



ANALYTICAL SUMMARY REPORT

January 03, 2020

Skyline Ranch Improvement Service Dist
PO Box 3601
Jackson, WY 83001

Work Order: C19120781
Project Name: WY5600217

Energy Laboratories, Inc. Casper WY received the following 1 sample for Skyline Ranch Improvement Service Dist on 12/20/2019 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C19120781-001	ST02 SP03	12/19/19 10:00	12/20/19	Drinking Water	pH Check for HPLC 515.4-Herbicides, Chlorinated SDWA 547-Herbicides, Glyphosate SDWA Supervisor Review Herbicide Liquid-Liquid Microextraction 504.1 Microextraction 504-Microextraction VOCs, EDB and DBCP SDWA 531-Pesticides, Carbamates SDWA LSE for 549.2 549-Pesticides, Diquat SDWA Semi-Volatile Organic Compounds Extraction 525-Semi-Volatile Organic Compounds, SDWA Endothall extraction 548-Endothall

The analyses presented in this report were performed by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these test results, please contact your Project Manager .

Report Approved By:



CLIENT: Skyline Ranch Improvement Service Dist
Project: WY5600217
Work Order: C19120781

Report Date: 01/03/20

CASE NARRATIVE

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Skyline Ranch Improvement Service Dist

Lab ID: C19120781-001

Client Sample ID: ST02 SP03

Report Date: 01/03/20

PWS #: WY5600217 **Name:** SKYLINE RANCH I&S DISTRICT

Collection Date: 12/19/19 10:00

Facility ID: ST02

Date Received: 12/20/19

Sampling Point/Location: SP03 / ST02 SP03

Matrix: Drinking Water

Project ID: WY5600217

Federal ID#: WY00002

Collector's Name: Emily Hanner

Contact Phone #:

Compliance Sample: YES

Sample Type: RT

FRDS Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
SEMI-VOLATILE ORGANIC COMPOUNDS							
2051 Alachlor	ND	ug/L		0.10	2	E525.2	12/28/19 02:36 / eli-b
2356 Aldrin	ND	ug/L		0.10		E525.2	12/28/19 02:36 / eli-b
2388 Aroclor 1016	ND	ug/L		0.080		E525.2	12/28/19 02:36 / eli-b
2390 Aroclor 1221	ND	ug/L		2.0		E525.2	12/28/19 02:36 / eli-b
2392 Aroclor 1232	ND	ug/L		0.50		E525.2	12/28/19 02:36 / eli-b
2394 Aroclor 1242	ND	ug/L		0.30		E525.2	12/28/19 02:36 / eli-b
2396 Aroclor 1248	ND	ug/L		0.10		E525.2	12/28/19 02:36 / eli-b
2398 Aroclor 1254	ND	ug/L		0.10		E525.2	12/28/19 02:36 / eli-b
2400 Aroclor 1260	ND	ug/L		0.20		E525.2	12/28/19 02:36 / eli-b
2050 Atrazine	ND	ug/L		0.10	3	E525.2	12/28/19 02:36 / eli-b
2306 Benzo(a)pyrene	ND	ug/L		0.10	0.2	E525.2	12/28/19 02:36 / eli-b
2035 bis(2-ethylhexyl)Adipate	ND	ug/L		0.50	400	E525.2	12/28/19 02:36 / eli-b
2039 bis(2-ethylhexyl)Phthalate	ND	ug/L		0.60	6	E525.2	12/28/19 02:36 / eli-b
2076 Butachlor	ND	ug/L		0.10		E525.2	12/28/19 02:36 / eli-b
2959 Chlordane	ND	ug/L		1.0	2	E525.2	12/28/19 02:36 / eli-b
2070 Dieldrin	ND	ug/L		0.10		E525.2	12/28/19 02:36 / eli-b
2005 Endrin	ND	ug/L		0.10	2	E525.2	12/28/19 02:36 / eli-b
2010 gamma-BHC (Lindane)	ND	ug/L		0.10	0.2	E525.2	12/28/19 02:36 / eli-b
2065 Heptachlor	ND	ug/L		0.10	0.4	E525.2	12/28/19 02:36 / eli-b
2067 Heptachlor epoxide	ND	ug/L		0.10	0.2	E525.2	12/28/19 02:36 / eli-b
2274 Hexachlorobenzene	ND	ug/L		0.10	1	E525.2	12/28/19 02:36 / eli-b
2042 Hexachlorocyclopentadiene	ND	ug/L		0.10	50	E525.2	12/28/19 02:36 / eli-b
2015 Methoxychlor	ND	ug/L		0.10	40	E525.2	12/28/19 02:36 / eli-b
2045 Metolachlor	ND	ug/L		0.10		E525.2	12/28/19 02:36 / eli-b
2595 Metribuzin	ND	ug/L		0.10		E525.2	12/28/19 02:36 / eli-b
2077 Propachlor	ND	ug/L		0.10		E525.2	12/28/19 02:36 / eli-b
2037 Simazine	ND	ug/L		0.10	4	E525.2	12/28/19 02:36 / eli-b
2020 Toxaphene	ND	ug/L		2.0	3	E525.2	12/28/19 02:36 / eli-b
2383 PCBs, Total	ND	ug/L		0.50	0.5	E525.2	12/28/19 02:36 / eli-b
Surr: 1,3-Dimethyl-2-nitrobenzene	101	%REC				70-130	E525.2 12/28/19 02:36 / eli-b
Surr: Perylene-d12	93.0	%REC				70-130	E525.2 12/28/19 02:36 / eli-b
Surr: Pyrene-d10	100	%REC				70-130	E525.2 12/28/19 02:36 / eli-b
Surr: Triphenylphosphate	114	%REC				70-130	E525.2 12/28/19 02:36 / eli-b

