.net (865) 483-7904

Sampler(s): Franklin Johnson

Laboratory Name/Address:
Maxxam Analytics, Inc
6740 Campobello Rd.
Mississauga, Ontario
L5N2L8

Laboratory Shipping Address:
Maxxam Analytics
c/o FedEx Depot
299 Cayuga Rd.
Cheektowaga, NY 14225

Please indicate "HOLD FOR PICKUP"

Contact: Melissa DiGrazia

Phone: (905) 817-5700, ext. 5784
email: MDiGrazia@maxxam.ca

Sample Types:
N = Normal
FD = Field Duplicate
AB = Ambient Blank or Field Reagent Blank
EB = Equipment Rinsate

Matrix:
WG = Groundwater
SO = Soil
WP = Potable Water
SE = Sediment
WS = Surface Water
WQ = Field QC (AB, EB)

MAXXAM use only	Sample ID	Date Collected	Time Collected	Sample Type	Matrix	PFAS (see list of 18 analytes below)	ANALYSIS					NOTES
	DOBNS12-001-GW-024	12/14/2017	0835	N	WG	2						
	DOBNS16-001-GW-012	12/14/2017	1030	N	WG	2						
	DOBNS-RS-016	12/14/2017	1105	EB	WQ	2						PP tubing, following sample →
	DOBNS16-003-GW-020	12/14/2017	1135	N	WG	2						
	DOBNS16-002-GW-015	12/14/2017	1228	N	WG	2						
	DOBNS14-D3-W24-GW-015	12/14/2017	1420	N	WG	2						

Total # of Containers: 12

RELINQUISHED BY:
Signature:
Date/Time: 12/14/17 2000
Printed Name:
Firm: ASC
Signature:
Date/Time:
Printed Name:
Firm:

RECEIVED BY:
Signature: Pardeep
Date/Time: 2017/12/15 14:3?
Printed Name: Pardeep K. Puran
Firm:
Signature:
Date/Time:
Printed Name:
Firm:

Analyte List:

ANALYTE	ERPIMS PAR CODE	CAS	Contaminant	ERPIMS PAR CODE	CAS
Perfluorooctanesulfonic acid	PFOS	1763-23-1	Perfluorotetradecanoic acid	PFTEA	376-06-7
Perfluorooctanoic acid	PFOA	335-67-1	Perfluorotridecanoic acid	PFTRIA	72629-94-8
Perfluorononanoic acid	PFNA	375-95-1	Perfluoroundecanoic acid	PFUNA	2058-94-8
Perfluorohexanesulfonic acid	PFHXSA	355-46-4	6:2 Fluorotelomer sulfonate	62FTS	27619-97-2
Perfluoroheptanoic acid	PFHPA	375-85-9	8:2 Fluorotelomer sulfonate	82FTS	39108-34-4
Perfluorobutanesulfonic acid	PFBSA	375-73-5	Perfluorobutanoic acid	PFBA	375-22-4
Perfluorodecanoic acid	PFDA	335-76-2	Perfluorodecanesulfonic acid	PFDS	335-77-3
Perfluorododecanoic acid	PFDOA	307-55-1	Perfluorooctane sulfonamide	FOSA	754-91-6
Perfluorohexanoic acid	PFHXA	307-24-4	Perfluoropentanoic Acid	PFPA	2706-90-3

Refer to NCR

AerostarSES LLC

AIR

1006 Floyd Culler Court
Oak Ridge, TN 37830
865-481-7837

Chain of Custody Record/
Analysis Request Number:

B7S5124

462
Page 4 of 18

Project Name: Site Inspections of Fire-Fighting Foam Usage at Various Air Force Bases in the Eastern United States

Job No.: M2032.0001 (Savannah)

Installation: Dobbins ARB

Aerostar Project Manager: Brian Odom, BOdom@specproenv.com (478) 397-4906
Send Data to: Jenny Vance, jvance@aerostar.net (865) 483-7904

Sampler(s): A Willis

Laboratory Name/Address:
Maxxam Analytics, Inc
6740 Campobello Rd.
Mississauga, Ontario
L5N2L8

Laboratory Shipping Address:
Maxxam Analytics
c/o FedEx Depot
299 Cayuga Rd.
Cheektowaga, NY 14225

Please indicate "HOLD FOR PICKUP"

Contact: Melissa DiGrazia

Phone: (905) 817-5700, ext. 5784
email: MDiGrazia@maxxam.ca

ANALYSIS

Sample Types:
N = Normal
FD = Field Duplicate
AB = Ambient Blank or Field Reagent Blank
EB = Equipment Rinsate

Matrix:
WG = Groundwater
SO = Soil
WP = Potable Water
SE = Sediment
WS = Surface Water
WQ = Field QC (AB, EB)

MAXXAM use only	Sample ID	Date Collected	Time Collected	Sample Type	Matrix	PFAS (see list of 18 analytes below)						NOTES
•	DOBNS04-001-GW-030	12/14/17	0942	N	WG	2						
•	DOBNS03-001-GW-019	12/14/17	1048	N	WG	6						MS/MSD
•	DOBNS03-002-GW-045	12/14/17	1252	N	WG	2						
•	DOBNS13-061-GW-050	12/14/17	1416	N	WG	6						MS/MSD

Total # of Containers: 16

RELINQUISHED BY:
Signature:
Date/Time: 12/14/17 2600
Printed Name: A Sh Willis
Firm: ASL
Signature:
Date/Time:
Printed Name:
Firm:

RECEIVED BY:
Signature: Pordip
Date/Time: 2017/12/15 14:37
Printed Name: Pardeep K. Perera
Firm:
Signature:
Date/Time:
Printed Name:
Firm:

Analyte List:

ANALYTE	ERPIMS PAR CODE	CAS	Contaminant	ERPIMS PAR CODE	CAS
Perfluorooctanesulfonic acid	PFOS	1763-23-1	Perfluorotetradecanoic acid	PFTEA	376-06-7
Perfluorooctanoic acid	PFOA	335-67-1	Perfluorotridecanoic acid	PFTRIA	72629-94-8
Perfluorononanoic acid	PFNA	375-95-1	Perfluoroundecanoic acid	PFUNA	2058-94-8
Perfluorohexanesulfonic acid	PFHXSA	355-46-4	6:2 Fluorotelomer sulfonate	62FTS	27619-97-2
Perfluoroheptanoic acid	PFHPA	375-85-9	8:2 Fluorotelomer sulfonate	82FTS	39108-34-4
Perfluorobutanesulfonic acid	PFBSA	375-73-5	Perfluorobutanoic acid	PFBA	375-22-4
Perfluorodecanoic acid	PFDA	335-76-2	Perfluorodecanesulfonic acid	PFDS	335-77-3
Perfluorododecanoic acid	PFDOA	307-55-1	Perfluorooctane sulfonamide	FOSA	754-91-6
Perfluorohexanoic acid	PFHXA	307-24-4	Perfluoropentanoic Acid	PFPA	2706-90-3

refer ACF

AerostarSES LLC

AIR

1006 Floyd Culler Court
Oak Ridge, TN 37830
865-481-7837

Chain of Custody Record/ Analysis Request Number:

453

B7S51724

Page 5 of 10

Project Name: Site Inspections of Fire Fighting Foam Usage at Various Air Force Bases in the Eastern United States

Job No.: M2032.0001 (Savannah)

Installation: Dobbins ARB

Aerostar Project Manager: Brian Odom, BOdom@specproenv.com (478) 397-4906
Send Data to: Jenny Vance, jvance@aerostar.net (865) 483-7904

Sampler(s): J. Vojak

Laboratory Name/Address:
Maxxam Analytics, Inc
6740 Campobello Rd.
Mississauga, Ontario
L5N2L8

Laboratory Shipping Address:
Maxxam Analytics
c/o FedEx Depot
299 Cayuga Rd.
Cheektowaga, NY 14225

Please indicate "HOLD FOR PICKUP"

Contact: Melissa DiGrazia

Phone: (905) 817-5700, ext. 5784
email: MDiGrazia@maxxam.ca

ANALYSIS

Sample Types:
N = Normal
FD = Field Duplicate
AB = Ambient Blank or Field Reagent Blank
EB = Equipment Rinsate

Matrix:
WG = Groundwater
SO = Soil
WP = Potable Water
SE = Sediment
WS = Surface Water
WQ = Field QC (AB, EB)

MAXXAM use only	Sample ID	Date Collected	Time Collected	Sample Type	Matrix	PFAS (see list of 18 analytes below)						NOTES
	~~DOBNS02-001-SS-001~~	~~12/5/17~~	~~1550~~	~~N~~	~~SO~~	~~1~~						12/14/17
	DOBNS02-003-SS-001	12/5/17	1620	N	SO	1						
	DOBNS02-002-SS-001	12/6/17	0900	N	SO	1						
	DOBNS02-002-GW-039	12/6/17	1022	N	WG	4						2 extra bottles due to turbidity
	DOBNS02-002-SO-036	12/6/17	1040	N	SO	1						
	DOBNS02-001-SS-001	12/6/17	1100	N	SO	1						
	DOBNS02-001-SO-010	12/6/17	1235	N	SO	1						
	DOBNS02-001-SO-910	12/6/17	1235	N	SO	1						
	DOBNS02-003-SO-005	12/06/2017	1355	N	SO	2						Normal + MS/MSD
	~~DOBNS02-002-SS-001~~	~~12/7/17~~	~~0945~~	~~N~~	~~SO~~	~~1~~						12/14/17
	~~DOBNS02-002-SO-030~~	~~12/7/17~~	~~1055~~	~~N~~	~~SO~~	~~1~~						12/14/17
	DOBNS-SB-001	12/07/2017	0937		WP	2						Drillers source water water from AFP 6
	DOBNS12-001-SS-001	12/07/2017	1202	N	SO	1						
	DOBNS-RS-010	12/07/2017	1215	EB	WQ	2						Acetate liner Rinsate following sample ↓
	DOBNS12-001-SO-024	12/07/2017	1300	N	SO	1						
					Total # of Containers	18						

RELINQUISHED BY:
Signature:
Date/Time: 12/14/17 2000
Printed Name:
Firm: ASL
Signature:
Date/Time:
Printed Name:
Firm:

RECEIVED BY:
Signature: Pardeep
Date/Time: 2017/12/15 14:34
Printed Name: Pardeep K Purewal
Firm:
Signature:
Date/Time:
Printed Name:
Firm:

Analyte List:

ANALYTE	ERPIMS PAR CODE	CAS	Contaminant	ERPIMS PAR CODE	CAS
Perfluorooctane sulfonic acid	PFOS	1763-23-1	Perfluorotetradecanoic acid	PFTEA	376-06-7
Perfluorooctanoic acid	PFOA	335-67-1	Perfluorotridecanoic acid	PFTRIA	72629-94-8
Perfluorononanoic acid	PFNA	375-95-1	Perfluoroundecanoic acid	PFUNA	2058-94-8
Perfluorohexanesulfonic acid	PFHXSA	355-46-4	6:2 Fluorotelomer sulfonate	62FTS	27619-97-2
Perfluoroheptanoic acid	PFHPA	375-85-9	8:2 Fluorotelomer sulfonate	82FTS	39108-34-4
Perfluorobutanesulfonic acid	PFBSA	375-73-5	Perfluorobutanoic acid	PFBA	375-22-4
Perfluorodecanoic acid	PFDA	335-76-2	Perfluorodecanesulfonic acid	PFDS	335-77-3
Perfluorododecanoic acid	PFDOA	307-55-1	Perfluorooctane sulfonamide	FOSA	754-91-6
Perfluorohexanoic acid	PFHXA	307-24-4	Perfluoropentanoic Acid	PFPA	2706-90-3

NCTF

AerostarSES LLC

AIR

1006 Floyd Culler Court
Oak Ridge, TN 37830
865-481-7837

Chain of Custody Record/ Analysis Request Number: 459

B755122

Page 6 of 10

Project Name: Site Inspections of Fire Fighting Foam Usage at Various Air Force Bases in the Eastern United States

Job No.: M2032.0001 (Savannah)

Installation: DOBBINS ARB

Aerostar Project Manager: Brian Odom, BOdom@specproenv.com (478) 397-4906
Send Data to: Jenny Vance, jvance@aerostar.net (865) 483-7904

Sampler(s): A. Willis / J. Meshew

Laboratory Name/Address:
Maxxam Analytics, Inc
6740 Campobello Rd.
Mississauga, Ontario
L5N2L8

Laboratory Shipping Address:
Maxxam Analytics
c/o FedEx Depot
299 Cayuga Rd.
Cheektowaga, NY 14225

Please indicate "HOLD FOR PICKUP"

Contact: Melissa DiGrazia
Phone: (905) 817-5700, ext. 5784
email: MDiGrazia@maxxam.ca

Sample Types:
N = Normal
FD = Field Duplicate
AB = Ambient Blank or Field Reagent Blank
EB = Equipment Rinsate

Matrix:
WG = Groundwater
SO = Soil
WP = Potable Water
SE = Sediment
WS = Surface Water
WQ = Field QC (AB, EB)

						ANALYSIS						
MAXXAM use only	Sample ID	Date Collected	Time Collected	Sample Type	Matrix	PFAS (see list of 18 analytes below)						NOTES
	DOBNS11-003-GW-018	12/6/17	1126	N	WG	2						
	DOBNS11-003-GW-918	12/6/17	1126	FD	WG	2						
	DOBNS11-002-GW-022	12/6/17	1220	N	WG	2						
	DOBNS11-001-GW-034	12/6/17	1300	N	WG	2						
	DOBNS10-001-GW-020	12/6/17	1410	N	WG	2						
	~~DOBNS10-002-GW-025~~	~~12/6/17~~	~~1528~~	~~N~~	~~WG~~	~~2~~						
	DOBNS10-003-GW-023	12/6/17	1546	N	WG	2						
	DOBNS07-002-GW-012	12/6/17	1650	N	WG	2						
	DOBNS08-003-GW-010	12/7/17	1118	N	WG	6						MS/MSD
	DOBNS08-001-GW-027	12/7/17	1154	N	WG	2						
	DOBNS08-004-GW-016	12/7/17	1240	N	WG	2						
	DOBNS08-006-GW-015	12/7/17	1318	N	WG	2						
	DOBNS08-005-GW-015	12/7/17	1352	N	WG	2						
	DOBN05-001-GW-034	12/8/17	1125	N	WG	2						
	DOBN05-003-GW-039	12/08/17	1140	N	WG	2						
					Total # of Containers	32						

RELINQUISHED BY:
Signature:
Date/Time: 12/14/17 2000
Printed Name: A. Willis
Firm: ASL
Signature:
Date/Time:
Printed Name:
Firm:

RECEIVED BY:
Signature:
Date/Time: 2017/12/15 14:34
Printed Name: Pardip K. Puwal
Firm: "
Signature:
Date/Time:
Printed Name:
Firm:

Analyte List:

ANALYTE	ERPIMS PAR CODE	CAS	Contaminant	ERPIMS PAR CODE	CAS
Perfluorooctanesulfonic acid	PFOS	1763-23-1	Perfluorotetradecanoic acid	PFTEA	376-06-7
Perfluorooctanoic acid	PFOA	335-67-1	Perfluorotridecanoic acid	PFTRIA	72629-94-8
Perfluorononanoic acid	PFNA	375-95-1	Perfluoroundecanoic acid	PFUNA	2058-94-8
Perfluorohexanesulfonic acid	PFHXSA	355-46-4	6:2 Fluorotelomer sulfonate	62FTS	27619-97-2
Perfluoroheptanoic acid	PFHPA	375-85-9	8:2 Fluorotelomer sulfonate	82FTS	39108-34-4
Perfluorobutanesulfonic acid	PFBSA	375-73-5	Perfluorobutanoic acid	PFBA	375-22-4
Perfluorodecanoic acid	PFDA	335-76-2	Perfluorodecanesulfonic acid	PFDS	335-77-3
Perfluorododecanoic acid	PFDOA	307-55-1	Perfluorooctane sulfonamide	FOSA	754-91-6
Perfluorohexanoic acid	PFHXA	307-24-4	Perfluoropentanoic Acid	PFPA	2706-90-3

Ice @ 2170 ACR

AerostarSES LLC

1006 Floyd Culler Court
Oak Ridge, TN 37830
865-481-7837

Chain of Custody Record/ Analysis Request Number:

B)55172⁴⁄–

Page 7 of 10 471

Project Name: Site Inspections of Fire Fighting Foam Usage at Various Air Force Bases in the Eastern United States

Job No.: M2032.0001 (Savannah)

Installation: DOBBINS

Aerostar Project Manager: Brian Odom, BOdom@specproenv.com (478) 397-4906
Send Data to: Jenny Vance, jvance@aerostar.net (865) 483-7904

Sampler(s): Franklin Johnson

Laboratory Name/Address:
Maxxam Analytics, Inc
6740 Campobello Rd.
Mississauga, Ontario
L5N2L8

Laboratory Shipping Address:
Maxxam Analytics
c/o FedEx Depot
299 Cayuga Rd.
Cheektowaga, NY 14225

Please indicate "HOLD FOR PICKUP"

Contact: Melissa DiGrazia

Phone: (905) 817-5700, ext. 5784
email: MDiGrazia@maxxam.ca

ANALYSIS

Sample Types:
N = Normal
FD = Field Duplicate
AB = Ambient Blank or Field Reagent Blank
EB = Equipment Rinsate

Matrix:
WG = Groundwater
SO = Soil
WP = Potable Water
SE = Sediment
WS = Surface Water
WQ = Field QC (AB, EB)

MAXXAM use only	Sample ID	Date Collected	Time Collected	Sample Type	Matrix	PFAS (see list of 18 analytes below)						NOTES
	DOBNS12-002-SS-001	12/07/2017	1330	N	SO	1						
	DOBNS12-002-SS-901	12/07/2017	1330	FD	SO	1						
	DOBNS-SB-002	12/07/2017	1355	AB	WP	2						Drillers water from fire station
	DOBNS12-002-SO-009	12/07/2017	1432	N	SO	1						
	DOBNS12-003-SS-001	12/07/2017	1505	N	SO	1						
	DOBNS12-003-SO-007	12/07/2017	1544	N	SO	1						
	DOBNS12-003-SO-907	12/07/2017	1544	FD	SO	1						
	DOBNS05-003-SO-035	12/07/2017	1710	N	SO	1						
	DOBNS16-003-SS-001	12/08/2017	0905	N	SO	1						Normal + MS/MSD
	DOBNS16-003-SO-015	12/08/2017	1020	N	SO	1						
	DOBNS16-002-SO-001	12/08/2017	1040	N	SO	1						
	DOBNS16-002-SO-006	12/08/2017	1140	N	SO	1						
	DOBNS16-001-SS-001	12/08/2017	1225	N	SO	1						
	DOBNS-RS-011	12/08/2017	1245	EB	WQ	2						Spoon rinsate, following sample →
	DOBNS16-001-SO-006	12/08/2017	1250	N	SO	1						
				Total # of Containers								

RELINQUISHED BY:
Signature: | Date/Time: 12/14/17 2000
Printed Name: A Willis | Firm: ASL
Signature: | Date/Time:
Printed Name: | Firm:

RECEIVED BY:
Signature: | Date/Time: 2017/12/15
Printed Name: Pardeep K. Pexa | Firm:
Signature: | Date/Time:
Printed Name: | Firm:

refer to AC71

Analyte List:

ANALYTE	ERPIMS PAR CODE	CAS	Contaminant	ERPIMS PAR CODE	CAS
Perfluorooctanesulfonic acid	PFOS	1763-23-1	Perfluorotetradecanoic acid	PFTEA	376-06-7
Perfluorooctanoic acid	PFOA	335-67-1	Perfluorotridecanoic acid	PFTRIA	72629-94-8
Perfluorononanoic acid	PFNA	375-95-1	Perfluoroundecanoic acid	PFUNA	2058-94-8
Perfluorohexanesulfonic acid	PFHXSA	355-46-4	6:2 Fluorotelomer sulfonate	62FTS	27619-97-2
Perfluoroheptanoic acid	PFHPA	375-85-9	8:2 Fluorotelomer sulfonate	82FTS	39108-34-4
Perfluorobutanesulfonic acid	PFBSA	375-73-5	Perfluorobutanoic acid	PFBA	375-22-4
Perfluorodecanoic acid	PFDA	335-76-2	Perfluorodecanesulfonic acid	PFDS	335-77-3
Perfluorododecanoic acid	PFDOA	307-55-1	Perfluorooctane sulfonamide	FOSA	754-91-6
Perfluorohexanoic acid	PFHXA	307-24-4	Perfluoropentanoic Acid	PFPA	2706-90-3

AerostarSES LLC

1006 Floyd Culler Court
Oak Ridge, TN 37830
865-481-7837

Chain of Custody Record/ Analysis Request Number:

B35 5172

Page 8 of 10 460

Project Name: Site Inspections of Fire Fighting Foam Usage at Various Air Force Bases in the Eastern United States

Job No.: M2032.0001 (Savannah)

Installation: Dobbins ARB

Aerostar Project Manager: Brian Odom, BOdom@specproenv.com (478) 397-4906

Send Data to: Jenny Vance, jvance@aerostar.net (865) 483-7904

Sampler(s): A. Willis

Laboratory Name/Address:
Maxxam Analytics, Inc
6740 Campobello Rd.
Mississauga, Ontario
L5N2L8

Laboratory Shipping Address:
Maxxam Analytics
c/o FedEx Depot
299 Cayuga Rd.
Cheektowaga, NY 14225

Please indicate "HOLD FOR PICKUP"

Contact: Melissa DiGrazia

Phone: (905) 817-5700, ext. 5784
email: MDiGrazia@maxxam.ca

ANALYSIS

Sample Types:
N = Normal
FD = Field Duplicate
AB = Ambient Blank or Field Reagent Blank
EB = Equipment Rinsate

Matrix:
WG = Groundwater
SO = Soil
WP = Potable Water
SE = Sediment
WS = Surface Water
WQ = Field QC (AB, EB)

MAXXAM use only	Sample ID	Date Collected	Time Collected	Sample Type	Matrix	PFAS (see list of 18 analytes below)						NOTES
	DOBNS05-002-GW-038	12/8/17	1205	N	WG	2						
	DOBNS05-002-GW-938	12/8/17	1205	FD	WG	2						
	DOBNS06-002-GW-038	12/8/17	1225	N	WG	2						
	DOBNS06-003-GW-036	12/8/17	1236	N	WG	2						
	DOBNS02-D3-W4-GW-013	12/10/17	1202	N	WG	2						
	DOBNS14-003-GW-052	12/11/17	1055	N	WG	2						
	DOBNS01-002-GW-030	12/11/17	1220	N	WG	2						
	DOBNS01-001-GW-025	12/11/17	1256	N	WG	2						
	DOBN01-003-GW-025	12/11/17	1554	N	WG	6						MS/MSD
	DOBNS04-002-GW-034	12/12/17	1200	N	WG	2						
	DOBNS-RS-009	12/6/17	1156	FB	WQ	2						off of spoon associated DOBNS02-001-SO-010
	DOBNS13-003-GW-050	12/14/17	1502	N	WG	2						
					Total # of Containers	26						

RELINQUISHED BY:
Signature:
Date/Time: 12/14/17 2000
Printed Name: Ann Willis
Firm: ASL
Signature:
Date/Time:
Printed Name:
Firm:

RECEIVED BY:
Signature:
Date/Time: 2017/12/15 14:34
Printed Name: Pardeep K Persaud
Firm:
Signature:
Date/Time:
Printed Name:
Firm:

Analyte List:

ANALYTE	ERPIMS PAR CODE	CAS	Contaminant	ERPIMS PAR CODE	CAS
Perfluorooctanesulfonic acid	PFOS	1763-23-1	Perfluorotetradecanoic acid	PFTEA	376-06-7
Perfluorooctanoic acid	PFOA	335-67-1	Perfluorotridecanoic acid	PFTRIA	72629-94-8
Perfluorononanoic acid	PFNA	375-95-1	Perfluoroundecanoic acid	PFUNA	2058-94-8
Perfluorohexanesulfonic acid	PFHXSA	355-46-4	6:2 Fluorotelomer sulfonate	62FTS	27619-97-2
Perfluoroheptanoic acid	PFHPA	375-85-9	8:2 Fluorotelomer sulfonate	82FTS	39108-34-4
Perfluorobutanesulfonic acid	PFBSA	375-73-5	Perfluorobutanoic acid	PFBA	375-22-4
Perfluorodecanoic acid	PFDA	335-76-2	Perfluorodecanesulfonic acid	PFDS	335-77-3
Perfluorododecanoic acid	PFDOA	307-55-1	Perfluorooctane sulfonamide	FOSA	754-91-6
Perfluorohexanoic acid	PFHXA	307-24-4	Perfluoropentanoic Acid	PFPA	2706-90-3

refer NCTR

AerostarSES LLC

1006 Floyd Culler Court
Oak Ridge, TN 37830
865-481-7837

Chain of Custody Record/
Analysis Request Number: 483

B755172 Ŧ

Page 9 of 10

Project Name: Site Inspections of Fire Fighting Foam Usage at Various Air Force Bases in the Eastern United States	**Job No.:** M2032.0001 (Savannah) **Installation:** Dobbins ARB
Aerostar Project Manager: Brian Odom, BOdom@specproenv.com (478) 397-4906 **Send Data to:** Jenny Vance, jvance@aerostar.net (865) 483-7904	
Sampler(s): Greg Carlson/ASL	
Laboratory Name/Address: Maxxam Analytics, Inc 6740 Campobello Rd. Mississauga, Ontario L5N2L8	**Laboratory Shipping Address:** Maxxam Analytics c/o FedEx Depot 299 Cayuga Rd. Cheektowaga, NY 14225 Please indicate "HOLD FOR PICKUP"
Contact: Melissa DiGrazia	Phone: (905) 817-5700, ext. 5784 email: MDiGrazia@maxxam.ca

ANALYSIS

Sample Types:
N = Normal
FD = Field Duplicate
AB = Ambient Blank or Field Reagent Blank
EB = Equipment Rinsate

Matrix:
WG = Groundwater
SO = Soil
WP = Potable Water
SE = Sediment
WS = Surface Water
WQ = Field QC (AB, EB)

MAXXAM use only	Sample ID	Date Collected	Time Collected	Sample Type	Matrix	PFAS (see list of 18 analytes below)	NOTES
	DOBNS14-001-GW-012	12-12-17	1040	N	WG	2	
	DOBNS14-OT004-MW007 3(N)	12-12-17	1250	N	WG	2	
	DOBNS14-OT004MW008 2(N)	12-12-17	1450	N	WG	2	
	DOBNS15-002-GW-007	12-12-17	1625	N	WG	2	
	DOBNS15-003-GW-011	12-12-17	1715 ~~1645~~ GC 12-12-17	N	WG	2	
	DOBNS15-003-GW-911	12-12-17	1715 ~~1645~~ GC 12-12-17	FD	WG	2	
	DOBNS15-001-GW-012	12-12-17	1840	N	WG	2	

Total # of Containers 14

RELINQUISHED BY:		RECEIVED BY:	
Signature:	Date/Time: 12/14/17 2000	Signature:	Date/Time: 2017/12/15 14:34
Printed Name: Ash Willis	Firm: ASL	Printed Name: Pardeep K. Purewal	Firm:
Signature:	Date/Time:	Signature:	Date/Time:
Printed Name:	Firm:	Printed Name:	Firm:

Analyte List:

ANALYTE	ERPIMS PAR CODE	CAS	Contaminant	ERPIMS PAR CODE	CAS
Perfluorooctanesulfonic acid	PFOS	1763-23-1	Perfluorotetradecanoic acid	PFTEA	376-06-7
Perfluorooctanoic acid	PFOA	335-67-1	Perfluorotridecanoic acid	PFTRIA	72629-94-8
Perfluorononanoic acid	PFNA	375-95-1	Perfluoroundecanoic acid	PFUNA	2058-94-8
Perfluorohexanesulfonic acid	PFHXSA	355-46-4	6:2 Fluorotelomer sulfonate	62FTS	27619-97-2
Perfluoroheptanoic acid	PFHPA	375-85-9	8:2 Fluorotelomer sulfonate	82FTS	39108-34-4
Perfluorobutanesulfonic acid	PFBSA	375-73-5	Perfluorobutanoic acid	PFBA	375-22-4
Perfluorodecanoic acid	PFDA	335-76-2	Perfluorodecanesulfonic acid	PFDS	335-77-3
Perfluorododecanoic acid	PFDOA	307-55-1	Perfluorooctane sulfonamide	FOSA	754-91-6
Perfluorohexanoic acid	PFHXA	307-24-4	Perfluoropentanoic Acid	PFPA	2706-90-3

refer to ACTR

AerostarSES AIR

1006 Floyd Culler Court
Oak Ridge, TN 37830
865-481-7837

Chain of Custody Record/ Analysis Request Number:

463 B7S5172 MK

Page 10 of 10

Project Name: Site Inspections of Fire Fighting Foam Usage at Various Air Force Bases in the Eastern United States

Job No.: M2032.0001 (Savannah)

Installation: Dobbins ARB

Aerostar Project Manager: Brian Odom, BOdom@specproenv.com (478) 397-4906
Send Data to: Jenny Vance, jvance@aerostar.net (865) 483-7904

Sampler(s): J. Vojak, F. Johnson

Laboratory Name/Address:
Maxxam Analytics, Inc
6740 Campobello Rd.
Mississauga, Ontario
L5N2L8

Laboratory Shipping Address:
Maxxam Analytics
c/o FedEx Depot
299 Cayuga Rd.
Cheektowaga, NY 14225

Please indicate "HOLD FOR PICKUP"

Contact: Melissa DiGrazia

Phone: (905) 817-5700, ext. 5784
email: MDiGrazia@maxxam.ca

Sample Types:
N = Normal
FD = Field Duplicate
AB = Ambient Blank or Field Reagent Blank
EB = Equipment Rinsate

Matrix:
WG = Groundwater
SO = Soil
WP = Potable Water
SE = Sediment
WS = Surface Water
WQ = Field QC (AB, EB)

MAXXAM use only	Sample ID	Date Collected	Time Collected	Sample Type	Matrix	PFAS (see list of 18 analytes below)	ANALYSIS					NOTES
	DOBNS13-G01-SS-001	12/12/17	1537	N	SO	1						
	DOBNS13-G01-SO-047	12/12/17	1720	N	SO	1						
	DOBNS09-003-GW-042	12/13/17	1643	N	WG	2						
	DOBNS09-003-GW-942	12/13/17	1643	FD	WG	2						
	DOBNS09-002-GW-044	12/13/17	1530	N	WG	2						
	DOBNS-RS-015	12/13/17	1656	EB	WQ	2						throug tubing associate w/ DOBNS04-003-GW-015
	DOBNS04-003-GW-015	12/13/17	1725	N	WG	2						
	DOBNS04-001-SS-001	12/6/17	1625	N	SO	1						
	DOBNS04-001-SS-901	12/6/17	1625	FD	SO	1						
	DOBNS04-001-SO-028	12/6/17	1740	N	SO	1						
	DOBNS04-003-SS-001	12/6/17	1510	N	SO	1						
	DOBNS04-003-SO-026	12/6/17	1545	N	SO	1						
	DOBNS04-002-SS-001	12/7/17	0945	N	SO	1						
	DOBNS04-002-SO-030	12/7/17	1055	N	SO	1						
					Total # of Containers	19						

RELINQUISHED BY:
Signature:
Date/Time: 12/14/17 2000
Printed Name: Ash Willis
Firm: ASL
Signature:
Date/Time:
Printed Name:
Firm:

RECEIVED BY:
Signature: Pardup
Date/Time: 2017/12/15 14:37
Printed Name: Pardeep K Purewal
Firm:
Signature:
Date/Time:
Printed Name:
Firm:

Mf to ACTR

Analyte List:

ANALYTE	ERPIMS PAR CODE	CAS	Contaminant	ERPIMS PAR CODE	CAS
Perfluorooctanesulfonic acid	PFOS	1763-23-1	Perfluorotetradecanoic acid	PFTEA	376-06-7
Perfluorooctanoic acid	PFOA	335-67-1	Perfluorotridecanoic acid	PFTRIA	72629-94-8
Perfluorononanoic acid	PFNA	375-95-1	Perfluoroundecanoic acid	PFUNA	2058-94-8
Perfluorohexanesulfonic acid	PFHXSA	355-46-4	6:2 Fluorotelomer sulfonate	62FTS	27619-97-2
Perfluoroheptanoic acid	PFHPA	375-85-9	8:2 Fluorotelomer sulfonate	82FTS	39108-34-4
Perfluorobutanesulfonic acid	PFBSA	375-73-5	Perfluorobutanoic acid	PFBA	375-22-4
Perfluorodecanoic acid	PFDA	335-76-2	Perfluorodecanesulfonic acid	PFDS	335-77-3
Perfluorododecanoic acid	PFDOA	307-55-1	Perfluorooctane sulfonamide	FOSA	754-91-6
Perfluorohexanoic acid	PFHXA	307-24-4	Perfluoropentanoic Acid	PFPA	2706-90-3

AIR AerostarSES LLC
1006 Floyd Culler Court
Oak Ridge, TN 37830
865-481-7837

Chain of Custody Record/ Analysis Request Number: 458

Page 1 of 1

Project Name: Site Inspections of Fire Fighting Foam Usage at Various Air Force Bases in the Eastern United States

Job No.: M2032.0001 (Savannah)

Installation: Dobbins

Aerostar Project Manager: Brian Odom, BOdom@specproenv.com (478) 397-4906

Send Data to: Jenny Vance, jvance@aerostar.net (865) 483-7904

Sampler(s): A Willis F Johnson

Laboratory Name/Address:
Maxxam Analytics, Inc
6740 Campobello Rd.
Mississauga, Ontario
L5N2L8

