



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.6		1	08/15/2020 00:06	WG1526056

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.0629		0.0419	1	08/13/2020 18:20	WG1525133

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		3.14	5	08/13/2020 23:04	WG1525123
Arsenic	4.24		1.05	5	08/13/2020 23:04	WG1525123
Barium	204		10.5	20	08/13/2020 23:51	WG1525123
Beryllium	ND		2.62	5	08/13/2020 23:04	WG1525123
Cadmium	ND		1.05	5	08/13/2020 23:04	WG1525123
Chromium	18.5		5.23	5	08/13/2020 23:04	WG1525123
Cobalt	10.6		1.05	5	08/13/2020 23:04	WG1525123
Copper	19.2		5.23	5	08/13/2020 23:04	WG1525123
Lead	74.3		2.09	5	08/13/2020 23:04	WG1525123
Molybdenum	ND		2.62	5	08/13/2020 23:04	WG1525123
Nickel	13.2		2.62	5	08/13/2020 23:04	WG1525123
Selenium	ND		2.62	5	08/13/2020 23:04	WG1525123
Silver	ND		0.523	5	08/13/2020 23:04	WG1525123
Thallium	ND		2.09	5	08/13/2020 23:04	WG1525123
Vanadium	53.5		2.62	5	08/13/2020 23:04	WG1525123
Zinc	115		105	20	08/13/2020 23:51	WG1525123

Chlorinated Acid Herbicides (GC) by Method 8151A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
2,4-D	ND		0.0732	1	08/14/2020 22:20	WG1525114
Dalapon	ND		0.0732	1	08/14/2020 22:20	WG1525114
2,4-DB	ND		0.0732	1	08/14/2020 22:20	WG1525114
Dicamba	ND		0.0732	1	08/14/2020 22:20	WG1525114
Dichloroprop	ND		0.0732	1	08/14/2020 22:20	WG1525114
Dinoseb	ND		0.0732	1	08/14/2020 22:20	WG1525114
MCPA	ND		6.80	1	08/14/2020 22:20	WG1525114
MCPP	ND		6.80	1	08/14/2020 22:20	WG1525114
2,4,5-T	ND		0.0732	1	08/14/2020 22:20	WG1525114
2,4,5-TP (Silvex)	ND		0.0732	1	08/14/2020 22:20	WG1525114
(S) 2,4-Dichlorophenyl Acetic Acid	44.4		22.0-132		08/14/2020 22:20	WG1525114

Pesticides (GC) by Method 8081B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aldrin	ND		0.0209	1	08/15/2020 16:10	WG1526375
Alpha BHC	ND		0.0209	1	08/15/2020 16:10	WG1526375
Beta BHC	ND		0.0209	1	08/15/2020 16:10	WG1526375
Delta BHC	ND		0.0209	1	08/15/2020 16:10	WG1526375
Gamma BHC	ND		0.0209	1	08/15/2020 16:10	WG1526375
Chlordane	ND		0.314	1	08/15/2020 16:10	WG1526375
4,4-DDD	ND		0.0209	1	08/15/2020 16:10	WG1526375
4,4-DDE	ND		0.0209	1	08/15/2020 16:10	WG1526375
4,4-DDT	ND		0.0209	1	08/15/2020 16:10	WG1526375

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 08/05/20 13:30

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Pesticides (GC) by Method 8081B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dieldrin	ND		0.0209	1	08/15/2020 16:10	WG1526375
Endosulfan I	ND		0.0209	1	08/15/2020 16:10	WG1526375
Endosulfan II	ND		0.0209	1	08/15/2020 16:10	WG1526375
Endosulfan sulfate	ND		0.0209	1	08/15/2020 16:10	WG1526375
Endrin	ND		0.0209	1	08/15/2020 16:10	WG1526375
Endrin aldehyde	ND		0.0209	1	08/15/2020 16:10	WG1526375
Endrin ketone	ND		0.0209	1	08/15/2020 16:10	WG1526375
Hexachlorobenzene	ND		0.0209	1	08/15/2020 16:10	WG1526375
Heptachlor	ND		0.0209	1	08/15/2020 16:10	WG1526375
Heptachlor epoxide	ND		0.0209	1	08/15/2020 16:10	WG1526375
Methoxychlor	ND		0.0209	1	08/15/2020 16:10	WG1526375
Toxaphene	ND		0.419	1	08/15/2020 16:10	WG1526375
<i>(S) Decachlorobiphenyl</i>	73.6		10.0-135		08/15/2020 16:10	WG1526375
<i>(S) Tetrachloro-m-xylene</i>	62.2		10.0-139		08/15/2020 16:10	WG1526375