- Note: The federal MCL for total PCB's is 0.5 ug/L as Decachlorobiphenyl (DCB). PCB screening at the reporting limits given for the individual Aroclors meets or exceeds federal and state requirements for "Total PCB" monitoring if Aroclors are not detected.

Report RL - Analyte reporting limit.

MCL - Maximum contaminant level.

Definitions: QCL - Quality control limit.

ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Skyline Ranch Improvement Service Dist

Lab ID: C19120781-001

Client Sample ID: ST02 SP03

Report Date: 01/03/20

PWS #: WY5600217 **Name:** SKYLINE RANCH I&S DISTRICT

Collection Date: 12/19/19 10:00

Facility ID: ST02

Date Received: 12/20/19

Sampling Point/Location: SP03 / ST02 SP03

Matrix: Drinking Water

Project ID: WY5600217

Federal ID#: WY00002

Collector's Name: Emily Hanner

Contact Phone #:

Compliance Sample: YES

Sample Type: RT

FRDS Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
SEMI-VOLATILE ORGANIC COMPOUNDS							
2033 Endothall	ND	ug/L		8.0	100	E548.1	12/30/19 14:54 / eli-b
Surr: 2,4-Dichlorophenylacetic acid	103	%REC			70-130	E548.1	12/30/19 14:54 / eli-b
PESTICIDES, BY HPLC							
2047 Aldicarb	ND	ug/L		1.0	3	E531.1	12/28/19 16:00 / lji
2044 Aldicarb sulfone	ND	ug/L		1.0	2	E531.1	12/28/19 16:00 / lji
2043 Aldicarb sulfoxide	ND	ug/L		1.0	4	E531.1	12/28/19 16:00 / lji
2021 Carbaryl	ND	ug/L		1.0		E531.1	12/28/19 16:00 / lji
2066 3-Hydroxycarbofuran	ND	ug/L		1.0		E531.1	12/28/19 16:00 / lji
2046 Carbofuran	ND	ug/L		1.0	40	E531.1	12/28/19 16:00 / lji
2024 Methiocarb	ND	ug/L		1.0		E531.1	12/28/19 16:00 / lji
2022 Methomyl	ND	ug/L		1.0		E531.1	12/28/19 16:00 / lji
2036 Oxamyl	ND	ug/L		1.0	200	E531.1	12/28/19 16:00 / lji
Baygon	ND	ug/L		1.0		E531.1	12/28/19 16:00 / lji
Surr: BDMC	115	%REC			70-130	E531.1	12/28/19 16:00 / lji
VOCS BY MICROEXTRACTION-ECD							
2414 1,2,3-Trichloropropane	ND	ug/L		0.050		E504.1	12/26/19 09:46 / eli-b
2931 1,2-Dibromo-3-chloropropane	ND	ug/L		0.020	0.2	E504.1	12/26/19 09:46 / eli-b
2946 1,2-Dibromoethane	ND	ug/L		0.010	0.05	E504.1	12/26/19 09:46 / eli-b
Surr: 1,1,1,2-Tetrachloroethane	101	%REC			70-130	E504.1	12/26/19 09:46 / eli-b
HERBICIDES, BY HPLC							
2034 Glyphosate	ND	ug/L		5.0	700	E547	12/26/19 23:00 / lji
PESTICIDES							
2032 Diquat	ND	ug/L		0.40	20	E549.2	12/26/19 15:19 / lji
HERBICIDES							
2110 2,4,5-TP (Silvex)	ND	ug/L		0.25	50	E515.4	12/31/19 05:03 / eli-b
2105 2,4-D	ND	ug/L		1.0	70	E515.4	12/31/19 05:03 / eli-b
2106 2,4-DB	ND	ug/L		1.0		E515.4	12/31/19 05:03 / eli-b
2031 Dalapon	ND	ug/L		2.5	200	E515.4	12/31/19 05:03 / eli-b
2440 Dicamba	ND	ug/L		1.0		E515.4	12/31/19 05:03 / eli-b
2206 Dichlorprop	ND	ug/L		1.0		E515.4	12/31/19 05:03 / eli-b
2041 Dinoseb	ND	ug/L		1.0	7	E515.4	12/31/19 05:03 / eli-b

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Lab ID: C19120781-001

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Project ID: WY5600217

Federal ID#: WY00002

Collector's Name: Emily Hanner

Contact Phone #:

Compliance Sample: YES

Sample Type: RT

FRDS Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
HERBICIDES							
2326 Pentachlorophenol	ND	ug/L		0.10	1	E515.4	12/31/19 05:03 / eli-b
2040 Picloram	ND	ug/L		0.50	500	E515.4	12/31/19 05:03 / eli-b
Surr: 2,4-Dichlorophenylacetic acid	104	%REC			70-130	E515.4	12/31/19 05:03 / eli-b

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MCL - Maximum contaminant level.