Laboratory Shipping Address:
Maxxam Analytics
c/o FedEx Depot
299 Cayuga Rd.
Cheektowaga, NY 14225

Please indicate "HOLD FOR PICKUP"

Contact: Melissa DiGrazia
Phone: (905) 817-5700, ext. 5784
email: MDiGrazia@maxxam.ca

Sample Types:
- N = Normal
- FD = Field Duplicate
- AB = Ambient Blank or Field Reagent Blank
- EB = Equipment Rinsate

Matrix:
- WG = Groundwater
- SO = Soil
- WP = Potable Water
- SE = Sediment
- WS = Surface Water
- WQ = Field QC (AB, EB)

ANALYSIS

MAXXAM use only	Sample ID	Date Collected	Time Collected	Sample Type	Matrix	PFAS (see list of 18 analytes below)
	DOBNS-RS-017	12/15/17	0826	EB	WQ	2
	DOBNS02-D3-W3-GW-035	12/15/17	0858	N	WG	2
	DOBNS02-D3-W25-GW-026	12/15/17	0944	N	WG	2
	DOBNS02-D3-W32-GW-012	12/15/17	1118	N	WG	2
	DOBNS01-02-W7-GW-023	12/15/17	1328	N	WG	2

NOTES

Through Mason Motor associate w/ DOBNS02-03-W3-035

16-Dec-17 12:43
Stephanie Pollen
B7S5409
URE ENV-1224

Total # of Containers: 10

RELINQUISHED BY:
Signature:
Date/Time: 12/15/17 2000
Printed Name: AJ Willis ASC
Firm:
Signature:
Date/Time:
Printed Name:
Firm:

RECEIVED BY:
Signature: Paramjeet
Date/Time: 2017/12/16 12:43
Printed Name: PARAMJEET SINGH
Firm: 4.1/4.2/4.6
Signature:
Date/Time:
Printed Name:
Firm:

Analyte List:

ANALYTE	ERPIMS PAR CODE	CAS	Contaminant	ERPIMS PAR CODE	CAS
[illegible]	PFOS	1763-23-1	[illegible]	[illegible]	[illegible]
[illegible]	PFOA	335-67-1	[illegible]	PFTRDA	[illegible]
[illegible]	PFNA	375-95-1	[illegible]	[illegible]	[illegible]
[illegible]	PFHXS	355-46-4	[illegible]	62FTS	[illegible]
[illegible]	PFHPA	375-85-9	[illegible]	82FTS	[illegible]
[illegible]	PFBSA	375-73-5	[illegible]	PFBA	[illegible]
[illegible]	PFDA	335-76-2	[illegible]	PFDS	[illegible]
[illegible]	PFDOA	307-55-1	[illegible]	[illegible]	[illegible]
[illegible]	PFHXA	307-24-4	[illegible]	PFPA	[illegible]

Custody seal present

AerostarSES RUSH!! CT 18/01/13

AIR
1006 Floyd Culler Court
Oak Ridge, TN 37830
865-481-7837

Chain of Custody Record/ Analysis Request Number:

478

Page 1 of 1

Project Name: Site Inspections of Fire Fighting Foam Usage at Various Air Force Bases in the Eastern United States

Job No.: M2032.0001 (Savannah)

Installation: Dobbins ARB

Aerostar Project Manager: Brian Odom, BOdom@specproenv.com (478) 397-4906
Send Data to: Jenny Vance, jvance@aerostar.net (865) 483-7904

Sampler(s): A willis, G. Carlson ASL

Laboratory Name/Address:
Maxxam Analytics, Inc
6740 Campobello Rd.
Mississauga, Ontario
L5N2L8

Laboratory Shipping Address:
Maxxam Analytics
c/o FedEx Depot
299 Cayuga Rd.
Cheektowaga, NY 14225

Please indicate "HOLD FOR PICKUP"

Contact: Melissa DiGrazia

Phone: (905) 817-5700, ext. 5784
email: MDiGrazia@maxxam.ca

ANALYSIS

Sample Types:
N = Normal
FD = Field Duplicate
AB = Ambient Blank or Field Reagent Blank
EB = Equipment Rinsate

Matrix:
WG = Groundwater
SO = Soil
WP = Potable Water
SE = Sediment
WS = Surface Water
WQ = Field QC (AB, EB)

MAXXAM use only	Sample ID	Date Collected	Time Collected	Sample Type	Matrix	PFAS (see list of 18 analytes below)	NOTES
	DOBNS - RS - A01	01/10/2018	0855	EB	WQ	2	Taken off of WLM associated w/ DOBNS01 - D2 - W23 - GW - 014
	DOBNS01 - D2 - W23 - GW - 014	01/10/2018	0944	N	WG	6	MS/MSD
	DOBNS14 - OT004 - MW04 - GW - 018	01/10/2018	1345	N	WG	2	
	DOBNS14 - OT004 - MW04 - GW - 918	01/10/2018	1345	FD	WG	2	

13-Jan-18 12:46
Stephanie Pollen
B808850
TLI ENV-1077

Total # of Containers 12

RELINQUISHED BY:
Signature
Date/Time 1/11/18 1600
Printed Name Ash Willis
Firm ASL

Signature
Date/Time
Printed Name
Firm

RECEIVED BY:
Signature
Date/Time 2018/01/13 12:46
Printed Name TAETECHNIUM
Firm 3.4 / 3.7 / 2.7

Signature
Date/Time Custody seal Intact
Printed Name
Firm

Analyte List:

ANALYTE	ERPIMS PAR CODE	CAS	Contaminant	ERPIMS PAR CODE	CAS
Perfluorooctanesulfonic acid	PFOS	1763-23-1	Perfluorotetradecanoic acid	PFTEA	376-06-7
Perfluorooctanoic acid	PFOA	335-67-1	Perfluorotridecanoic acid	PFTRIA	72629-94-8
Perfluorononanoic acid	PFNA	375-95-1	Perfluoroundecanoic acid	PFUNA	2058-94-8
Perfluorohexanesulfonic acid	PFHXSA	355-46-4	6:2 Fluorotelomer sulfonate	62FTS	27619-97-2
Perfluoroheptanoic acid	PFHPA	375-85-9	8:2 Fluorotelomer sulfonate	82FTS	39108-34-4
Perfluorobutanesulfonic acid	PFBSA	375-73-5	Perfluorobutanoic acid	PFBA	375-22-4
Perfluorodecanoic acid	PFDA	335-76-2	Perfluorodecanesulfonic acid	PFDS	335-77-3
Perfluorododecanoic acid	PFDOA	307-55-1	Perfluorooctane sulfonamide	FOSA	754-91-6
Perfluorohexanoic acid	PFHXA	307-24-4	Perfluoropentanoic Acid	PFPA	2706-90-3

Prepared for: Aerostar SES LLC

Project: M2032.0001 (SAVANNAH)
DOBBINS ARB

Analytical Data Package

(Level IV)

Analysis: PFOS and PFOA in water and soil (Method 537 mod.)

Maxxam Job #: B7R2776

Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com

I hereby certify that to the best of my knowledge all analytical data presented in this report:

- Has been checked for completeness.
- Is accurate, legible and error free.
- Has been conducted in accordance with approved SOP's and that all deviations are clearly listed in the Case Narrative.
- This report has been generated in .pdf format.

Review Performed By:

Steph Pollen

Project Manager

Maxxam

A Bureau Veritas Group Company

Stephanie
Pollen
2018.01.12
13:23:23
-05'00'

Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com

Glossary of Terms

- ***Detection Limit (DL)*** this can also be called ***Method Detection Limit (MDL)***: The lowest concentration or amount of the target analyte that can be identified, measured, and reported with confidence that the analyte concentration is not a false positive value. (Clarification): The smallest analyte concentration that can be demonstrated to be different from zero or a blank concentration at the 99% level of confidence. At the DL, the false positive rate (Type I error) is 1%.

- ***Limit of Detection (LOD)***: An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte- and matrix-specific and may be laboratory-dependent. (Clarification): The smallest amount or concentration of a substance that must be present in a sample in order to be detected at a high level of confidence (99%). At the LOD, the false negative rate (Type II error) is 1%.

- ***Limits of Quantitation (LOQ)*** this can also be called ***Reporting Detection Limit (RDL)***: The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. (Clarification): The lowest concentration that produces a quantitative result within specified limits of precision and bias. For DoD projects, the LOQ shall be set at or above the concentration of the lowest initial calibration standard.

- ***Acceptance Criteria*** are values used by the laboratory to determine that a process is in control.

- ***Accuracy*** is the degree of agreement of a measured value with the true or expected value.

- ***Calibration Standards*** are a set of solutions containing the analytes of interest at a specified concentration.

- ***Calibration Verification Standard*** consists of a calibration standard solution of intermediate concentration (mid-point initial calibration level) used to access whether the initial calibration is still valid

- ***Certified Reference Material*** is a stable homogenous material that is certified by repetitive analysis from a supplier who is certified to generate said materials.

- ***Internal Standard*** a deuterated or ^{13}C-labelled analyte that is added to a sample extract prior to instrumental analysis to compensate for injection variability.

- ***Isomer*** is a member of a group of compounds that differ from each other only in the locations of a specific number of common substituent atoms or groups of atoms on the parent compound.

- ***Method Blank*** is a laboratory control sample using reagents that are known to be free of contamination.

- ***Precision*** is the degree of agreement between the data generated from repetitive measurements under specific conditions.

- ***Quality Assurance*** is a system of activities whose purpose is to provide the producer or user of a product with the assurance that the product meets a defined standard of quality.

- ***Quality Control*** is the overall system of activities whose purpose is to control the quality of a product so that it meets the needs of the end user.

- ***RSD*** is the relative standard deviation.

- ***Blank Spike*** is a laboratory control sample that has been fortified with native analytes of interest.

- ***Window Defining Mixture*** is a solution containing only the earliest and latest eluting congeners within each homologous group of target analytes on a specified GC column.

- ***RPD*** or Relative Percent Difference. A measure used to compare duplicate sample analysis.

- ***EMPC/NDR –*** Peak detected does not meet ratio criteria and has resulted in a higher detection limit.

Maxxam

1.0 Project Narrative

Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com

Maxxam Job: B7R2776 – Soil Analysis

Sample Analysis

Soil extracts were initially pre-screened and estimated concentrations were obtained so that samples could be appropriately diluted for analysis on QC batches 5310825 (2017/12/19), 5310836 (2017/12/19) and 5311478 (2018/01/02). Due to high concentrations, dilutions were required for Perfluorooctanesulfonate (PFOS) in the following samples:

FRH295 *DOBNS14-001-SS-001*
FRH301 *DOBNS13-005-SS-001*

Detection limits were adjusted accordingly.

Extracted Internal Standard Analytes

The extracted internal standard analytes $^{13}C_5$-Perfluorononanoic acid $^{13}C_5$-PFNA), $^{13}C_2$-Perfluorodecanoic acid ($^{13}C_2$-PFDA), $^{13}C_2$-Perfluoroundecanoic acid ($^{13}C_2$-PFUnA), $^{13}C_2$-Perfluorododecanoic acid ($^{13}C_2$-PFDoA), $^{13}C_2$-Perfluorotetradecanoic acid ($^{13}C_2$-PFTeDA) and $^{13}C_2$-8:2 Fluorotelomersulfonate ($^{13}C_2$-8:2FTS) are used to quantify native Perfluorononanoic acid (PFNA), Perfluorodecanoic acid (PFDA), Perfluoroundecanoic acid (PFUnA), Perfluorododecanoic acid (PFDoA), Perfluorotridecanoic acid (PFTrDA) & Perfluorotetradecanoic acid (PFTeDA) and 8:2 Fluorotelomersulfonate (8:2FTS) respectively. The recoveries observed for these extracted internal standard analytes were below the defined lower control limit (LCL) for the following sample on QC batch 5310825 (2017/12/19):

FRH282 *DOBNS08-005-SO-011*

Results for the associated native analytes were reported from the 10x diluted sample where acceptable extracted internal standard analyte recoveries were obtained. Detection limits were adjusted accordingly.

Quantitation of PFAS

Many PFAS (e.g. PFOS) have several isomeric forms that may show up as separate or partially-merged peaks in the analytical chromatograms. These peaks will be integrated and the areas summed such that the result represents the concentration of the sum of the linear and branched isomers, per USEPA (2009). Instrumentation is calibrated using certified quantitative standards containing only the linear isomer for all target analytes, except Perfluorooctane sulfonate (PFOS) and Perfluorohexane sulfonate (PFHxS), which are calibrated using certified branched and linear isomer mixtures. As additional certified reference materials containing branched and linear isomers become commercially available, they will be incorporated into the analytical method.

Data Qualifiers

U – Analyte was not detected and is reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.

J – The reported result is an estimated value (e.g., matrix interference was observed, or the analyte was detected at a concentration outside the calibration range).

Sin Chii Chia, B.Sc.
schia@maxxam.ca
Office 905 817 5700

Maxxam Job: B7R2776 – Water Analysis

Sample Analysis

Samples were initially pre-screened and estimated concentrations were obtained so that appropriate sample volumes could be extracted on QC batches 5309101 (2017/12/27-2018/01/04) and 5310642 (2017/12/18-19). Due to high concentrations, the following samples were analyzed for selected analytes using reduced sample extraction volumes:

FRH293	*DOBNS15-004-SW-001*	*Perfluorohexanesulfonate (PFHxS), Perfluorooctanesulfonate (PFOS)*
FRH304	*DOBNS13-005-GW-053*	*All analytes*
FRH305	*DOBNS13-005-GW-953*	*All analytes*

Detection limits were adjusted accordingly.

Peak areas of the injection internal standard analytes were above the upper control limit (UCL) for the following sample on QC batch 5309101 (2017/12/27-2018/01/04):

FRH303 *DOBNS-RS-002*

Acceptable injection internal standard analyte peak areas were obtained when a second aliquot of the extract was analyzed.

Extracted Internal Standard Analytes

The extracted internal standard analyte $^{13}C_2$-Perfluorotetradecanoic acid ($^{13}C_2$-PFTeDA) is used to quantify native Perfluorotridecanoic acid (PFTrDA) & Perfluorotetradecanoic acid (PFTeDA). The recovery observed for this extracted internal standard analyte was below the defined lower control limit (LCL) for the following sample on QC batch 5310642 (2017/12/18-19):

FRH293 *DOBNS15-004-SW-001*

Results for the associated native analytes were reported from a reduced volume extract where acceptable extracted internal standard analyte recovery was obtained. Detection limits were adjusted accordingly.

Quantitation of PFAS

Many PFAS (e.g. PFOS) have several isomeric forms that may show up as separate or partially-merged peaks in the analytical chromatograms. These peaks will be integrated and the areas summed such that the result represents the concentration of the sum of the linear and branched isomers, per USEPA (2009). Instrumentation is calibrated using certified quantitative standards containing only the linear isomer for all target analytes, except Perfluorooctane sulfonate (PFOS) and Perfluorohexane sulfonate (PFHxS), which are calibrated using certified branched and linear isomer mixtures. As additional certified reference materials containing branched and linear isomers become commercially available, they will be incorporated into the analytical method.

Data Qualifiers

U – Analyte was not detected and is reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.

J – The reported result is an estimated value (e.g., matrix interference was observed, or the analyte was detected at a concentration outside the calibration range).

Sin Chii Chia, B.Sc.
schia@maxxam.ca
Office 905 817 5700

PROJECT NARRATIVE

Maxxam Analytics
Client Project #: M2032.0001 (SAVANNAH)

Client: Aerostar SES LLC
Client Project: M2032.0001 (SAVANNAH)

I. SAMPLE RECEIPT/ANALYSIS

a) Sample Listing

Maxxam ID	Client Sample ID	Date Sampled	Date Received	Date Prepped	Date Run	Initial Calibration
PFOS and PFOA in soil by SPE/LCMS						
FRH263	DOBNS11-001-SS-001	2017/11/30	2017/12/02	2017/12/11	2017/12/19	2017/12/19
FRH264	DOBNS11-001-SO-034	2017/11/30	2017/12/02	2017/12/12	2017/12/19	2017/12/19
FRH265	DOBNS10-001-SS-001	2017/11/30	2017/12/02	2017/12/12	2017/12/19	2017/12/19
FRH266	DOBNS10-001-SO-019	2017/11/30	2017/12/02	2017/12/12	2017/12/19	2017/12/19
FRH267	DOBNS10-003-SS-001	2017/11/30	2017/12/02	2017/12/12	2017/12/19	2017/12/19
FRH268	DOBNS10-003-SO-024	2017/11/30	2017/12/02	2017/12/12	2017/12/19	2017/12/19
FRH270	DOBNS10-002-SS-001	2017/11/30	2017/12/02	2017/12/12	2017/12/19	2017/12/19
FRH271	DOBNS10-002-SO-024	2017/11/30	2017/12/02	2017/12/12	2017/12/19	2017/12/19
FRH272	DOBNS10-002-SO-924	2017/11/30	2017/12/02	2017/12/12	2017/12/19	2017/12/19
FRH273	DOBNS08-003-SS-001	2017/11/30	2017/12/02	2017/12/12	2017/12/19	2017/12/19
FRH274	DOBNS08-003-SO-005	2017/11/30	2017/12/02	2017/12/12	2017/12/19	2017/12/19
FRH275	DOBNS08-001-SS-001	2017/11/30	2017/12/02	2017/12/12	2017/12/19	2017/12/19
FRH276	DOBNS08-001-SO-026	2017/11/30	2017/12/02	2017/12/12	2017/12/19	2017/12/19
FRH277	DOBNS08-002-SS-001	2017/12/01	2017/12/02	2017/12/12	2017/12/19	2017/12/19
FRH278	DOBNS08-002-SO-010	2017/12/01	2017/12/02	2017/12/12	2017/12/19	2017/12/19
FRH279	DOBNS08-004-SS-001	2017/12/01	2017/12/02	2017/12/12	2017/12/19	2017/12/19
FRH280	DOBNS08-004-SO-014	2017/12/01	2017/12/02	2017/12/12	2017/12/19	2017/12/19
FRH281	DOBNS08-005-SS-001	2017/12/01	2017/12/02	2017/12/12	2017/12/19	2017/12/19
FRH282	DOBNS08-005-SO-011	2017/12/01	2017/12/02	2017/12/12	2017/12/19	2017/12/19
FRH284	DOBNS08-006-SS-001	2017/12/01	2017/12/02	2017/12/12	2017/12/19	2017/12/19
FRH285	DOBNS08-006-SO-014	2017/12/01	2017/12/02	2017/12/12	2018/01/02	2018/01/02
FRH286	DOBNS01-004-SS-001	2017/12/01	2017/12/02	2017/12/12	2018/01/02	2018/01/02
FRH287	DOBNS01-004-SS-901	2017/12/01	2017/12/02	2017/12/12	2018/01/02	2018/01/02
FRH290	DOBNS14-002-SD-001	2017/11/29	2017/12/02	2017/12/12	2018/01/02	2018/01/02
FRH291	DOBNS16-004-SD-001	2017/11/29	2017/12/02	2017/12/12	2018/01/02	2018/01/02
FRH294	DOBNS15-004-SD-001	2017/11/29	2017/12/02	2017/12/12	2018/01/02	2018/01/02
FRH295	DOBNS14-001-SS-001	2017/11/28	2017/12/02	2017/12/12	2018/01/02	2018/01/02
FRH296	DOBNS14-001-SO-016	2017/11/28	2017/12/02	2017/12/12	2018/01/02	2018/01/02
FRH297	DOBNS14-001-SO-916	2017/11/28	2017/12/02	2017/12/12	2018/01/02	2018/01/02
FRH299	DOBNS14-003-SD-001	2017/11/28	2017/12/02	2017/12/12	2018/01/02	2018/01/02
FRH301	DOBNS13-005-SS-001	2017/11/29	2017/12/02	2017/12/12	2018/01/02	2018/01/02
FRH302	DOBNS13-005-SO-051	2017/11/29	2017/12/02	2017/12/12	2018/01/02	2018/01/02
FRH306	DOBNS11-002-SS-001	2017/11/29	2017/12/02	2017/12/12	2018/01/02	2018/01/02
FRH307	DOBNS11-002-SO-021	2017/11/29	2017/12/02	2017/12/12	2018/01/02	2018/01/02
FRH308	DOBNS11-003-SS-001	2017/11/29	2017/12/02	2017/12/12	2018/01/02	2018/01/02
FRH309	DOBNS11-003-SO-017	2017/11/29	2017/12/02	2017/12/12	2018/01/02	2018/01/02
PFOS and PFOA in water by SPE/LCMS						
FRH269	DOBNS-RS-003	2017/11/30	2017/12/02	2017/12/12	2017/12/19	2017/12/18-19
FRH283	DOBNS-RS-004	2017/12/01	2017/12/02	2017/12/12	2017/12/19	2017/12/18-19
FRH288	DOBNS14-002-SW-001	2017/11/29	2017/12/02	2017/12/12	2017/12/19	2017/12/18-19
FRH289	DOBNS14-002-SW-901	2017/11/29	2017/12/02	2017/12/12	2017/12/19	2017/12/18-19
FRH292	DOBNS16-004-SW-001	2017/11/29	2017/12/02	2017/12/12	2017/12/19	2017/12/18-19
FRH293	DOBNS15-004-SW-001	2017/11/29	2017/12/02	2017/12/12	2017/12/18	2017/12/18-19
FRH298	DOBNS14-003-SW-001	2017/11/28	2017/12/02	2017/12/11	2017/12/28	2017/12/27-2018/01/04
FRH300	DOBNS-RS-001	2017/11/28	2017/12/02	2017/12/11	2017/12/28	2017/12/27-2018/01/04
FRH303	DOBNS-RS-002	2017/11/29	2017/12/02	2017/12/11	2017/12/28	2017/12/27-2018/01/04

FRH304	DOBNS13-005-GW-053	2017/11/29	2017/12/02	2017/12/11	2017/12/28	2017/12/27-2018/01/04
FRH305	DOBNS13-005-GW-953	2017/11/29	2017/12/02	2017/12/11	2017/12/28	2017/12/27-2018/01/04

Run Date is defined as the date of injection of the last calibration standard (12 hours or less) prior to the samples analyzed within that run sequence. Therefore the time of calibration injection that defines the run date is always within 12 hours of the time of sample injection.

b) Shipping Problems: Samples were received with temperature less than 10 degrees Celsius. Cooler custody seals were present and intact.

c) Documentation Problems: none encountered

II. SAMPLE PREP:

No problems encountered

III. SAMPLE ANALYSIS:

See also comments within the appropriate Certificate of Analysis

a) Hold Times: all within recommended hold times

b) Instrument Calibration: all within control limits

c) Quality Control: All applicable QC meets control criteria, except where otherwise noted.

d) All analytes requiring manual intergration(s) are noted on the sample chromatograms

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for other than the conditions detailed above.

In addition, I certify, that to the best of my knowledge and belief, the data as reported are true and accurate. Release of the data contained in this data package has been authorized by the cognizant laboratory official or his/her designee, as verified by this signature.

Steph Pallen

Project Manager- Site Assessment and Remediation/ Ultra Trace

2018/01/12

Date

Prepared for: Aerostar SES LLC

Project: M2032.0001 (SAVANNAH)
DOBBINS ARB

Analytical Data Package
(Level IV)

Analysis: PFOS and PFOA in water and soil (Method 537 mod.)

Maxxam Job #: B7R6297

Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com

I hereby certify that to the best of my knowledge all analytical data presented in this report:

- Has been checked for completeness.
- Is accurate, legible and error free.
- Has been conducted in accordance with approved SOP's and that all deviations are clearly listed in the Case Narrative.
- This report has been generated in .pdf format.

Review Performed By:

Steph Pollen

Project Manager

A Bureau Veritas Group Company

Stephanie
Pollen
2018.01.23
10:21:06
-05'00'

Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com

Glossary of Terms

- ***Detection Limit (DL)*** this can also be called ***Method Detection Limit (MDL)***: The lowest concentration or amount of the target analyte that can be identified, measured, and reported with confidence that the analyte concentration is not a false positive value. (Clarification): The smallest analyte concentration that can be demonstrated to be different from zero or a blank concentration at the 99% level of confidence. At the DL, the false positive rate (Type I error) is 1%.

- ***Limit of Detection (LOD)***: An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte- and matrix-specific and may be laboratory-dependent. (Clarification): The smallest amount or concentration of a substance that must be present in a sample in order to be detected at a high level of confidence (99%). At the LOD, the false negative rate (Type II error) is 1%.

- ***Limits of Quantitation (LOQ)*** this can also be called ***Reporting Detection Limit (RDL)***: The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. (Clarification): The lowest concentration that produces a quantitative result within specified limits of precision and bias. For DoD projects, the LOQ shall be set at or above the concentration of the lowest initial calibration standard.

- ***Acceptance Criteria*** are values used by the laboratory to determine that a process is in control.

- ***Accuracy*** is the degree of agreement of a measured value with the true or expected value.

- ***Calibration Standards*** are a set of solutions containing the analytes of interest at a specified concentration.

- ***Calibration Verification Standard*** consists of a calibration standard solution of intermediate concentration (mid-point initial calibration level) used to access whether the initial calibration is still valid

- ***Certified Reference Material*** is a stable homogenous material that is certified by repetitive analysis from a supplier who is certified to generate said materials.

- ***Internal Standard*** a deuterated or ^{13}C-labelled analyte that is added to a sample extract prior to instrumental analysis to compensate for injection variability.
- ***Isomer*** is a member of a group of compounds that differ from each other only in the locations of a specific number of common substituent atoms or groups of atoms on the parent compound.
- ***Method Blank*** is a laboratory control sample using reagents that are known to be free of contamination.
- ***Precision*** is the degree of agreement between the data generated from repetitive measurements under specific conditions.
- ***Quality Assurance*** is a system of activities whose purpose is to provide the producer or user of a product with the assurance that the product meets a defined standard of quality.
- ***Quality Control*** is the overall system of activities whose purpose is to control the quality of a product so that it meets the needs of the end user.
- ***RSD*** is the relative standard deviation.
- ***Blank Spike*** is a laboratory control sample that has been fortified with native analytes of interest.
- ***Window Defining Mixture*** is a solution containing only the earliest and latest eluting congeners within each homologous group of target analytes on a specified GC column.
- ***RPD*** or Relative Percent Difference. A measure used to compare duplicate sample analysis.
- ***EMPC/NDR –*** Peak detected does not meet ratio criteria and has resulted in a higher detection limit.

1.0 Project Narrative

Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com

Maxxam Job: B7R6297 – Soil Analysis

Sample Analysis

Soil extracts were initially pre-screened and estimated concentrations were obtained so that samples could be appropriately diluted for analysis on QC batches 5317533 (2017/12/29-2018/01/02) and 5320644 (2018/01/02-15). Due to high concentrations, dilutions were required for selected analytes in the following samples:

FRZ751	*DOBNS01-001-SS-001*	*Perfluorooctanesulfonate (PFOS)*
FRZ754	*DOBNS01-003-SS-001*	*Perfluorooctanesulfonate (PFOS)*
FRZ759	*DOBNS13-004-SS-001*	*Perfluorooctanesulfonate (PFOS)*
FRZ784	*DOBNS06-002-SS-001*	*All analytes*
FRZ785	*DOBNS06-002-SO-030*	*Perfluorohexanoic acid (PFHxA)*
FRZ786	*DOBNS06-003-SS-001*	*All analytes*
FRZ787	*DOBNS06-003-SO-028*	*All analytes*
FRZ789	*DOBNS06-001-SS-001*	*All analytes*
FRZ794	*DOBNS05-001-SS-001*	*Perfluorooctanesulfonate (PFOS)*
FRZ798	*DOBNS05-002-SS-001*	*Perfluorooctanesulfonate (PFOS)*

Detection limits were adjusted accordingly.

Peak areas of injection internal standard analytes were above the defined upper control limit (UCL) for Standard 5 in the initial calibration (ICAL) on QC batch 5320644 (2018/01/02-15). Visual inspection of the vial resulted in observed evaporation of standard solution from the vial. Because quantitation is performed using isotope dilution and internal standard techniques, any apparent gains of the target compound that may occur during extract evaporation will be mirrored by a similar gain of the labeled internal standard, and as such can be accounted for and corrected. Therefore, the quantification of these target and extracted internal standard analytes is not affected by the high injection internal standard analyte peak areas.

Extracted Internal Standard Analytes

The extracted internal standard analytes $^{13}C_4$-Perfluorobutanoic acid ($^{13}C_4$-PFBA), $^{18}O_2$-Perfluorohexanesulfonate ($^{18}O_2$-PFHxS), $^{13}C_2$-Perfluoroundecanoic acid ($^{13}C_2$-PFUnA), $^{13}C_2$-Perfluorotetradecanoic acid ($^{13}C_2$-PFTeDA), $^{13}C_2$-6:2 Fluorotelomersulfonate ($^{13}C_2$-6:2FTS) and $^{13}C_2$-8:2 Fluorotelomersulfonate ($^{13}C_2$-8:2FTS) are used to quantify native Perfluorobutanoic acid (PFBA), Perfluorohexanesulfonate (PFHxS), Perfluoroundecanoic acid (PFUnA), Perfluorotridecanoic acid (PFTrDA) & Perfluorotetradecanoic acid (PFTeDA), 6:2 Fluorotelomersulfonate (6:2FTS) and 8:2 Fluorotelomersulfonate (8:2FTS) respectively. The recoveries observed for selected extracted internal standard analytes were below the defined lower control limit (LCL) for the following samples:

FRZ764	*DOBNS07-006-SO-020*	*($^{13}C_4$-PFBA, $^{18}O_2$-PFHxS, $^{13}C_2$-PFUnA, $^{13}C_2$-PFTeDA, $^{13}C_2$-6:2FTS, $^{13}C_2$-8:2FTS)*
FRZ777	*DOBNS07-002-SO-018*	*($^{13}C_2$-PFTeDA)*
FRZ785	*DOBNS06-002-SO-030*	*($^{13}C_2$-PFTeDA)*
FRZ795	*DOBNS05-001-SO-028*	*($^{13}C_4$-PFBA)*

Results for the associated native analytes were reported from diluted extracts where acceptable extracted analyte recoveries were obtained. Detection limits were adjusted accordingly.

Quantitation of PFAS

Many PFAS (e.g. PFOS) have several isomeric forms that may show up as separate or partially-merged peaks in the analytical chromatograms. These peaks will be integrated and the areas summed such that the result represents the concentration of the sum of the linear and branched isomers, per USEPA (2009). Instrumentation is calibrated using certified quantitative standards containing only the linear isomer for all target analytes, except Perfluorooctane sulfonate (PFOS) and Perfluorohexane sulfonate (PFHxS), which are calibrated using certified branched and linear isomer mixtures. As additional certified reference materials containing branched and linear isomers become commercially available, they will be incorporated into the analytical method.

Data Qualifiers

U – Analyte was not detected and is reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.

J – The reported result is an estimated value (e.g., matrix interference was observed, or the analyte was detected at a concentration outside the calibration range).

Sin Chii Chia, B.Sc.
schia@maxxam.ca
Office 905 817 5700

Maxxam Job: B7R6297 – Water Analysis

Sample Analysis

Samples were initially pre-screened and estimated concentrations were obtained so that appropriate sample volumes could be extracted on QC batches 5318374 (2018/12/29) and 5320438 (2018/01/04). Due to high concentrations, the following samples were analyzed using reduced sample extraction volumes:

FRZ792	*DOBNS06-001-GW-032*
FRZ793	*DOBNS06-001-GW-932*

Detection limits were adjusted accordingly.

Quantitation of PFAS

Many PFAS (e.g. PFOS) have several isomeric forms that may show up as separate or partially-merged peaks in the analytical chromatograms. These peaks will be integrated and the areas summed such that the result represents the concentration of the sum of the linear and branched isomers, per USEPA (2009). Instrumentation is calibrated using certified quantitative standards containing only the linear isomer for all target analytes, except Perfluorooctane sulfonate (PFOS) and Perfluorohexane sulfonate (PFHxS), which are calibrated using certified branched and linear isomer mixtures. As additional certified reference materials containing branched and linear isomers become commercially available, they will be incorporated into the analytical method.

Data Qualifiers

U – Analyte was not detected and is reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.

J – The reported result is an estimated value (e.g., matrix interference was observed, or the analyte was detected at a concentration outside the calibration range).