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.1		1	08/15/2020 00:06	WG1526056

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.0469		0.0416	1	08/13/2020 18:23	WG1525133

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		3.12	5	08/13/2020 23:07	WG1525123
Arsenic	3.93		1.04	5	08/13/2020 23:07	WG1525123
Barium	203		10.4	20	08/13/2020 23:54	WG1525123
Beryllium	ND		2.60	5	08/13/2020 23:07	WG1525123
Cadmium	ND		1.04	5	08/13/2020 23:07	WG1525123
Chromium	13.0		5.20	5	08/13/2020 23:07	WG1525123
Cobalt	11.0		1.04	5	08/13/2020 23:07	WG1525123
Copper	12.9		5.20	5	08/13/2020 23:07	WG1525123
Lead	12.7		2.08	5	08/13/2020 23:07	WG1525123
Molybdenum	ND		2.60	5	08/13/2020 23:07	WG1525123
Nickel	13.2		2.60	5	08/13/2020 23:07	WG1525123
Selenium	ND		2.60	5	08/13/2020 23:07	WG1525123
Silver	ND		0.520	5	08/13/2020 23:07	WG1525123
Thallium	ND		2.08	5	08/13/2020 23:07	WG1525123
Vanadium	54.7		2.60	5	08/13/2020 23:07	WG1525123
Zinc	59.5		26.0	5	08/13/2020 23:07	WG1525123

Chlorinated Acid Herbicides (GC) by Method 8151A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
2,4-D	ND		0.0728	1	08/14/2020 22:35	WG1525114
Dalapon	ND		0.0728	1	08/14/2020 22:35	WG1525114
2,4-DB	ND		0.0728	1	08/14/2020 22:35	WG1525114
Dicamba	ND		0.0728	1	08/14/2020 22:35	WG1525114
Dichloroprop	ND		0.0728	1	08/14/2020 22:35	WG1525114
Dinoseb	ND		0.0728	1	08/14/2020 22:35	WG1525114
MCPA	ND		6.76	1	08/14/2020 22:35	WG1525114
MCPP	ND		6.76	1	08/14/2020 22:35	WG1525114
2,4,5-T	ND		0.0728	1	08/14/2020 22:35	WG1525114
2,4,5-TP (Silvex)	ND		0.0728	1	08/14/2020 22:35	WG1525114
(S) 2,4-Dichlorophenyl Acetic Acid	49.2		22.0-132		08/14/2020 22:35	WG1525114

Pesticides (GC) by Method 8081B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aldrin	ND		0.0208	1	08/15/2020 16:22	WG1526375
Alpha BHC	ND		0.0208	1	08/15/2020 16:22	WG1526375
Beta BHC	ND		0.0208	1	08/15/2020 16:22	WG1526375
Delta BHC	ND		0.0208	1	08/15/2020 16:22	WG1526375
Gamma BHC	ND		0.0208	1	08/15/2020 16:22	WG1526375
Chlordane	ND		0.312	1	08/15/2020 16:22	WG1526375
4,4-DDD	ND		0.0208	1	08/15/2020 16:22	WG1526375
4,4-DDE	ND		0.0208	1	08/15/2020 16:22	WG1526375
4,4-DDT	ND		0.0208	1	08/15/2020 16:22	WG1526375

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 08/05/20 08:20

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Pesticides (GC) by Method 8081B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dieldrin	ND		0.0208	1	08/15/2020 16:22	WG1526375
Endosulfan I	ND		0.0208	1	08/15/2020 16:22	WG1526375
Endosulfan II	ND		0.0208	1	08/15/2020 16:22	WG1526375
Endosulfan sulfate	ND		0.0208	1	08/15/2020 16:22	WG1526375
Endrin	ND		0.0208	1	08/15/2020 16:22	WG1526375
Endrin aldehyde	ND		0.0208	1	08/15/2020 16:22	WG1526375
Endrin ketone	ND		0.0208	1	08/15/2020 16:22	WG1526375
Hexachlorobenzene	ND		0.0208	1	08/15/2020 16:22	WG1526375
Heptachlor	ND		0.0208	1	08/15/2020 16:22	WG1526375
Heptachlor epoxide	ND		0.0208	1	08/15/2020 16:22	WG1526375
Methoxychlor	ND		0.0208	1	08/15/2020 16:22	WG1526375
Toxaphene	ND		0.416	1	08/15/2020 16:22	WG1526375
<i>(S)</i> Decachlorobiphenyl	54.7		10.0-135		08/15/2020 16:22	WG1526375
<i>(S)</i> Tetrachloro- <i>m</i> -xylene	44.5		10.0-139		08/15/2020 16:22	WG1526375