Definitions: QCL - Quality control limit.

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QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Skyline Ranch Improvement Service Dist

Work Order: C19120781

Report Date: 01/01/20

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E531.1										Analytical Run: HPLC-2030C-01_191228A	
Lab ID: CCV	11 Continuing Calibration Verification Standard								12/28/19 15:02		
Aldicarb		9.9	ug/L	1.0	99	80	120				
Aldicarb sulfone		9.2	ug/L	1.0	92	80	120				
Aldicarb sulfoxide		9.3	ug/L	1.0	93	80	120				
Carbaryl		10.3	ug/L	1.0	103	80	120				
3-Hydroxycarbofuran		9.4	ug/L	1.0	94	80	120				
Carbofuran		9.8	ug/L	1.0	98	80	120				
Methiocarb		10.1	ug/L	1.0	101	80	120				
Methomyl		9.4	ug/L	1.0	94	80	120				
Oxamyl		9.2	ug/L	1.0	92	80	120				
Baygon		10.2	ug/L	1.0	102	80	120				
Surr: BDMC				1.0	101	70	130				
Method: E531.1										Batch: R254389	
Lab ID: MBLK	11 Method Blank								Run: HPLC-2030C-01_191228A 12/28/19 13:07		
Aldicarb		ND	ug/L	0.2							
Aldicarb sulfone		ND	ug/L	0.3							
Aldicarb sulfoxide		ND	ug/L	0.2							
Carbaryl		ND	ug/L	0.1							
3-Hydroxycarbofuran		ND	ug/L	0.2							
Carbofuran		ND	ug/L	0.2							
Methiocarb		ND	ug/L	0.4							
Methomyl		ND	ug/L	0.1							
Oxamyl		ND	ug/L	0.3							
Baygon		ND	ug/L	0.2							
Surr: BDMC					112	70	130				
Lab ID: LCS	11 Laboratory Control Sample								Run: HPLC-2030C-01_191228A 12/28/19 14:05		
Aldicarb		8.0	ug/L	1.0	100	80	120				
Aldicarb sulfone		7.5	ug/L	1.0	93	80	120				
Aldicarb sulfoxide		8.3	ug/L	1.0	104	80	120				
Carbaryl		8.1	ug/L	1.0	101	80	120				
3-Hydroxycarbofuran		7.9	ug/L	1.0	99	80	120				
Carbofuran		7.9	ug/L	1.0	99	80	120				
Methiocarb		8.5	ug/L	1.0	106	80	120				
Methomyl		8.0	ug/L	1.0	100	80	120				
Oxamyl		7.8	ug/L	1.0	97	80	120				
Baygon		8.2	ug/L	1.0	103	80	120				
Surr: BDMC				1.0	100	70	130				
Lab ID: C19120781-001FMSD	11 Sample Matrix Spike Duplicate								Run: HPLC-2030C-01_191228A 12/28/19 17:55		
Aldicarb		8.1	ug/L	1.0	101	65	135	4.0	20		
Aldicarb sulfone		8.2	ug/L	1.0	102	65	135	3.4	20		
Aldicarb sulfoxide		8.3	ug/L	1.0	103	65	135	4.2	20		
Carbaryl		8.1	ug/L	1.0	101	65	135	3.4	20		
3-Hydroxycarbofuran		8.1	ug/L	1.0	101	65	135	3.3	20		
Carbofuran		8.2	ug/L	1.0	103	65	135	4.2	20		

Qualifiers:

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QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Skyline Ranch Improvement Service Dist

Work Order: C19120781

Report Date: 01/01/20

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E531.1 Batch: R254389										
Lab ID: C19120781-001FMSD 11 Sample Matrix Spike Duplicate Run: HPLC-2030C-01_191228A 12/28/19 17:55										
Methiocarb		8.4	ug/L	1.0	105	65	135	1.5	20	
Methomyl		8.0	ug/L	1.0	100	65	135	2.5	20	
Oxamyl		7.9	ug/L	1.0	99	65	135	2.7	20	
Baygon		8.4	ug/L	1.0	105	65	135	3.4	20	
Surr: BDMC				1.0	102	70	130	0.0	20	
Lab ID: C19120781-001FMS 11 Sample Matrix Spike Run: HPLC-2030C-01_191228A 12/28/19 18:56										
Aldicarb		7.8	ug/L	1.0	97	65	135			
Aldicarb sulfone		7.9	ug/L	1.0	99	65	135			
Aldicarb sulfoxide		7.9	ug/L	1.0	99	65	135			
Carbaryl		7.8	ug/L	1.0	98	65	135			
3-Hydroxycarbofuran		7.8	ug/L	1.0	98	65	135			
Carbofuran		7.9	ug/L	1.0	99	65	135			
Methiocarb		8.3	ug/L	1.0	103	65	135			
Methomyl		7.8	ug/L	1.0	98	65	135			
Oxamyl		7.7	ug/L	1.0	97	65	135			
Baygon		8.1	ug/L	1.0	102	65	135			
Surr: BDMC				1.0	99	70	130			

Qualifiers:

RL - Analyte reporting limit.