Sin Chii Chia, B.Sc.
schia@maxxam.ca
Office 905 817 5700

PROJECT NARRATIVE

Maxxam Analytics
Client Project #: M2032.0001 (SAVANNAH)

Client: Aerostar SES LLC
Client Project: M2032.0001 (SAVANNAH)

I. SAMPLE RECEIPT/ANALYSIS

a) Sample Listing

Maxxam ID	Client Sample ID	Date Sampled	Date Received	Date Prepped	Date Run	Initial Calibration
PFOS and PFOA in soil by SPE/LCMS						
FRZ751	DOBNS01-001-SS-001	2017/12/02	2017/12/06	2017/12/15	2017/12/29	2017/12/29-2018/01/02
FRZ753	DOBNS01-001-SO-024	2017/12/02	2017/12/06	2017/12/15	2017/12/29	2017/12/29-2018/01/02
FRZ754	DOBNS01-003-SS-001	2017/12/02	2017/12/06	2017/12/15	2017/12/29	2017/12/29-2018/01/02
FRZ755	DOBNS01-003-SO-024	2017/12/02	2017/12/06	2017/12/15	2017/12/29	2017/12/29-2018/01/02
FRZ756	DOBNS01-002-SS-001	2017/12/02	2017/12/06	2017/12/15	2017/12/29	2017/12/29-2018/01/02
FRZ757	DOBNS01-002-SS-901	2017/12/02	2017/12/06	2017/12/15	2017/12/29	2017/12/29-2018/01/02
FRZ758	DOBNS01-002-SO-029	2017/12/02	2017/12/06	2017/12/15	2017/12/29	2017/12/29-2018/01/02
FRZ759	DOBNS13-004-SS-001	2017/12/02	2017/12/06	2017/12/15	2017/12/29	2017/12/29-2018/01/02
FRZ760	DOBNS13-004-SO-051	2017/12/02	2017/12/06	2017/12/18	2018/01/02	2018/01/02-15
FRZ761	DOBNS07-005-SS-001	2017/12/02	2017/12/06	2017/12/15	2017/12/29	2017/12/29-2018/01/02
FRZ762	DOBNS07-005-SO-024	2017/12/02	2017/12/06	2017/12/15	2017/12/29	2017/12/29-2018/01/02
FRZ763	DOBNS07-006-SS-001	2017/12/02	2017/12/06	2017/12/15	2017/12/29	2017/12/29-2018/01/02
FRZ764	DOBNS07-006-SO-020	2017/12/02	2017/12/06	2017/12/15	2017/12/29	2017/12/29-2018/01/02
FRZ766	DOBNS07-007-SS-001	2017/12/02	2017/12/06	2017/12/15	2017/12/29	2017/12/29-2018/01/02
FRZ767	DOBNS07-007-SO-019	2017/12/02	2017/12/06	2017/12/15	2017/12/29	2017/12/29-2018/01/02
FRZ769	DOBNS07-008-SS-001	2017/12/03	2017/12/06	2017/12/15	2017/12/29	2017/12/29-2018/01/02
FRZ770	DOBNS07-008-SO-025	2017/12/03	2017/12/06	2017/12/15	2017/12/29	2017/12/29-2018/01/02
FRZ771	DOBNS07-008-SO-925	2017/12/03	2017/12/06	2017/12/15	2017/12/29	2017/12/29-2018/01/02
FRZ772	DOBNS07-004-SS-001	2017/12/03	2017/12/06	2017/12/15	2017/12/29	2017/12/29-2018/01/02
FRZ773	DOBNS07-001-SS-001	2017/12/03	2017/12/06	2017/12/15	2017/12/29	2017/12/29-2018/01/02
FRZ774	DOBNS07-001-SS-901	2017/12/03	2017/12/06	2017/12/15	2017/12/29	2017/12/29-2018/01/02
FRZ775	DOBNS07-001-SO-015	2017/12/03	2017/12/06	2017/12/18	2018/01/02	2018/01/02-15
FRZ776	DOBNS07-002-SS-001	2017/12/03	2017/12/06	2017/12/18	2018/01/02	2018/01/02-15
FRZ777	DOBNS07-002-SO-018	2017/12/03	2017/12/06	2017/12/18	2018/01/02	2018/01/02-15
FRZ780	DOBNS07-003-SS-001	2017/12/03	2017/12/06	2017/12/18	2018/01/02	2018/01/02-15
FRZ781	DOBNS07-003-SO-020	2017/12/03	2017/12/06	2017/12/18	2018/01/02	2018/01/02-15
FRZ783	DOBNS07-004-SO-020	2017/12/03	2017/12/06	2017/12/18	2018/01/02	2018/01/02-15
FRZ784	DOBNS06-002-SS-001	2017/12/04	2017/12/06	2017/12/18	2018/01/02	2018/01/02-15
FRZ785	DOBNS06-002-SO-030	2017/12/04	2017/12/06	2017/12/18	2018/01/02	2018/01/02-15
FRZ786	DOBNS06-003-SS-001	2017/12/04	2017/12/06	2017/12/18	2018/01/02	2018/01/02-15
FRZ787	DOBNS06-003-SO-028	2017/12/04	2017/12/06	2017/12/18	2018/01/02	2018/01/02-15
FRZ789	DOBNS06-001-SS-001	2017/12/05	2017/12/06	2017/12/18	2018/01/02	2018/01/02-15
FRZ790	DOBNS06-001-SO-028	2017/12/05	2017/12/06	2017/12/18	2018/01/02	2018/01/02-15
FRZ794	DOBNS05-001-SS-001	2017/12/05	2017/12/06	2017/12/18	2018/01/02	2018/01/02-15
FRZ795	DOBNS05-001-SO-028	2017/12/05	2017/12/06	2017/12/18	2018/01/15	2018/01/02-15
FRZ796	DOBNS05-001-SO-928	2017/12/05	2017/12/06	2017/12/18	2018/01/02	2018/01/02-15
FRZ798	DOBNS05-002-SS-001	2017/12/05	2017/12/06	2017/12/18	2018/01/02	2018/01/02-15
FRZ799	DOBNS05-002-SO-033	2017/12/05	2017/12/06	2017/12/18	2018/01/02	2018/01/02-15
FRZ800	DOBNS05-003-SS-001	2017/12/05	2017/12/06	2017/12/18	2018/01/02	2018/01/02-15
PFOS and PFOA in water by SPE/LCMS						
FRZ752	DOBNS-RS-005	2017/12/02	2017/12/06	2017/12/15	2017/12/29	2017/12/29
FRZ765	DOBNS07-006-GW-025	2017/12/02	2017/12/06	2017/12/15	2017/12/29	2017/12/29
FRZ768	DOBNS07-007-GW-029	2017/12/03	2017/12/06	2017/12/15	2017/12/29	2017/12/29
FRZ778	DOBNS07-002-GW-024	2017/12/03	2017/12/06	2017/12/15	2017/12/29	2017/12/29
FRZ779	DOBNS-RS-006	2017/12/03	2017/12/06	2017/12/15	2017/12/29	2017/12/29
FRZ782	DOBNS07-003-GW-024	2017/12/03	2017/12/06	2017/12/15	2017/12/29	2017/12/29

FRZ788	DOBNS10-002-GW-025	2017/12/04	2017/12/06	2017/12/18	2018/01/04	2018/01/04
FRZ791	DOBNS-RS-007	2017/12/04	2017/12/06	2017/12/18	2018/01/04	2018/01/04
FRZ792	DOBNS06-001-GW-032	2017/12/05	2017/12/06	2017/12/15	2017/12/29	2017/12/29
FRZ793	DOBNS06-001-GW-932	2017/12/05	2017/12/06	2017/12/15	2017/12/29	2017/12/29
FRZ797	DOBNS-RS-008	2017/12/05	2017/12/06	2017/12/15	2017/12/29	2017/12/29
FRZ802	DOBNS07-005-GW-025	2017/12/05	2017/12/06	2017/12/15	2017/12/29	2017/12/29
FRZ803	DOBNS07-008-GW-029	2017/12/05	2017/12/06	2017/12/15	2017/12/29	2017/12/29
FRZ804	DOBNS07-004-GW-025	2017/12/05	2017/12/06	2017/12/15	2017/12/29	2017/12/29
FRZ805	DOBNS07-001-GW-020	2017/12/05	2017/12/06	2017/12/15	2017/12/29	2017/12/29

Run Date is defined as the date of injection of the last calibration standard (12 hours or less) prior to the samples analyzed within that run sequence. Therefore the time of calibration injection that defines the run date is always within 12 hours of the time of sample injection.

b) Shipping Problems: Samples were received with temperature less than 10 degrees Celsius. Cooler custody seals were present and intact.

c) Documentation Problems: Client cancelled analysis for DOBNS05-003-SO-028 (FRZ801).

II. SAMPLE PREP:

No problems encountered

III. SAMPLE ANALYSIS:

See also comments within the appropriate Certificate of Analysis

a) Hold Times: all within recommended hold times

b) Instrument Calibration: all within control limits

c) Quality Control: All applicable QC meets control criteria, except where otherwise noted.

d) All analytes requiring manual intergration(s) are noted on the sample chromatograms

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for other than the conditions detailed above.

In addition, I certify, that to the best of my knowledge and belief, the data as reported are true and accurate. Release of the data contained in this data package has been authorized by the cognizant laboratory official or his/her designee, as verified by this signature.

Steph Pollen

Project Manager- Site Assessment
and Remediation/ Ultra Trace

2018/01/23

Date

Prepared for: Aerostar SES LLC

Project: M2032.0001 (SAVANNAH)
DOBBINS ARB

Analytical Data Package
(Level IV)

Analysis: PFOS and PFOA in water and soil (Method 537 mod.)

Maxxam Job #: B7S5172

Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com

I hereby certify that to the best of my knowledge all analytical data presented in this report:

- Has been checked for completeness.
- Is accurate, legible and error free.
- Has been conducted in accordance with approved SOP's and that all deviations are clearly listed in the Case Narrative.
- This report has been generated in .pdf format.

Review Performed By:

Steph Pollen

Project Manager

Maxxam
A Bureau Veritas Group Company

Stephanie
Pollen
2018.02.09
11:35:16 -05'00'

Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com

Glossary of Terms

- ***Detection Limit (DL)*** this can also be called ***Method Detection Limit (MDL***): The lowest concentration or amount of the target analyte that can be identified, measured, and reported with confidence that the analyte concentration is not a false positive value. (Clarification): The smallest analyte concentration that can be demonstrated to be different from zero or a blank concentration at the 99% level of confidence. At the DL, the false positive rate (Type I error) is 1%.

- ***Limit of Detection (LOD***): An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte- and matrix-specific and may be laboratory-dependent. (Clarification): The smallest amount or concentration of a substance that must be present in a sample in order to be detected at a high level of confidence (99%). At the LOD, the false negative rate (Type II error) is 1%.

- ***Limits of Quantitation (LOQ)*** this can also be called ***Reporting Detection Limit (RDL)***: The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. (Clarification): The lowest concentration that produces a quantitative result within specified limits of precision and bias. For DoD projects, the LOQ shall be set at or above the concentration of the lowest initial calibration standard.

- ***Acceptance Criteria*** are values used by the laboratory to determine that a process is in control.

- ***Accuracy*** is the degree of agreement of a measured value with the true or expected value.

- ***Calibration Standards*** are a set of solutions containing the analytes of interest at a specified concentration.

- ***Calibration Verification Standard*** consists of a calibration standard solution of intermediate concentration (mid-point initial calibration level) used to access whether the initial calibration is still valid

- ***Certified Reference Material*** is a stable homogenous material that is certified by repetitive analysis from a supplier who is certified to generate said materials.

- ***Internal Standard*** a deuterated or ^{13}C-labelled analyte that is added to a sample extract prior to instrumental analysis to compensate for injection variability.

- ***Isomer*** is a member of a group of compounds that differ from each other only in the locations of a specific number of common substituent atoms or groups of atoms on the parent compound.

- ***Method Blank*** is a laboratory control sample using reagents that are known to be free of contamination.

- ***Precision*** is the degree of agreement between the data generated from repetitive measurements under specific conditions.

- ***Quality Assurance*** is a system of activities whose purpose is to provide the producer or user of a product with the assurance that the product meets a defined standard of quality.

- ***Quality Control*** is the overall system of activities whose purpose is to control the quality of a product so that it meets the needs of the end user.

- ***RSD*** is the relative standard deviation.

- ***Blank Spike*** is a laboratory control sample that has been fortified with native analytes of interest.

- ***Window Defining Mixture*** is a solution containing only the earliest and latest eluting congeners within each homologous group of target analytes on a specified GC column.

- ***RPD*** or Relative Percent Difference. A measure used to compare duplicate sample analysis.

- ***EMPC/NDR –*** Peak detected does not meet ratio criteria and has resulted in a higher detection limit.

1.0 Project Narrative

Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com

Maxxam Job: B7S5172 – Soil Analysis

Sample Analysis

Soil extracts were initially pre-screened and estimated concentrations were obtained so that samples could be appropriately diluted for analysis on QC batches 5335906 (2018/01/17-18), 5336692 (2018/01/13-15) and 5338469 (2018/01/18-22). Due to high concentrations, dilutions were required for selected analytes in the following samples:

FTT898	*DOBNS09-001-SO-009*	*Perfluorooctanesulfonate (PFOS)*
FTT899	*DOBNS09-002-SS-001*	*Perfluorooctanesulfonate (PFOS)*
FTT900	*DOBNS09-002-SS-901*	*Perfluorooctanesulfonate (PFOS)*
FTT902	*DOBNS09-003-SS-001*	*Perfluorooctanesulfonate (PFOS)*
FTT904	*DOBNS03-004-SS-001*	*Perfluorooctanesulfonate (PFOS), 6:2 Fluorotelomersulfonate (6:2FTS), 8:2 Fluorotelomersulfonate (8:2FTS)*
FTT905	*DOBNS03-004-SO-020*	*6:2 Fluorotelomersulfonate (6:2FTS)*
FTT906	*DOBNS13-003-SS-001*	*All analytes*
FTT908	*DOBNS13-002-SS-001*	*Perfluorooctanesulfonate (PFOS)*
FTT921	*DOBNS02-003-SS-001*	*Perfluorooctanesulfonate (PFOS)*
FTT925	*DOBNS02-001-SS-001*	*Perfluorooctanesulfonate (PFOS)*
FTT926	*DOBNS02-001-SO-010*	*Perfluorohexanesulfonate (PFHxS), 6:2 Fluorotelomersulfonate (6:2FTS)*
FTT927	*DOBNS02-001-SO-910*	*Perfluorohexanesulfonate (PFHxS), 6:2 Fluorotelomersulfonate (6:2FTS)*
FTT928	*DOBNS02-003-SO-005*	*All analytes*
FTT948	*DOBNS12-002-SS-901*	*6:2 Fluorotelomersulfonate (6:2FTS)*
FTT950	*DOBNS12-002-SO-009*	*Perfluorooctanesulfonate (PFOS), 8:2 Fluorotelomersulfonate (8:2FTS)*
FTT951	*DOBNS12-003-SS-001*	*Perfluorooctanesulfonate (PFOS)*
FTT952	*DOBNS12-003-SO-007*	*Perfluorooctanesulfonate (PFOS)*
FTT953	*DOBNS12-003-SO-907*	*Perfluorooctanesulfonate (PFOS)*
FTT957	*DOBNS16-002-SS-001*	*Perfluorooctanesulfonate (PFOS)*
FTT958	*DOBNS16-002-SO-006*	*Perfluorooctanesulfonate (PFOS), Perfluorooctane sulfonamide (PFOSA)*
FTT981	*DOBNS13-001-SS-001*	*All analytes*
FTT988	*DOBNS04-001-SS-001*	*Perfluorooctanesulfonate (PFOS)*
FTT989	*DOBNS04-001-SS-901*	*Perfluorooctanesulfonate (PFOS)*

Detection limits were adjusted accordingly.

Peak areas of injection internal standard analytes were above the defined upper control limit (UCL) for Standard 5 in the initial calibration (ICAL) and the following samples on QC batch 5335906 (2018/01/17-18):

FTT924	*DOBNS02-002-SO-036*
FTT925	*DOBNS02-001-SS-001*
FTT926	*DOBNS02-001-SO-010*
FTT927	*DOBNS02-001-SO-910*
FTT932	*DOBNS12-001-SO-024*
FTT947	*DOBNS12-002-SS-001*

Vials were visually inspected and evaporation of vial contents was observed. Because quantitation is performed using isotope dilution and internal standard techniques, any apparent gains of the target compounds that may occur during extract evaporation will be mirrored by a similar gain of the labeled internal standards, and as such can be accounted for and corrected. Therefore, the quantification of these target and extracted internal standard analytes is not affected by the high injection internal standard analyte peak areas.

QC Samples

Matrix Spike and Matrix Spike Duplicate (MS/MSD) was performed on sample FTT928 *(DOBNS02-003-SO-005)* on QC batch 5335906 (2018/01/17-18) but not analyzed due to high concentrations of target analytes in the native sample.

Extracted Internal Standard Analytes

The extracted internal standard analytes $^{13}C_2$-Perfluoroundecanoic acid ($^{13}C_2$-PFUnA), $^{13}C_2$-Perfluorododecanoic acid ($^{13}C_2$-PFDoA), $^{13}C_2$-Perfluorotetradecanoic acid ($^{13}C_2$-PFTeDA) and $^{13}C_8$-Perfluorooctane sulfonamide ($^{13}C_8$-PFOSA) are used to quantify native Perfluoroundecanoic acid (PFUnA), Perfluorododecanoic acid (PFDoA), Perfluorotridecanoic acid (PFTrDA) & Perfluorotetradecanoic acid (PFTeDA) and Perfluorooctane sulfonamide (PFOSA) respectively. The recoveries observed for selected extracted internal standard analytes were below the defined lower control limit (LCL) for the following samples:

FTT925	*DOBNS02-001-SS-001*	*($^{13}C_2$-PFTeDA)*
FTT947	*DOBNS12-002-SS-001*	*($^{13}C_2$-PFTeDA)*
FTT948	*DOBNS12-002-SS-901*	*($^{13}C_2$-PFTeDA)*
FTT951	*DOBNS12-003-SS-001*	*($^{13}C_2$-PFUnA, $^{13}C_2$-PFDoA, $^{13}C_2$-PFTeDA, $^{13}C_8$-PFOSA)*
FTT988	*DOBNS04-001-SS-001*	*($^{13}C_2$-PFTeDA)*
FTT989	*DOBNS04-001-SS-901*	*($^{13}C_2$-PFTeDA)*
FTT992	*DOBNS04-003-SO-26*	*($^{13}C_2$-PFTeDA)*
FTT994	*DOBNS04-002-SO-030*	*($^{13}C_2$-PFTeDA)*

In addition, recoveries for all extracted internal standard analytes were below the defined lower control limit (LCL) for the following samples:

FTT961	*DOBNS16-001-SO-006*
FTT982	*DOBNS13-001-SO-047*

Results for the associated native analytes were reported from diluted extracts where acceptable extracted internal standard analyte recoveries were obtained. Detection limits were adjusted accordingly.

Quantitation of PFAS

Many PFAS (e.g. PFOS) have several isomeric forms that may show up as separate or partially-merged peaks in the analytical chromatograms. These peaks will be integrated and the areas summed such that the result represents the concentration of the sum of the linear and branched isomers, per USEPA (2009). Instrumentation is calibrated using certified quantitative standards containing only the linear isomer for all target analytes, except Perfluorooctane sulfonate (PFOS) and Perfluorohexane sulfonate (PFHxS), which are calibrated using certified branched and linear isomer mixtures. As additional certified reference materials containing branched and linear isomers become commercially available, they will be incorporated into the analytical method.

Data Qualifiers

U – Analyte was not detected and is reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.

J – The reported result is an estimated value (e.g., matrix interference was observed, or the analyte was detected at a concentration outside the calibration range).

Sin Chii Chia, B.Sc.
schia@maxxam.ca
Office 905 817 5700

Maxxam Job: B7S5172 – Water Analysis

Sample Analysis

Samples were initially pre-screened and estimated concentrations were obtained so that appropriate sample volumes could be extracted on QC batches 5325294 (2018/01/04), 5326613 (2018/01/17-18), 5329131 (2018/01/15), 5330618 (2018/01/13), 5330648 (2018/01/16), 5332305 (2018/01/16), 5333738 (2018/01/17-19) and 5333749 (2018/01/17-19). Due to high concentrations, the following samples were analyzed for selected analytes using reduced sample extraction volumes:

FTT911	*DOBNS12-001-GW-024*	*Perfluorohexanoic acid (PFHxA), Perfluorohexanesulfonate (PFHxS)*
FTT912	*DOBNS16-001-GW-012*	*All analytes*
FTT914	*DOBNS16-003-GW-020*	*All analytes*
FTT915	*DOBNS16-002-GW-015*	*All analytes*
FTT916	*DOBNS14-D3-W24-GW-015*	*Perfluorohexanesulfonate (PFHxS), Perfluorooctanesulfonate (PFOS)*
FTT917	*DOBNS04-001-GW-030*	*All analytes*
FTT923	*DOBNS02-002-GW-039*	*All analytes*
FTT942	*DOBNS08-004-GW-016*	*Perfluoropentanoic acid (PFPeA), Perfluorohexanoic acid (PFHxA)*
FTT943	*DOBNS08-006-GW-015*	*All analytes*
FTT962	*DOBNS05-002-GW-038*	*Perfluorooctanesulfonate (PFOS)*
FTT963	*DOBNS05-002-GW-938*	*Perfluorooctanesulfonate (PFOS)*
FTT964	*DOBNS06-002-GW-038*	*All analytes*
FTT965	*DOBNS06-003-GW-036*	*All analytes*
FTT966	*DOBNS02-D3-W4-GW-013*	*All analytes*
FTT967	*DOBNS13-004-GW-052*	*All analytes*
FTT968	*DOBNS01-002-GW-030*	*All analytes*
FTT969	*DOBNS01-001-GW-025*	*All analytes*
FTT970	*DOBNS01-003-GW-025*	*Perfluorohexanesulfonate (PFHxS), Perfluorooctanoic acid (PFOA)*
FTT974	*DOBNS14-001-GW-012*	*All analytes*
FTT980	*DOBNS15-001-GW-011*	*Perfluorohexanesulfonate (PFHxS), Perfluorooctanesulfonate (PFOS), 6:2 Fluorotelomersulfonate (6:2FTS)*
FTT983	*DOBNS09-003-GW-042*	*All analytes*
FTT984	*DOBNS09-003-GW-942*	*All analytes*
FTT985	*DOBNS09-002-GW-044*	*All analytes*
FTT987	*DOBNS04-003-GW-015*	*All analytes*

Detection limits were adjusted accordingly.

In addition, the following samples were analyzed by high level analysis with serial dilution for selected analytes on QC batch 5327629 (2018/01/26):

FTT964	*DOBNS06-002-GW-038*	*Perfluorohexanoic acid (PFHxA)*
FTT965	*DOBNS06-003-GW-036*	*Perfluorohexanesulfonate (PFHxS)*

These samples were extracted within method defined hold time, but analyzed past the extract hold time. Because of their chemical structures, per- and polyfluorinated alkyl substances (PFAS) are chemically and biologically stable. This would suggest the hold time exceedance would not have a significant impact on the data quality. Detection limits were adjusted accordingly for these analytes.

Perfluorohexanesulfonate (PFHxS), Perfluorooctanesulfonate (PFOS), Perfluorodecanesulfonate (PFDS), Perfluorododecanoic acid (PFDoA), Perfluorotridecanoic acid (PFTrDA) and Perfluorotetradecanoic acid (PFTeDA) were detected at concentrations above the method defined upper limit of control (UCL) in the Instrument Blank (IB) that was analyzed after the MS/MSD on QC batch 5326613 (2018/01/17-18). These analytes were not detected in the sample that was analyzed immediately after this IB (FTT883, *DOBNS-RS-012*) indicating that there was no analyte carryover to subsequent samples.

6:2 Fluorotelomersulfonate (6:2FTS) was detected at concentrations above the method defined upper limit of control (UCL) in the Instrument Blanks (IBs) and Method Blank (Blank) on QC batches 5326613 (2018/01/17-18) and 5333749 (2018/01/17-19). Results for samples containing concentrations greater than 10 times the concentration in the Method Blank were reported. All other samples were re-extracted and re-analyzed for this analyte on QC batches 5361235 (2018/01/22) and 5364029 (2018/01/23), past the method defined hold time. Because of their chemical structures, per- and polyfluorinated alkyl substances (PFAS) are chemically and biologically stable in the environment and resist typical environmental degradation processes. This would suggest the hold time exceedance would not have a significant impact on the data quality.

Due to a typographical error, sample FTT917 *(DOBNS04-001-GW-030)* was entered as an undiluted extract in the analytical sequence on QC batch 5333738 (2018/01/17-19). The correct dilution factor (2x) was applied during data processing. There is no impact on data quality.

Quantitation of PFAS

Many PFAS (e.g. PFOS) have several isomeric forms that may show up as separate or partially-merged peaks in the analytical chromatograms. These peaks will be integrated and the areas summed such that the result represents the concentration of the sum of the linear and branched isomers, per USEPA (2009). Instrumentation is calibrated using certified quantitative standards containing only the linear isomer for all target analytes, except Perfluorooctane sulfonate (PFOS) and Perfluorohexane sulfonate (PFHxS), which are calibrated using certified branched and linear isomer mixtures. As additional certified reference materials containing branched and linear isomers become commercially available, they will be incorporated into the analytical method.

Data Qualifiers

U – Analyte was not detected and is reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.

J – The reported result is an estimated value (e.g., matrix interference was observed, or the analyte was detected at a concentration outside the calibration range).

Sin Chii Chia, B.Sc.
schia@maxxam.ca
Office 905 817 5700

PROJECT NARRATIVE

Maxxam Analytics
Client Project #: M2032.0001 (SAVANNAH)

Client: Aerostar SES LLC
Client Project: M2032.0001 (SAVANNAH)

I. SAMPLE RECEIPT/ANALYSIS

a) Sample Listing

Maxxam ID	Client Sample ID	Date Sampled	Date Received	Date Prepped	Date Run	Initial Calibration
PFOS and PFOA in soil by SPE/LCMS						
FTT882	DOBNS03-001-SS-001	2017/12/10	2017/12/15	2018/01/02	2018/01/13	2018/01/13-15
FTT884	DOBNS03-001-SO-020	2017/12/10	2017/12/15	2018/01/02	2018/01/13	2018/01/13-15
FTT885	DOBNS03-002-SS-001	2017/12/10	2017/12/15	2018/01/02	2018/01/13	2018/01/13-15
FTT886	DOBNS03-002-SO-024	2017/12/10	2017/12/15	2018/01/02	2018/01/13	2018/01/13-15
FTT887	DOBNS03-003-SS-001	2017/12/10	2017/12/15	2018/01/02	2018/01/13	2018/01/13-15
FTT888	DOBNS03-003-SO-015	2017/12/10	2017/12/15	2018/01/02	2018/01/13	2018/01/13-15
FTT889	DOBNS15-003-SS-001	2017/12/10	2017/12/15	2018/01/02	2018/01/13	2018/01/13-15
FTT890	DOBNS15-003-SO-005	2017/12/10	2017/12/15	2018/01/02	2018/01/13	2018/01/13-15
FTT891	DOBNS15-001-SS-001	2017/12/10	2017/12/15	2018/01/02	2018/01/13	2018/01/13-15
FTT892	DOBNS15-001-SS-901	2017/12/10	2017/12/15	2018/01/02	2018/01/13	2018/01/13-15
FTT893	DOBNS15-001-SO-008	2017/12/10	2017/12/15	2018/01/02	2018/01/13	2018/01/13-15
FTT894	DOBNS15-002-SS-001	2017/12/11	2017/12/15	2018/01/03	2018/01/18	2018/01/18-22
FTT895	DOBNS15-002-SO-005	2017/12/11	2017/12/15	2018/01/03	2018/01/18	2018/01/18-22
FTT897	DOBNS09-001-SS-001	2017/12/11	2017/12/15	2018/01/03	2018/01/18	2018/01/18-22
FTT898	DOBNS09-001-SO-009	2017/12/11	2017/12/15	2018/01/03	2018/01/18	2018/01/18-22
FTT899	DOBNS09-002-SS-001	2017/12/11	2017/12/15	2018/01/03	2018/01/18	2018/01/18-22
FTT900	DOBNS09-002-SS-901	2017/12/11	2017/12/15	2018/01/03	2018/01/18	2018/01/18-22
FTT901	DOBNS09-002-SO-037	2017/12/11	2017/12/15	2018/01/03	2018/01/18	2018/01/18-22
FTT902	DOBNS09-003-SS-001	2017/12/11	2017/12/15	2018/01/03	2018/01/18	2018/01/18-22
FTT903	DOBNS09-003-SO-037	2017/12/11	2017/12/15	2018/01/03	2018/01/18	2018/01/18-22
FTT904	DOBNS03-004-SS-001	2017/12/12	2017/12/15	2018/01/03	2018/01/18	2018/01/18-22
FTT905	DOBNS03-004-SO-020	2017/12/12	2017/12/15	2018/01/03	2018/01/18	2018/01/18-22
FTT906	DOBNS13-003-SS-001	2017/12/12	2017/12/15	2018/01/03	2018/01/18	2018/01/18-22
FTT907	DOBNS13-003-SO-048	2017/12/12	2017/12/15	2018/01/03	2018/01/18	2018/01/18-22
FTT908	DOBNS13-002-SS-001	2017/12/12	2017/12/15	2018/01/03	2018/01/18	2018/01/18-22
FTT909	DOBNS13-002-SO-034	2017/12/12	2017/12/15	2018/01/03	2018/01/18	2018/01/18-22
FTT921	DOBNS02-003-SS-001	2017/12/05	2017/12/15	2017/12/30	2018/01/17	2018/01/17-18
FTT922	DOBNS02-002-SS-001	2017/12/06	2017/12/15	2017/12/30	2018/01/17	2018/01/17-18
FTT924	DOBNS02-002-SO-036	2017/12/06	2017/12/15	2017/12/30	2018/01/17	2018/01/17-18
FTT925	DOBNS02-001-SS-001	2017/12/06	2017/12/15	2017/12/30	2018/01/17	2018/01/17-18
FTT926	DOBNS02-001-SO-010	2017/12/06	2017/12/15	2017/12/30	2018/01/17	2018/01/17-18
FTT927	DOBNS02-001-SO-910	2017/12/06	2017/12/15	2017/12/30	2018/01/17	2018/01/17-18
FTT928	DOBNS02-003-SO-005	2017/12/06	2017/12/15	2017/12/30	2018/01/17	2018/01/17-18
FTT930	DOBNS12-001-SS-001	2017/12/07	2017/12/15	2017/12/30	2018/01/17	2018/01/18-22
FTT932	DOBNS12-001-SO-024	2017/12/07	2017/12/15	2017/12/30	2018/01/17	2018/01/17-18
FTT947	DOBNS12-002-SS-001	2017/12/07	2017/12/15	2017/12/30	2018/01/17	2018/01/17-18
FTT948	DOBNS12-002-SS-901	2017/12/07	2017/12/15	2017/12/30	2018/01/17	2018/01/17-18
FTT950	DOBNS12-002-SO-009	2017/12/07	2017/12/15	2017/12/30	2018/01/17	2018/01/17-18
FTT951	DOBNS12-003-SS-001	2017/12/07	2017/12/15	2017/12/30	2018/01/17	2018/01/17-18
FTT952	DOBNS12-003-SO-007	2017/12/07	2017/12/15	2017/12/30	2018/01/17	2018/01/17-18
FTT953	DOBNS12-003-SO-907	2017/12/07	2017/12/15	2017/12/30	2018/01/17	2018/01/17-18
FTT954	DOBNS05-003-SO-035	2017/12/07	2017/12/15	2018/01/02	2018/01/13	2018/01/13-15
FTT955	DOBNS16-003-SS-001	2017/12/08	2017/12/15	2018/01/02	2018/01/13	2018/01/13-15
FTT956	DOBNS16-003-SO-015	2017/12/08	2017/12/15	2018/01/02	2018/01/13	2018/01/13-15
FTT957	DOBNS16-002-SS-001	2017/12/08	2017/12/15	2018/01/02	2018/01/13	2018/01/13-15
FTT958	DOBNS16-002-SO-006	2017/12/08	2017/12/15	2018/01/02	2018/01/13	2018/01/13-15
FTT959	DOBNS16-001-SS-001	2017/12/08	2017/12/15	2018/01/02	2018/01/13	2018/01/13-15
FTT961	DOBNS16-001-SO-006	2017/12/08	2017/12/15	2018/01/02	2018/01/13	2018/01/13-15
FTT981	DOBNS13-001-SS-001	2017/12/12	2017/12/15	2018/01/03	2018/01/18	2018/01/18-22
FTT982	DOBNS13-001-SO-047	2017/12/12	2017/12/15	2018/01/03	2018/01/18	2018/01/18-22
FTT988	DOBNS04-001-SS-001	2017/12/06	2017/12/15	2017/12/30	2018/01/17	2018/01/17-18
FTT989	DOBNS04-001-SS-901	2017/12/06	2017/12/15	2017/12/30	2018/01/17	2018/01/17-18
FTT990	DOBNS04-001-SO-028	2017/12/06	2017/12/15	2017/12/30	2018/01/17	2018/01/17-18
FTT991	DOBNS04-003-SS-001	2017/12/06	2017/12/15	2017/12/30	2018/01/17	2018/01/17-18

