

Report of Analysis

Client Sample ID:	VDS-SS-01		
Lab Sample ID:	JD54115-1	Date Sampled:	10/20/22
Matrix:	SO - Soil	Date Received:	10/21/22
Method:	MADEP VPH REV 2.1	Percent Solids:	95.3
Project:	R8 START: Valley Drive Abandoned Slurry, Kalispell, MT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BH35299.D	1	10/26/22 00:44	JN	n/a	n/a	GBH1334
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	10.4 g	10.0 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	270	19	ug/kg	
100-41-4	Ethylbenzene	86.6	270	19	ug/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	53	23	ug/kg	
91-20-3	Naphthalene	2380	270	110	ug/kg	
108-88-3	Toluene	ND	270	9.3	ug/kg	
	m,p-Xylene	166	270	13	ug/kg	J
95-47-6	o-Xylene	134	270	9.7	ug/kg	J
	C5- C8 Aliphatics (Unadj.)	ND	5300	2700	ug/kg	
	C9- C12 Aliphatics (Unadj.)	87000	5300	2700	ug/kg	
	C5- C8 Aliphatics	ND	5300	2700	ug/kg	
	C9- C12 Aliphatics	59600	5300	2700	ug/kg	
	C9- C10 Aromatics	27100	5300	2700	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
	2,3,4-Trifluorotoluene	84%		70-130%		
	2,3,4-Trifluorotoluene	101%		70-130%		

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	VDS-SS-01	Date Sampled:	10/20/22
Lab Sample ID:	JD54115-1	Date Received:	10/21/22
Matrix:	SO - Soil	Percent Solids:	95.3
Method:	MADEP EPH REV 2.1 SW846 3546		
Project:	R8 START: Valley Drive Abandoned Slurry, Kalispell, MT		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6Y49243.D	10	10/25/22 07:56	CP	10/22/22 11:00	OP42656	G6Y2248
Run #2							

Run #	Initial Weight	Final Volume
Run #1	16.1 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	1300	860	ug/kg	
208-96-8	Acenaphthylene	ND	1300	600	ug/kg	
120-12-7	Anthracene	1500	1300	540	ug/kg	
56-55-3	Benzo(a)anthracene	1790	1300	540	ug/kg	
50-32-8	Benzo(a)pyrene	2130	1300	390	ug/kg	
205-99-2	Benzo(b)fluoranthene	2550	1300	280	ug/kg	
191-24-2	Benzo(g,h,i)perylene	1470	1300	330	ug/kg	
207-08-9	Benzo(k)fluoranthene	1160	1300	880	ug/kg	J
218-01-9	Chrysene	2440	1300	420	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	1510	1300	310	ug/kg	
206-44-0	Fluoranthene	5650	1300	940	ug/kg	
86-73-7	Fluorene	ND	1300	410	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1300	400	ug/kg	
91-57-6	2-Methylnaphthalene	ND	1300	440	ug/kg	
91-20-3	Naphthalene	ND	1300	560	ug/kg	
85-01-8	Phenanthrene	3960	1300	380	ug/kg	
129-00-0	Pyrene	4900	1300	350	ug/kg	
	C11-C22 Aromatics (Unadj.)	315000	65000	5700	ug/kg	
	C9-C18 Aliphatics	172000	65000	1800	ug/kg	
	C11-C22 Aromatics	286000	65000	5700	ug/kg	
	C19-C36 Aliphatics	401000	65000	4400	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	37% ^a		40-140%
84-15-1	o-Terphenyl	53%		40-140%
321-60-8	2-Fluorobiphenyl	88%		40-140%

(a) Outside of in house control limits.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	VDS-SS-01-DUP		
Lab Sample ID:	JD54115-2	Date Sampled:	10/20/22
Matrix:	SO - Soil	Date Received:	10/21/22
Method:	MADEP VPH REV 2.1	Percent Solids:	94.8
Project:	R8 START: Valley Drive Abandoned Slurry, Kalispell, MT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BH35300.D	1	10/26/22 01:26	JN	n/a	n/a	GBH1334
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	9.5 g	10.0 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	290	21	ug/kg	
100-41-4	Ethylbenzene	101	290	21	ug/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	58	25	ug/kg	
91-20-3	Naphthalene	2150	290	120	ug/kg	
108-88-3	Toluene	ND	290	10	ug/kg	
	m,p-Xylene	185	290	15	ug/kg	J
95-47-6	o-Xylene	156	290	11	ug/kg	J
	C5- C8 Aliphatics (Unadj.)	3110	5800	2900	ug/kg	J
	C9- C12 Aliphatics (Unadj.)	92900	5800	2900	ug/kg	
	C5- C8 Aliphatics	3110	5800	2900	ug/kg	J
	C9- C12 Aliphatics	61900	5800	2900	ug/kg	
	C9- C10 Aromatics	30500	5800	2900	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
	2,3,4-Trifluorotoluene	90%		70-130%		
	2,3,4-Trifluorotoluene	105%		70-130%		