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QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Skyline Ranch Improvement Service Dist

Work Order: C19120781

Report Date: 01/01/20

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E547										Analytical Run: HPLC203-C_191226B
Lab ID: ICV		Initial Calibration Verification Standard								12/26/19 18:46
Glyphosate	21	ug/L	5.0	85	80	120				
Lab ID: CCV		Continuing Calibration Verification Standard								12/26/19 19:04
Glyphosate	19	ug/L	5.0	93	80	120				
Method: E547										Batch: R254305
Lab ID: MB		Method Blank								12/26/19 19:22
Glyphosate	ND	ug/L	2							Run: HPLC203-C_191226B
Lab ID: C19120642-001GMS		Sample Matrix Spike								12/27/19 13:47
Glyphosate	21	ug/L	5.0	84	70	130				Run: HPLC203-C_191226B
Lab ID: C19120642-001GMSD		Sample Matrix Spike Duplicate								12/27/19 14:05
Glyphosate	22	ug/L	5.0	88	70	130	4.5	20		Run: HPLC203-C_191226B

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Skyline Ranch Improvement Service Dist

Work Order: C19120781

Report Date: 01/01/20

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E549.2										Analytical Run: HPLC203-C_191226A	
Lab ID: ICV		Initial Calibration Verification Standard								12/26/19 12:25	
Diquat		151	ug/L	0.40	101	80	120				
Lab ID: CCV		Continuing Calibration Verification Standard								12/26/19 12:34	
Diquat		99.7	ug/L	0.40	100	80	120				
Method: E549.2										Batch: 56265	
Lab ID: MB-56265		Method Blank								Run: HPLC203-C_191226A	12/26/19 14:15
Diquat		ND	ug/L	0.1							
Lab ID: LCS-56265		Laboratory Control Sample								Run: HPLC203-C_191226A	12/26/19 14:24
Diquat		3.60	ug/L	0.40	72	70	130				
Lab ID: LCSD-56265		Laboratory Control Sample Duplicate								Run: HPLC203-C_191226A	12/26/19 14:33
Diquat		3.54	ug/L	0.40	71	70	130	1.8	30		
Lab ID: C19120777-001HMS		Sample Matrix Spike								Run: HPLC203-C_191226A	12/26/19 14:51
Diquat		4.36	ug/L	0.40	87	48	118				

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Skyline Ranch Improvement Service Dist

Work Order: C19120781

Report Date: 01/02/20

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E504.1 Analytical Run: 140455											
Lab ID: CK2-140455	4	Continuing Calibration Verification Standard									12/26/19 06:02
1,2,3-Trichloropropane		0.0522	ug/L	0.050	104	70	130				
1,2-Dibromo-3-chloropropane		0.0484	ug/L	0.020	97	70	130				
1,2-Dibromoethane		0.0488	ug/L	0.010	98	70	130				
Surr: 1,1,1,2-Tetrachloroethane				0.020	99	70	130				
Lab ID: CK4-140455	4	Continuing Calibration Verification Standard									12/26/19 10:47
1,2,3-Trichloropropane		0.198	ug/L	0.050	99	70	130				
1,2-Dibromo-3-chloropropane		0.195	ug/L	0.020	97	70	130				
1,2-Dibromoethane		0.199	ug/L	0.010	99	70	130				
Surr: 1,1,1,2-Tetrachloroethane				0.020	98	70	130				
Method: E504.1 Batch: 140455											
Lab ID: MB-140455	4	Method Blank									12/26/19 06:42
1,2,3-Trichloropropane		ND	ug/L	0.050							
1,2-Dibromo-3-chloropropane		ND	ug/L	0.020							
1,2-Dibromoethane		ND	ug/L	0.010							
Surr: 1,1,1,2-Tetrachloroethane				0.020	98	70	130				
Lab ID: LCS-140455	4	Laboratory Control Sample									12/26/19 07:23
1,2,3-Trichloropropane		0.231	ug/L	0.050	93	70	130				
1,2-Dibromo-3-chloropropane		0.227	ug/L	0.020	91	70	130				
1,2-Dibromoethane		0.247	ug/L	0.010	99	70	130				
Surr: 1,1,1,2-Tetrachloroethane				0.020	99	70	130				
Lab ID: LCSDUP-140455	4	Laboratory Control Sample Duplicate									12/26/19 07:44
1,2,3-Trichloropropane		0.229	ug/L	0.050	91	70	130	1.1	20		
1,2-Dibromo-3-chloropropane		0.225	ug/L	0.020	90	70	130	0.7	20		
1,2-Dibromoethane		0.247	ug/L	0.010	99	70	130	0.2	20		
Surr: 1,1,1,2-Tetrachloroethane				0.020	99	70	130				
Lab ID: C19120781-001EMS	4	Sample Matrix Spike									12/26/19 10:06
1,2,3-Trichloropropane		0.240	ug/L	0.050	96	65	135				
1,2-Dibromo-3-chloropropane		0.236	ug/L	0.020	94	65	135				
1,2-Dibromoethane		0.254	ug/L	0.010	102	65	135				
Surr: 1,1,1,2-Tetrachloroethane				0.020	101	65	135				

Qualifiers:

RL - Analyte reporting limit.