FTT992	DOBNS04-003-SO-026	2017/12/06	2017/12/15	2017/12/30	2018/01/17	2018/01/17-18
FTT993	DOBNS04-002-SS-001	2017/12/07	2017/12/15	2018/01/02	2018/01/13	2018/01/13-15
FTT994	DOBNS04-002-SO-030	2017/12/07	2017/12/15	2018/01/02	2018/01/13	2018/01/13-15
PFOS and PFOA in water by SPE/LCMS						
FTT883	DOBNS-RS-012	2017/12/10	2017/12/15	2017/12/21	2018/01/17	2018/01/17-18
FTT896	DOBNS-RS-013	2017/12/11	2017/12/15	2017/12/21	2018/01/17	2018/01/17-18
FTT910	DOBNS-RS-014	2017/12/12	2017/12/15	2017/12/21	2018/01/17	2018/01/17-18
FTT911	DOBNS12-001-GW-024	2017/12/14	2017/12/15	2017/12/28	2018/01/17	2018/01/17-19 & 2018/01/22
FTT912	DOBNS16-001-GW-012	2017/12/14	2017/12/15	2018/01/19	2018/01/22	2018/01/17-19 & 2018/01/22
FTT913	DOBNS-RS-016	2017/12/14	2017/12/15	2018/01/19	2018/01/22	2018/01/17-19 & 2018/01/22
FTT914	DOBNS16-003-GW-020	2017/12/14	2017/12/15	2017/12/28	2018/01/17	2018/01/17-19 & 2018/01/22
FTT915	DOBNS16-002-GW-015	2017/12/14	2017/12/15	2017/12/28	2018/01/17	2018/01/17-19 & 2018/01/22
FTT916	DOBNS14-D3-W24-GW-015	2017/12/14	2017/12/15	2017/12/28	2018/01/17	2018/01/17-19 & 2018/01/22
FTT917	DOBNS04-001-GW-030	2017/12/14	2017/12/15	2018/01/19	2018/01/22	2018/01/17-19 & 2018/01/22
FTT918	DOBNS03-001-GW-019	2017/12/14	2017/12/15	2018/01/19	2018/01/22	2018/01/17-19 & 2018/01/22
FTT919	DOBNS13-002-GW-045	2017/12/14	2017/12/15	2018/01/19	2018/01/22	2018/01/17-19 & 2018/01/22
FTT920	DOBNS13-001-GW-050	2017/12/14	2017/12/15	2018/01/22	2018/01/23	2018/01/17-19 & 2018/01/23
FTT923	DOBNS02-002-GW-039	2017/12/06	2017/12/15	2017/12/20	2018/01/04	2018/01/04
FTT929	DOBNS-SB-001	2017/12/07	2017/12/15	2017/12/21	2018/01/17	2018/01/17-18
FTT931	DOBNS-RS-010	2017/12/07	2017/12/15	2017/12/21	2018/01/17	2018/01/17-18
FTT933	DOBNS11-003-GW-018	2017/12/06	2017/12/15	2017/12/20	2018/01/04	2018/01/04
FTT934	DOBNS11-003-GW-918	2017/12/06	2017/12/15	2017/12/20	2018/01/04	2018/01/04
FTT935	DOBNS11-002-GW-022	2017/12/06	2017/12/15	2017/12/20	2018/01/04	2018/01/04
FTT936	DOBNS11-001-GW-034	2017/12/06	2017/12/15	2017/12/20	2018/01/04	2018/01/04
FTT937	DOBNS10-001-GW-020	2017/12/06	2017/12/15	2017/12/20	2018/01/04	2018/01/04
FTT938	DOBNS10-003-GW-023	2017/12/06	2017/12/15	2017/12/20	2018/01/04	2018/01/04
FTT939	DOBNS08-002-GW-012	2017/12/06	2017/12/15	2017/12/20	2018/01/04	2018/01/04
FTT940	DOBNS08-003-GW-010	2017/12/07	2017/12/15	2017/12/21	2018/01/17	2018/01/17-18
FTT941	DOBNS08-001-GW-027	2017/12/07	2017/12/15	2017/12/21	2018/01/17	2018/01/17-18
FTT942	DOBNS08-004-GW-016	2017/12/07	2017/12/15	2017/12/21	2018/01/17	2018/01/17-18
FTT943	DOBNS08-006-GW-015	2017/12/07	2017/12/15	2017/12/21	2018/01/17	2018/01/17-18
FTT944	DOBNS08-005-GW-015	2017/12/07	2017/12/15	2017/12/21	2018/01/17	2018/01/17-18
FTT945	DOBNS05-001-GW-034	2017/12/08	2017/12/15	2017/12/21	2018/01/17	2018/01/17-18
FTT946	DOBNS05-003-GW-038	2017/12/08	2017/12/15	2017/12/21	2018/01/17	2018/01/17-18
FTT949	DOBNS-SB-002	2017/12/07	2017/12/15	2017/12/21	2018/01/17	2018/01/17-18
FTT960	DOBNS-RS-011	2017/12/08	2017/12/15	2017/12/21	2018/01/17	2018/01/17-18
FTT962	DOBNS05-002-GW-038	2017/12/08	2017/12/15	2017/12/21	2018/01/17	2018/01/17-18
FTT963	DOBNS05-002-GW-938	2017/12/08	2017/12/15	2017/12/21	2018/01/17	2018/01/17-18
FTT964	DOBNS06-002-GW-038	2017/12/08	2017/12/15	2017/12/21	2018/01/17	2018/01/26
FTT964 Dup	DOBNS06-002-GW-038	2017/12/08	2017/12/15	2018/01/19	2018/01/26	2018/01/26
FTT965	DOBNS06-003-GW-036	2017/12/08	2017/12/15	2017/12/21	2018/01/17	2018/01/26
FTT965 Dup	DOBNS06-003-GW-036	2017/12/08	2017/12/15	2018/01/19	2018/01/26	2018/01/26
FTT966	DOBNS02-D3-W4-GW-013	2017/12/10	2017/12/15	2017/12/21	2018/01/17	2018/01/17-18
FTT967	DOBNS13-004-GW-052	2017/12/11	2017/12/15	2017/12/21	2018/01/17	2018/01/17-18
FTT968	DOBNS01-002-GW-030	2017/12/11	2017/12/15	2017/12/22	2018/01/15	2018/01/15
FTT969	DOBNS01-001-GW-025	2017/12/11	2017/12/15	2017/12/22	2018/01/15	2018/01/15
FTT970	DOBNS01-003-GW-025	2017/12/11	2017/12/15	2017/12/22	2018/01/15	2018/01/15
FTT971	DOBNS04-002-GW-034	2017/12/12	2017/12/15	2017/12/23	2018/01/13	2018/01/13
FTT972	DOBNS-RS-009	2017/12/06	2017/12/15	2017/12/20	2018/01/04	2018/01/04
FTT973	DOBNS13-003-GW-050	2017/12/14	2017/12/15	2018/01/19	2018/01/22	2018/01/17-19 & 2018/01/22
FTT974	DOBNS14-001-GW-012	2017/12/12	2017/12/15	2017/12/23	2018/01/13	2018/01/13
FTT975	DOBNS14-OT004-MW03	2017/12/12	2017/12/15	2017/12/23	2018/01/13	2018/01/13
FTT976	DOBNS14-OT004-MW02	2017/12/12	2017/12/15	2017/12/23	2018/01/16	2018/01/16
FTT977	DOBNS15-002-GW-007	2017/12/12	2017/12/15	2017/12/23	2018/01/16	2018/01/16
FTT978	DOBNS15-003-GW-011	2017/12/12	2017/12/15	2017/12/23	2018/01/16	2018/01/16
FTT979	DOBNS15-003-GW-911	2017/12/12	2017/12/15	2017/12/23	2018/01/16	2018/01/16
FTT980	DOBNS15-001-GW-011	2017/12/12	2017/12/15	2017/12/23	2018/01/16	2018/01/16
FTT983	DOBNS09-003-GW-042	2017/12/13	2017/12/15	2017/12/27	2018/01/16	2018/01/16
FTT984	DOBNS09-003-GW-942	2017/12/13	2017/12/15	2017/12/27	2018/01/16	2018/01/16
FTT985	DOBNS09-002-GW-044	2017/12/13	2017/12/15	2017/12/27	2018/01/16	2018/01/16
FTT986	DOBNS-RS-015	2017/12/13	2017/12/15	2017/12/27	2018/01/16	2018/01/16
FTT987	DOBNS04-003-GW-015	2017/12/13	2017/12/15	2017/12/27	2018/01/16	2018/01/16

Run Date is defined as the date of injection of the last calibration standard (12 hours or less) prior to the samples analyzed within that run sequence. Therefore the time of calibration injection that defines the run date is always within 12 hours of the time of sample injection.

b) Shipping Problems: Samples were received with temperature less than 10 degrees Celsius. Cooler custody seals were present and intact.

c) Documentation Problems: Sample FTT980 bottles were labelled as "DOBNS15-001-GW-011" however CoC indicated "DOBNS15-001-GW-012". Proceeded with the ID as per the bottle labels. Sample FTT988 bottles were labelled with sampling time of 16:15 however the CoC indicated 16:25. Proceeded with sampling time as per the bottle labels.

II. SAMPLE PREP:

No problems encountered

III. SAMPLE ANALYSIS:

See also comments within the appropriate Certificate of Analysis

a) Hold Times: Samples FTT964 and FTT965 were analyzed past the extract hold time. Due to rework requirements, samples FTT911, FTT912, FTT913, FTT914, FTT915, FTT916, FTT917, FTT918, FTT919,FTT920, and FTT973 were re-analyzed for 6:2FTS past hold time.

b) Instrument Calibration: all within control limits

c) Quality Control: All applicable QC meets control criteria, except where otherwise noted.

d) All analytes requiring manual intergration(s) are noted on the sample chromatograms

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for other than the conditions detailed above.

In addition, I certify, that to the best of my knowledge and belief, the data as reported are true and accurate. Release of the data contained in this data package has been authorized by the cognizant laboratory official or his/her designee, as verified by this signature.

Steph Pallen

Project Manager- Site Assessment
and Remediation/ Ultra Trace

2018/02/09

Date

Prepared for: Aerostar SES LLC

Project: M2032.0001 (SAVANNAH)
DOBBINS ARB

Analytical Data Package

(Level IV)

Analysis: PFOS and PFOA in water (Method 537 mod.)

Maxxam Job #: B7S5409

Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com

Maxxam

I hereby certify that to the best of my knowledge all analytical data presented in this report:

- Has been checked for completeness.
- Is accurate, legible and error free.
- Has been conducted in accordance with approved SOP's and that all deviations are clearly listed in the Case Narrative.
- This report has been generated in .pdf format.

Review Performed By:

Steph Pollen

Project Manager

Maxxam
A Bureau Veritas Group Company

Stephanie
Pollen
2018.02.01
16:48:05 -05'00'

Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com

Glossary of Terms

- ***Detection Limit (DL)*** this can also be called ***Method Detection Limit (MDL***): The lowest concentration or amount of the target analyte that can be identified, measured, and reported with confidence that the analyte concentration is not a false positive value. (Clarification): The smallest analyte concentration that can be demonstrated to be different from zero or a blank concentration at the 99% level of confidence. At the DL, the false positive rate (Type I error) is 1%.

- ***Limit of Detection (LOD*****)**: An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte- and matrix-specific and may be laboratory-dependent. (Clarification): The smallest amount or concentration of a substance that must be present in a sample in order to be detected at a high level of confidence (99%). At the LOD, the false negative rate (Type II error) is 1%.

- ***Limits of Quantitation (LOQ)*** this can also be called ***Reporting Detection Limit (RDL)***: The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. (Clarification): The lowest concentration that produces a quantitative result within specified limits of precision and bias. For DoD projects, the LOQ shall be set at or above the concentration of the lowest initial calibration standard.

- ***Acceptance Criteria*** are values used by the laboratory to determine that a process is in control.

- ***Accuracy*** is the degree of agreement of a measured value with the true or expected value.

- ***Calibration Standards*** are a set of solutions containing the analytes of interest at a specified concentration.

- ***Calibration Verification Standard*** consists of a calibration standard solution of intermediate concentration (mid-point initial calibration level) used to access whether the initial calibration is still valid

- ***Certified Reference Material*** is a stable homogenous material that is certified by repetitive analysis from a supplier who is certified to generate said materials.

- ***Internal Standard*** a deuterated or ^{13}C-labelled analyte that is added to a sample extract prior to instrumental analysis to compensate for injection variability.

- ***Isomer*** is a member of a group of compounds that differ from each other only in the locations of a specific number of common substituent atoms or groups of atoms on the parent compound.

- ***Method Blank*** is a laboratory control sample using reagents that are known to be free of contamination.

- ***Precision*** is the degree of agreement between the data generated from repetitive measurements under specific conditions.

- ***Quality Assurance*** is a system of activities whose purpose is to provide the producer or user of a product with the assurance that the product meets a defined standard of quality.

- ***Quality Control*** is the overall system of activities whose purpose is to control the quality of a product so that it meets the needs of the end user.

- ***RSD*** is the relative standard deviation.

- ***Blank Spike*** is a laboratory control sample that has been fortified with native analytes of interest.

- ***Window Defining Mixture*** is a solution containing only the earliest and latest eluting congeners within each homologous group of target analytes on a specified GC column.

- ***RPD*** or Relative Percent Difference. A measure used to compare duplicate sample analysis.

- ***EMPC/NDR –*** Peak detected does not meet ratio criteria and has resulted in a higher detection limit.

1.0 Project Narrative

Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com

Maxxam Job: B7S5409

Sample Analysis

Samples were initially pre-screened and estimated concentrations were obtained so that appropriate sample volumes could be extracted on QC batch 5335302 (2018/01/18). Due to high concentrations, the following samples were analyzed using reduced sample extraction volumes:

FTW406	*DOBNS02-D3-W3-GW-035*
FTW408	*DOBNS02-D3-W32-GW-012*
FTW409	*DOBNS01-D2-W7-GW-023*

Detection limits were adjusted accordingly.

All samples were initially re-extracted and re-analyzed for Perfluorotridecanoic acid (PFTrDA) & Perfluorotetradecanoic acid (PFTeDA) past the method defined hold time, and results were reported to the client. During preparation of the Level IV data package, it was observed that the re-analysis had been initiated in error, and that the original results from QC batch 5335302 (2018/01/18) were valid for these analytes. Results were re-issued to the client using data from the original analysis.

Quantitation of PFAS

Many PFAS (e.g. PFOS) have several isomeric forms that may show up as separate or partially-merged peaks in the analytical chromatograms. These peaks will be integrated and the areas summed such that the result represents the concentration of the sum of the linear and branched isomers, per USEPA (2009). Instrumentation is calibrated using certified quantitative standards containing only the linear isomer for all target analytes, except Perfluorooctane sulfonate (PFOS) and Perfluorohexane sulfonate (PFHxS), which are calibrated using certified branched and linear isomer mixtures. As additional certified reference materials containing branched and linear isomers become commercially available, they will be incorporated into the analytical method.

Data Qualifiers

U – Analyte was not detected and is reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.

J – The reported result is an estimated value (e.g., matrix interference was observed, or the analyte was detected at a concentration outside the calibration range).

Sin Chii Chia, B.Sc.
schia@maxxam.ca
Office 905 817 5700

PROJECT NARRATIVE

Maxxam Analytics Inc

Maxxam Analytics
Client Project #: M2032.0001 (SAVANNAH)

Client: Aerostar SES LLC
Client Project: M2032.0001 (SAVANNAH)

I. SAMPLE RECEIPT/ANALYSIS

a) Sample Listing

Maxxam ID	Client Sample ID	Date Sampled	Date Received	Date Prepped	Date Run	Initial Calibration
PFOS and PFOA in water by SPE/LCMS						
FTW405	DOBNS-RS-017	2017/12/15	2017/12/16	2017/12/29	2018/01/18	2018/01/18
FTW406	DOBNS02-D3-W3-GW-035	2017/12/15	2017/12/16	2017/12/29	2018/01/18	2018/01/18
FTW407	DOBNS02-D3-W25-GW-020	2017/12/15	2017/12/16	2017/12/29	2018/01/18	2018/01/18
FTW408	DOBNS02-D3-W32-GW-012	2017/12/15	2017/12/16	2017/12/29	2018/01/18	2018/01/18
FTW409	DOBNS01-D2-W7-GW-023	2017/12/15	2017/12/16	2017/12/29	2018/01/18	2018/01/18

Run Date is defined as the date of injection of the last calibration standard (12 hours or less) prior to the samples analyzed within that run sequence. Therefore the time of calibration injection that defines the run date is always within 12 hours of the time of sample injection.

b) Shipping Problems: Samples were received with temperatures less than 10 degrees Celsius. Cooler custody seal was present and intact.

c) Documentation Problems: Results for all samples were initially reported from the incorrect analytical run for PFTeDA and PFTrDA, results have been corrected. Report was further revised to correct the analysis date for sample FTW406.

II. SAMPLE PREP:

No problems encountered

III. SAMPLE ANALYSIS:

See also comments within the appropriate Certificate of Analysis

a) Hold Times: all within recommended hold times

b) Instrument Calibration: all within control limits

c) Quality Control: All applicable QC meets control criteria, except where otherwise noted.

d) All analytes requiring manual intergration(s) are noted on the sample chromatograms

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for other than the conditions detailed above.

In addition, I certify, that to the best of my knowledge and belief, the data as reported are true and accurate. Release of the data contained in this data package has been authorized by the cognizant laboratory official or his/her designee, as verified by this signature.

Steph Pollen

Project Manager- Site Assessment
and Remediation/ Ultra Trace

2018/02/01
Date

Maxxam

Prepared for: Aerostar SES LLC

Project: M2032.0001(SAVANNAH)
DOBBINS ARB

Analytical Data Package
(Level IV)

Analysis: PFOS and PFOA in water (Method 537 mod.)

Maxxam Job #: B808850

Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com

Maxxam

I hereby certify that to the best of my knowledge all analytical data presented in this report:

- Has been checked for completeness.
- Is accurate, legible and error free.
- Has been conducted in accordance with approved SOP's and that all deviations are clearly listed in the Case Narrative.
- This report has been generated in .pdf format.

Review Performed By:

Steph Pollen
Project Manager
Maxxam
A Bureau Veritas Group Company

Stephanie
Pollen
2018.02.05
12:47:46 -05'00'

Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com

Glossary of Terms

- ***Detection Limit (DL)*** this can also be called ***Method Detection Limit (MDL***): The lowest concentration or amount of the target analyte that can be identified, measured, and reported with confidence that the analyte concentration is not a false positive value. (Clarification): The smallest analyte concentration that can be demonstrated to be different from zero or a blank concentration at the 99% level of confidence. At the DL, the false positive rate (Type I error) is 1%.

- ***Limit of Detection (LOD***): An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte- and matrix-specific and may be laboratory-dependent. (Clarification): The smallest amount or concentration of a substance that must be present in a sample in order to be detected at a high level of confidence (99%). At the LOD, the false negative rate (Type II error) is 1%.

- ***Limits of Quantitation (LOQ)*** this can also be called ***Reporting Detection Limit (RDL)***: The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. (Clarification): The lowest concentration that produces a quantitative result within specified limits of precision and bias. For DoD projects, the LOQ shall be set at or above the concentration of the lowest initial calibration standard.

- ***Acceptance Criteria*** are values used by the laboratory to determine that a process is in control.

- ***Accuracy*** is the degree of agreement of a measured value with the true or expected value.

- ***Calibration Standards*** are a set of solutions containing the analytes of interest at a specified concentration.

- ***Calibration Verification Standard*** consists of a calibration standard solution of intermediate concentration (mid-point initial calibration level) used to access whether the initial calibration is still valid

- ***Certified Reference Material*** is a stable homogenous material that is certified by repetitive analysis from a supplier who is certified to generate said materials.

- ***Internal Standard*** a deuterated or ^{13}C-labelled analyte that is added to a sample extract prior to instrumental analysis to compensate for injection variability.

- ***Isomer*** is a member of a group of compounds that differ from each other only in the locations of a specific number of common substituent atoms or groups of atoms on the parent compound.

- ***Method Blank*** is a laboratory control sample using reagents that are known to be free of contamination.

- ***Precision*** is the degree of agreement between the data generated from repetitive measurements under specific conditions.

- ***Quality Assurance*** is a system of activities whose purpose is to provide the producer or user of a product with the assurance that the product meets a defined standard of quality.

- ***Quality Control*** is the overall system of activities whose purpose is to control the quality of a product so that it meets the needs of the end user.

- ***RSD*** is the relative standard deviation.

- ***Blank Spike*** is a laboratory control sample that has been fortified with native analytes of interest.

- ***Window Defining Mixture*** is a solution containing only the earliest and latest eluting congeners within each homologous group of target analytes on a specified GC column.

- ***RPD*** or Relative Percent Difference. A measure used to compare duplicate sample analysis.

- ***EMPC/NDR –*** Peak detected does not meet ratio criteria and has resulted in a higher detection limit.

1.0 Project Narrative

Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com

Maxxam Job: B808850

Sample Analysis

Samples were initially pre-screened and estimated concentrations were obtained so that appropriate sample volumes could be extracted on QC batch 5366854 (2018/01/25). Due to high concentrations, the following samples were analyzed using reduced sample extraction volumes:

FXE170	*DOBNS01-D2-W23-GW-014*
FXE171	*DOBNS14-OT004-MW04-GW-018*
FXE172	*DOBNS14-OT004-MW04-GW-918*

Detection limits were adjusted accordingly.

QC Samples

Matrix Spike and Matrix Spike Duplicate (MS/MSD) was required for sample FXE170 *(DOBNS01-D2-W23-GW-014)* but not performed due to high concentrations of target analytes in the native sample. A Matrix Duplicate (MD) was analyzed for this sample instead.

Quantitation of PFAS

Many PFAS (e.g. PFOS) have several isomeric forms that may show up as separate or partially-merged peaks in the analytical chromatograms. These peaks will be integrated and the areas summed such that the result represents the concentration of the sum of the linear and branched isomers, per USEPA (2009). Instrumentation is calibrated using certified quantitative standards containing only the linear isomer for all target analytes, except Perfluorooctane sulfonate (PFOS) and Perfluorohexane sulfonate (PFHxS), which are calibrated using certified branched and linear isomer mixtures. As additional certified reference materials containing branched and linear isomers become commercially available, they will be incorporated into the analytical method.

Data Qualifiers

U – Analyte was not detected and is reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.

J – The reported result is an estimated value (e.g., matrix interference was observed, or the analyte was detected at a concentration outside the calibration range).

Sin Chii Chia, B.Sc.
schia@maxxam.ca
Office 905 817 5700

PROJECT NARRATIVE

Maxxam Analytics
Client Project #: M2032.0001(SAVANNAH)

Client: Aerostar SES LLC
Client Project: M2032.0001(SAVANNAH)

I. SAMPLE RECEIPT/ANALYSIS

a) Sample Listing

Maxxam ID	Client Sample ID	Date Sampled	Date Received	Date Prepped	Date Run	Initial Calibration
PFOS and PFOA in water by SPE/LCMS						
FXE169	DOBNS-RS-A01	2018/01/10	2018/01/13	2018/01/24	2018/01/25	2018/01/25
FXE170	DOBNS01-D2-W23-GW-014	2018/01/10	2018/01/13	2018/01/24	2018/01/25	2018/01/25
FXE170 Dup	DOBNS01-D2-W23-GW-014	2018/01/10	2018/01/13	2018/01/24	2018/01/25	2018/01/25
FXE171	DOBNS14-OT004-MW04-GW-018	2018/01/10	2018/01/13	2018/01/24	2018/01/25	2018/01/25
FXE172	DOBNS14-OT004-MW04-GW-918	2018/01/10	2018/01/13	2018/01/24	2018/01/25	2018/01/25

Run Date is defined as the date of injection of the last calibration standard (12 hours or less) prior to the samples analyzed within that run sequence. Therefore the time of calibration injection that defines the run date is always within 12 hours of the time of sample injection.

b) Shipping Problems: Samples were received with temperature less than 10 degrees Celsius. Cooler custody seal was present and intact.

c) Documentation Problems: none encountered

II. SAMPLE PREP:

No problems encountered

III. SAMPLE ANALYSIS:

See also comments within the appropriate Certificate of Analysis

a) Hold Times: all within recommended hold times

b) Instrument Calibration: all within control limits

c) Quality Control: All applicable QC meets control criteria, except where otherwise noted.

d) All analytes requiring manual intergration(s) are noted on the sample chromatograms

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for other than the conditions detailed above.

In addition, I certify, that to the best of my knowledge and belief, the data as reported are true and accurate. Release of the data contained in this data package has been authorized by the cognizant laboratory official or his/her designee, as verified by this signature.

Steph Palln

Project Manager- Site Assessment
and Remediation/ Ultra Trace

2018/02/05
Date

Appendix E

Soil Physiochemical Analytical Results

Table E-1 Soil Physiochemical Analyses Summary

AFFF Area	Sample Number	Percent Passing No. 4 Screen	Percent Passing No. 200 Screen	USCS Classification	TOC (mg/kg)	pH	Percent Solids
Former FTA FT-02 AFFF Area 1	DOBNS01-005-SS-001	99.2	53.4	ML	12,300	5.42	78.6
	DOBNS01-005-SO-024	100	20.5	SM	99 U	5.39	76.1
Former FTA FT-03 AFFF Area 2	DOBNS02-004-SS-001	81.0	29.2	SM	11,700	6.96	77.1
	DOBNS02-004-SO-036	98.3	26.0	SM	5,440	6.59	77.3
Building 5 (Hangar) AFFF Area 3	DOBNS03-005-SS-001	86.9	30.9	SM	4,860	7.63	86.6
	DOBNS03-005-SO-020	95.1	23.3	SM	604	5.22	69.4
Building 731 (Hangar) AFFF Area 4	DOBNS04-004-SS-001	85.2	27.2	SM	4,200	7.31	74.2
	DOBNS04-004-SO-026	100	29.3	SM	264	5.18	82.2
Building 746 (Hangar) AFFF Area 5	DOBNS05-004-SS-001	100	45.8	SM	9,660	6.19	83.7
	DOBNS05-004-SO-028	100	29.3	SM	96.1 J	5.28	67.0
Building 745 (Hangar) AFFF Area 6	DOBNS06-004-SS-001	98.9	39.6	SM	14,800	11.03 X	88.9
	DOBNS06-004-SO-030	100	86.2	SM	63.4 J	5.35	73.6
C-5A Galaxy Fire AFFF Area 7	DOBNS07-009-SS-001	100	39.7	SM	886	5.70	79.0
	DOBNS07-009-SO-024	100	22.0	SM	82.5 J	5.27	72.2
L-188CF Electra Crash AFFF Area 8	DOBNS08-007-SS-001	99.5	43.0	SM	7,350	6.51	81.1
	DOBNS08-007-SO-005	99.9	28.4	SM	80.1 J	5.45	74.7
L-100-20 Hercules Crash AFFF Area 9	DOBNS09-004-SS-001	99.2	34.7	SM	4,650	6.90	83.1
	DOBNS09-004-SO-009	99.9	32.9	SM	120 U	5.56	65.2
F-18 Tire Fire AFFF Area 10	DOBNS10-004-SS-001	99.9	48.2	SM	7,200	5.35	78.8
	DOBNS10-004-SO-019	100	31.3	SM	416	4.94	67.5
E-2 Tire Fire AFFF Area 11	DOBNS11-004-SS-001	99.2	46.5	SM	11,700	6.19	82.0
	DOBNS11-004-SO-021	99.7	79.4	SM	104 J Y	5.13	70.5
Motor Pool (Building 516) AFFF Area 12	DOBNS12-004-SS-001	99.5	18.6	SM	17,600	6.20	84.0
	DOBNS12-004-SO-024	98.8	21.8	SM	80 U	5.71	93.6
AFFF Spray Test Area AFFF Area 13	DOBNS13-006-SS-001	89.6	36.5	SM	1,620	5.43	83.3
	DOBNS13-006-SO-051	100	41.2	SM	141 J	5.50	79.1
Big Lake	DOBNS14-005-SS-001	100	51.3	ML	20,300	6.39	79.2

AFFF Area	Sample Number	Percent Passing No. 4 Screen	Percent Passing No. 200 Screen	USCS Classification	TOC (mg/kg)	pH	Percent Solids
AFFF Area 14	DOBNS14-005-SO-016	100	48.5	SM	2,060	5.86	82.4
Spill Pond 3 AFFF Area 15	DOBNS15-005-SS-001	100	55.2	ML	8,020	5.23	81.8
	DOBNS15-005-SO-005	100	56.0	ML	8,380	6.08	80.0
Spill Pond 4 AFFF Area 16	DOBNS16-005-SS-001	99.7	51.4	ML	7,970	5.52	75.0
	DOBNS16-005-SO-015	100	40.0	SM	2,050	5.98	69.1

AFFF = aqueous film forming foam
mg/kg = milligrams per kilogram
USCS = Unified Soil Classification System
No. = number
TOC = total organic carbon
SO = subsurface soil
Laboratory Data Qualifiers:
J = reported concentration is an estimated value
X = analyte exceeded calibration range

FTA = fire training area
pH = potential of hydrogen
ML = silt with sand/sandy silt
SM = silty sand
SS = surface soil

U = analyte was not detected above the reported value
Y = replicate/duplicate precision outside acceptance limits

Sample Description

DOBNS01-005-SS-001

1

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	MAXXAM ANALYTICS-SI MULTIPLE SITES AFFF
Matrix (soil/water):	SOIL	SDG No.:	132674
% Solids:	78.6	Lab Sample ID:	962390
Analytical Method:	EPA 9045D	Date Received:	12/06/2017
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	145226	Analysis Date/Time	12/12/2017 12:40
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	S.U.

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
PH	pH	5.42					

Sample Description

DOBNS01-005-SS-001

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI MULTIPLE SITES AFFF

Matrix (soil/water): SOIL

SDG No.: 132674

% Solids: 78.6

Lab Sample ID: 962390

Analytical Method: L-Kahn/9060A

Date Received: 12/06/2017

Dilution Factor: 1.00

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145401

Analysis Date/Time 12/19/2017 13:26

Analytical Prep Batch #:

Prep. Date/Time:

ICAL Calibration #: INSTRUMENT T

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
TOC	Total Organic Carbon	12300		46	95	190	190

Sample Description

DOBNS01-005-SS-001

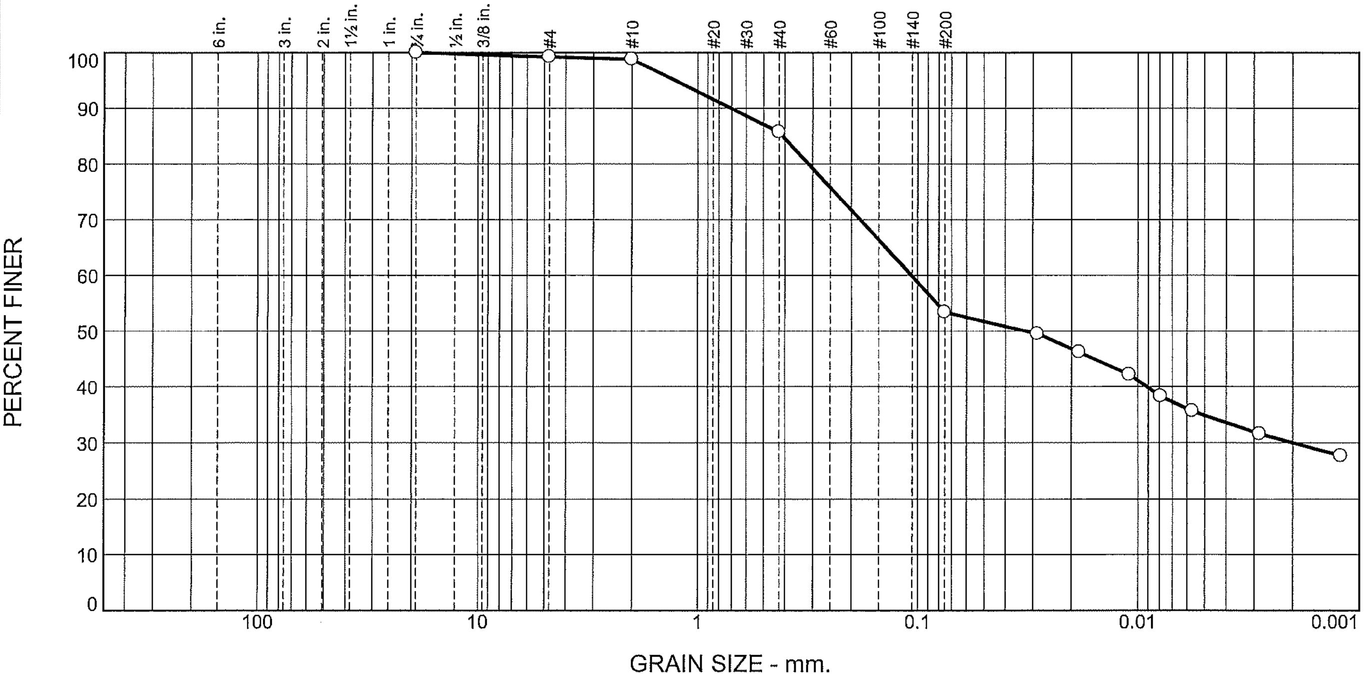
1

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	MAXXAM ANALYTICS-SI MULTIPLE SITES AFFF
Matrix (soil/water):	SOIL	SDG No.:	132674
% Solids:	78.6	Lab Sample ID:	962390
Analytical Method:	EPA 8000C	Date Received:	12/06/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	145121	Analysis Date/Time	12/07/2017 14:31
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	78.6		0.1	0.1	0.1	0.1

Particle Size Distribution Report - Hydrometer Method



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.8	0.4	13.1	32.3	18.5	34.9

Test Results (ASTM D 422-63 & ASTM D 2217)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.75	100.0		
#4	99.2		
#10	98.8		
#40	85.7		
#200	53.4		
0.0285 mm.	49.5		
0.0184 mm.	46.2		
0.0109 mm.	42.3		
0.0079 mm.	38.3		
0.0057 mm.	35.6		
0.0028 mm.	31.6		
0.0012 mm.	27.7		

* (no specification provided)

Client Sample Description

DOBNS01-005-SS-001

Atterberg Limits (ASTM D 4318)

PL= NP **LL=** NV **PI=** NP

Classification

USCS (D 2487)= ML **AASHTO (M 145)=** A-4(0)

Coefficients

D_{90}= 0.7055	D_{85}= 0.4090	D_{60}= 0.1067
D_{50}= 0.0320	D_{30}= 0.0020	D_{15}=
D_{10}=	C_u=	C_c=

Remarks

Date Received: 12-8-2017 **Date Tested:** 12-8-2017

Tested By: CZ-TECHNICIAN

Checked By: SMF

Title: ENVIRONMENTAL DIRECTOR

Sample Number: 962390

Date Sampled: 12-2-2017

Mi-Tech Services, Inc.