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.5		1	08/14/2020 23:56	WG1526057

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	ND		0.0419	1	08/13/2020 18:25	WG1525133

Metals (ICPMS) by Method 6020B

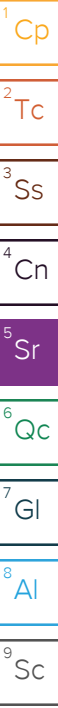
Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Antimony	ND		3.14	5	08/13/2020 23:10	WG1525123
Arsenic	5.50		1.05	5	08/13/2020 23:10	WG1525123
Barium	217		10.5	20	08/13/2020 23:57	WG1525123
Beryllium	ND		2.62	5	08/13/2020 23:10	WG1525123
Cadmium	ND		1.05	5	08/13/2020 23:10	WG1525123
Chromium	13.7		5.24	5	08/13/2020 23:10	WG1525123
Cobalt	12.1		1.05	5	08/13/2020 23:10	WG1525123
Copper	12.5		5.24	5	08/13/2020 23:10	WG1525123
Lead	16.5		2.09	5	08/13/2020 23:10	WG1525123
Molybdenum	ND		2.62	5	08/13/2020 23:10	WG1525123
Nickel	17.1		2.62	5	08/13/2020 23:10	WG1525123
Selenium	ND		2.62	5	08/13/2020 23:10	WG1525123
Silver	ND		0.524	5	08/13/2020 23:10	WG1525123
Thallium	ND		2.09	5	08/13/2020 23:10	WG1525123
Vanadium	61.9		2.62	5	08/13/2020 23:10	WG1525123
Zinc	60.9		26.2	5	08/13/2020 23:10	WG1525123

Chlorinated Acid Herbicides (GC) by Method 8151A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
2,4-D	ND		0.0733	1	08/14/2020 22:49	WG1525114
Dalapon	ND		0.0733	1	08/14/2020 22:49	WG1525114
2,4-DB	ND		0.0733	1	08/14/2020 22:49	WG1525114
Dicamba	ND		0.0733	1	08/14/2020 22:49	WG1525114
Dichloroprop	ND		0.0733	1	08/14/2020 22:49	WG1525114
Dinoseb	ND		0.0733	1	08/14/2020 22:49	WG1525114
MCPA	ND		6.81	1	08/14/2020 22:49	WG1525114
MCPP	ND		6.81	1	08/14/2020 22:49	WG1525114
2,4,5-T	ND		0.0733	1	08/14/2020 22:49	WG1525114
2,4,5-TP (Silvex)	ND		0.0733	1	08/14/2020 22:49	WG1525114
(S) 2,4-Dichlorophenyl Acetic Acid	47.5		22.0-132		08/14/2020 22:49	WG1525114

Pesticides (GC) by Method 8081B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Aldrin	ND		0.0209	1	08/15/2020 16:34	WG1526375
Alpha BHC	ND		0.0209	1	08/15/2020 16:34	WG1526375
Beta BHC	ND		0.0209	1	08/15/2020 16:34	WG1526375
Delta BHC	ND		0.0209	1	08/15/2020 16:34	WG1526375
Gamma BHC	ND		0.0209	1	08/15/2020 16:34	WG1526375
Chlordane	ND		0.314	1	08/15/2020 16:34	WG1526375
4,4-DDD	ND		0.0209	1	08/15/2020 16:34	WG1526375
4,4-DDE	ND		0.0209	1	08/15/2020 16:34	WG1526375
4,4-DDT	ND		0.0209	1	08/15/2020 16:34	WG1526375