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QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Skyline Ranch Improvement Service Dist

Work Order: C19120781

Report Date: 01/02/20

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E515.4 Analytical Run: 140544										
Lab ID: CAL1-140544	10 Continuing Calibration Verification Standard									12/31/19 00:52
2,4,5-TP (Silvex)		0.239	ug/L	0.25	96	50	150			
2,4-D		0.941	ug/L	1.0	94	50	150			
2,4-DB		0.936	ug/L	1.0	94	50	150			
Dalapon		1.17	ug/L	2.5	117	50	150			
Dicamba		0.485	ug/L	1.0	97	50	150			
Dichlorprop		1.03	ug/L	1.0	103	50	150			
Dinoseb		1.02	ug/L	1.0	102	50	150			
Pentachlorophenol		0.106	ug/L	0.10	106	50	150			
Picloram		0.431	ug/L	0.50	86	50	150			
Surr: 2,4-Dichlorophenylacetic acid					104	70	130			
Lab ID: CAL3-140544 12/31/19 09:50										
	10 Continuing Calibration Verification Standard									
2,4,5-TP (Silvex)		0.775	ug/L	0.25	103	70	130			
2,4-D		2.96	ug/L	1.0	99	70	130			
2,4-DB		3.20	ug/L	1.0	107	70	130			
Dalapon		3.09	ug/L	2.5	103	70	130			
Dicamba		1.53	ug/L	1.0	102	70	130			
Dichlorprop		3.05	ug/L	1.0	102	70	130			
Dinoseb		3.12	ug/L	1.0	104	70	130			
Pentachlorophenol		0.306	ug/L	0.10	102	70	130			
Picloram		1.47	ug/L	0.50	98	70	130			
Surr: 2,4-Dichlorophenylacetic acid					98	70	130			
Method: E515.4 Batch: 140544										
Lab ID: LCS-140544	10 Laboratory Control Sample									12/31/19 01:28
										Run: CECD.I_191230B
2,4,5-TP (Silvex)		1.11	ug/L	0.25	89	70	130			
2,4-D		4.43	ug/L	1.0	89	70	130			
2,4-DB		4.69	ug/L	1.0	94	70	130			
Dalapon		4.37	ug/L	2.5	87	70	130			
Dicamba		2.36	ug/L	1.0	94	70	130			
Dichlorprop		4.65	ug/L	1.0	93	70	130			
Dinoseb		4.27	ug/L	1.0	85	70	130			
Pentachlorophenol		0.400	ug/L	0.10	80	70	130			
Picloram		2.21	ug/L	0.50	88	70	130			
Surr: 2,4-Dichlorophenylacetic acid					98	70	130			
Lab ID: MB-140544 12/31/19 02:03										
	10 Method Blank									Run: CECD.I_191230B
2,4,5-TP (Silvex)		ND	ug/L	0.25						
2,4-D		ND	ug/L	1.0						
2,4-DB		ND	ug/L	1.0						
Dalapon		ND	ug/L	2.5						
Dicamba		ND	ug/L	1.0						
Dichlorprop		ND	ug/L	1.0						
Dinoseb		ND	ug/L	1.0						
Pentachlorophenol		ND	ug/L	0.10						
Picloram		ND	ug/L	0.50						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Skyline Ranch Improvement Service Dist

Work Order: C19120781

Report Date: 01/02/20

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E515.4										
Batch: 140544										
Lab ID: MB-140544	10	Method Blank								
Surr: 2,4-Dichlorophenylacetic acid				96		70	130			
Run: CECD.I_191230B 12/31/19 02:03										
Lab ID: B19122218-001AMS	10	Sample Matrix Spike								
Run: CECD.I_191230B 12/31/19 03:15										
2,4,5-TP (Silvex)		1.13	ug/L	0.25	90	70	130			
2,4-D		4.70	ug/L	1.0	94	70	130			
2,4-DB		4.55	ug/L	1.0	91	70	130			
Dalapon		5.47	ug/L	2.5	109	70	130			
Dicamba		2.40	ug/L	1.0	96	70	130			
Dichlorprop		4.69	ug/L	1.0	94	70	130			
Dinoseb		4.39	ug/L	1.0	88	70	130			
Pentachlorophenol		0.432	ug/L	0.10	86	70	130			
Picloram		2.14	ug/L	0.50	86	70	130			
Surr: 2,4-Dichlorophenylacetic acid				100		70	130			
Lab ID: B19122218-001AMSD	10	Sample Matrix Spike Duplicate								
Run: CECD.I_191230B 12/31/19 03:51										
2,4,5-TP (Silvex)		1.12	ug/L	0.25	90	70	130	0.5	30	
2,4-D		4.40	ug/L	1.0	88	70	130	6.5	30	
2,4-DB		4.72	ug/L	1.0	94	70	130	3.7	30	
Dalapon		4.88	ug/L	2.5	98	70	130	11	30	
Dicamba		2.29	ug/L	1.0	92	70	130	4.7	30	
Dichlorprop		4.63	ug/L	1.0	93	70	130	1.2	30	
Dinoseb		4.39	ug/L	1.0	88	70	130	0.0	30	
Pentachlorophenol		0.428	ug/L	0.10	86	70	130	0.8	30	
Picloram		2.17	ug/L	0.50	87	70	130	1.6	30	
Surr: 2,4-Dichlorophenylacetic acid				101		70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Skyline Ranch Improvement Service Dist