Weston, WI

Client: CT Laboratories

Project: SI MULTIPLE SITES AFFF - DOBBINS ARB, GA

Project No: 10797 (PO 132740) **Figure** 3

Sample Description

DOBNS01-005-SO-024

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI MULTIPLE SITES AFFF

Matrix (soil/water): SOIL

SDG No.: 132674

% Solids: 76.1

Lab Sample ID: 962391

Analytical Method: EPA 9045D

Date Received: 12/06/2017

Dilution Factor: 1

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145226

Analysis Date/Time 12/12/2017 12:40

Analytical Prep Batch #:

Prep. Date/Time:

ICAL Calibration #:

Concentration Units: S.U.

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
PH	pH	5.39					

Sample Description

DOBNS01-005-SO-024

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI MULTIPLE SITES AFFF

Matrix (soil/water): SOIL

SDG No.: 132674

% Solids: 76.1

Lab Sample ID: 962391

Analytical Method: L-Kahn/9060A

Date Received: 12/06/2017

Dilution Factor: 1.00

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145401

Analysis Date/Time 12/19/2017 13:56

Analytical Prep Batch #:

Prep. Date/Time:

ICAL Calibration #: INSTRUMENT T

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
TOC	Total Organic Carbon	99	U	47	99	200	200

Sample Description

DOBNS01-005-SO-024

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI MULTIPLE SITES AFFF

Matrix (soil/water): SOIL

SDG No.: 132674

% Solids: 76.1

Lab Sample ID: 962391

Analytical Method: EPA 8000C

Date Received: 12/06/2017

Dilution Factor: 1.00

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145121

Analysis Date/Time 12/07/2017 14:31

Analytical Prep Batch #:

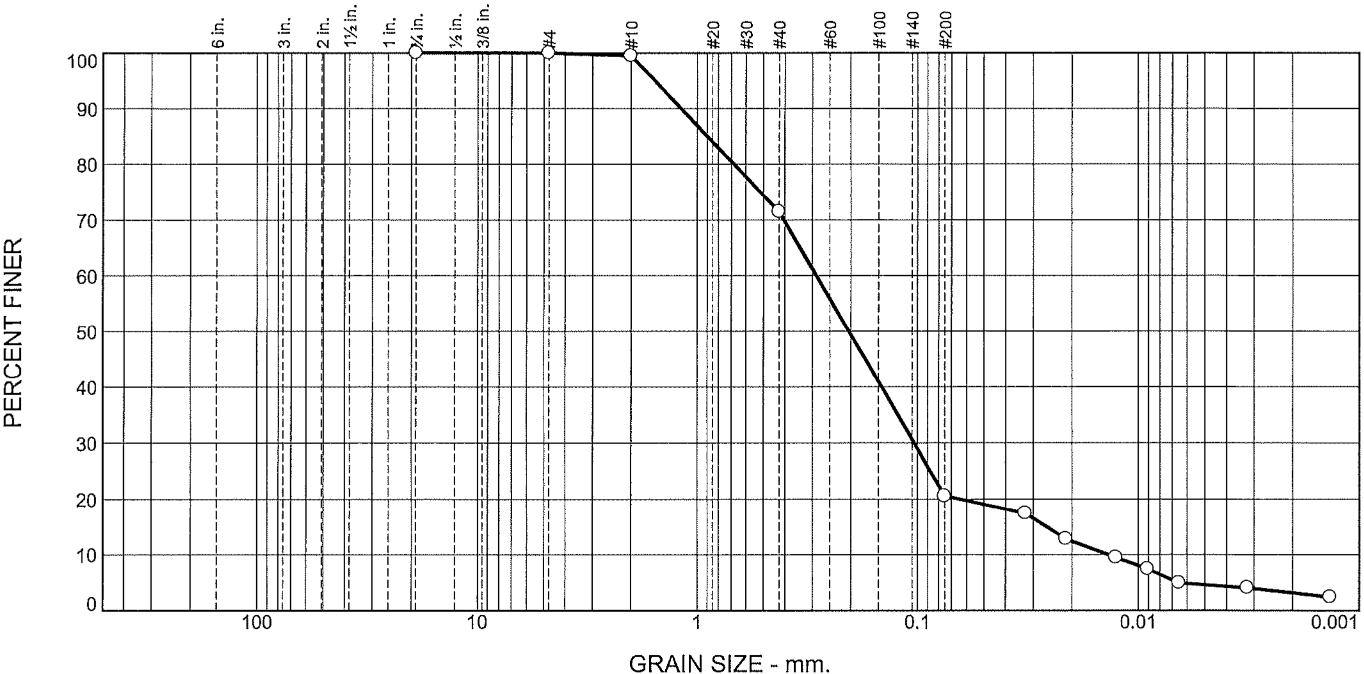
Prep. Date/Time:

ICAL Calibration #:

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	76.1		0.1	0.1	0.1	0.1

Particle Size Distribution Report - Hydrometer Method



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.5	28.0	51.0	15.9	4.6

Test Results (ASTM D 422-63 & ASTM D 2217)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.75	100.0		
#4	100.0		
#10	99.5		
#40	71.5		
#200	20.5		
0.0325 mm.	17.4		
0.0213 mm.	12.8		
0.0126 mm.	9.5		
0.0091 mm.	7.4		
0.0065 mm.	4.9		
0.0032 mm.	4.1		
0.0014 mm.	2.5		

* (no specification provided)

Client Sample Description

DOBNS01-005-SO-024

Atterberg Limits (ASTM D 4318)

PL= NP **LL=** NV **PI=** NP

Classification

USCS (D 2487)= SM **AASHTO (M 145)=** A-2-4(0)

Coefficients

D_{90}= 1.1827	D_{85}= 0.8971	D_{60}= 0.2874
D_{50}= 0.2045	D_{30}= 0.1035	D_{15}= 0.0260
D_{10}= 0.0136	C_u= 21.13	C_c= 2.74

Remarks

Date Received: 12-8-2017 **Date Tested:** 12-8-2017

Tested By: CZ-TECHNICIAN

Checked By: SMF

Title: ENVIRONMENTAL DIRECTOR

Sample Number: 962391

Date Sampled: 12-2-2017

Mi-Tech Services, Inc.

Weston, WI

Client: CT Laboratories

Project: SI MULTIPLE SITES AFFF - DOBBINS ARB, GA

Project No: 10797 (PO 132740) **Figure** 4

Sample Description

DOBNS02-004-SS-001

1

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES
Matrix (soil/water):	SOIL	SDG No.:	133020
% Solids:	77.1	Lab Sample ID:	966652
Analytical Method:	EPA 9045D	Date Received:	12/18/2017
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	145448	Analysis Date/Time	12/20/2017 11:14
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	S.U.

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
PH	pH	6.96		0.1	0.1	0.1	0.1

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Description

DOBNS02-004-SS-001

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES

Matrix (soil/water): SOIL

SDG No.: 133020

% Solids: 77.1

Lab Sample ID: 966652

Analytical Method: EPA 8000C

Date Received: 12/18/2017

Dilution Factor: 1.00

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145465

Analysis Date/Time 12/20/2017 13:15

Analytical Prep Batch #:

Prep. Date/Time:

ICAL Calibration #:

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	77.1		0.1	0.1	0.1	0.1

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Description

DOBNS02-004-SS-001

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES

Matrix (soil/water): SOIL

SDG No.: 133020

% Solids: 77.1

Lab Sample ID: 966652

Analytical Method: L-Kahn/9060A

Date Received: 12/18/2017

Dilution Factor: 1.00

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145580

Analysis Date/Time 12/29/2017 14:12

Analytical Prep Batch #:

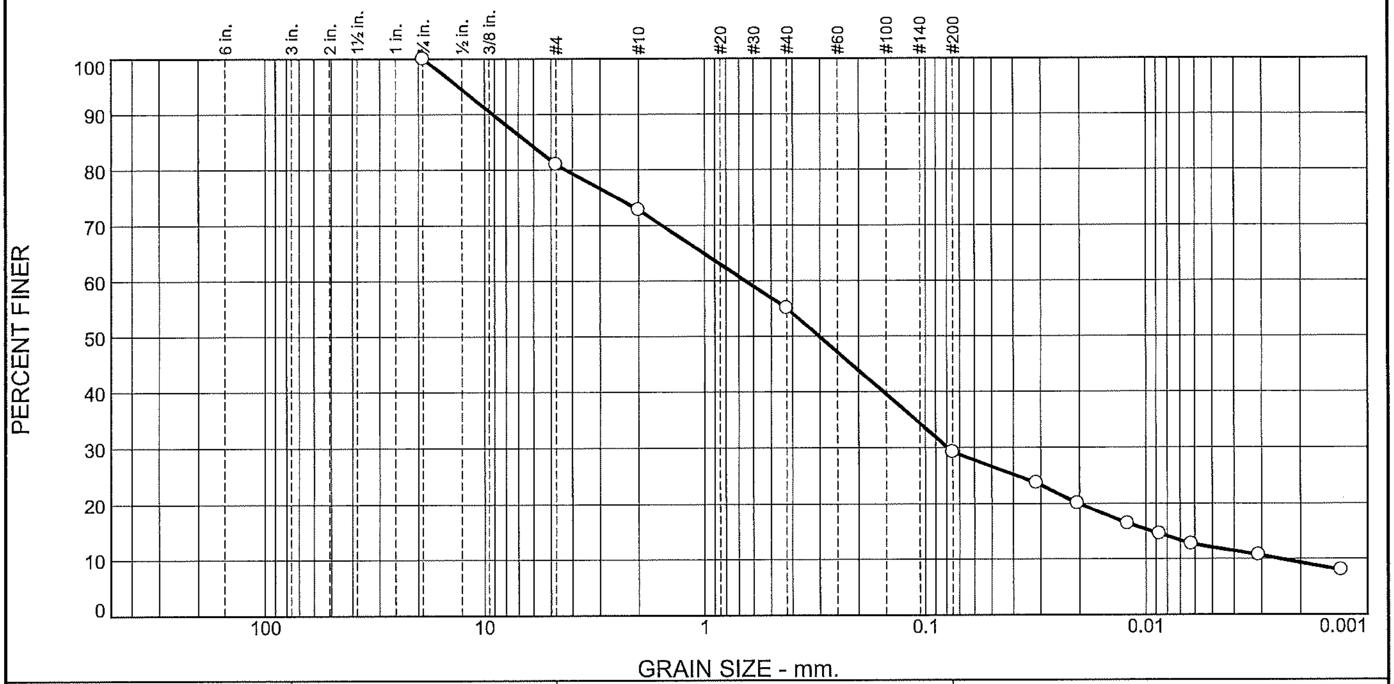
Prep. Date/Time:

ICAL Calibration #: INSTRUMENT T

Concentration Units: mg/kg

CAS #	**Analyte**	**Concentration**	**Qualifiers**	**DL**	**LOD**	**LOQ**	**RL**
TOC	Total Organic Carbon	11700		47	97	190	190

Particle Size Distribution Report - Hydrometer Method



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	19.0	8.2	17.7	25.9	17.1	12.1

Test Results (ASTM D 422-63 & ASTM D 2217)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.75	100.0		
#4	81.0		
#10	72.8		
#40	55.1		
#200	29.2		
0.0313 mm.	23.7		
0.0204 mm.	20.0		
0.0121 mm.	16.4		
0.0087 mm.	14.6		
0.0062 mm.	12.7		
0.0031 mm.	10.7		
0.0013 mm.	8.0		

* (no specification provided)

Client Sample Description

DOBNS02-004-SS-001

Atterberg Limits (ASTM D 4318)

PL= NP **LL=** NV **PI=** NP

Classification

USCS (D 2487)= SM **AASHTO (M 145)=** A-2-4(0)

Coefficients

D_{90}= 9.1633 D_{85}= 6.3553 D_{60}= 0.6520
D_{50}= 0.3019 D_{30}= 0.0791 D_{15}= 0.0094
D_{10}= 0.0025 C_u= 264.05 C_c= 3.89

Remarks

Date Received: 12-20-2017 **Date Tested:** 12-20-2017
Tested By: CZ/NW
Checked By: SMF
Title: ENVIRONMENTAL DIRECTOR

Sample Number: 966652 **Date Sampled:** 12-05-2017

Mi-Tech Services, Inc.

Weston, WI

Client: CT Laboratories
Project: SI AFFF MULTIPLE SITES - Dobbins ARB, GA
Project No: 10808 (PO# 133020 **Figure** 7

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Description

DOBNS02-004-SO-036

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES

Matrix (soil/water): SOIL

SDG No.: 133020

% Solids: 77.3

Lab Sample ID: 966653

Analytical Method: EPA 9045D

Date Received: 12/18/2017

Dilution Factor: 1

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145448

Analysis Date/Time 12/20/2017 11:14

Analytical Prep Batch #:

Prep. Date/Time:

ICAL Calibration #:

Concentration Units: S.U.

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
PH	pH	6.59		0.1	0.1	0.1	0.1

Sample Description

DOBNS02-004-SO-036

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES

Matrix (soil/water): SOIL

SDG No.: 133020

% Solids: 77.3

Lab Sample ID: 966653

Analytical Method: EPA 8000C

Date Received: 12/18/2017

Dilution Factor: 1.00

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145465

Analysis Date/Time 12/20/2017 13:15

Analytical Prep Batch #:

Prep. Date/Time:

ICAL Calibration #:

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	77.3		0.1	0.1	0.1	0.1

Sample Description

DOBNS02-004-SO-036

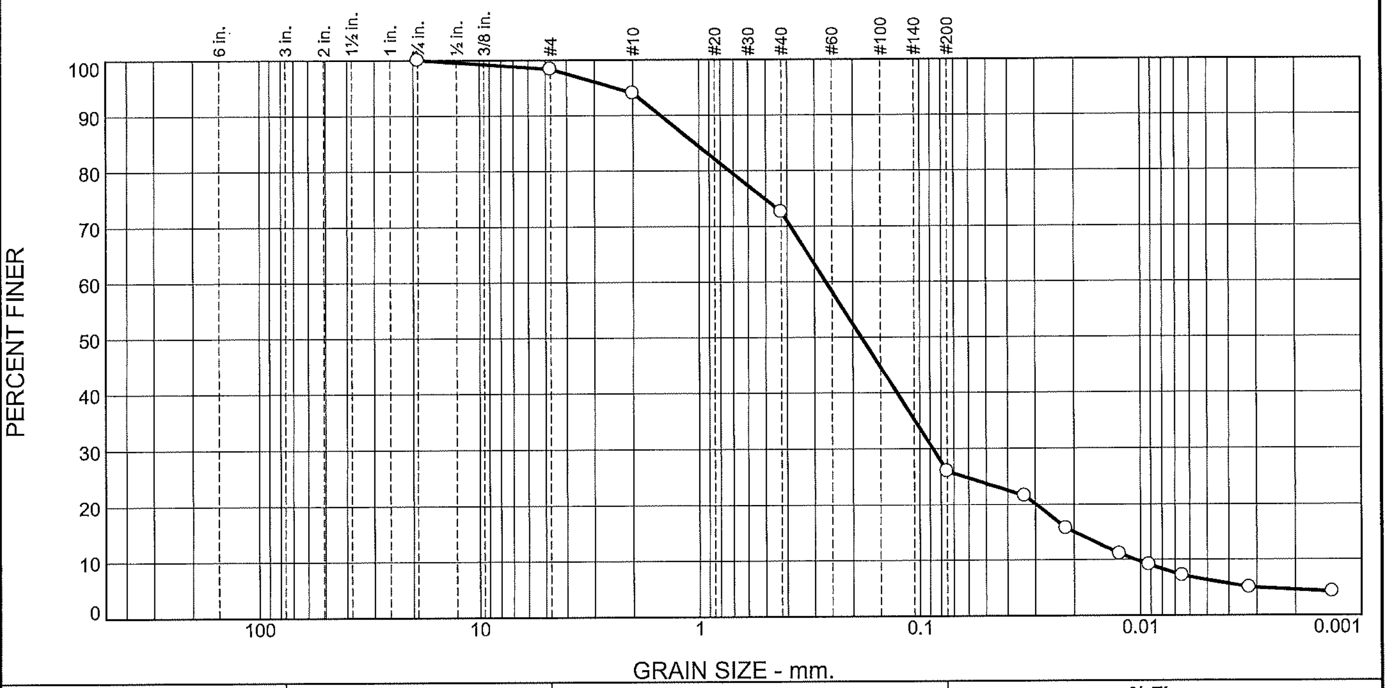
1

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES
Matrix (soil/water):	SOIL	SDG No.:	133020
% Solids:	77.3	Lab Sample ID:	966653
Analytical Method:	L-Kahn/9060A	Date Received:	12/18/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	145580	Analysis Date/Time	12/29/2017 15:37
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:	INSTRUMENT T	Concentration Units:	mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
TOC	Total Organic Carbon	5440		47	97	190	190

Particle Size Distribution Report - Hydrometer Method



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	1.7	4.3	21.4	46.6	19.6	6.4

Test Results (ASTM D 422-63 & ASTM D 2217)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.75	100.0		
#4	98.3		
#10	94.0		
#40	72.6		
#200	26.0		
0.0335 mm.	21.6		
0.0218 mm.	15.7		
0.0124 mm.	11.1		
0.0092 mm.	9.1		
0.0065 mm.	7.2		
0.0032 mm.	5.1		
0.0014 mm.	4.3		

* (no specification provided)

Client Sample Description

DOBNS02-004-SO-036

Atterberg Limits (ASTM D 4318)

PL= NP **LL=** NV **PI=** NP

Classification

USCS (D 2487)= SM **AASHTO (M 145)=** A-2-4(0)

Coefficients

D_{90}= 1.5011 D_{85}= 1.0452 D_{60}= 0.2661
D_{50}= 0.1834 D_{30}= 0.0871 D_{15}= 0.0200
D_{10}= 0.0105 C_u= 25.35 C_c= 2.72

Remarks

Date Received: 12-20-2017 **Date Tested:** 12-20-2017
Tested By: CZ/NW
Checked By: SMF
Title: ENVIRONMENTAL DIRECTOR

Sample Number: 966653 **Date Sampled:** 12-06-2017

Mi-Tech Services, Inc.

Weston, WI

Client: CT Laboratories
Project: SI AFFF MULTIPLE SITES - Dobbins ARB, GA
Project No: 10808 (PO# 133020 **Figure** 8

Sample Description

DOBNS03-005-SS-001

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Matrix (soil/water): SOIL

% Solids: 86.6

Analytical Method: EPA 9045D

Dilution Factor: 1

Analytical Run #: 145448

Analytical Prep Batch #:

ICAL Calibration #:

Contract: MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES

SDG No.: 133020

Lab Sample ID: 966656

Date Received: 12/18/2017

TCLP/SPLP Extraction Date/time:

Analysis Date/Time 12/20/2017 11:14

Prep. Date/Time:

Concentration Units: S.U.

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
PH	pH	7.63		0.1	0.1	0.1	0.1

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Description

DOBNS03-005-SS-001

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES

Matrix (soil/water): SOIL

SDG No.: 133020

% Solids: 86.6

Lab Sample ID: 966656

Analytical Method: EPA 8000C

Date Received: 12/18/2017

Dilution Factor: 1.00

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145465

Analysis Date/Time 12/20/2017 13:15

Analytical Prep Batch #:

Prep. Date/Time:

ICAL Calibration #:

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	86.6		0.1	0.1	0.1	0.1

Sample Description

DOBNS03-005-SS-001

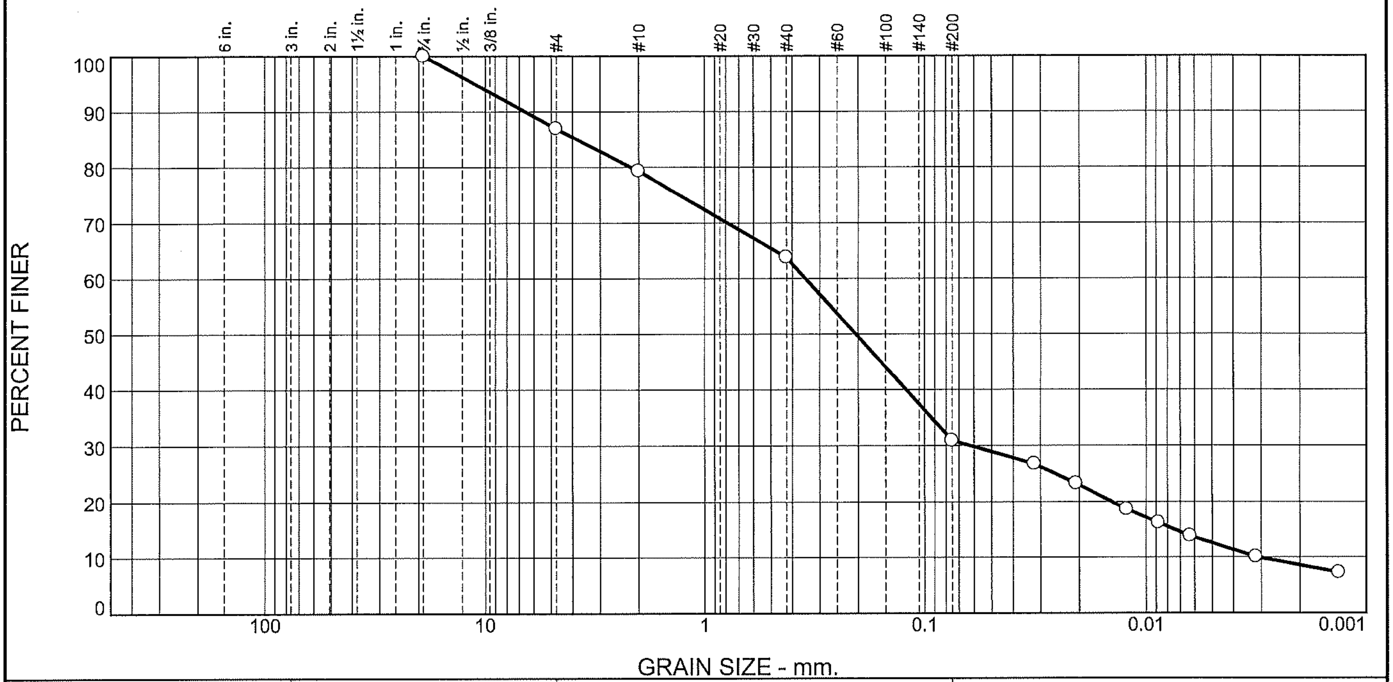
1

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES
Matrix (soil/water):	SOIL	SDG No.:	133020
% Solids:	86.6	Lab Sample ID:	966656
Analytical Method:	L-Kahn/9060A	Date Received:	12/18/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	145580	Analysis Date/Time	12/29/2017 14:37
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:	INSTRUMENT T	Concentration Units:	mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
TOC	Total Organic Carbon	4860		42	87	170	170

Particle Size Distribution Report - Hydrometer Method



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	13.1	7.6	15.5	32.9	18.3	12.6

Test Results (ASTM D 422-63 & ASTM D 2217)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.75	100.0		
#4	86.9		
#10	79.3		
#40	63.8		
#200	30.9		
0.0320 mm.	26.7		
0.0207 mm.	23.2		
0.0123 mm.	18.6		
0.0088 mm.	16.2		
0.0063 mm.	13.8		
0.0032 mm.	10.1		
0.0013 mm.	7.3		

* (no specification provided)

Client Sample Description

DOBNS03-005-SS-001

Atterberg Limits (ASTM D 4318)

PL= NP **LL=** NV **PI=** NP

Classification

USCS (D 2487)= SM **AASHTO (M 145)=** A-2-4(0)

Coefficients

D_{90}= 6.5817	D_{85}= 3.8110	D_{60}= 0.3474
D_{50}= 0.2050	D_{30}= 0.0622	D_{15}= 0.0074
D_{10}= 0.0031	C_u= 112.66	C_c= 3.61

Remarks

Date Received: 12-20-2017 **Date Tested:** 12-20-2017

Tested By: CZ/NW

Checked By: SMF

Title: ENVIRONMENTAL DIRECTOR

Sample Number: 966656

Date Sampled: 12-10-2017

Mi-Tech Services, Inc.

Weston, WI

Client: CT Laboratories

Project: SI AFFF MULTIPLE SITES - Dobbins ARB, GA

Project No: 10808 (PO# 133020 **Figure** 11

Sample Description

DOBNS03-005-SO-020

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES

Matrix (soil/water): SOIL

SDG No.: 133020

% Solids: 69.4

Lab Sample ID: 966648

Analytical Method: EPA 9045D

Date Received: 12/18/2017

Dilution Factor: 1

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145448

Analysis Date/Time 12/20/2017 11:14

Analytical Prep Batch #:

Prep. Date/Time:

ICAL Calibration #:

Concentration Units: S.U.

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
PH	pH	5.22		0.1	0.1	0.1	0.1

Sample Description

DOBNS03-005-SO-020

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES

Matrix (soil/water): SOIL

SDG No.: 133020

% Solids: 69.4

Lab Sample ID: 966648

Analytical Method: EPA 8000C

Date Received: 12/18/2017

Dilution Factor: 1.00

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145465

Analysis Date/Time 12/20/2017 13:15

Analytical Prep Batch #:

Prep. Date/Time:

ICAL Calibration #:

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	69.4		0.1	0.1	0.1	0.1

Sample Description

DOBNS03-005-SO-020

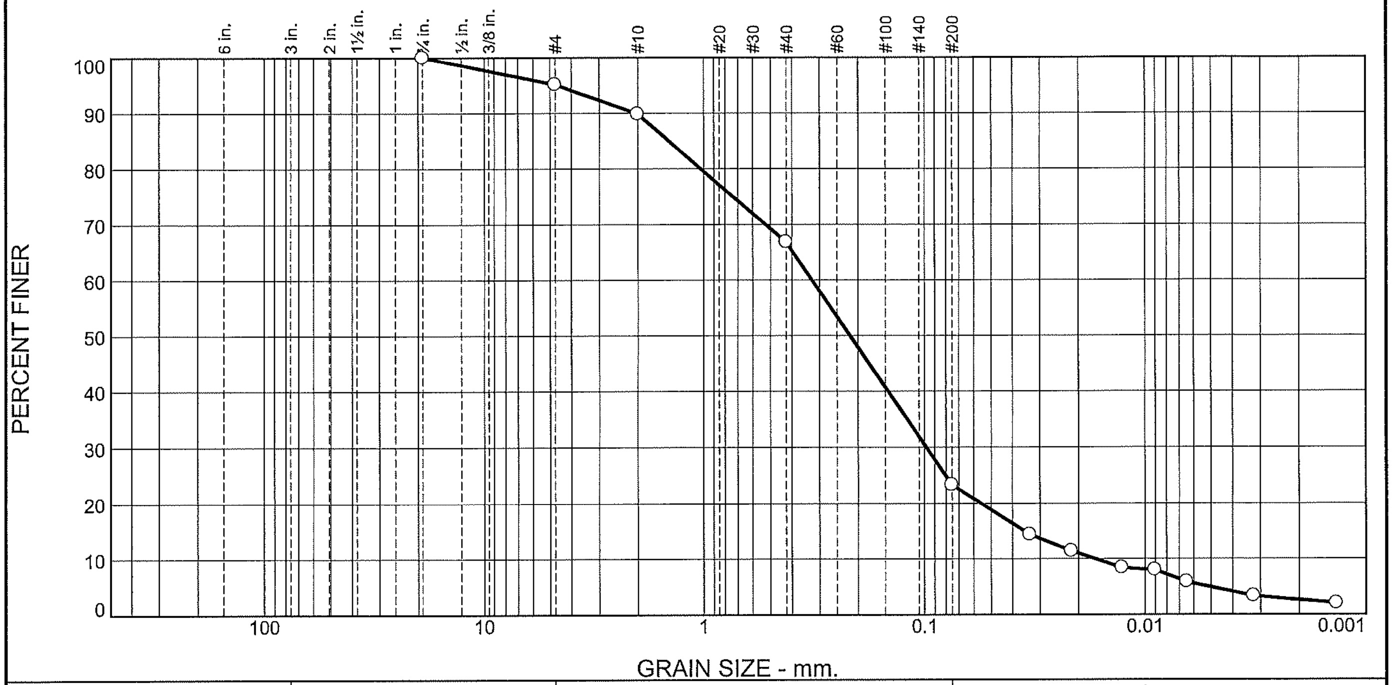
1

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES
Matrix (soil/water):	SOIL	SDG No.:	133020
% Solids:	69.4	Lab Sample ID:	966648
Analytical Method:	L-Kahn/9060A	Date Received:	12/18/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	145580	Analysis Date/Time	12/29/2017 13:22
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:	INSTRUMENT T	Concentration Units:	mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
TOC	Total Organic Carbon	604		52	110	220	220

Particle Size Distribution Report - Hydrometer Method



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	4.9	5.3	23.0	43.5	18.4	4.9

Test Results (ASTM D 422-63 & ASTM D 2217)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.75	100.0		
#4	95.1		
#10	89.8		
#40	66.8		
#200	23.3		
0.0333 mm.	14.4		
0.0215 mm.	11.4		
0.0127 mm.	8.4		
0.0090 mm.	8.0		
0.0065 mm.	5.9		
0.0032 mm.	3.3		
0.0014 mm.	2.1		

* (no specification provided)

Client Sample Description

DOBNS03-005-SO-020

Atterberg Limits (ASTM D 4318)

PL= NP **LL=** NV **PI=** NP

Classification

USCS (D 2487)= SM **AASHTO (M 145)=** A-2-4(0)

Coefficients

D_{90}= 2.0557	D_{85}= 1.4450	D_{60}= 0.3240
D_{50}= 0.2175	D_{30}= 0.0980	D_{15}= 0.0353
D_{10}= 0.0168	C_u= 19.26	C_c= 1.76

Remarks

Date Received: 12-20-2017 **Date Tested:** 12-20-2017

Tested By: CZ/NW

Checked By: SMF

Title: ENVIRONMENTAL DIRECTOR

Sample Number: 966648

Date Sampled: 12-10-2017

Mi-Tech Services, Inc.

Weston, WI

Client: CT Laboratories

Project: SI AFFF MULTIPLE SITES - Dobbins ARB, GA

Project No: 10808 (PO# 133020 **Figure** 3

Sample Description

DOBNS04-004-SS-001

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES

Matrix (soil/water): SOIL

SDG No.: 133020

% Solids: 74.2

Lab Sample ID: 966657

Analytical Method: EPA 9045D

Date Received: 12/18/2017

Dilution Factor: 1

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145448

Analysis Date/Time 12/20/2017 11:14

Analytical Prep Batch #:

Prep. Date/Time:

ICAL Calibration #:

Concentration Units: S.U.

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
PH	pH	7.31		0.1	0.1	0.1	0.1

Sample Description

DOBNS04-004-SS-001

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES

Matrix (soil/water): SOIL

SDG No.: 133020

% Solids: 74.2

Lab Sample ID: 966657

Analytical Method: EPA 8000C

Date Received: 12/18/2017

Dilution Factor: 1.00

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145465

Analysis Date/Time 12/20/2017 13:15

Analytical Prep Batch #:

Prep. Date/Time:

ICAL Calibration #:

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	74.2		0.1	0.1	0.1	0.1

Sample Description

DOBNS04-004-SS-001

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES

Matrix (soil/water): SOIL

SDG No.: 133020

% Solids: 74.2

Lab Sample ID: 966657

Analytical Method: L-Kahn/9060A

Date Received: 12/18/2017

Dilution Factor: 1.00

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145580

Analysis Date/Time 12/29/2017 14:43

Analytical Prep Batch #:

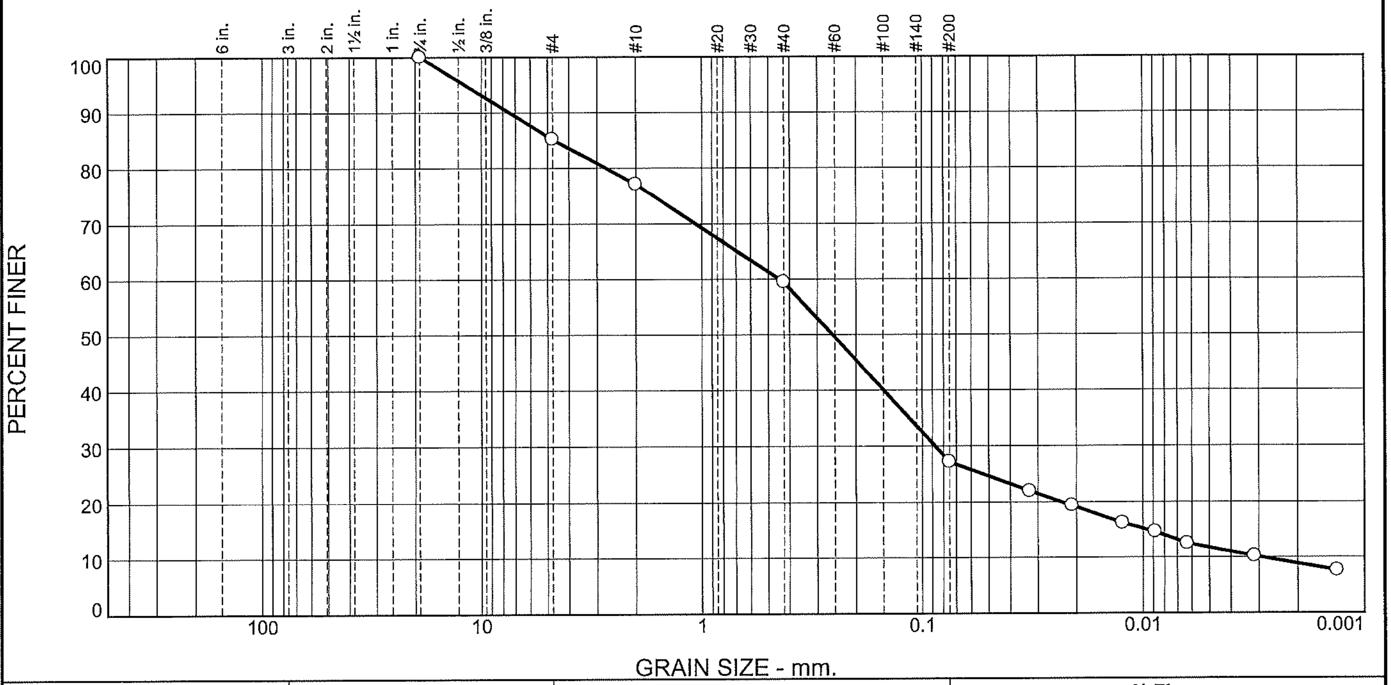
Prep. Date/Time:

ICAL Calibration #: INSTRUMENT T

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
TOC	Total Organic Carbon	4200		49	100	200	200

Particle Size Distribution Report - Hydrometer Method



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	14.8	8.1	17.6	32.3	15.5	11.7

Test Results (ASTM D 422-63 & ASTM D 2217)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.75	100.0		
#4	85.2		
#10	77.1		
#40	59.5		
#200	27.2		
0.0325 mm.	21.9		
0.0209 mm.	19.3		
0.0123 mm.	16.2		
0.0088 mm.	14.6		
0.0063 mm.	12.5		
0.0031 mm.	10.2		
0.0013 mm.	7.6		

* (no specification provided)

Client Sample Description

DOBNS04-004-SS-001

Atterberg Limits (ASTM D 4318)

PL= NP **LL=** NV **PI=** NP

Classification

USCS (D 2487)= SM **AASHTO (M 145)=** A-2-4(0)

Coefficients

D_{90}= 7.4507	D_{85}= 4.6471	D_{60}= 0.4442
D_{50}= 0.2553	D_{30}= 0.0873	D_{15}= 0.0096
D_{10}= 0.0029	C_u= 152.03	C_c= 5.87

Remarks

Date Received: 12-20-2017 **Date Tested:** 12-20-2017

Tested By: CZ/NW

Checked By: SMF

Title: ENVIRONMENTAL DIRECTOR

Sample Number: 966657

Date Sampled: 12-06-2017

Mi-Tech Services, Inc.