Collected date/time: 08/06/20 12:00

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Pesticides (GC) by Method 8081B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dieldrin	ND		0.0209	1	08/15/2020 16:34	WG1526375
Endosulfan I	ND		0.0209	1	08/15/2020 16:34	WG1526375
Endosulfan II	ND		0.0209	1	08/15/2020 16:34	WG1526375
Endosulfan sulfate	ND		0.0209	1	08/15/2020 16:34	WG1526375
Endrin	ND		0.0209	1	08/15/2020 16:34	WG1526375
Endrin aldehyde	ND		0.0209	1	08/15/2020 16:34	WG1526375
Endrin ketone	ND		0.0209	1	08/15/2020 16:34	WG1526375
Hexachlorobenzene	ND		0.0209	1	08/15/2020 16:34	WG1526375
Heptachlor	ND		0.0209	1	08/15/2020 16:34	WG1526375
Heptachlor epoxide	ND		0.0209	1	08/15/2020 16:34	WG1526375
Methoxychlor	ND		0.0209	1	08/15/2020 16:34	WG1526375
Toxaphene	ND		0.419	1	08/15/2020 16:34	WG1526375
<i>(S) Decachlorobiphenyl</i>	59.6		10.0-135		08/15/2020 16:34	WG1526375
<i>(S) Tetrachloro-m-xylene</i>	48.3		10.0-139		08/15/2020 16:34	WG1526375

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Method Blank (MB)

(MB) R3560069-1 08/15/20 00:06

Analyte	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
	%		%	%
Total Solids	0.00200			

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

L1247902-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1247902-01 08/15/20 00:06 • (DUP) R3560069-3 08/15/20 00:06

Analyte	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
	%	%		%		%
Total Solids	95.6	95.4	1	0.191		10

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3560069-2 08/15/20 00:06

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	



Method Blank (MB)

(MB) R3560068-1 08/14/20 23:56

Analyte	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
	%		%	%
Total Solids	0.00300			

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

L1248839-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1248839-02 08/14/20 23:56 • (DUP) R3560068-3 08/14/20 23:56

Analyte	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
	%	%		%		%
Total Solids	94.5	95.8	1	1.31		10

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R3560068-2 08/14/20 23:56

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
	%	%	%	%	
Total Solids	50.0	50.0	99.9	85.0-115	



Method Blank (MB)

(MB) R3559648-1 08/13/20 18:00

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Mercury	U		0.0180	0.0400

1 Cp

2 Tc

3 Ss

Laboratory Control Sample (LCS)

(LCS) R3559648-2 08/13/20 18:02

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Mercury	0.500	0.484	96.9	80.0-120	

4 Cn

5 Sr

L1248625-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1248625-02 08/13/20 18:05 • (MS) R3559648-3 08/13/20 18:07 • (MSD) R3559648-4 08/13/20 18:10

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Mercury	0.500	ND	0.539	0.472	85.2	74.6	1	75.0-125		J6	13.2	20

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3559653-1 08/13/20 22:41

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Antimony	U		1.55	3.00
Arsenic	U		0.422	1.00
Barium	U		1.25	2.50
Beryllium	U		0.735	2.50
Cadmium	U		0.406	1.00
Chromium	U		2.24	5.00
Cobalt	U		0.500	1.00
Copper	U		2.50	5.00
Lead	U		1.00	2.00
Molybdenum	U		1.00	2.50
Nickel	U		1.21	2.50
Selenium	U		1.01	2.50
Silver	U		0.213	0.500
Thallium	U		0.815	2.00
Vanadium	U		0.805	2.50
Zinc	U		8.15	25.0

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3559653-2 08/13/20 22:44

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	100	103	103	80.0-120	
Arsenic	100	96.2	96.2	80.0-120	
Barium	100	99.2	99.2	80.0-120	
Beryllium	100	94.3	94.3	80.0-120	
Cadmium	100	97.5	97.5	80.0-120	
Chromium	100	97.9	97.9	80.0-120	
Cobalt	100	99.4	99.4	80.0-120	
Copper	100	95.5	95.5	80.0-120	
Lead	100	98.0	98.0	80.0-120	
Molybdenum	100	97.2	97.2	80.0-120	
Nickel	100	99.7	99.7	80.0-120	
Selenium	100	95.5	95.5	80.0-120	
Silver	20.0	19.4	97.0	80.0-120	
Thallium	100	96.5	96.5	80.0-120	
Vanadium	100	96.6	96.6	80.0-120	
Zinc	100	97.5	97.5	80.0-120	