Work Order: C19120781

Report Date: 01/02/20

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E525.2											
Batch: 140485											
Lab ID: MB-140485	25	Method Blank		Run: SVSATURN2_191227A				12/27/19 12:48			
Alachlor		ND	ug/L	0.10							
Aldrin		ND	ug/L	0.10							
Atrazine		ND	ug/L	0.10							
Benzo(a)pyrene		ND	ug/L	0.10							
bis(2-ethylhexyl)Adipate		ND	ug/L	0.50							
bis(2-ethylhexyl)Phthalate		ND	ug/L	0.60							
Butachlor		ND	ug/L	0.10							
Chlordane		ND	ug/L	1.0							
Dieldrin		ND	ug/L	0.10							
Endrin		ND	ug/L	0.10							
gamma-BHC (Lindane)		ND	ug/L	0.10							
Heptachlor		ND	ug/L	0.10							
Heptachlor epoxide		ND	ug/L	0.10							
Hexachlorobenzene		ND	ug/L	0.10							
Hexachlorocyclopentadiene		ND	ug/L	0.10							
Methoxychlor		ND	ug/L	0.10							
Metolachlor		ND	ug/L	0.10							
Metribuzin		ND	ug/L	0.10							
Propachlor		ND	ug/L	0.10							
Simazine		ND	ug/L	0.10							
Toxaphene		ND	ug/L	2.0							
Surr: 1,3-Dimethyl-2-nitrobenzene				0.10	100	70	130				
Surr: Perylene-d12				0.10	94	70	130				
Surr: Pyrene-d10				0.10	101	70	130				
Surr: Triphenylphosphate				0.10	107	70	130				
Lab ID: LCS-140485	23	Laboratory Control Sample		Run: SVSATURN2_191227A				12/27/19 14:05			
Alachlor		2.28	ug/L	0.10	114	70	130				
Aldrin		2.06	ug/L	0.10	103	70	130				
Atrazine		1.78	ug/L	0.10	89	70	130				
Benzo(a)pyrene		2.12	ug/L	0.10	106	70	130				
bis(2-ethylhexyl)Adipate		2.22	ug/L	0.50	111	70	130				
bis(2-ethylhexyl)Phthalate		2.29	ug/L	0.60	115	70	130				
Butachlor		2.47	ug/L	0.10	124	70	130				
Dieldrin		1.89	ug/L	0.10	94	70	130				
Endrin		1.99	ug/L	0.10	100	70	130				
gamma-BHC (Lindane)		2.20	ug/L	0.10	110	70	130				
Heptachlor		2.10	ug/L	0.10	105	70	130				
Heptachlor epoxide		2.09	ug/L	0.10	104	70	130				
Hexachlorobenzene		2.30	ug/L	0.10	115	70	130				
Hexachlorocyclopentadiene		2.07	ug/L	0.10	103	70	130				
Methoxychlor		2.21	ug/L	0.10	110	70	130				
Metolachlor		2.26	ug/L	0.10	113	70	130				
Metribuzin		1.95	ug/L	0.10	98	70	130				
Propachlor		2.25	ug/L	0.10	113	70	130				
Simazine		1.42	ug/L	0.10	71	70	130				

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Skyline Ranch Improvement Service Dist