Weston, WI

Client: CT Laboratories

Project: SI AFFF MULTIPLE SITES - Dobbins ARB, GA

Project No: 10808 (PO# 133020 **Figure** 12

Sample Description

DOBNS04-004-SO-026

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES

Matrix (soil/water): SOIL

SDG No.: 133020

% Solids: 82.2

Lab Sample ID: 966658

Analytical Method: EPA 9045D

Date Received: 12/18/2017

Dilution Factor: 1

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145448

Analysis Date/Time 12/20/2017 11:14

Analytical Prep Batch #:

Prep. Date/Time:

ICAL Calibration #:

Concentration Units: S.U.

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
PH	pH	5.18		0.1	0.1	0.1	0.1

Sample Description

DOBNS04-004-SO-026

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories
Contract: MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES
Matrix (soil/water): SOIL
SDG No.: 133020
% Solids: 82.2
Lab Sample ID: 966658
Analytical Method: EPA 8000C
Date Received: 12/18/2017
Dilution Factor: 1.00
TCLP/SPLP Extraction Date/time:
Analytical Run #: 145465
Analysis Date/Time 12/20/2017 13:15
Analytical Prep Batch #:
Prep. Date/Time:
ICAL Calibration #:
Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	82.2		0.1	0.1	0.1	0.1

Sample Description

DOBNS04-004-SO-026

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES

Matrix (soil/water): SOIL

SDG No.: 133020

% Solids: 82.2

Lab Sample ID: 966658

Analytical Method: L-Kahn/9060A

Date Received: 12/18/2017

Dilution Factor: 1.00

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145580

Analysis Date/Time 12/29/2017 15:13

Analytical Prep Batch #:

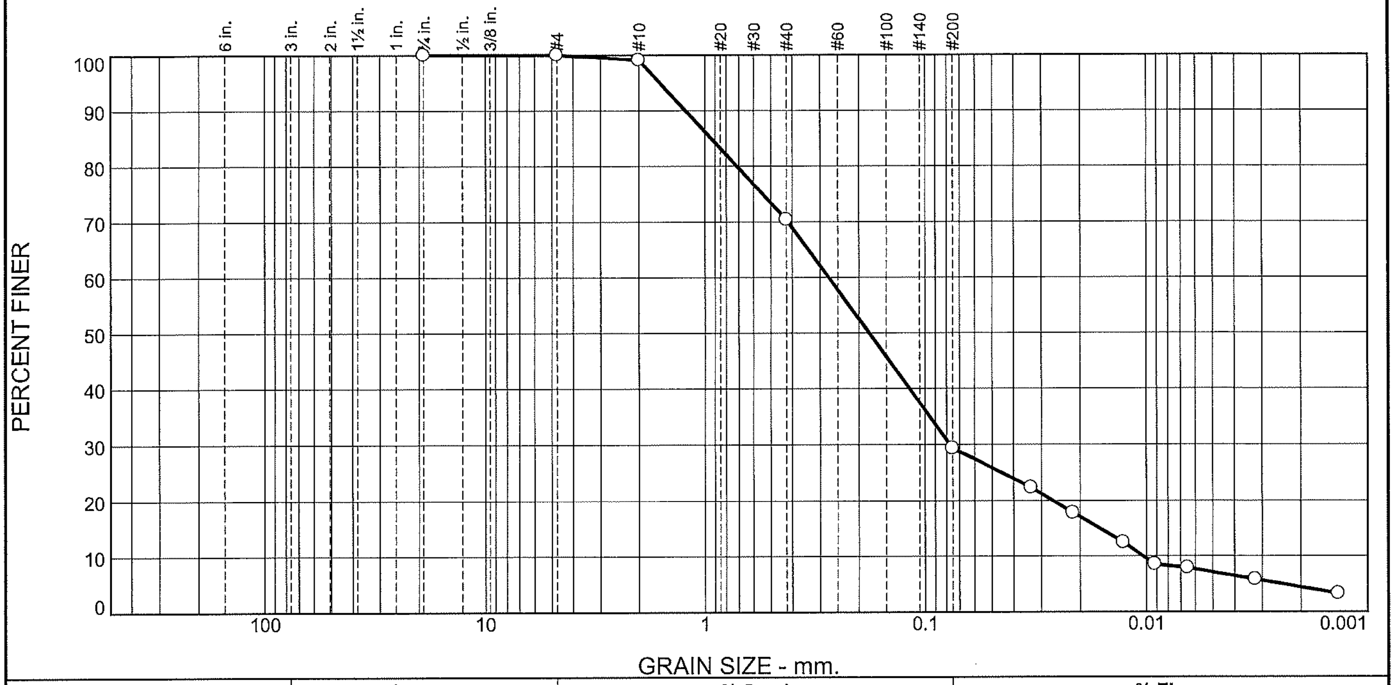
Prep. Date/Time:

ICAL Calibration #: INSTRUMENT T

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
TOC	Total Organic Carbon	264		44	91	180	180

Particle Size Distribution Report - Hydrometer Method



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.9	28.7	41.1	22.2	7.1

Test Results (ASTM D 422-63 & ASTM D 2217)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.75	100.0		
#4	100.0		
#10	99.1		
#40	70.4		
#200	29.3		
0.0333 mm.	22.3		
0.0215 mm.	17.7		
0.0127 mm.	12.5		
0.0092 mm.	8.5		
0.0065 mm.	7.9		
0.0032 mm.	5.8		
0.0014 mm.	3.3		

* (no specification provided)

Client Sample Description

DOBNS04-004-SO-026

Atterberg Limits (ASTM D 4318)

PL= NP **LL=** NV **PI=** NP

Classification

USCS (D 2487)= SM **AASHTO (M 145)=** A-2-4(0)

Coefficients

D_{90}= 1.2250	D_{85}= 0.9351	D_{60}= 0.2739
D_{50}= 0.1795	D_{30}= 0.0771	D_{15}= 0.0164
D_{10}= 0.0103	C_u= 26.47	C_c= 2.10

Remarks

Date Received: 12-20-2017 **Date Tested:** 12-20-2017
Tested By: CZ/NW
Checked By: SMF
Title: ENVIRONMENTAL DIRECTOR

Sample Number: 966658 **Date Sampled:** 12-06-2017

Mi-Tech Services, Inc.

Weston, WI

Client: CT Laboratories
Project: SI AFFF MULTIPLE SITES - Dobbins ARB, GA
Project No: 10808 (PO# 133020 **Figure** 13

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Description

1

DOBNS05-004-SS-001

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI MULTIPLE SITES AFFF

Matrix (soil/water): SOIL

SDG No.: 132674

% Solids: 83.7

Lab Sample ID: 962394

Analytical Method: EPA 9045D

Date Received: 12/06/2017

Dilution Factor: 1

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145226

Analysis Date/Time 12/12/2017 12:40

Analytical Prep Batch #:

Prep. Date/Time:

ICAL Calibration #:

Concentration Units: S.U.

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
PH	pH	6.19					

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Description

DOBNS05-004-SS-001

1

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	MAXXAM ANALYTICS-SI MULTIPLE SITES AFFF
Matrix (soil/water):	SOIL	SDG No.:	132674
% Solids:	83.7	Lab Sample ID:	962394
Analytical Method:	EPA 8000C	Date Received:	12/06/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	145121	Analysis Date/Time	12/07/2017 14:31
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	83.7		0.1	0.1	0.1	0.1

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Description

1

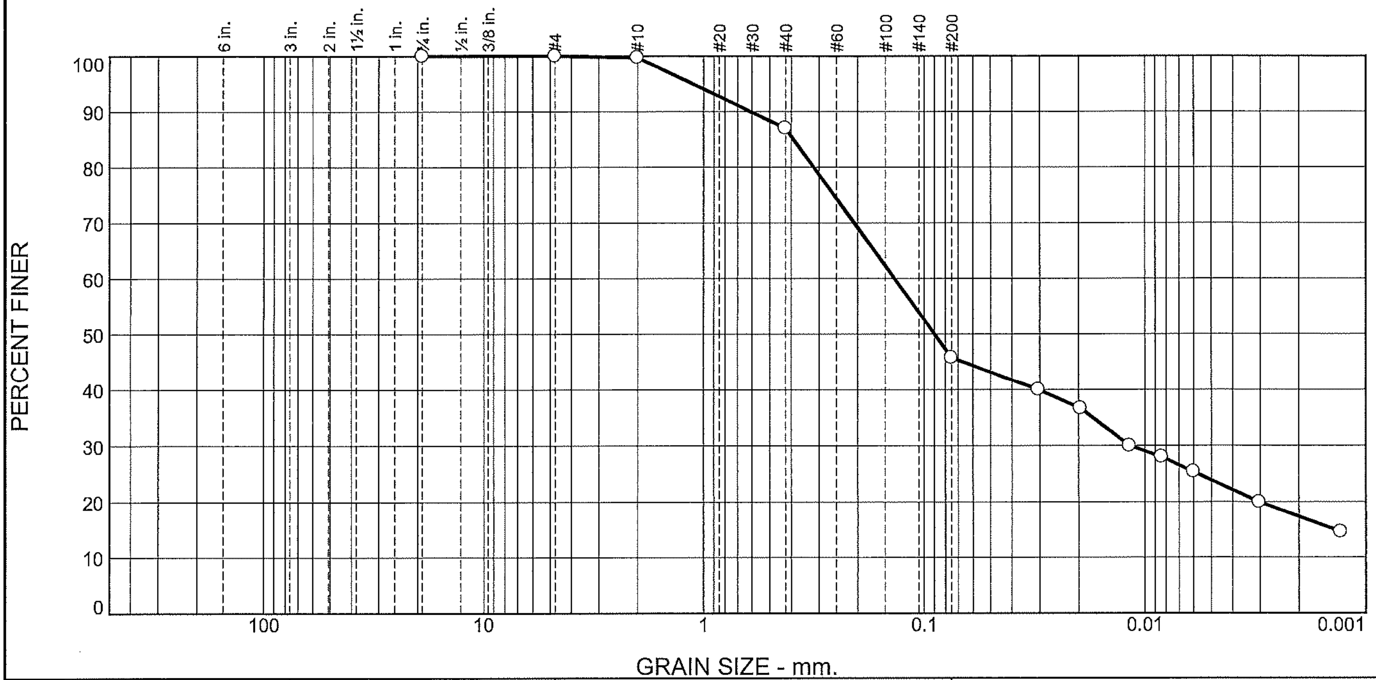
DOBNS05-004-SS-001

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	MAXXAM ANALYTICS-SI MULTIPLE SITES AFFF
Matrix (soil/water):	SOIL	SDG No.:	132674
% Solids:	83.7	Lab Sample ID:	962394
Analytical Method:	L-Kahn/9060A	Date Received:	12/06/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	145401	Analysis Date/Time	12/19/2017 15:03
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:	INSTRUMENT T	Concentration Units:	mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
TOC	Total Organic Carbon	9660		43	90	180	180

Particle Size Distribution Report - Hydrometer Method



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.3	12.7	41.2	21.9	23.9

Test Results (ASTM D 422-63 & ASTM D 2217)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.75	100.0		
#4	100.0		
#10	99.7		
#40	87.0		
#200	45.8		
0.0304 mm.	40.0		
0.0196 mm.	36.7		
0.0117 mm.	30.0		
0.0084 mm.	28.0		
0.0060 mm.	25.3		
0.0030 mm.	19.9		
0.0013 mm.	14.6		

* (no specification provided)

Client Sample Description

DOBNS05-004-SS-001

Atterberg Limits (ASTM D 4318)

PL= NP **LL=** NV **PI=** NP

Classification

USCS (D 2487)= SM **AASHTO (M 145)=** A-4(0)

Coefficients

D_{90}= 0.6113 D_{85}= 0.3905 D_{60}= 0.1364
D_{50}= 0.0896 D_{30}= 0.0117 D_{15}= 0.0014
D_{10}= C_u= C_c=

Remarks

Date Received: 12-8-2017 **Date Tested:** 12-8-2017
Tested By: CZ-TECHNICIAN
Checked By: SMF
Title: ENVIRONMENTAL DIRECTOR

Sample Number: 962394 **Date Sampled:** 12-5-2017

Mi-Tech Services, Inc.

Weston, WI

Client: CT Laboratories
Project: SI MULTIPLE SITES AFFF - DOBBINS ARB, GA
Project No: 10797 (PO 132740) **Figure** 7

Sample Description

DOBNS05-004-SO-028

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI MULTIPLE SITES AFFF

Matrix (soil/water): SOIL

SDG No.: 132674

% Solids: 67.0

Lab Sample ID: 962395

Analytical Method: EPA 9045D

Date Received: 12/06/2017

Dilution Factor: 1

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145226

Analysis Date/Time 12/12/2017 12:40

Analytical Prep Batch #:

Prep. Date/Time:

ICAL Calibration #:

Concentration Units: S.U.

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
PH	pH	5.28					

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Description

DOBNS05-004-SO-028

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI MULTIPLE SITES AFFF

Matrix (soil/water): SOIL

SDG No.: 132674

% Solids: 67.0

Lab Sample ID: 962395

Analytical Method: EPA 8000C

Date Received: 12/06/2017

Dilution Factor: 1.00

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145121

Analysis Date/Time 12/07/2017 14:31

Analytical Prep Batch #:

Prep. Date/Time:

ICAL Calibration #:

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	67.0		0.1	0.1	0.1	0.1

Sample Description

DOBNS05-004-SO-028

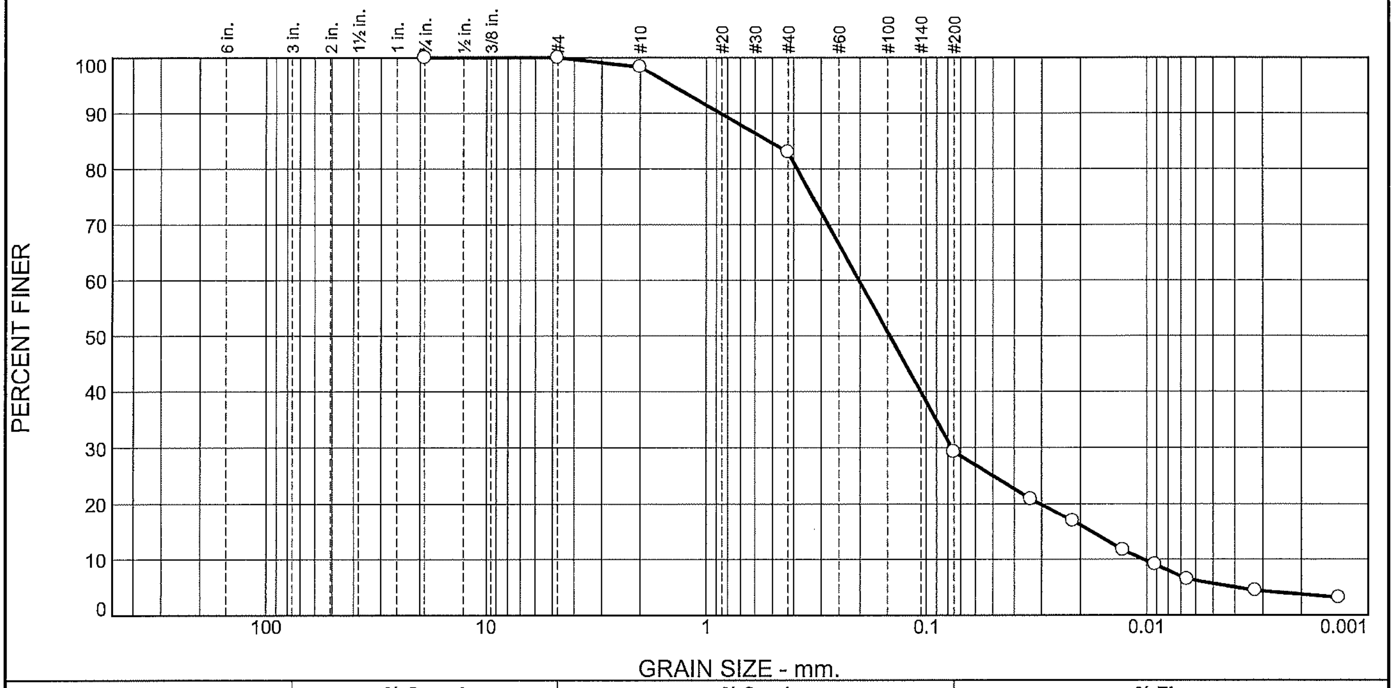
1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories
Contract: MAXXAM ANALYTICS-SI MULTIPLE SITES AFFF
Matrix (soil/water): SOIL
SDG No.: 132674
% Solids: 67.0
Lab Sample ID: 962395
Analytical Method: L-Kahn/9060A
Date Received: 12/06/2017
Dilution Factor: 1.00
TCLP/SPLP Extraction Date/time:
Analytical Run #: 145401
Analysis Date/Time 12/19/2017 15:09
Analytical Prep Batch #:
Prep. Date/Time:
ICAL Calibration #: INSTRUMENT T
Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
TOC	Total Organic Carbon	96.1	J	54	110	220	220

Particle Size Distribution Report - Hydrometer Method



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	1.7	15.3	53.7	23.6	5.7

Test Results (ASTM D 422-63 & ASTM D 2217)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.75	100.0		
#4	100.0		
#10	98.3		
#40	83.0		
#200	29.3		
0.0336 mm.	20.8		
0.0216 mm.	16.9		
0.0128 mm.	11.7		
0.0092 mm.	9.1		
0.0066 mm.	6.5		
0.0032 mm.	4.4		
0.0014 mm.	3.2		

* (no specification provided)

Client Sample Description

DOBNS05-004-SO-028

Atterberg Limits (ASTM D 4318)

PL= NP **LL=** NV **PI=** NP

Classification

USCS (D 2487)= SM **AASHTO (M 145)=** A-2-4(0)

Coefficients

D_{90}= 0.8629	D_{85}= 0.5201	D_{60}= 0.2022
D_{50}= 0.1464	D_{30}= 0.0768	D_{15}= 0.0178
D_{10}= 0.0103	C_u= 19.64	C_c= 2.83

Remarks

Date Received: 12-8-2017 **Date Tested:** 12-8-2017

Tested By: CZ-TECHNICIAN

Checked By: SMF

Title: ENVIRONMENTAL DIRECTOR

Sample Number: 962395

Date Sampled: 12-5-2017

Mi-Tech Services, Inc.

Weston, WI

Client: CT Laboratories

Project: SI MULTIPLE SITES AFFF - DOBBINS ARB, GA

Project No: 10797 (PO 132740) **Figure** 8

Sample Description

DOBNS06-004-SS-001

1

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	MAXXAM ANALYTICS-SI MULTIPLE SITES AFFF
Matrix (soil/water):	SOIL	SDG No.:	132674
% Solids:	88.9	Lab Sample ID:	962392
Analytical Method:	EPA 9045D	Date Received:	12/06/2017
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	145226	Analysis Date/Time	12/12/2017 12:40
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	S.U.

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
PH	pH	11.03	X				

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Description

DOBNS06-004-SS-001

1

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	MAXXAM ANALYTICS-SI MULTIPLE SITES AFFF
Matrix (soil/water):	SOIL	SDG No.:	132674
% Solids:	88.9	Lab Sample ID:	962392
Analytical Method:	EPA 8000C	Date Received:	12/06/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	145121	Analysis Date/Time	12/07/2017 14:31
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	88.9		0.1	0.1	0.1	0.1

Sample Description

DOBNS06-004-SS-001

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI MULTIPLE SITES AFFF

Matrix (soil/water): SOIL

SDG No.: 132674

% Solids: 88.9

Lab Sample ID: 962392

Analytical Method: L-Kahn/9060A

Date Received: 12/06/2017

Dilution Factor: 1.00

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145401

Analysis Date/Time 12/19/2017 14:05

Analytical Prep Batch #:

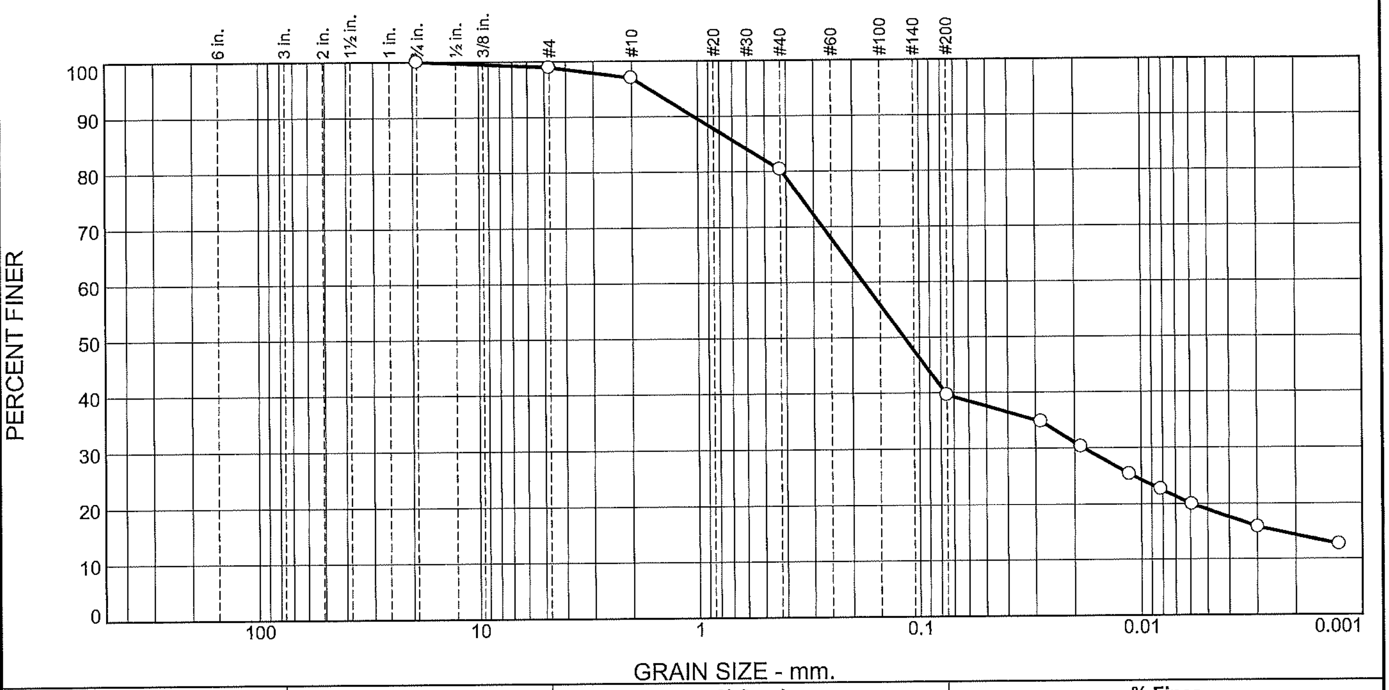
Prep. Date/Time:

ICAL Calibration #: INSTRUMENT T

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
TOC	Total Organic Carbon	14800		40	84	170	170

Particle Size Distribution Report - Hydrometer Method



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	1.1	2.0	16.5	40.8	20.7	18.9

Test Results (ASTM D 422-63 & ASTM D 2217)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.75	100.0		
#4	98.9		
#10	96.9		
#40	80.4		
#200	39.6		
0.0283 mm.	34.8		
0.0187 mm.	30.3		
0.0113 mm.	25.3		
0.0081 mm.	22.6		
0.0059 mm.	19.9		
0.0030 mm.	15.7		
0.0013 mm.	12.6		

* (no specification provided)

Client Sample Description

DOBNS06-004-SS-001

Atterberg Limits (ASTM D 4318)

PL= NP **LL=** NV **PI=** NP

Classification

USCS (D 2487)= SM **AASHTO (M 145)=** A-4(0)

Coefficients

D_{90}= 1.0459 D_{85}= 0.6550 D_{60}= 0.1786
D_{50}= 0.1167 D_{30}= 0.0182 D_{15}= 0.0024
D_{10}= C_u= C_c=

Remarks

Date Received: 12-8-2017 **Date Tested:** 12-8-2017
Tested By: CZ-TECHNICIAN
Checked By: SMF
Title: ENVIRONMENTAL DIRECTOR

Sample Number: 962392 **Date Sampled:** 12-2-2017

Mi-Tech Services, Inc.

Weston, WI

Client: CT Laboratories
Project: SI MULTIPLE SITES AFFF - DOBBINS ARB, GA
Project No: 10797 (PO 132740) **Figure** 5

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Description

DOBNS06-004-SO-030

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI MULTIPLE SITES AFFF

Matrix (soil/water): SOIL

SDG No.: 132674

% Solids: 73.6

Lab Sample ID: 962393

Analytical Method: EPA 9045D

Date Received: 12/06/2017

Dilution Factor: 1

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145226

Analysis Date/Time 12/12/2017 12:40

Analytical Prep Batch #:

Prep. Date/Time:

ICAL Calibration #:

Concentration Units: S.U.

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
PH	pH	5.35					

Sample Description

DOBNS06-004-SO-030

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI MULTIPLE SITES AFFF

Matrix (soil/water): SOIL

SDG No.: 132674

% Solids: 73.6

Lab Sample ID: 962393

Analytical Method: EPA 8000C

Date Received: 12/06/2017

Dilution Factor: 1.00

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145121

Analysis Date/Time 12/07/2017 14:31

Analytical Prep Batch #:

Prep. Date/Time:

ICAL Calibration #:

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	73.6		0.1	0.1	0.1	0.1

Sample Description

DOBNS06-004-SO-030

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI MULTIPLE SITES AFFF

Matrix (soil/water): SOIL

SDG No.: 132674

% Solids: 73.6

Lab Sample ID: 962393

Analytical Method: L-Kahn/9060A

Date Received: 12/06/2017

Dilution Factor: 1.00

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145401

Analysis Date/Time 12/19/2017 14:12

Analytical Prep Batch #:

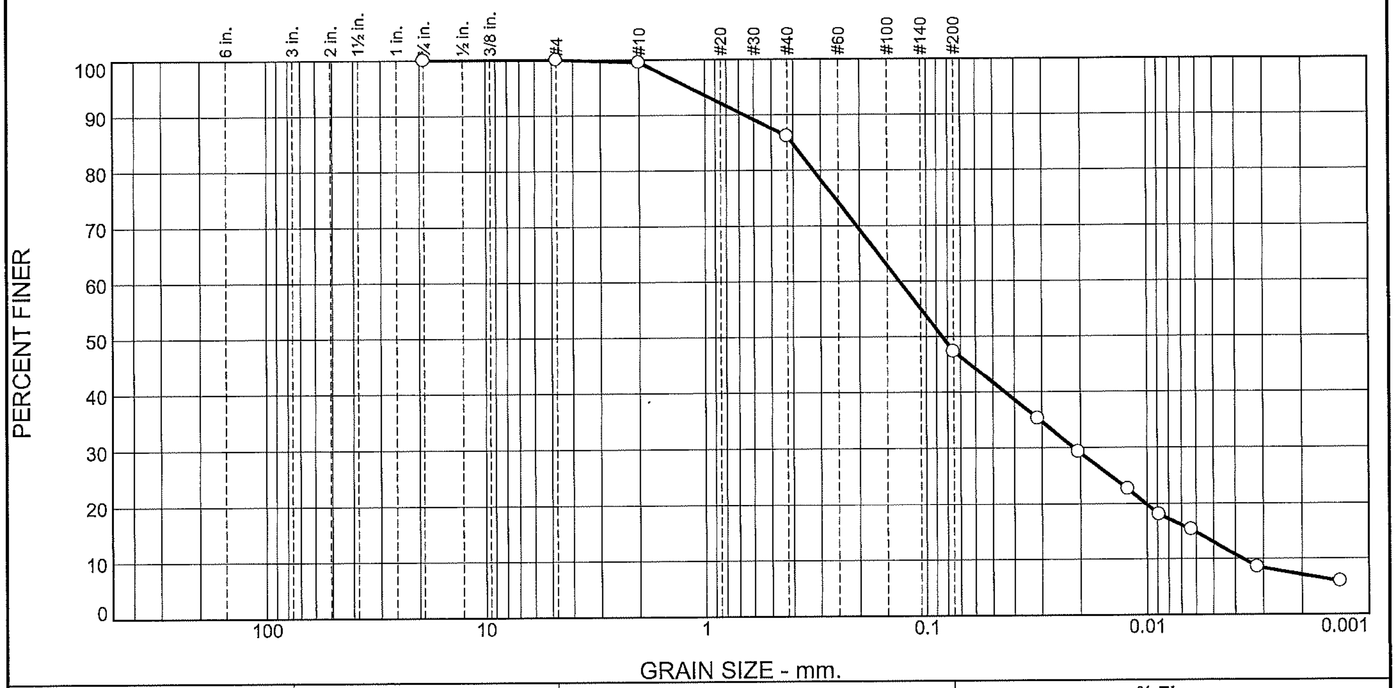
Prep. Date/Time:

ICAL Calibration #: INSTRUMENT T

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
TOC	Total Organic Carbon	63.4	J	49	100	200	200

Particle Size Distribution Report - Hydrometer Method



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.5	13.3	38.9	34.3	13.0

Test Results (ASTM D 422-63 & ASTM D 2217)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.75	100.0		
#4	100.0		
#10	99.5		
#40	86.2		
#200	47.3		
0.0312 mm.	35.3		
0.0204 mm.	29.3		
0.0122 mm.	22.6		
0.0088 mm.	17.9		
0.0063 mm.	15.3		
0.0032 mm.	8.5		
0.0013 mm.	5.9		

* (no specification provided)

Client Sample Description

DOBNS06-004-SO-030

Atterberg Limits (ASTM D 4318)

PL= NP **LL=** NV **PI=** NP

Classification

USCS (D 2487)= SM **AASHTO (M 145)=** A-4(0)

Coefficients

D_{90}= 0.6639	D_{85}= 0.4034	D_{60}= 0.1320
D_{50}= 0.0845	D_{30}= 0.0215	D_{15}= 0.0061
D_{10}= 0.0037	C_u= 35.72	C_c= 0.95

Remarks

Date Received: 12-8-2017 **Date Tested:** 12-8-2017

Tested By: CZ-TECHNICIAN

Checked By: SMF

Title: ENVIRONMENTAL DIRECTOR

Sample Number: 962393 **Date Sampled:** 12-4-2017

Mi-Tech Services, Inc.

Weston, WI

Client: CT Laboratories

Project: SI MULTIPLE SITES AFFF - DOBBINS ARB, GA

Project No: 10797 (PO 132740) **Figure** 6

Sample Description

DOBNS07-009-SS-001

1

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	MAXXAM ANALYTICS-SI MULTIPLE SITES AFFF
Matrix (soil/water):	SOIL	SDG No.:	132674
% Solids:	79.0	Lab Sample ID:	962388
Analytical Method:	EPA 9045D	Date Received:	12/06/2017
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	145226	Analysis Date/Time	12/12/2017 12:40
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	S.U.