L1248588-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1248588-02 08/13/20 22:48 • (MS) R3559653-5 08/13/20 22:57 • (MSD) R3559653-6 08/13/20 23:01

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	20.0	ND	80.8	80.0	80.8	80.0	5	75.0-125			1.01	20
Arsenic	20.0	15.8	98.8	105	83.0	89.2	5	75.0-125			6.13	20
Barium	20.0	268	399	366	130	97.4	5	75.0-125	J5		8.63	20
Beryllium	20.0	ND	86.4	86.2	86.4	86.2	5	75.0-125			0.251	20
Cadmium	20.0	ND	90.5	89.9	90.5	89.9	5	75.0-125			0.706	20
Chromium	20.0	15.5	101	102	85.8	86.1	5	75.0-125			0.263	20
Cobalt	20.0	6.10	92.0	91.1	85.9	85.0	5	75.0-125			1.02	20
Copper	20.0	18.4	103	106	84.3	87.7	5	75.0-125			3.23	20
Lead	20.0	15.0	103	105	88.3	89.5	5	75.0-125			1.16	20
Molybdenum	20.0	4.20	91.0	94.1	86.8	89.9	5	75.0-125			3.32	20
Nickel	20.0	14.0	99.8	101	85.7	86.5	5	75.0-125			0.824	20
Selenium	20.0	ND	88.9	90.1	88.9	90.1	5	75.0-125			1.35	20
Silver	4.00	ND	18.2	18.1	90.9	90.6	5	75.0-125			0.275	20
Thallium	20.0	ND	82.4	84.0	82.4	84.0	5	75.0-125			1.90	20
Vanadium	20.0	38.4	123	128	85.1	89.9	5	75.0-125			3.80	20
Zinc	20.0	45.5	136	135	90.9	89.6	5	75.0-125			0.925	20

- 1
Cp
- 2
Tc
- 3
Ss
- 4
Cn
- 5
Sr
- 6
Qc
- 7
Gl
- 8
Al
- 9
Sc



Method Blank (MB)

(MB) R3560182-1 08/14/20 13:42

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
2,4-D	U		0.00702	0.0700
Dalapon	U		0.0113	0.0700
2,4-DB	U		0.0297	0.0700
Dicamba	U		0.0157	0.0700
Dichloroprop	U		0.0245	0.0700
Dinoseb	U		0.00697	0.0700
MCPA	U		0.443	6.50
MCPP	U		0.367	6.50
2,4,5-T	U		0.00852	0.0700
2,4,5-TP (Silvex)	U		0.0107	0.0700
(S) 2,4-Dichlorophenyl Acetic Acid	70.7			22.0-132

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3560182-2 08/14/20 13:57

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
2,4-D	0.167	0.121	72.5	40.0-120	
Dalapon	0.167	0.158	94.6	15.0-120	
2,4-DB	0.167	0.106	63.5	25.0-143	
Dicamba	0.167	0.125	74.9	43.0-120	
Dichloroprop	0.167	0.121	72.5	32.0-129	
Dinoseb	0.167	0.0203	12.2	10.0-120	
MCPA	1.67	1.04	62.3	31.0-121	
MCPP	1.67	1.83	110	28.0-133	
2,4,5-T	0.167	0.116	69.5	41.0-120	
2,4,5-TP (Silvex)	0.167	0.113	67.7	42.0-120	
(S) 2,4-Dichlorophenyl Acetic Acid			70.1	22.0-132	

L1248365-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1248365-01 08/14/20 21:36 • (MS) R3560182-3 08/14/20 21:51 • (MSD) R3560182-4 08/14/20 22:05

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
2,4-D	0.333	ND	0.382	0.343	115	103	2	10.0-160	P	P	10.8	24
Dalapon	0.333	ND	0.317	0.308	95.2	92.5	2	10.0-121			2.88	27
2,4-DB	0.333	ND	0.190	0.188	57.1	56.5	2	10.0-160	P	P	1.06	22
Dicamba	0.333	ND	0.231	0.222	69.4	66.7	2	10.0-154			3.97	21



L1248365-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1248365-01 08/14/20 21:36 • (MS) R3560182-3 08/14/20 21:51 • (MSD) R3560182-4 08/14/20 22:05