Work Order: C19120781

Report Date: 01/02/20

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E525.2										
Batch: 140485										
Lab ID: LCS-140485	23	Laboratory Control Sample								
										Run: SVSATURN2_191227A 12/27/19 14:05
Surr: 1,3-Dimethyl-2-nitrobenzene				0.10	101	70	130			
Surr: Perylene-d12				0.10	99	70	130			
Surr: Pyrene-d10				0.10	103	70	130			
Surr: Triphenylphosphate				0.10	112	70	130			
Lab ID: TOX-140485	5	Laboratory Control Sample								
										Run: SVSATURN2_191227A 12/27/19 16:00
Toxaphene		46.8	ug/L	2.0	117	70	130			
Surr: 1,3-Dimethyl-2-nitrobenzene				0.10	101	70	130			
Surr: Perylene-d12				0.10	93	70	130			
Surr: Pyrene-d10				0.10	105	70	130			
Surr: Triphenylphosphate				0.10	108	70	130			
Lab ID: B19121879-002BMS	23	Sample Matrix Spike								
										Run: SVSATURN2_191227A 12/27/19 14:44
Alachlor		4.34	ug/L	0.20	108	70	130			
Aldrin		4.14	ug/L	0.20	103	70	130			
Atrazine		3.78	ug/L	0.20	94	70	130			
Benzo(a)pyrene		4.20	ug/L	0.20	105	70	130			
bis(2-ethylhexyl)Adipate		4.32	ug/L	1.0	108	70	130			
bis(2-ethylhexyl)Phthalate		4.68	ug/L	1.2	117	70	130			
Butachlor		4.98	ug/L	0.20	125	70	130			
Dieldrin		3.90	ug/L	0.20	98	70	130			
Endrin		4.00	ug/L	0.20	100	70	130			
gamma-BHC (Lindane)		3.98	ug/L	0.20	100	70	130			
Heptachlor		4.26	ug/L	0.20	106	70	130			
Heptachlor epoxide		3.94	ug/L	0.20	99	70	130			
Hexachlorobenzene		4.52	ug/L	0.20	113	70	130			
Hexachlorocyclopentadiene		3.84	ug/L	0.20	96	70	130			
Methoxychlor		4.48	ug/L	0.20	112	70	130			
Metolachlor		4.50	ug/L	0.20	113	70	130			
Metribuzin		3.84	ug/L	0.20	96	70	130			
Propachlor		4.60	ug/L	0.20	115	70	130			
Simazine		3.24	ug/L	0.20	81	70	130			
Surr: 1,3-Dimethyl-2-nitrobenzene				0.20	94	70	130			
Surr: Perylene-d12				0.20	98	70	130			
Surr: Pyrene-d10				0.20	103	70	130			
Surr: Triphenylphosphate				0.20	105	70	130			
Lab ID: B19122106-001AMS	23	Sample Matrix Spike								
										Run: SVSATURN2_191227A 12/27/19 15:22
Alachlor		4.60	ug/L	0.20	115	70	130			
Aldrin		3.94	ug/L	0.20	99	70	130			
Atrazine		4.12	ug/L	0.20	103	70	130			
Benzo(a)pyrene		4.34	ug/L	0.20	108	70	130			
bis(2-ethylhexyl)Adipate		4.52	ug/L	1.0	113	70	130			
bis(2-ethylhexyl)Phthalate		4.74	ug/L	1.2	119	70	130			
Butachlor		5.00	ug/L	0.20	125	70	130			
Dieldrin		4.14	ug/L	0.20	103	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Skyline Ranch Improvement Service Dist

Work Order: C19120781

Report Date: 01/02/20

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E525.2										
Batch: 140485										
Lab ID:	B19122106-001AMS	23	Sample Matrix Spike							
										Run: SVSATURN2_191227A 12/27/19 15:22
Endrin		3.98	ug/L	0.20	100	70	130			
gamma-BHC (Lindane)		4.28	ug/L	0.20	107	70	130			
Heptachlor		4.12	ug/L	0.20	103	70	130			
Heptachlor epoxide		4.06	ug/L	0.20	101	70	130			
Hexachlorobenzene		4.32	ug/L	0.20	108	70	130			
Hexachlorocyclopentadiene		3.98	ug/L	0.20	100	70	130			
Methoxychlor		4.56	ug/L	0.20	114	70	130			
Metolachlor		4.50	ug/L	0.20	113	70	130			
Metribuzin		3.72	ug/L	0.20	93	70	130			
Propachlor		4.70	ug/L	0.20	118	70	130			
Simazine		3.24	ug/L	0.20	81	70	130			
Surr: 1,3-Dimethyl-2-nitrobenzene				0.20	99	70	130			
Surr: Perylene-d12				0.20	100	70	130			
Surr: Pyrene-d10				0.20	102	70	130			
Surr: Triphenylphosphate				0.20	113	70	130			
Lab ID:	MB-140485	11	Method Blank							
										Run: SVSATURN2_191227A 12/27/19 12:48
Aroclor 1016		ND	ug/L	0.080						
Aroclor 1221		ND	ug/L	2.0						
Aroclor 1232		ND	ug/L	0.50						
Aroclor 1242		ND	ug/L	0.30						
Aroclor 1248		ND	ug/L	0.10						
Aroclor 1254		ND	ug/L	0.10						
Aroclor 1260		ND	ug/L	0.20						
Surr: 1,3-Dimethyl-2-nitrobenzene				0.10	97	70	130			
Surr: Perylene-d12				0.10	89	70	130			
Surr: Pyrene-d10				0.10	92	70	130			
Surr: Triphenylphosphate				0.10	110	70	130			
Lab ID:	Ar1660-140485	6	Laboratory Control Sample							
										Run: SVSATURN2_191227A 12/27/19 13:27
Aroclor 1016		1.65	ug/L	0.080	83	70	130			
Aroclor 1260		2.50	ug/L	0.20	125	70	130			
Surr: 1,3-Dimethyl-2-nitrobenzene				0.10	98	70	130			
Surr: Perylene-d12				0.10	94	70	130			
Surr: Pyrene-d10				0.10	89	70	130			
Surr: Triphenylphosphate				0.10	110	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Skyline Ranch Improvement Service Dist