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
PH	pH	5.70					

Sample Description

DOBNS07-009-SS-001

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI MULTIPLE SITES AFFF

Matrix (soil/water): SOIL

SDG No.: 132674

% Solids: 79.0

Lab Sample ID: 962388

Analytical Method: EPA 8000C

Date Received: 12/06/2017

Dilution Factor: 1.00

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145121

Analysis Date/Time 12/07/2017 14:31

Analytical Prep Batch #:

Prep. Date/Time:

ICAL Calibration #:

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	79.0		0.1	0.1	0.1	0.1

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Description

DOBNS07-009-SS-001

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI MULTIPLE SITES AFFF

Matrix (soil/water): SOIL

SDG No.: 132674

% Solids: 79.0

Lab Sample ID: 962388

Analytical Method: L-Kahn/9060A

Date Received: 12/06/2017

Dilution Factor: 1.00

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145401

Analysis Date/Time 12/19/2017 13:09

Analytical Prep Batch #:

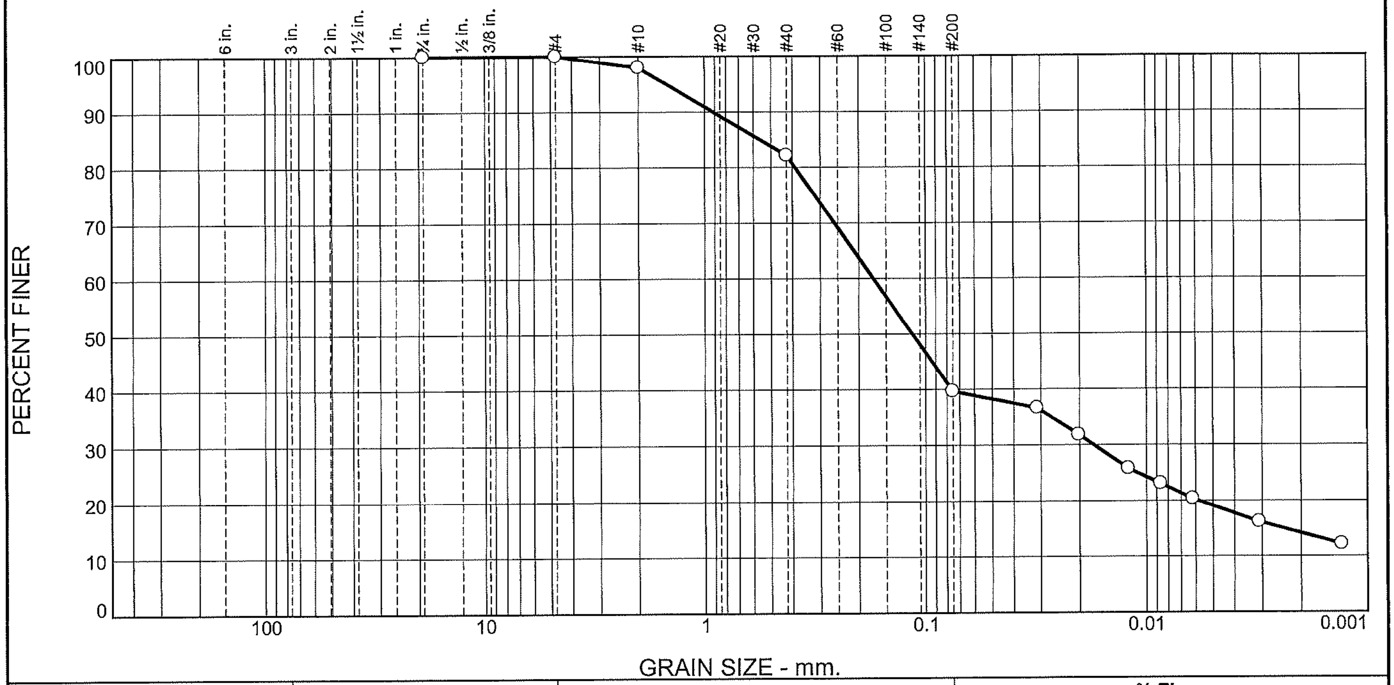
Prep. Date/Time:

ICAL Calibration #: INSTRUMENT T

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
TOC	Total Organic Carbon	886		46	95	190	190

Particle Size Distribution Report - Hydrometer Method



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	2.0	15.8	42.5	20.6	19.1

Test Results (ASTM D 422-63 & ASTM D 2217)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.75	100.0		
#4	100.0		
#10	98.0		
#40	82.2		
#200	39.7		
0.0311 mm.	36.6		
0.0202 mm.	31.9		
0.0120 mm.	25.7		
0.0086 mm.	23.0		
0.0062 mm.	20.3		
0.0031 mm.	16.2		
0.0013 mm.	12.2		

* (no specification provided)

Client Sample Description

DOBNS07-009-SS-001

Atterberg Limits (ASTM D 4318)

PL= NP **LL=** NV **PI=** NP

Classification

USCS (D 2487)= SM **AASHTO (M 145)=** A-4(0)

Coefficients

D_{90}= 0.9146 D_{85}= 0.5596 D_{60}= 0.1718
D_{50}= 0.1143 D_{30}= 0.0172 D_{15}= 0.0024
D_{10}= C_u= C_c=

Remarks

Date Received: 12-8-2017 **Date Tested:** 12-8-2017
Tested By: CZ-TECHNICIAN
Checked By: SMF
Title: ENVIRONMENTAL DIRECTOR

Sample Number: 962388 **Date Sampled:** 12-2-2017

Mi-Tech Services, Inc.

Weston, WI

Client: CT Laboratories
Project: SI MULTIPLE SITES AFFF - DOBBINS ARB, GA
Project No: 10797 (PO 132740) **Figure** 1

Sample Description

DOBNS07-009-SO-024

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI MULTIPLE SITES AFFF

Matrix (soil/water): SOIL

SDG No.: 132674

% Solids: 72.2

Lab Sample ID: 962389

Analytical Method: EPA 9045D

Date Received: 12/06/2017

Dilution Factor: 1

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145226

Analysis Date/Time 12/12/2017 12:40

Analytical Prep Batch #:

Prep. Date/Time:

ICAL Calibration #:

Concentration Units: S.U.

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
PH	pH	5.27					

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Description

DOBNS07-009-SO-024

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI MULTIPLE SITES AFFF

Matrix (soil/water): SOIL

SDG No.: 132674

% Solids: 72.2

Lab Sample ID: 962389

Analytical Method: EPA 8000C

Date Received: 12/06/2017

Dilution Factor: 1.00

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145121

Analysis Date/Time 12/07/2017 14:31

Analytical Prep Batch #:

Prep. Date/Time:

ICAL Calibration #:

Concentration Units: %

CAS #	**Analyte**	**Concentration**	**Qualifiers**	**DL**	**LOD**	**LOQ**	**RL**
SOLID	Solids, Percent	72.2		0.1	0.1	0.1	0.1

Sample Description

DOBNS07-009-SO-024

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI MULTIPLE SITES AFFF

Matrix (soil/water): SOIL

SDG No.: 132674

% Solids: 72.2

Lab Sample ID: 962389

Analytical Method: L-Kahn/9060A

Date Received: 12/06/2017

Dilution Factor: 1.00

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145401

Analysis Date/Time 12/19/2017 13:15

Analytical Prep Batch #:

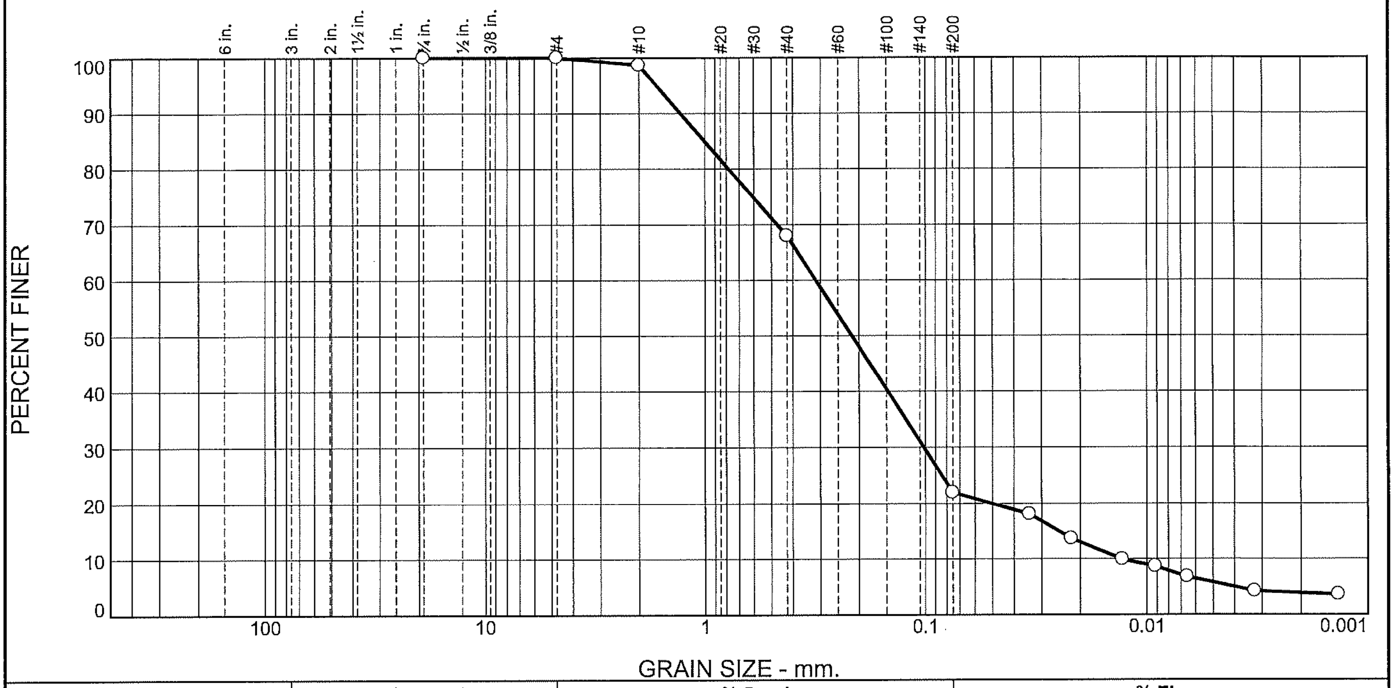
Prep. Date/Time:

ICAL Calibration #: INSTRUMENT T

Concentration Units: mg/kg

CAS #	**Analyte**	**Concentration**	**Qualifiers**	**DL**	**LOD**	**LOQ**	**RL**
TOC	Total Organic Carbon	82.5	J	50	100	210	210

Particle Size Distribution Report - Hydrometer Method



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	1.4	30.6	46.0	16.2	5.8

Test Results (ASTM D 422-63 & ASTM D 2217)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.75	100.0		
#4	100.0		
#10	98.6		
#40	68.0		
#200	22.0		
0.0339 mm.	18.0		
0.0219 mm.	13.7		
0.0129 mm.	9.9		
0.0092 mm.	8.7		
0.0065 mm.	6.8		
0.0032 mm.	4.2		
0.0014 mm.	3.6		

* (no specification provided)

Client Sample Description

DOBNS07-009-SO-024

Atterberg Limits (ASTM D 4318)

PL= NP **LL=** NV **PI=** NP

Classification

USCS (D 2487)= SM **AASHTO (M 145)=** A-2-4(0)

Coefficients

D_{90}= 1.2927	D_{85}= 1.0040	D_{60}= 0.3145
D_{50}= 0.2158	D_{30}= 0.1015	D_{15}= 0.0251
D_{10}= 0.0130	C_u= 24.12	C_c= 2.51

Remarks

Date Received: 12-8-2017 **Date Tested:** 12-8-2017

Tested By: CZ-TECHNICIAN

Checked By: SMF

Title: ENVIRONMENTAL DIRECTOR

Sample Number: 962389 **Date Sampled:** 12-2-2017

Mi-Tech Services, Inc.

Weston, WI

Client: CT Laboratories

Project: SI MULTIPLE SITES AFFF - DOBBINS ARB, GA

Project No: 10797 (PO 132740) **Figure** 2

Sample Description

DOBNS08-007-SS-001

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES

Matrix (soil/water): SOIL

SDG No.: 132674

% Solids: 81.1

Lab Sample ID: 960754

Analytical Method: EPA 9045D

Date Received: 12/04/2017

Dilution Factor: 1

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145226

Analysis Date/Time 12/12/2017 12:40

Analytical Prep Batch #:

Prep. Date/Time:

ICAL Calibration #:

Concentration Units: S.U.

CAS #	**Analyte**	**Concentration**	**Qualifiers**	**DL**	**LOD**	**LOQ**	**RL**
PH	pH	6.51					

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Description

DOBNS08-007-SS-001

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories
Matrix (soil/water): SOIL
% Solids: 81.1
Analytical Method: EPA 8000C
Dilution Factor: 1.00
Analytical Run #: 145044
Analytical Prep Batch #:
ICAL Calibration #:

Contract: MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES
SDG No.: 132674
Lab Sample ID: 960754
Date Received: 12/04/2017
TCLP/SPLP Extraction Date/time:
Analysis Date/Time 12/06/2017 11:25
Prep. Date/Time:
Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	81.1		0.1	0.1	0.1	0.1

Sample Description

DOBNS08-007-SS-001

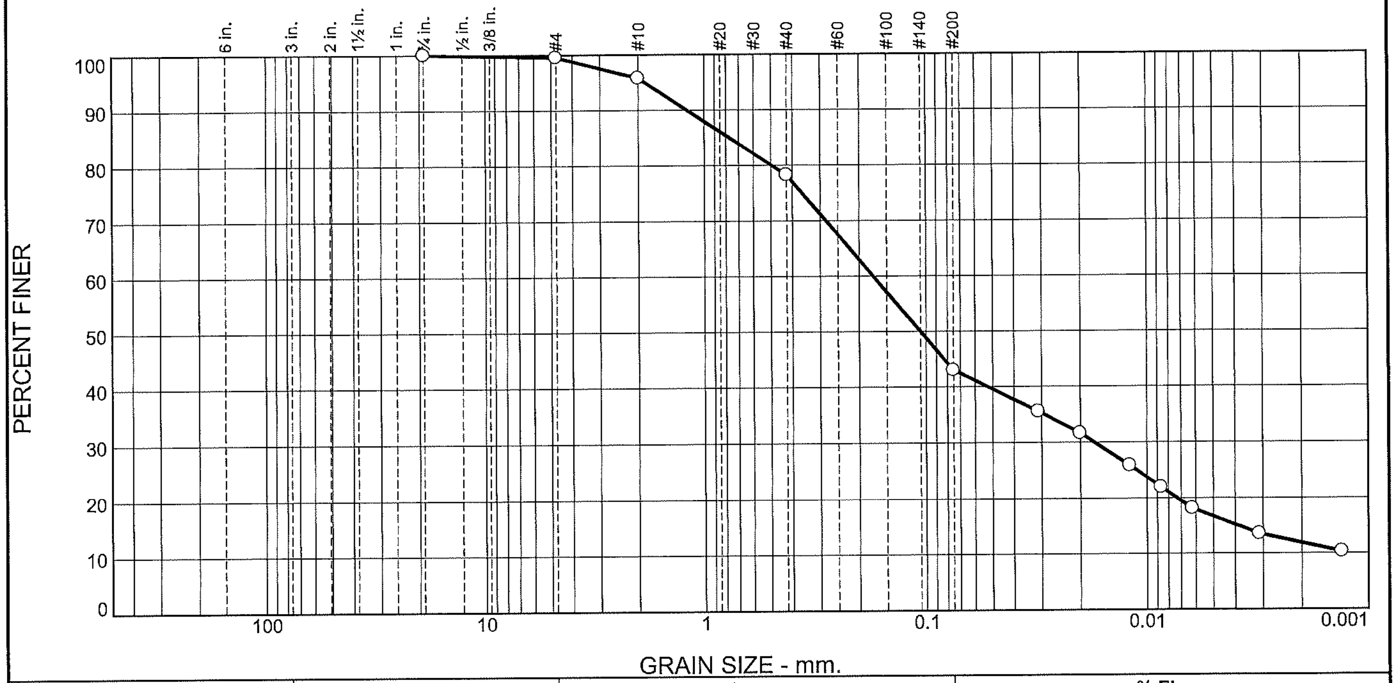
1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories
Contract: MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES
Matrix (soil/water): SOIL
SDG No.: 132674
% Solids: 81.1
Lab Sample ID: 960754
Analytical Method: L-Kahn/9060A
Date Received: 12/04/2017
Dilution Factor: 1.00
TCLP/SPLP Extraction Date/time:
Analytical Run #: 145330
Analysis Date/Time 12/15/2017 11:41
Analytical Prep Batch #:
Prep. Date/Time:
ICAL Calibration #: "
Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
TOC	Total Organic Carbon	7350		44	92	180	180

Particle Size Distribution Report - Hydrometer Method



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.5	3.8	17.4	35.3	26.3	16.7

Test Results (ASTM D 422-63 & ASTM D 2217)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.75	100.0		
#4	99.5		
#10	95.7		
#40	78.3		
#200	43.0		
0.0310 mm.	35.6		
0.0200 mm.	31.7		
0.0119 mm.	25.8		
0.0086 mm.	22.0		
0.0062 mm.	18.1		
0.0031 mm.	13.5		
0.0013 mm.	10.3		

* (no specification provided)

Client Sample Description

DOBNS08-007-SS-001

Atterberg Limits (ASTM D 4318)

PL= NP **LL=** NV **PI=** NP

Classification

USCS (D 2487)= SM **AASHTO (M 145)=** A-4(0)

Coefficients

D_{90}= 1.2017 D_{85}= 0.7709 D_{60}= 0.1728
D_{50}= 0.1057 D_{30}= 0.0173 D_{15}= 0.0039
D_{10}= C_u= C_c=

Remarks

Date Received: 12-6-2017 **Date Tested:** 12-6-2017
Tested By: CZ-TECHNICIAN
Checked By: SMF
Title: ENVIRONMENTAL DIRECTOR

Sample Number: 960754 **Date Sampled:** 11-30-2017

Mi-Tech Services, Inc.

Weston, WI

Client: CT Laboratories
Project: SI AFFF MULTIPLE SITES - DOBBINS ARB, GA
Project No: 10794 (PO 132674) **Figure** 3

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Description

DOBNS08-007-SO-005

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES

Matrix (soil/water): SOIL

SDG No.: 132674

% Solids: 74.7

Lab Sample ID: 960755

Analytical Method: EPA 9045D

Date Received: 12/04/2017

Dilution Factor: 1

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145226

Analysis Date/Time 12/12/2017 12:40

Analytical Prep Batch #:

Prep. Date/Time:

ICAL Calibration #:

Concentration Units: S.U.

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
PH	pH	5.45					

Sample Description

DOBNS08-007-SO-005

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES

Matrix (soil/water): SOIL

SDG No.: 132674

% Solids: 74.7

Lab Sample ID: 960755

Analytical Method: EPA 8000C

Date Received: 12/04/2017

Dilution Factor: 1.00

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145044

Analysis Date/Time 12/06/2017 11:25

Analytical Prep Batch #:

Prep. Date/Time:

ICAL Calibration #:

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	74.7		0.1	0.1	0.1	0.1

Sample Description

DOBNS08-007-SO-005

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES

Matrix (soil/water): SOIL

SDG No.: 132674

% Solids: 74.7

Lab Sample ID: 960755

Analytical Method: L-Kahn/9060A

Date Received: 12/04/2017

Dilution Factor: 1.00

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145330

Analysis Date/Time 12/15/2017 11:54

Analytical Prep Batch #:

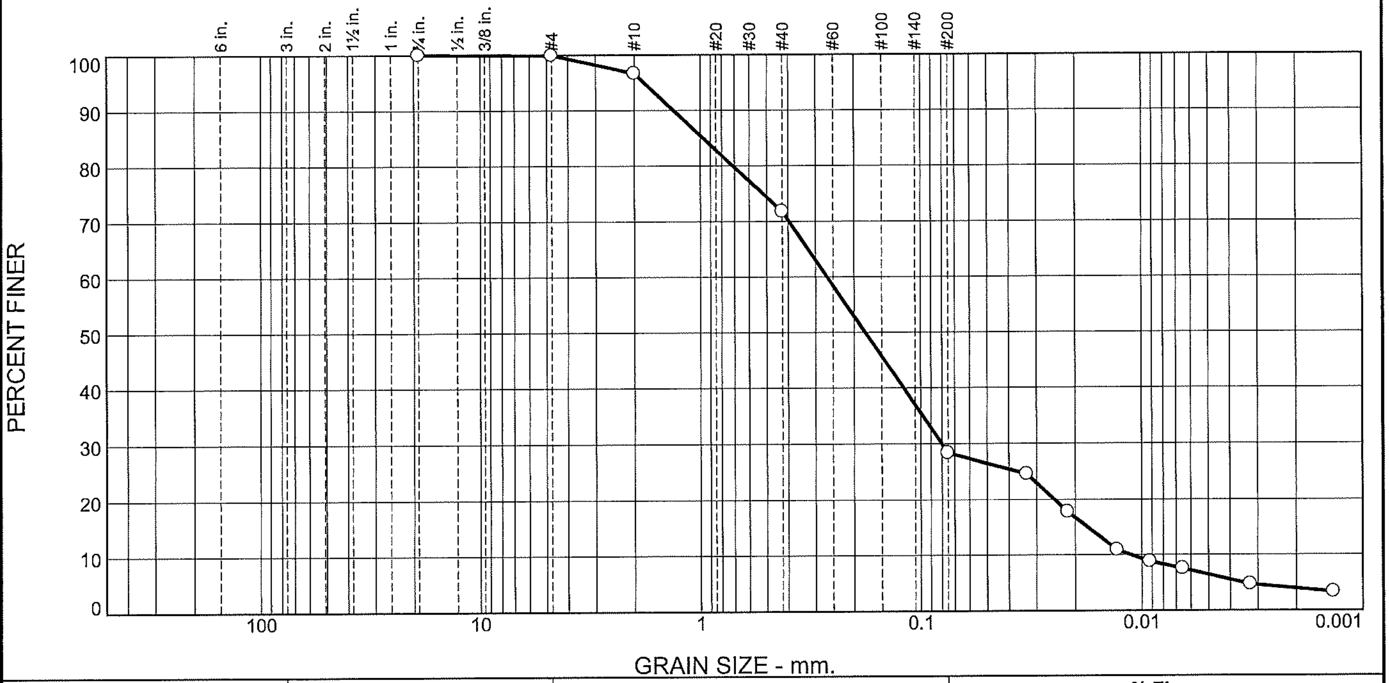
Prep. Date/Time:

ICAL Calibration #: "

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
TOC	Total Organic Carbon	80.1	J	48	100	200	200

Particle Size Distribution Report - Hydrometer Method



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.1	3.3	24.8	43.4	21.9	6.5

Test Results (ASTM D 422-63 & ASTM D 2217)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.75	100.0		
#4	99.9		
#10	96.6		
#40	71.8		
#200	28.4		
0.0331 mm.	24.6		
0.0216 mm.	17.7		
0.0129 mm.	10.9		
0.0092 mm.	8.8		
0.0065 mm.	7.5		
0.0032 mm.	4.7		
0.0014 mm.	3.4		

* (no specification provided)

Client Sample Description

DOBNS08-007-SO-005

Atterberg Limits (ASTM D 4318)

PL= NP **LL=** NV **PI=** NP

Classification

USCS (D 2487)= SM **AASHTO (M 145)=** A-2-4(0)

Coefficients

D_{90}= 1.3259	D_{85}= 0.9707	D_{60}= 0.2656
D_{50}= 0.1780	D_{30}= 0.0800	D_{15}= 0.0176
D_{10}= 0.0111	C_u= 23.83	C_c= 2.16

Remarks

Date Received: 12-6-2017 **Date Tested:** 12-6-2017

Tested By: CZ-TECHNICIAN

Checked By: SMF

Title: ENVIRONMENTAL DIRECTOR

Sample Number: 960755 **Date Sampled:** 11-30-2017

Mi-Tech Services, Inc.

Weston, WI

Client: CT Laboratories

Project: SI AFFF MULTIPLE SITES - DOBBINS ARB, GA

Project No: 10794 (PO 132674) **Figure** 4

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Description

DOBNS09-004-SS-001

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES

Matrix (soil/water): SOIL

SDG No.: 133020

% Solids: 83.1

Lab Sample ID: 966660

Analytical Method: EPA 9045D

Date Received: 12/18/2017

Dilution Factor: 1

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145448

Analysis Date/Time 12/20/2017 11:14

Analytical Prep Batch #:

Prep. Date/Time:

ICAL Calibration #:

Concentration Units: S.U.

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
PH	pH	6.90		0.1	0.1	0.1	0.1

Sample Description

DOBNS09-004-SS-001

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES

Matrix (soil/water): SOIL

SDG No.: 133020

% Solids: 83.1

Lab Sample ID: 966660

Analytical Method: EPA 8000C

Date Received: 12/18/2017

Dilution Factor: 1.00

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145465

Analysis Date/Time 12/20/2017 13:15

Analytical Prep Batch #:

Prep. Date/Time:

ICAL Calibration #:

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	83.1		0.1	0.1	0.1	0.1

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Description

DOBNS09-004-SS-001

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES

Matrix (soil/water): SOIL

SDG No.: 133020

% Solids: 83.1

Lab Sample ID: 966660

Analytical Method: L-Kahn/9060A

Date Received: 12/18/2017

Dilution Factor: 1.00

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145580

Analysis Date/Time 12/29/2017 15:26

Analytical Prep Batch #:

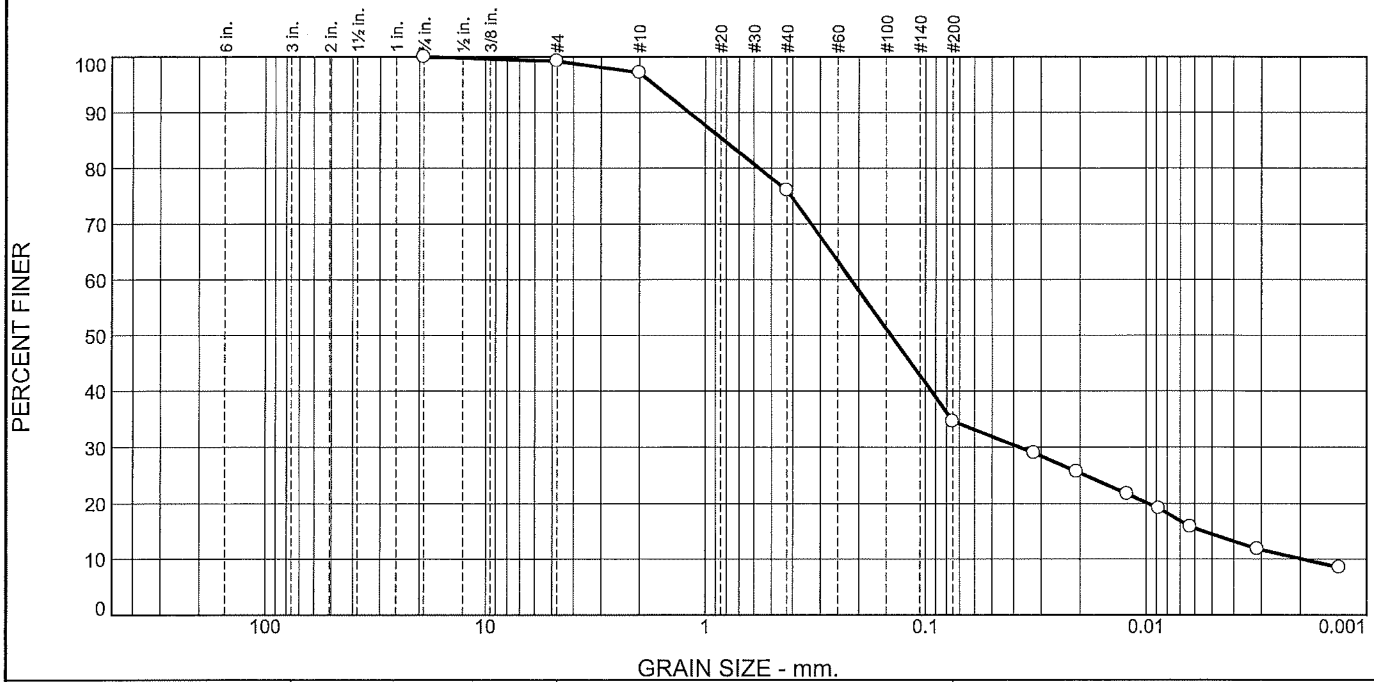
Prep. Date/Time:

ICAL Calibration #: INSTRUMENT T

Concentration Units: mg/kg

CAS #	**Analyte**	**Concentration**	**Qualifiers**	**DL**	**LOD**	**LOQ**	**RL**
TOC	Total Organic Carbon	4650		43	90	180	180

Particle Size Distribution Report - Hydrometer Method



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.8	2.1	21.0	41.4	20.2	14.5

Test Results (ASTM D 422-63 & ASTM D 2217)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.75	100.0		
#4	99.2		
#10	97.1		
#40	76.1		
#200	34.7		
0.0322 mm.	29.0		
0.0207 mm.	25.7		
0.0122 mm.	21.7		
0.0088 mm.	19.1		
0.0063 mm.	15.8		
0.0031 mm.	11.8		
0.0013 mm.	8.5		

* (no specification provided)

Client Sample Description

DOBNS09-004-SS-001

Atterberg Limits (ASTM D 4318)

PL= NP **LL=** NV **PI=** NP

Classification

USCS (D 2487)= SM **AASHTO (M 145)=** A-2-4(0)

Coefficients

D_{90}= 1.1865 D_{85}= 0.8210 D_{60}= 0.2169
D_{50}= 0.1426 D_{30}= 0.0375 D_{15}= 0.0055
D_{10}= 0.0019 C_u= 111.25 C_c= 3.32

Remarks

Date Received: 12-20-2017 **Date Tested:** 12-20-2017
Tested By: CZ/NW
Checked By: SMF
Title: ENVIRONMENTAL DIRECTOR

Sample Number: 966660 **Date Sampled:** 12-11-2017

Mi-Tech Services, Inc.

Weston, WI

Client: CT Laboratories
Project: SI AFFF MULTIPLE SITES - Dobbins ARB, GA
Project No: 10808 (PO# 133020 **Figure** 15

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Description

DOBNS09-004-SO-009

1
INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES
Matrix (soil/water):	SOIL	SDG No.:	133020
% Solids:	65.2	Lab Sample ID:	966659
Analytical Method:	EPA 9045D	Date Received:	12/18/2017
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	145448	Analysis Date/Time	12/20/2017 11:14
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	S.U.

CAS #	**Analyte**	**Concentration**	**Qualifiers**	**DL**	**LOD**	**LOQ**	**RL**
PH	pH	5.56		0.1	0.1	0.1	0.1

Sample Description

DOBNS09-004-SO-009

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES

Matrix (soil/water): SOIL

SDG No.: 133020

% Solids: 65.2

Lab Sample ID: 966659

Analytical Method: EPA 8000C

Date Received: 12/18/2017

Dilution Factor: 1.00

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145465

Analysis Date/Time 12/20/2017 13:15

Analytical Prep Batch #:

Prep. Date/Time:

ICAL Calibration #:

Concentration Units: %

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	65.2		0.1	0.1	0.1	0.1

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Description

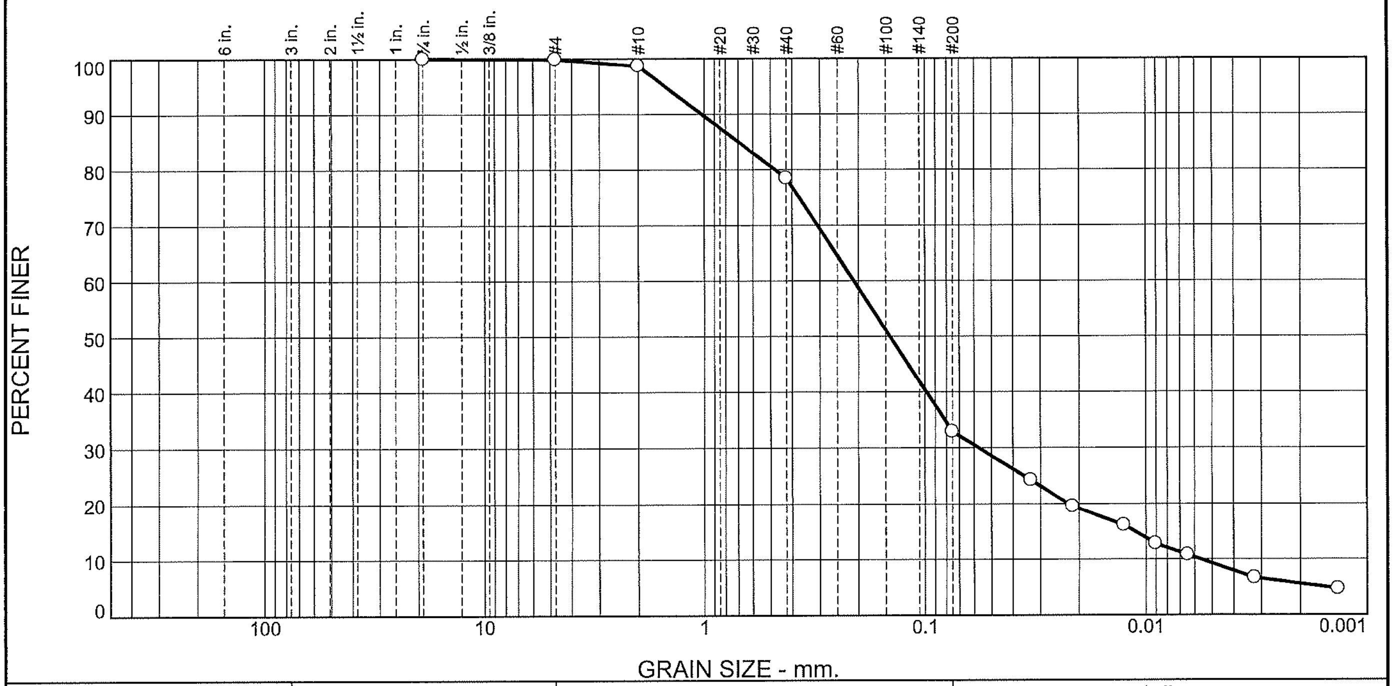
DOBNS09-004-SO-009

1
INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories
Contract: MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES
Matrix (soil/water): SOIL
SDG No.: 133020
% Solids: 65.2
Lab Sample ID: 966659
Analytical Method: L-Kahn/9060A
Date Received: 12/18/2017
Dilution Factor: 1.00
TCLP/SPLP Extraction Date/time:
Analytical Run #: 145580
Analysis Date/Time 01/02/2018 10:26
Analytical Prep Batch #:
Prep. Date/Time:
ICAL Calibration #: INSTRUMENT T
Concentration Units: mg/kg

CAS #	**Analyte**	**Concentration**	**Qualifiers**	**DL**	**LOD**	**LOQ**	**RL**
TOC	Total Organic Carbon	120	U	55	120	230	230

Particle Size Distribution Report - Hydrometer Method



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.1	1.2	20.2	45.6	23.6	9.3

Test Results (ASTM D 422-63 & ASTM D 2217)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.75	100.0		
#4	99.9		
#10	98.7		
#40	78.5		
#200	32.9		
0.0331 mm.	24.2		
0.0214 mm.	19.5		
0.0125 mm.	16.2		
0.0090 mm.	12.8		
0.0064 mm.	10.8		
0.0032 mm.	6.7		
0.0013 mm.	4.7		

* (no specification provided)

Client Sample Description

DOBNS09-004-SO-009

Atterberg Limits (ASTM D 4318)

PL= NP **LL=** NV **PI=** NP

Classification

USCS (D 2487)= SM **AASHTO (M 145)=** A-2-4(0)

Coefficients

D_{90}= 1.0275	D_{85}= 0.6994	D_{60}= 0.2102
D_{50}= 0.1437	D_{30}= 0.0571	D_{15}= 0.0112
D_{10}= 0.0056	C_u= 37.22	C_c= 2.74

Remarks

Date Received: 12-20-2017 **Date Tested:** 12-20-2017

Tested By: CZ/NW

Checked By: SMF

Title: ENVIRONMENTAL DIRECTOR

Sample Number: 966659

Date Sampled: 12-11-2017

Mi-Tech Services, Inc.