ND = Not detected MDL = Method Detection Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	VDS-SS-01-DUP	Date Sampled:	10/20/22
Lab Sample ID:	JD54115-2	Date Received:	10/21/22
Matrix:	SO - Soil	Percent Solids:	94.8
Method:	MADEP EPH REV 2.1 SW846 3546		
Project:	R8 START: Valley Drive Abandoned Slurry, Kalispell, MT		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6Y49244.D	10	10/25/22 08:30	CP	10/22/22 11:00	OP42656	G6Y2248
Run #2							

Run #	Initial Weight	Final Volume
Run #1	16.7 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	1570	1300	830	ug/kg	
208-96-8	Acenaphthylene	ND	1300	580	ug/kg	
120-12-7	Anthracene	4080	1300	530	ug/kg	
56-55-3	Benzo(a)anthracene	4660	1300	520	ug/kg	
50-32-8	Benzo(a)pyrene	4300	1300	370	ug/kg	
205-99-2	Benzo(b)fluoranthene	4670	1300	280	ug/kg	
191-24-2	Benzo(g,h,i)perylene	2480	1300	320	ug/kg	
207-08-9	Benzo(k)fluoranthene	1920	1300	850	ug/kg	
218-01-9	Chrysene	5860	1300	410	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	2640	1300	300	ug/kg	
206-44-0	Fluoranthene	13100	1300	910	ug/kg	
86-73-7	Fluorene	2030	1300	400	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1300	380	ug/kg	
91-57-6	2-Methylnaphthalene	710	1300	430	ug/kg	J
91-20-3	Naphthalene	ND	1300	540	ug/kg	
85-01-8	Phenanthrene	11500	1300	370	ug/kg	
129-00-0	Pyrene	11000	1300	330	ug/kg	
	C11-C22 Aromatics (Unadj.)	555000	63000	5500	ug/kg	
	C9-C18 Aliphatics	271000	63000	1800	ug/kg	
	C11-C22 Aromatics	485000	63000	5500	ug/kg	
	C19-C36 Aliphatics	556000	63000	4300	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	43%		40-140%
84-15-1	o-Terphenyl	63%		40-140%
321-60-8	2-Fluorobiphenyl	84%		40-140%

ND = Not detected MDL = Method Detection Limit

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	VDS-SS-02		
Lab Sample ID:	JD54115-3	Date Sampled:	10/20/22
Matrix:	SO - Soil	Date Received:	10/21/22
Method:	MADEP VPH REV 2.1	Percent Solids:	94.2
Project:	R8 START: Valley Drive Abandoned Slurry, Kalispell, MT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BH35301.D	1	10/26/22 02:08	JN	n/a	n/a	GBH1334
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	9.5 g	10.0 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	300	22	ug/kg	
100-41-4	Ethylbenzene	537	300	22	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	59	25	ug/kg	
91-20-3	Naphthalene	6580	300	120	ug/kg	
108-88-3	Toluene	34.3	300	10	ug/kg	J
	m,p-Xylene	1080	300	15	ug/kg	
95-47-6	o-Xylene	781	300	11	ug/kg	
	C5- C8 Aliphatics (Unadj.)	10000	5900	3000	ug/kg	
	C9- C12 Aliphatics (Unadj.)	279000	5900	3000	ug/kg	
	C5- C8 Aliphatics	10000	5900	3000	ug/kg	
	C9- C12 Aliphatics	190000	5900	3000	ug/kg	
	C9- C10 Aromatics	87000	5900	3000	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
	2,3,4-Trifluorotoluene	92%		70-130%		
	2,3,4-Trifluorotoluene	108%		70-130%		