Work Order: C19120781

Report Date: 01/02/20

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E525.2								Analytical Run: R333079		
Lab ID: 525_CCV_5	23 Continuing Calibration Verification Standard								12/27/19 22:07	
Alachlor		2.03	ug/L	0.10	101	70	130			
Aldrin		1.92	ug/L	0.10	96	70	130			
Atrazine		1.80	ug/L	0.10	90	70	130			
Benzo(a)pyrene		1.82	ug/L	0.10	91	70	130			
bis(2-ethylhexyl)Adipate		1.87	ug/L	0.50	94	70	130			
bis(2-ethylhexyl)Phthalate		1.96	ug/L	0.60	98	70	130			
Butachlor		1.95	ug/L	0.10	98	70	130			
Dieldrin		1.84	ug/L	0.10	92	70	130			
Endrin		1.89	ug/L	0.10	95	70	130			
gamma-BHC (Lindane)		1.89	ug/L	0.10	95	70	130			
Heptachlor		1.99	ug/L	0.10	100	70	130			
Heptachlor epoxide		1.94	ug/L	0.10	97	70	130			
Hexachlorobenzene		1.97	ug/L	0.10	99	70	130			
Hexachlorocyclopentadiene		1.99	ug/L	0.10	100	70	130			
Methoxychlor		2.02	ug/L	0.10	101	70	130			
Metolachlor		1.92	ug/L	0.10	96	70	130			
Metribuzin		1.98	ug/L	0.10	99	70	130			
Propachlor		1.92	ug/L	0.10	96	70	130			
Simazine		1.66	ug/L	0.10	83	70	130			
Surr: 1,3-Dimethyl-2-nitrobenzene				0.10	98	70	130			
Surr: Perylene-d12				0.10	100	70	130			
Surr: Pyrene-d10				0.10	100	70	130			
Surr: Triphenylphosphate				0.10	103	70	130			
Lab ID: CLD_CCV_5	5 Continuing Calibration Verification Standard								12/27/19 23:24	
Chlordane		19.1	ug/L	1.0	96	70	130			
Surr: 1,3-Dimethyl-2-nitrobenzene				0.10	99	70	130			
Surr: Perylene-d12				0.10	98	70	130			
Surr: Pyrene-d10				0.10	99	70	130			
Surr: Triphenylphosphate				0.10	101	70	130			
Lab ID: TOX_CCV_5	5 Continuing Calibration Verification Standard								12/28/19 00:02	
Toxaphene		46.2	ug/L	2.0	116	70	130			
Surr: 1,3-Dimethyl-2-nitrobenzene				0.10	95	70	130			
Surr: Perylene-d12				0.10	103	70	130			
Surr: Pyrene-d10				0.10	102	70	130			
Surr: Triphenylphosphate				0.10	101	70	130			
Lab ID: Ar1660_CCV_5	6 Continuing Calibration Verification Standard								12/27/19 22:46	
Aroclor 1016		1.20	ug/L	0.080	75	70	130			
Aroclor 1260		4.21	ug/L	0.20	105	70	130			
Surr: 1,3-Dimethyl-2-nitrobenzene				0.10	97	70	130			
Surr: Perylene-d12				0.10	94	70	130			
Surr: Pyrene-d10				0.10	91	70	130			
Surr: Triphenylphosphate				0.10	105	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Skyline Ranch Improvement Service Dist

Work Order: C19120781

Report Date: 01/02/20

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E548.1 Batch: 140454										
Lab ID: MB-140454	2	Method Blank								Run: SVSATURN3_191230A 12/30/19 12:57
Endothall		ND	ug/L	2.0						
Surr: 2,4-Dichlorophenylacetic acid				10	91	70	130			
Lab ID: LCS-140454 Run: SVSATURN3_191230A 12/30/19 13:20										
Endothall	2	Laboratory Control Sample								
Surr: 2,4-Dichlorophenylacetic acid		9.65	ug/L	2.0	96	70	130			
				10	95	70	130			
Lab ID: C19120781-001CMS Run: SVSATURN3_191230A 12/30/19 13:44										
Endothall	2	Sample Matrix Spike								
Surr: 2,4-Dichlorophenylacetic acid		108	ug/L	8.0	108	70	130			
				100	102	70	130			
Lab ID: C19120781-001CMSD Run: SVSATURN3_191230A 12/30/19 14:07										
Endothall	2	Sample Matrix Spike Duplicate								
Surr: 2,4-Dichlorophenylacetic acid		95.3	ug/L	8.0	95	70	130	13	30	
				100	97	70	130			
Method: E548.1 Analytical Run: R333119										
Lab ID: 548-CCV-4-140189	2	Continuing Calibration Verification Standard								12/30/19 12:11
Endothall		23.6	ug/L	2.0	94	70	130			
Surr: 2,4-Dichlorophenylacetic acid				10	83	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Work Order Receipt Checklist

Skyline Ranch Improvement Service Dist

C19120781

Login completed by: Dorian Quis

Date Received: 12/20/2019

Reviewed by: Kasey Vidick

Received by: CCP

Reviewed Date: 12/23/2019

Carrier name: NDA

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on all shipping container(s)/cooler(s)? Yes No Not Present
- Custody seals intact on all sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time?
(Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.) Yes No
- Temp Blank received in all shipping container(s)/cooler(s)? Yes No Not Applicable
- Container/Temp Blank temperature: 0.9°C On Ice
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No Not Applicable

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

Contact and Corrective Action Comments:

None