Weston, WI

Client: CT Laboratories

Project: SI AFFF MULTIPLE SITES - Dobbins ARB, GA

Project No: 10808 (PO# 133020 **Figure** 14

Sample Description

DOBNS10-004-SS-001

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES

Matrix (soil/water): SOIL

SDG No.: 132674

% Solids: 78.8

Lab Sample ID: 960758

Analytical Method: EPA 9045D

Date Received: 12/04/2017

Dilution Factor: 1

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145226

Analysis Date/Time 12/12/2017 12:40

Analytical Prep Batch #:

Prep. Date/Time:

ICAL Calibration #:

Concentration Units: S.U.

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
PH	pH	5.35					

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Description

DOBNS10-004-SS-001

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES

Matrix (soil/water): SOIL

SDG No.: 132674

% Solids: 78.8

Lab Sample ID: 960758

Analytical Method: EPA 8000C

Date Received: 12/04/2017

Dilution Factor: 1.00

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145044

Analysis Date/Time 12/06/2017 11:25

Analytical Prep Batch #:

Prep. Date/Time:

ICAL Calibration #:

Concentration Units: %

CAS #	**Analyte**	**Concentration**	**Qualifiers**	**DL**	**LOD**	**LOQ**	**RL**
SOLID	Solids, Percent	78.8		0.1	0.1	0.1	0.1

Sample Description

1

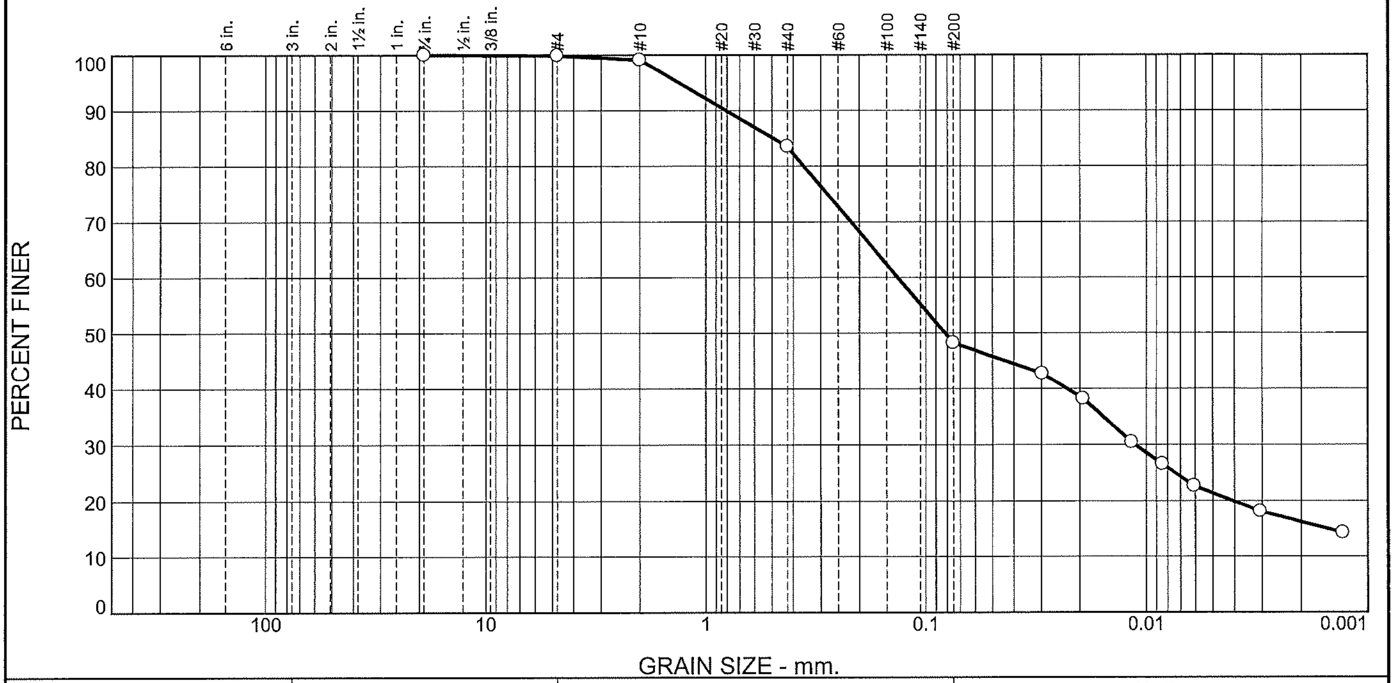
DOBNS10-004-SS-001

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES
Matrix (soil/water):	SOIL	SDG No.:	132674
% Solids:	78.8	Lab Sample ID:	960758
Analytical Method:	L-Kahn/9060A	Date Received:	12/04/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	145330	Analysis Date/Time	12/15/2017 12:38
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:	"	Concentration Units:	mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
TOC	Total Organic Carbon	7200		46	95	190	190

Particle Size Distribution Report - Hydrometer Method



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.1	0.8	15.6	35.3	26.8	21.4

Test Results (ASTM D 422-63 & ASTM D 2217)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.75	100.0		
#4	99.9		
#10	99.1		
#40	83.5		
#200	48.2		
0.0297 mm.	42.7		
0.0193 mm.	38.2		
0.0116 mm.	30.4		
0.0084 mm.	26.5		
0.0061 mm.	22.6		
0.0030 mm.	18.1		
0.0013 mm.	14.2		

* (no specification provided)

Client Sample Description

DOBNS10-004-SS-001

Atterberg Limits (ASTM D 4318)

PL= NP **LL=** NV **PI=** NP

Classification

USCS (D 2487)= SM **AASHTO (M 145)=** A-4(0)

Coefficients

D_{90}= 0.8093	D_{85}= 0.4921	D_{60}= 0.1337
D_{50}= 0.0817	D_{30}= 0.0113	D_{15}= 0.0015
D_{10}=	C_u=	C_c=

Remarks

Date Received: 12-6-2017 **Date Tested:** 12-6-2017

Tested By: CZ-TECHNICIAN

Checked By: SMF

Title: ENVIRONMENTAL DIRECTOR

Sample Number: 960758

Date Sampled: 11-30-2017

Mi-Tech Services, Inc.

Weston, WI

Client: CT Laboratories

Project: SI AFFF MULTIPLE SITES - DOBBINS ARB, GA

Project No: 10794 (PO 132674) **Figure** 7

Sample Description

DOBNS10-004-SO-019

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES

Matrix (soil/water): SOIL

SDG No.: 132674

% Solids: 67.5

Lab Sample ID: 960759

Analytical Method: EPA 9045D

Date Received: 12/04/2017

Dilution Factor: 1

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145226

Analysis Date/Time 12/12/2017 12:40

Analytical Prep Batch #:

Prep. Date/Time:

ICAL Calibration #:

Concentration Units: S.U.

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
PH	pH	4.94					

Sample Description

DOBNS10-004-SO-019

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES

Matrix (soil/water): SOIL

SDG No.: 132674

% Solids: 67.5

Lab Sample ID: 960759

Analytical Method: EPA 8000C

Date Received: 12/04/2017

Dilution Factor: 1.00

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145044

Analysis Date/Time 12/06/2017 11:25

Analytical Prep Batch #:

Prep. Date/Time:

ICAL Calibration #:

Concentration Units: %

CAS #	**Analyte**	**Concentration**	**Qualifiers**	**DL**	**LOD**	**LOQ**	**RL**
SOLID	Solids, Percent	67.5		0.1	0.1	0.1	0.1

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Description

DOBNS10-004-SO-019

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES

Matrix (soil/water): SOIL

SDG No.: 132674

% Solids: 67.5

Lab Sample ID: 960759

Analytical Method: L-Kahn/9060A

Date Received: 12/04/2017

Dilution Factor: 1.00

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145330

Analysis Date/Time 12/15/2017 12:47

Analytical Prep Batch #:

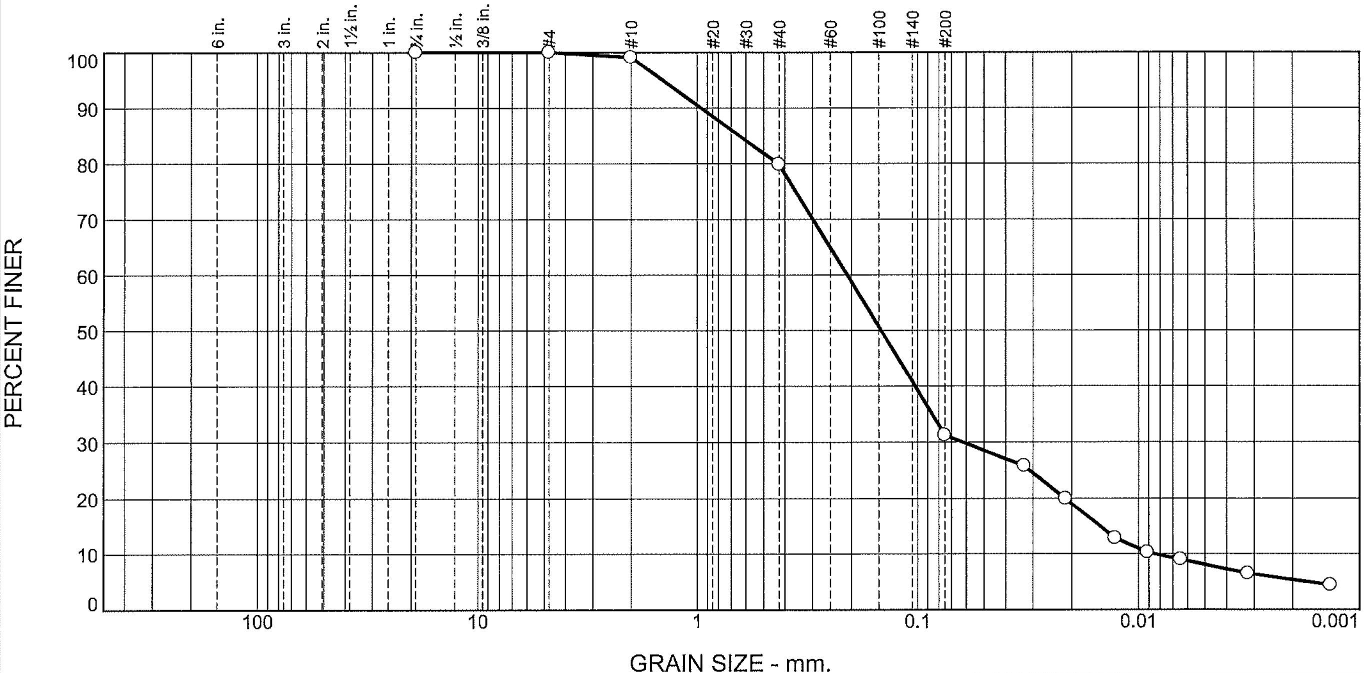
Prep. Date/Time:

ICAL Calibration #: "

Concentration Units: mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
TOC	Total Organic Carbon	416		53	110	220	220

Particle Size Distribution Report - Hydrometer Method



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.9	19.2	48.6	23.2	8.1

Test Results (ASTM D 422-63 & ASTM D 2217)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.75	100.0		
#4	100.0		
#10	99.1		
#40	79.9		
#200	31.3		
0.0328 mm.	25.7		
0.0214 mm.	19.9		
0.0128 mm.	12.8		
0.0091 mm.	10.3		
0.0064 mm.	9.0		
0.0032 mm.	6.5		
0.0014 mm.	4.4		

* (no specification provided)

Client Sample Description

DOBNS10-004-SO-019

Atterberg Limits (ASTM D 4318)

PL= NP **LL=** NV **PI=** NP

Classification

USCS (D 2487)= SM **AASHTO (M 145)=** A-2-4(0)

Coefficients

D_{90}= 0.9604 D_{85}= 0.6415 D_{60}= 0.2090
D_{50}= 0.1463 D_{30}= 0.0621 D_{15}= 0.0150
D_{10}= 0.0085 C_u= 24.67 C_c= 2.18

Remarks

Date Received: 12-6-2017 **Date Tested:** 12-6-2017
Tested By: CZ-TECHNICIAN
Checked By: SMF
Title: ENVIRONMENTAL DIRECTOR

Sample Number: 960759

Date Sampled: 11-30-2017

Mi-Tech Services, Inc.

Weston, WI

Client: CT Laboratories
Project: SI AFFF MULTIPLE SITES - DOBBINS ARB, GA
Project No: 10794 (PO 132674) **Figure** 8

Sample Description

DOBNS11-004-SS-001

1

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES
Matrix (soil/water):	SOIL	SDG No.:	132674
% Solids:	82.0	Lab Sample ID:	960753
Analytical Method:	EPA 9045D	Date Received:	12/04/2017
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	145226	Analysis Date/Time	12/12/2017 12:40
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	S.U.

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
PH	pH	6.19					

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Description

DOBNS11-004-SS-001

1

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES
Matrix (soil/water):	SOIL	SDG No.:	132674
% Solids:	82.0	Lab Sample ID:	960753
Analytical Method:	EPA 8000C	Date Received:	12/04/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	145044	Analysis Date/Time	12/06/2017 11:25
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	82.0		0.1	0.1	0.1	0.1

Sample Description

DOBNS11-004-SS-001

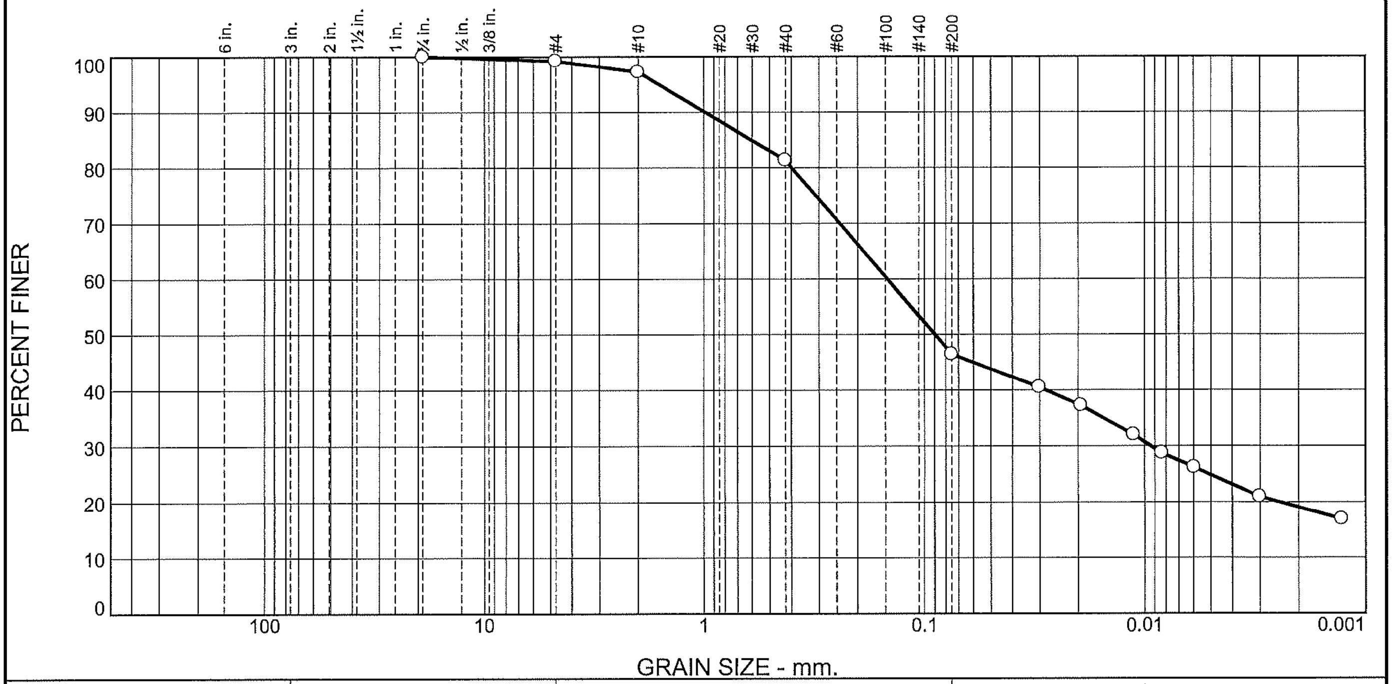
1

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES
Matrix (soil/water):	SOIL	SDG No.:	132674
% Solids:	82.0	Lab Sample ID:	960753
Analytical Method:	L-Kahn/9060A	Date Received:	12/04/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	145330	Analysis Date/Time	12/15/2017 11:28
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:	"	Concentration Units:	mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
TOC	Total Organic Carbon	11700		44	91	180	180

Particle Size Distribution Report - Hydrometer Method



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.8	2.0	15.8	34.9	21.7	24.8

Test Results (ASTM D 422-63 & ASTM D 2217)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.75	100.0		
#4	99.2		
#10	97.2		
#40	81.4		
#200	46.5		
0.0302 mm.	40.6		
0.0195 mm.	37.3		
0.0112 mm.	32.0		
0.0083 mm.	28.7		
0.0060 mm.	26.2		
0.0030 mm.	20.9		
0.0013 mm.	16.9		

* (no specification provided)

Client Sample Description

DOBNS11-004-SS-001

Atterberg Limits (ASTM D 4318)

PL= NP **LL=** NV **PI=** NP

Classification

USCS (D 2487)= SM **AASHTO (M 145)=** A-4(0)

Coefficients

D_{90}= 0.9867	D_{85}= 0.6059	D_{60}= 0.1470
D_{50}= 0.0894	D_{30}= 0.0093	D_{15}=
D_{10}=	C_u=	C_c=

Remarks

Date Received: 12-6-2017 **Date Tested:** 12-6-2017

Tested By: CZ-TECHNICIAN

Checked By: SMF

Title: ENVIRONMENTAL DIRECTOR

Sample Number: 960753

Date Sampled: 11-29-2017

Mi-Tech Services, Inc.

Weston, WI

Client: CT Laboratories

Project: SI AFFF MULTIPLE SITES - DOBBINS ARB, GA

Project No: 10794 (PO 132674) **Figure** 2

Sample Description

DOBNS11-004-SO-021

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES

Matrix (soil/water): SOIL

SDG No.: 132674

% Solids: 70.5

Lab Sample ID: 960746

Analytical Method: EPA 9045D

Date Received: 12/04/2017

Dilution Factor: 1

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145226

Analysis Date/Time 12/12/2017 12:40

Analytical Prep Batch #:

Prep. Date/Time:

ICAL Calibration #:

Concentration Units: S.U.

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
PH	pH	5.13					

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Description

DOBNS11-004-SO-021

1

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES
Matrix (soil/water):	SOIL	SDG No.:	132674
% Solids:	70.5	Lab Sample ID:	960746
Analytical Method:	EPA 8000C	Date Received:	12/04/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	145044	Analysis Date/Time	12/06/2017 11:25
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	70.5		0.1	0.1	0.1	0.1

Sample Description

DOBNS11-004-SO-021

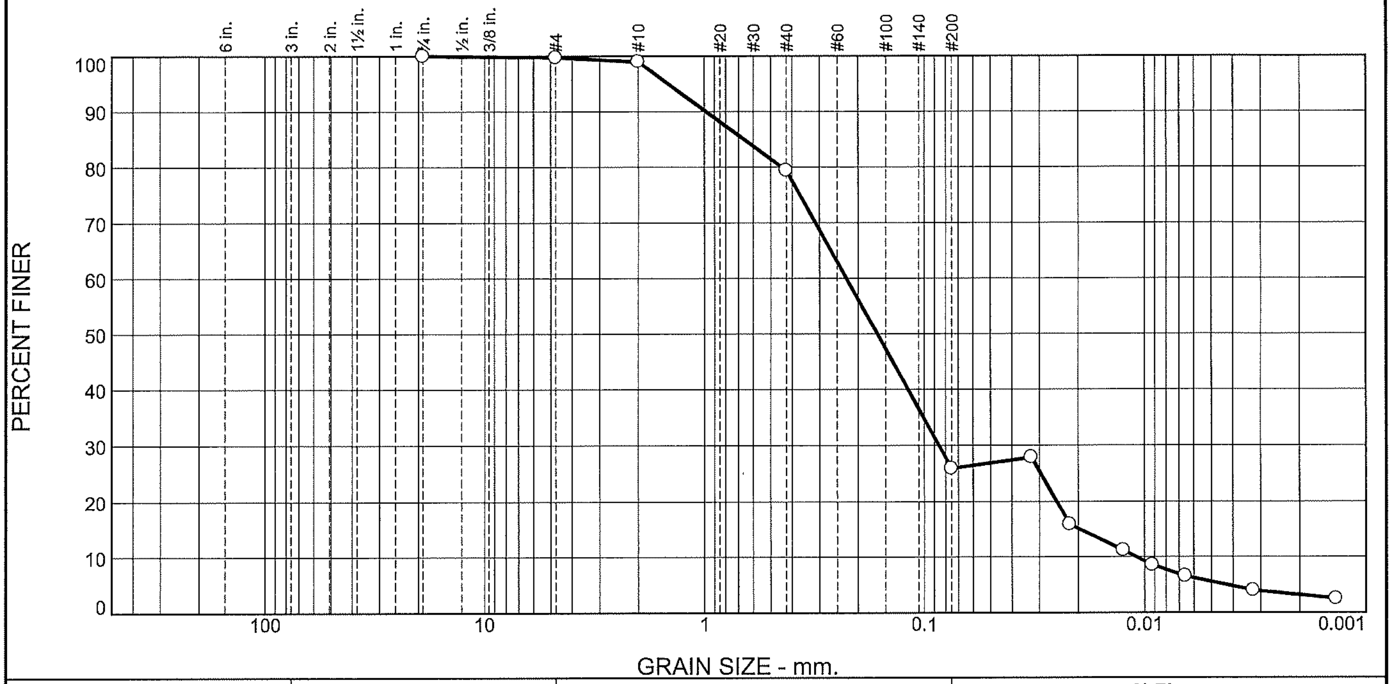
1

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES
Matrix (soil/water):	SOIL	SDG No.:	132674
% Solids:	70.5	Lab Sample ID:	960746
Analytical Method:	L-Kahn/9060A	Date Received:	12/04/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	145330	Analysis Date/Time	12/15/2017 13:01
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
TOC	Total Organic Carbon	104	J Y	51	110	210	210

Particle Size Distribution Report - Hydrometer Method



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.3	0.8	19.5	53.5	20.3	5.6

Test Results (ASTM D 422-63 & ASTM D 2217)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.75	100.0		
#4	99.7		
#10	98.9		
#40	79.4		
#200	25.9		
0.0325 mm.	27.9		
0.0218 mm.	15.8		
0.0125 mm.	11.2		
0.0092 mm.	8.6		
0.0066 mm.	6.6		
0.0032 mm.	4.0		
0.0014 mm.	2.5		

* (no specification provided)

Client Sample Description

DOBNS11-004-SO-021

Atterberg Limits (ASTM D 4318)

PL= NP **LL=** NV **PI=** NP

Classification

USCS (D 2487)= SM **AASHTO (M 145)=** A-2-4(0)

Coefficients

D_{90}= 0.9836 D_{85}= 0.6611 D_{60}= 0.2264
D_{50}= 0.1637 D_{30}= 0.0857 D_{15}= 0.0197
D_{10}= 0.0109 C_u= 20.80 C_c= 2.98

Remarks

Date Received: 12-6-2017 **Date Tested:** 12-6-2017
Tested By: CZ - TECHNICIAN
Checked By: SMF
Title: ENVIRONMENTAL DIRECTOR

Sample Number: 960746 **Date Sampled:** 11-29-2017

Mi-Tech Services, Inc.

Weston, WI

Client: CT Laboratories
Project: SI AFFF MULTIPLE SITES - DOBBINS ARB, GA
Project No: 10794 (PO 132674) **Figure** 1

Sample Description

DOBNS12-004-SS-001

1

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES
Matrix (soil/water):	SOIL	SDG No.:	133020
% Solids:	84.0	Lab Sample ID:	966651
Analytical Method:	EPA 9045D	Date Received:	12/18/2017
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	145448	Analysis Date/Time	12/20/2017 11:14
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	S.U.

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
PH	pH	6.20		0.1	0.1	0.1	0.1

Sample Description

DOBNS12-004-SS-001

1

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES
Matrix (soil/water):	SOIL	SDG No.:	133020
% Solids:	84.0	Lab Sample ID:	966651
Analytical Method:	EPA 8000C	Date Received:	12/18/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	145465	Analysis Date/Time	12/20/2017 13:15
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	84.0		0.1	0.1	0.1	0.1

Sample Description

DOBNS12-004-SS-001

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES

Matrix (soil/water): SOIL

SDG No.: 133020

% Solids: 84.0

Lab Sample ID: 966651

Analytical Method: L-Kahn/9060A

Date Received: 12/18/2017

Dilution Factor: 1.00

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145580

Analysis Date/Time 12/29/2017 13:46

Analytical Prep Batch #:

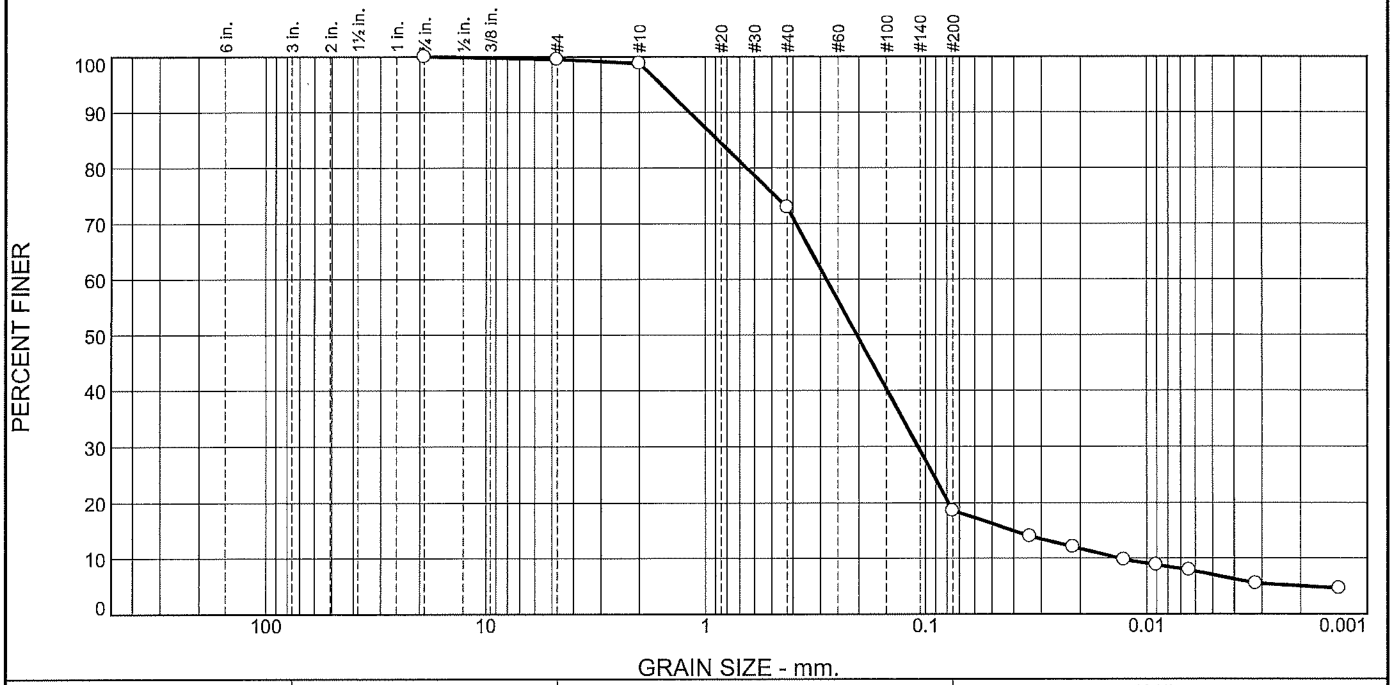
Prep. Date/Time:

ICAL Calibration #: INSTRUMENT T

Concentration Units: mg/kg

CAS #	**Analyte**	**Concentration**	**Qualifiers**	**DL**	**LOD**	**LOQ**	**RL**
TOC	Total Organic Carbon	17600		43	89	180	180

Particle Size Distribution Report - Hydrometer Method



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.5	0.7	25.9	54.3	11.5	7.1

Test Results (ASTM D 422-63 & ASTM D 2217)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.75	100.0		
#4	99.5		
#10	98.8		
#40	72.9		
#200	18.6		
0.0337 mm.	13.9		
0.0216 mm.	12.1		
0.0127 mm.	9.7		
0.0090 mm.	8.8		
0.0064 mm.	7.9		
0.0032 mm.	5.5		
0.0013 mm.	4.6		

* (no specification provided)

Client Sample Description

DOBNS12-004-SS-001

Atterberg Limits (ASTM D 4318)

PL= NP **LL=** NV **PI=** NP

Classification

USCS (D 2487)= SM **AASHTO (M 145)=** A-2-4(0)

Coefficients

D_{90}= 1.1816 D_{85}= 0.8761 D_{60}= 0.2815
D_{50}= 0.2046 D_{30}= 0.1081 D_{15}= 0.0406
D_{10}= 0.0134 C_u= 20.97 C_c= 3.09

Remarks

Date Received: 12-20-2017 **Date Tested:** 12-20-2017
Tested By: CZ/NW
Checked By: SMF
Title: ENVIRONMENTAL DIRECTOR

Sample Number: 966651 **Date Sampled:** 12-07-2017

Mi-Tech Services, Inc.

Weston, WI

Client: CT Laboratories
Project: SI AFFF MULTIPLE SITES - Dobbins ARB, GA
Project No: 10808 (PO# 133020 **Figure** 6

Sample Description

DOBNS12-004-SO-024

1

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES
Matrix (soil/water):	SOIL	SDG No.:	133020
% Solids:	93.6	Lab Sample ID:	966650
Analytical Method:	EPA 9045D	Date Received:	12/18/2017
Dilution Factor:	1	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	145448	Analysis Date/Time	12/20/2017 11:14
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	S.U.

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
PH	pH	5.71		0.1	0.1	0.1	0.1

Sample Description

DOBNS12-004-SO-024

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: CT Laboratories

Contract: MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES

Matrix (soil/water): SOIL

SDG No.: 133020

% Solids: 93.6

Lab Sample ID: 966650

Analytical Method: EPA 8000C

Date Received: 12/18/2017

Dilution Factor: 1.00

TCLP/SPLP Extraction Date/time:

Analytical Run #: 145465

Analysis Date/Time 12/20/2017 13:15

Analytical Prep Batch #:

Prep. Date/Time:

ICAL Calibration #:

Concentration Units: %

CAS #	**Analyte**	**Concentration**	**Qualifiers**	**DL**	**LOD**	**LOQ**	**RL**
SOLID	Solids, Percent	93.6		0.1	0.1	0.1	0.1

CT LABORATORIES

delivering more than data from your environmental analyses

Sample Description

DOBNS12-004-SO-024

1

INORGANIC ANALYSIS DATA SHEET

Lab Name:	CT Laboratories	Contract:	MAXXAM ANALYTICS-SI AFFF MULTIPLE SITES
Matrix (soil/water):	SOIL	SDG No.:	133020
% Solids:	93.6	Lab Sample ID:	966650
Analytical Method:	L-Kahn/9060A	Date Received:	12/18/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	145580	Analysis Date/Time	12/29/2017 14:50
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:	INSTRUMENT T	Concentration Units:	mg/kg

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
TOC	Total Organic Carbon	80	U	38	80	160	160