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	VDS-SS-02	Date Sampled:	10/20/22
Lab Sample ID:	JD54115-3	Date Received:	10/21/22
Matrix:	SO - Soil	Percent Solids:	94.2
Method:	MADEP EPH REV 2.1 SW846 3546		
Project:	R8 START: Valley Drive Abandoned Slurry, Kalispell, MT		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6Y49245.D	10	10/25/22 09:05	CP	10/22/22 11:00	OP42656	G6Y2248
Run #2							

Run #	Initial Weight	Final Volume
Run #1	16.5 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	1300	850	ug/kg	
208-96-8	Acenaphthylene	ND	1300	600	ug/kg	
120-12-7	Anthracene	ND	1300	540	ug/kg	
56-55-3	Benzo(a)anthracene	1030	1300	530	ug/kg	J
50-32-8	Benzo(a)pyrene	2090	1300	380	ug/kg	
205-99-2	Benzo(b)fluoranthene	1390	1300	280	ug/kg	
191-24-2	Benzo(g,h,i)perylene	820	1300	330	ug/kg	J
207-08-9	Benzo(k)fluoranthene	ND	1300	870	ug/kg	
218-01-9	Chrysene	1130	1300	420	ug/kg	J
53-70-3	Dibenzo(a,h)anthracene	685	1300	310	ug/kg	J
206-44-0	Fluoranthene	3310	1300	930	ug/kg	
86-73-7	Fluorene	1370	1300	400	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1300	390	ug/kg	
91-57-6	2-Methylnaphthalene	2260	1300	430	ug/kg	
91-20-3	Naphthalene	ND	1300	550	ug/kg	
85-01-8	Phenanthrene	2120	1300	380	ug/kg	
129-00-0	Pyrene	2710	1300	340	ug/kg	
	C11-C22 Aromatics (Unadj.)	579000	64000	5600	ug/kg	
	C9-C18 Aliphatics	515000	64000	1800	ug/kg	
	C11-C22 Aromatics	560000	64000	5600	ug/kg	
	C19-C36 Aliphatics	791000	64000	4400	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	33% ^a		40-140%
84-15-1	o-Terphenyl	106%		40-140%
321-60-8	2-Fluorobiphenyl	84%		40-140%

(a) Outside of in house control limits.

ND = Not detected MDL = Method Detection Limit
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 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	VDS-SS-03		
Lab Sample ID:	JD54115-4	Date Sampled:	10/20/22
Matrix:	SO - Soil	Date Received:	10/21/22
Method:	MADEP VPH REV 2.1	Percent Solids:	93.7
Project:	R8 START: Valley Drive Abandoned Slurry, Kalispell, MT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BH35294.D	1	10/25/22 21:13	JN	n/a	n/a	GBH1334
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	9.4 g	10.0 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	300	22	ug/kg	
100-41-4	Ethylbenzene	215	300	22	ug/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	60	26	ug/kg	
91-20-3	Naphthalene	2700	300	120	ug/kg	
108-88-3	Toluene	ND	300	11	ug/kg	
	m,p-Xylene	378	300	15	ug/kg	
95-47-6	o-Xylene	289	300	11	ug/kg	J
	C5- C8 Aliphatics (Unadj.)	4930	6000	3000	ug/kg	J
	C9- C12 Aliphatics (Unadj.)	197000	6000	3000	ug/kg	
	C5- C8 Aliphatics	4930	6000	3000	ug/kg	J
	C9- C12 Aliphatics	112000	6000	3000	ug/kg	
	C9- C10 Aromatics	85000	6000	3000	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
	2,3,4-Trifluorotoluene	89%		70-130%		
	2,3,4-Trifluorotoluene	98%		70-130%		