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Dichloroprop	0.333	ND	0.214	0.205	64.3	61.6	2	10.0-158			4.30	20
Dinoseb	0.333	ND	ND	ND	17.9	17.0	2	10.0-120			5.16	40
MCPA	3.33	ND	ND	ND	39.9	53.5	2	10.0-160			28.9	40
MCPP	3.33	ND	ND	13.4	294	402	2	10.0-160	<u>E J 5</u>	<u>E J 5 P</u>	31.2	40
2,4,5-T	0.333	ND	0.215	0.212	64.6	63.7	2	10.0-157			1.41	20
2,4,5-TP (Silvex)	0.333	ND	0.227	0.223	68.2	67.0	2	10.0-156			1.78	20
<i>(S) 2,4-Dichlorophenyl Acetic Acid</i>					63.4	62.8		22.0-132				

Sample Narrative:

OS: Dilution due to sample volume.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3560439-1 08/15/20 15:45

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aldrin	U		0.00376	0.0200
Alpha BHC	U		0.00368	0.0200
Beta BHC	U		0.00379	0.0200
Delta BHC	U		0.00346	0.0200
Gamma BHC	U		0.00344	0.0200
4,4-DDD	U		0.00370	0.0200
4,4-DDE	U		0.00366	0.0200
4,4-DDT	U		0.00627	0.0200
Dieldrin	U		0.00344	0.0200
Endosulfan I	U		0.00363	0.0200
Endosulfan II	U		0.00335	0.0200
Endosulfan sulfate	U		0.00364	0.0200
Endrin	U		0.00350	0.0200
Endrin aldehyde	U		0.00339	0.0200
Endrin ketone	U		0.00711	0.0200
Heptachlor	U		0.00428	0.0200
Heptachlor epoxide	U		0.00339	0.0200
Hexachlorobenzene	U		0.00346	0.0200
Methoxychlor	U		0.00484	0.0200
Chlordane	U		0.103	0.300
Toxaphene	U		0.124	0.400
(S) Decachlorobiphenyl	85.4			10.0-135
(S) Tetrachloro-m-xylene	72.5			10.0-139

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R3560439-2 08/15/20 15:57

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aldrin	0.0666	0.0506	76.0	34.0-136	
Alpha BHC	0.0666	0.0486	73.0	34.0-139	
Beta BHC	0.0666	0.0467	70.1	34.0-133	
Delta BHC	0.0666	0.0485	72.8	34.0-135	
Gamma BHC	0.0666	0.0498	74.8	34.0-136	
4,4-DDD	0.0666	0.0501	75.2	33.0-141	
4,4-DDE	0.0666	0.0472	70.9	34.0-134	
4,4-DDT	0.0666	0.0440	66.1	30.0-143	
Dieldrin	0.0666	0.0493	74.0	35.0-137	
Endosulfan I	0.0666	0.0480	72.1	34.0-134	



Laboratory Control Sample (LCS)

(LCS) R3560439-2 08/15/20 15:57

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Endosulfan II	0.0666	0.0469	70.4	35.0-132	
Endosulfan sulfate	0.0666	0.0445	66.8	35.0-132	
Endrin	0.0666	0.0463	69.5	34.0-137	
Endrin aldehyde	0.0666	0.0423	63.5	23.0-121	
Endrin ketone	0.0666	0.0453	68.0	35.0-144	
Heptachlor	0.0666	0.0501	75.2	36.0-141	
Heptachlor epoxide	0.0666	0.0489	73.4	36.0-134	
Hexachlorobenzene	0.0666	0.0523	78.5	33.0-129	
Methoxychlor	0.0666	0.0453	68.0	28.0-150	
<i>(S) Decachlorobiphenyl</i>			76.4	10.0-135	
<i>(S) Tetrachloro-m-xylene</i>			64.0	10.0-139	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1248965-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1248965-01 08/15/20 16:47 • (MS) R3560439-3 08/15/20 16:59 • (MSD) R3560439-4 08/15/20 17:12

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Aldrin	0.0745	ND	0.0613	0.0548	82.3	75.1	1.02	20.0-135			11.1	37
Alpha BHC	0.0745	ND	0.0606	0.0559	81.4	76.6	1.02	27.0-140			8.09	35
Beta BHC	0.0745	ND	0.0580	0.0537	77.9	73.6	1.02	23.0-141			7.65	37
Delta BHC	0.0745	ND	0.0600	0.0552	80.6	75.5	1.02	21.0-138			8.38	35
Gamma BHC	0.0745	ND	0.0625	0.0574	83.9	78.5	1.02	27.0-137			8.60	36
4,4-DDD	0.0745	ND	0.0613	0.0554	82.3	75.8	1.02	15.0-152			10.2	39
4,4-DDE	0.0745	ND	0.0572	0.0511	76.9	70.0	1.02	10.0-152			11.3	40
4,4-DDT	0.0745	ND	0.0549	0.0484	73.8	66.2	1.02	10.0-151			12.7	40
Dieldrin	0.0745	ND	0.0609	0.0552	81.7	75.5	1.02	17.0-145			9.83	37
Endosulfan I	0.0745	ND	0.0574	0.0513	77.0	70.3	1.02	20.0-137			11.1	36
Endosulfan II	0.0745	ND	0.0581	0.0533	78.1	73.0	1.02	15.0-141			8.66	37
Endosulfan sulfate	0.0745	ND	0.0567	0.0520	76.1	71.2	1.02	15.0-143			8.68	38
Endrin	0.0745	ND	0.0576	0.0517	77.3	70.7	1.02	19.0-143			10.8	37
Endrin aldehyde	0.0745	ND	0.0546	0.0500	73.3	68.5	1.02	10.0-139			8.81	40
Endrin ketone	0.0745	ND	0.0566	0.0519	76.0	71.0	1.02	17.0-149			8.70	38
Heptachlor	0.0745	ND	0.0613	0.0553	82.3	75.7	1.02	22.0-138			10.3	37
Heptachlor epoxide	0.0745	ND	0.0597	0.0546	80.1	74.8	1.02	22.0-138			8.83	36
Hexachlorobenzene	0.0745	ND	0.0645	0.0593	86.6	81.2	1.02	25.0-126			8.33	35
Methoxychlor	0.0745	ND	0.0597	0.0529	80.1	72.4	1.02	10.0-159			12.1	40
<i>(S) Decachlorobiphenyl</i>					82.9	78.5		10.0-135				
<i>(S) Tetrachloro-m-xylene</i>					72.0	67.3		10.0-139				



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P	RPD between the primary and confirmatory analysis exceeded 40%.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
 * Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

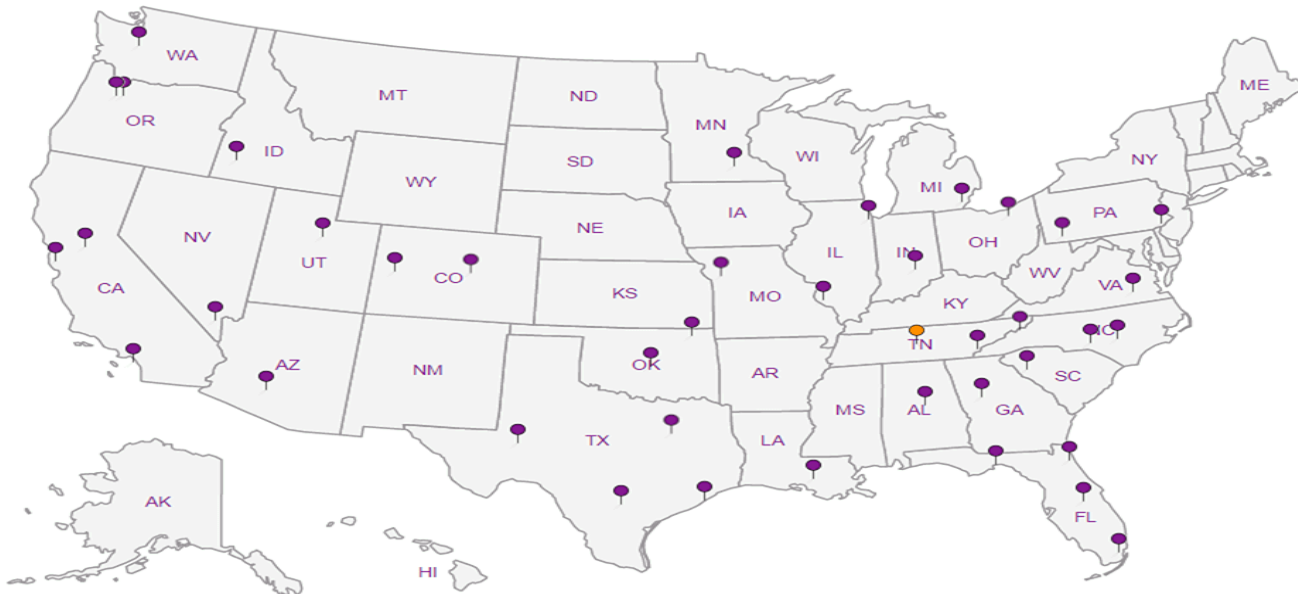
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl


8 Al

9 Sc

PBS Engineering & Env.- POR
 4412 SW Corbett Ave
 Portland, OR 97239

Billing Information:
Accounts Payable
 4412 SW Corbett Ave
 Portland, OR 97239

Pres Chk
 Analysis / Container / Preservative

Chain of Custody Page 1 of 1

 Pace Analytical
 National Center for Testing & Innovation

Report to:
Bret Waldron

Email To:
Bret.Waldron@pbsusa.com; Samantha.Eckes@p

12065 Lebanon Rd
 Mount Juliet, TN 37122
 Phone: 615-758-5858
 Phone: 800-767-5859
 Fax: 615-758-5859


Project Description:
Dollar Street Phase II

City/State Collected: **West Linn, OR**
 Please Circle:
 PT MT CT ET

Phone: **503-248-1939**

Client Project #
24106.001 Phase 0002

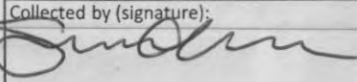
Lab Project #
PBSENGPOR-24106001

SDG # **247902**
E170

Collected by (print):
Sam E + Jessica E

Site/Facility ID #

P.O. #

Collected by (signature):


Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day

Quote #
 Date Results Needed

Immediately Packed on Ice N Y

ISM (MISPREP) * IL-Cir-NoPres

OCP 8081

Herb 8151

CAM 17 (Ag 17) Metals 6020/7471

Acctnum: **PBSENGPOR**
 Template: **T172035**
 Prelogin: **P789526**
 PM: **110 - Brian Ford**
 PB:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
DU-3	Comp	SS	0-1ft	8/5/20	1330	X
DU-2	↓	SS	↓	8/5/20	820	↓
DU-3 DU-1	↓	SS	↓	8/6/20	1200	↓

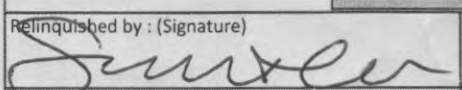
Remarks	Sample # (lab only)
	01
	02
	03

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

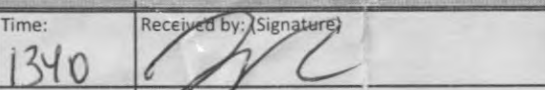
Remarks: *Once MISPREP is complete, log for OCPs 8081, Herb 8151, CAM17 (Ag17) Metals 6020/7471 on a standard turn.

Sample Receipt Checklist
 COC Seal Present/Intact: Y N
 COC Signed/Accurate: Y N
 Bottles arrive intact: Y N
 Correct bottles used: Y N
 Sufficient volume sent: Y N
 If Applicable
 VOA Zero Headspace: Y N
 Preservation Correct/Checked: Y N
 RAD Screen <0.5 mR/hr: Y N

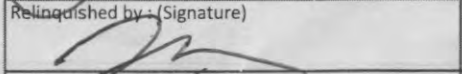
Samples returned via: UPS FedEx Courier
 Tracking #

Relinquished by: (Signature)


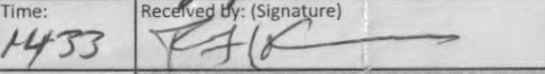
Date: **8/6/20**
 Time: **1340**

Received by: (Signature)


Trip Blank Received: Yes/No
 HCL/MeoH
 TBR

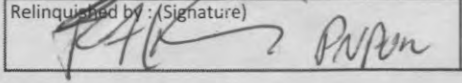
Relinquished by: (Signature)


Date: **8/6/20**
 Time: **1433**

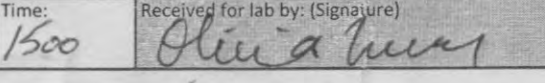
Received by: (Signature)


Temp: **13.5** °C
 Bottles Received: **3**

If preservation required by Login: Date/Time

Relinquished by: (Signature)


Date: **8/6/20**
 Time: **1500**

Received for lab by: (Signature)


Date: **8/7/20**
 Time: **900**

Hold: Condition: **NCF / OK**