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	VDS-SS-03	Date Sampled:	10/20/22
Lab Sample ID:	JD54115-4	Date Received:	10/21/22
Matrix:	SO - Soil	Percent Solids:	93.7
Method:	MADEP EPH REV 2.1 SW846 3546		
Project:	R8 START: Valley Drive Abandoned Slurry, Kalispell, MT		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6Y49374.D	5	10/30/22 17:22	TL	10/25/22 12:00	OP42672	G6Y2252
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.7 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	680	450	ug/kg	
208-96-8	Acenaphthylene	ND	680	310	ug/kg	
120-12-7	Anthracene	ND	680	280	ug/kg	
56-55-3	Benzo(a)anthracene	ND	680	280	ug/kg	
50-32-8	Benzo(a)pyrene	ND	680	200	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	680	150	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	680	170	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	680	460	ug/kg	
218-01-9	Chrysene	ND	680	220	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	680	160	ug/kg	
206-44-0	Fluoranthene	1060	680	490	ug/kg	
86-73-7	Fluorene	ND	680	210	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	680	210	ug/kg	
91-57-6	2-Methylnaphthalene	ND	680	230	ug/kg	
91-20-3	Naphthalene	ND	680	290	ug/kg	
85-01-8	Phenanthrene	1120	680	200	ug/kg	
129-00-0	Pyrene	975	680	180	ug/kg	
	C11-C22 Aromatics (Unadj.)	64000	34000	3000	ug/kg	
	C9-C18 Aliphatics	ND	34000	940	ug/kg	
	C11-C22 Aromatics	60800	34000	3000	ug/kg	
	C19-C36 Aliphatics	46900	34000	2300	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	21% ^b		40-140%
84-15-1	o-Terphenyl	28% ^b		40-140%
321-60-8	2-Fluorobiphenyl	99%		40-140%

(a) Sample fractionated at dilution due to the viscosity of the extract matrix.

(b) Outside of in house control limits.

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	VDS-SS-BKG		
Lab Sample ID:	JD54115-5	Date Sampled:	10/20/22
Matrix:	SO - Soil	Date Received:	10/21/22
Method:	MADEP VPH REV 2.1	Percent Solids:	97.4
Project:	R8 START: Valley Drive Abandoned Slurry, Kalispell, MT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BH35307.D	1	10/26/22 09:02	JN	n/a	n/a	GBH1334
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	9.4 g	10.0 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	280	20	ug/kg	
100-41-4	Ethylbenzene	ND	280	20	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	56	24	ug/kg	
91-20-3	Naphthalene	ND	280	110	ug/kg	
108-88-3	Toluene	ND	280	9.8	ug/kg	
	m,p-Xylene	ND	280	14	ug/kg	
95-47-6	o-Xylene	ND	280	10	ug/kg	
	C5- C8 Aliphatics (Unadj.)	ND	5600	2800	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	5600	2800	ug/kg	
	C5- C8 Aliphatics	ND	5600	2800	ug/kg	
	C9- C12 Aliphatics	ND	5600	2800	ug/kg	
	C9- C10 Aromatics	ND	5600	2800	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
	2,3,4-Trifluorotoluene	89%		70-130%		
	2,3,4-Trifluorotoluene	109%		70-130%		

ND = Not detected MDL = Method Detection Limit

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E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	VDS-SS-BKG	Date Sampled:	10/20/22
Lab Sample ID:	JD54115-5	Date Received:	10/21/22
Matrix:	SO - Soil	Percent Solids:	97.4
Method:	MADEP EPH REV 2.1 SW846 3546		
Project:	R8 START: Valley Drive Abandoned Slurry, Kalispell, MT		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6Y49247.D	1	10/25/22 10:14	CP	10/22/22 11:00	OP42656	G6Y2248
Run #2							

Run #	Initial Weight	Final Volume
Run #1	16.3 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	130	83	ug/kg	
208-96-8	Acenaphthylene	ND	130	58	ug/kg	
120-12-7	Anthracene	ND	130	53	ug/kg	
56-55-3	Benzo(a)anthracene	ND	130	52	ug/kg	
50-32-8	Benzo(a)pyrene	426	130	37	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	130	27	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	130	32	ug/kg	
207-08-9	Benzo(k)fluoranthene	101	130	85	ug/kg	J
218-01-9	Chrysene	ND	130	41	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	130	30	ug/kg	
206-44-0	Fluoranthene	ND	130	91	ug/kg	
86-73-7	Fluorene	ND	130	40	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	130	38	ug/kg	
91-57-6	2-Methylnaphthalene	ND	130	42	ug/kg	
91-20-3	Naphthalene	ND	130	54	ug/kg	
85-01-8	Phenanthrene	ND	130	37	ug/kg	
129-00-0	Pyrene	ND	130	33	ug/kg	
	C11-C22 Aromatics (Unadj.)	13800	6300	550	ug/kg	
	C9-C18 Aliphatics	ND	6300	180	ug/kg	
	C11-C22 Aromatics	13300	6300	550	ug/kg	
	C19-C36 Aliphatics	6000	6300	430	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	48%		40-140%
84-15-1	o-Terphenyl	48%		40-140%
321-60-8	2-Fluorobiphenyl	110%		40-140%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound