ANALYTICAL SUMMARY REPORT

March 28, 2022

King Ranch Subdivision
PO Box 118
Frenchtown, MT 59834-0118

Work Order: H22030281

Project Name: King Ranch Subdivision MT0004158

Energy Laboratories Inc Helena MT received the following 2 samples for King Ranch Subdivision on 3/11/2022 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
H22030281-001	CH001 EP502	03/10/22 11:00	03/11/22	Drinking Water	Metals by ICP/ICPMS, Drinking Water Cyanide, SDWA Mercury, Drinking Water 515.4-Herbicides, Chlorinated SDWA 547-Herbicides, Glyphosate SDWA Nitrogen, Nitrate + Nitrite Metals Digestion by E200.2 Herbicide Liquid-Liquid Microextraction E515.4 Mercury Digestion by E245.1 504.1 Microextraction 504-Microextraction VOCs, EDB and DBCP SDWA 531-Pesticides, Carbamates SDWA LSE for 549.2 549-Pesticides, Diquat SDWA Semi-Volatile Organic Compounds E525.2 Extraction 525-Semi-Volatile Organic Compounds, SDWA Endothall E548.1 Extraction 548-Endothall
H22030281-002	Trip Blank-#10724	03/10/22 11:00	03/11/22	Trip Blank	

The analyses presented in this report were performed by Energy Laboratories, Inc., 3161 E. Lyndale Ave., Helena, MT 59604, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. 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:

Amanda Carlson
Assistant Laboratory Manager-Helena,MT

Digitally signed by
Amanda B. Carlson
Date: 2022.03.28 17:34:55 -06:00

CLIENT: King Ranch Subdivision
Project: King Ranch Subdivision MT0004158
Work Order: H22030281

Report Date: 03/28/22

CASE NARRATIVE

Tests associated with analyst identified as ELI-CA were subcontracted to Energy Laboratories, 2393 Salt Creek Hwy., Casper, WY, EPA Number WY00002.

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

VOC containers for 524.2 analysis were not preserved in the field. Client will re-sample. wjj 3/16/2022

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: King Ranch Subdivision
Client Sample ID: CH001 EP502
PWS #: MT0004158 **Name:** KING RANCH SUBDIVISION
Facility ID: CH001
SamplingPoint/Location: EP502 / CH001 EP502
Project ID: King Ranch Subdivision MT0004158
Collector's Name: Charles Weihe **Contact Phone #:** (406) 626-5255
Compliance Sample: YES **Sample Type:** RT

Lab ID: H22030281-001
Report Date: 03/28/22
Collection Date: 03/10/22 11:00
Date Received: 03/11/22
Matrix: Drinking Water
Federal ID#:

FRDS	Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
INORGANICS								
1024	Cyanide, Total	ND	mg/L		0.005	0.2	Kelada-01	03/14/22 13:25 / eli-b
NUTRIENTS								
1038	Nitrogen, Nitrate+Nitrite as N	0.24	mg/L		0.01	10	E353.2	03/16/22 13:41 / GEM
METALS, TOTAL (CONTRACT LAB MT00945)								
1074	Antimony	ND	mg/L		0.001	0.006	E200.8	03/16/22 00:49 / dck
1005	Arsenic	0.003	mg/L		0.001	0.01	E200.8	03/16/22 00:49 / dck
1010	Barium	0.50	mg/L		0.05	2	E200.8	03/16/22 00:49 / dck
1075	Beryllium	ND	mg/L		0.001	0.004	E200.8	03/16/22 00:49 / dck
1015	Cadmium	ND	mg/L		0.001	0.005	E200.8	03/16/22 00:49 / dck
1020	Chromium	ND	mg/L		0.005	0.1	E200.8	03/16/22 00:49 / dck
1036	Nickel	ND	mg/L		0.005		E200.8	03/16/22 00:49 / dck
1045	Selenium	ND	mg/L		0.001	0.05	E200.8	03/16/22 00:49 / dck
1085	Thallium	ND	mg/L		0.0005	0.002	E200.8	03/16/22 00:49 / dck
DRINKING WATER METALS ANALYSES								
1035	Mercury	ND	mg/L		0.0001	0.002	E245.1	03/28/22 14:54 / cfg
SEMI-VOLATILE ORGANIC COMPOUNDS								
2051	Alachlor	ND	ug/L		0.10	2	E525.2	03/18/22 07:21 / eli-b
2356	Aldrin	ND	ug/L		0.10		E525.2	03/18/22 07:21 / eli-b
2388	Aroclor 1016	ND	ug/L		0.080		E525.2	03/18/22 07:21 / eli-b
2390	Aroclor 1221	ND	ug/L		2.0		E525.2	03/18/22 07:21 / eli-b
2392	Aroclor 1232	ND	ug/L		0.50		E525.2	03/18/22 07:21 / eli-b
2394	Aroclor 1242	ND	ug/L		0.30		E525.2	03/18/22 07:21 / eli-b
2396	Aroclor 1248	ND	ug/L		0.10		E525.2	03/18/22 07:21 / eli-b
2398	Aroclor 1254	ND	ug/L		0.10		E525.2	03/18/22 07:21 / eli-b
2400	Aroclor 1260	ND	ug/L		0.20		E525.2	03/18/22 07:21 / eli-b
2050	Atrazine	ND	ug/L		0.10	3	E525.2	03/18/22 07:21 / eli-b
2306	Benzo(a)pyrene	ND	ug/L		0.10	0.2	E525.2	03/18/22 07:21 / eli-b
2035	bis(2-ethylhexyl)Adipate	ND	ug/L		0.50	400	E525.2	03/18/22 07:21 / eli-b
2039	bis(2-ethylhexyl)Phthalate	ND	ug/L		0.60	6	E525.2	03/18/22 07:21 / eli-b
2076	Butachlor	ND	ug/L		0.10		E525.2	03/18/22 07:21 / eli-b
2959	Chlordane	ND	ug/L		1.0	2	E525.2	03/18/22 07:21 / eli-b
2070	Dieldrin	ND	ug/L		0.10		E525.2	03/18/22 07:21 / eli-b

Report Definitions:
RL - Analyte Reporting Limit
QCL - Quality Control Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: King Ranch Subdivision
Client Sample ID: CH001 EP502
PWS #: MT0004158 **Name:** KING RANCH SUBDIVISION
Facility ID: CH001
SamplingPoint/Location: EP502 / CH001 EP502
Project ID: King Ranch Subdivision MT0004158
Collector's Name: Charles Weihe **Contact Phone #:** (406) 626-5255
Compliance Sample: YES **Sample Type:** RT

Lab ID: H22030281-001
Report Date: 03/28/22
Collection Date: 03/10/22 11:00
Date Received: 03/11/22
Matrix: Drinking Water
Federal ID#:

FRDS	Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
SEMI-VOLATILE ORGANIC COMPOUNDS								
2005	Endrin	ND	ug/L		0.10	2	E525.2	03/18/22 07:21 / eli-b
2010	gamma-BHC (Lindane)	ND	ug/L		0.10	0.2	E525.2	03/18/22 07:21 / eli-b
2065	Heptachlor	ND	ug/L		0.10	0.4	E525.2	03/18/22 07:21 / eli-b
2067	Heptachlor epoxide	ND	ug/L		0.10	0.2	E525.2	03/18/22 07:21 / eli-b
2274	Hexachlorobenzene	ND	ug/L		0.10	1	E525.2	03/18/22 07:21 / eli-b
2042	Hexachlorocyclopentadiene	ND	ug/L		0.10	50	E525.2	03/18/22 07:21 / eli-b
2015	Methoxychlor	ND	ug/L		0.10	40	E525.2	03/18/22 07:21 / eli-b
2045	Metolachlor	ND	ug/L		0.10		E525.2	03/18/22 07:21 / eli-b
2595	Metribuzin	ND	ug/L		0.10		E525.2	03/18/22 07:21 / eli-b
2077	Propachlor	ND	ug/L		0.10		E525.2	03/18/22 07:21 / eli-b
2037	Simazine	ND	ug/L		0.10	4	E525.2	03/18/22 07:21 / eli-b
2020	Toxaphene	ND	ug/L		2.0	3	E525.2	03/18/22 07:21 / eli-b
2383	PCBs, Total	ND	ug/L		0.50	0.5	E525.2	03/18/22 07:21 / eli-b
	Surr: 1,3-Dimethyl-2-nitrobenzene	96.0	%REC			70-130	E525.2	03/18/22 07:21 / eli-b
	Surr: Perylene-d12	112	%REC			70-130	E525.2	03/18/22 07:21 / eli-b
	Surr: Pyrene-d10	97.0	%REC			70-130	E525.2	03/18/22 07:21 / eli-b
	Surr: Triphenylphosphate	119	%REC			70-130	E525.2	03/18/22 07:21 / 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.

SEMI-VOLATILE ORGANIC COMPOUNDS								
2033	Endothall	ND	ug/L		8.0	100	E548.1	03/17/22 02:42 / eli-b
	Surr: 2,4-Dichlorophenylacetic acid	121	%REC			70-130	E548.1	03/17/22 02:42 / eli-b
PESTICIDES, BY HPLC								
2047	Aldicarb	ND	ug/L		1.0	3	E531.1	03/16/22 19:38 / eli-ca
2044	Aldicarb sulfone	ND	ug/L		1.0	2	E531.1	03/16/22 19:38 / eli-ca
2043	Aldicarb sulfoxide	ND	ug/L		1.0	4	E531.1	03/16/22 19:38 / eli-ca
2021	Carbaryl	ND	ug/L		1.0		E531.1	03/16/22 19:38 / eli-ca
2066	3-Hydroxycarbofuran	ND	ug/L		1.0		E531.1	03/16/22 19:38 / eli-ca
2046	Carbofuran	ND	ug/L		1.0	40	E531.1	03/16/22 19:38 / eli-ca
2024	Methiocarb	ND	ug/L		1.0		E531.1	03/16/22 19:38 / eli-ca
2022	Methomyl	ND	ug/L		1.0		E531.1	03/16/22 19:38 / eli-ca
2036	Oxamyl	ND	ug/L		1.0	200	E531.1	03/16/22 19:38 / eli-ca
	Baygon	ND	ug/L		1.0		E531.1	03/16/22 19:38 / eli-ca
	Surr: BDMC	88.0	%REC			70-130	E531.1	03/16/22 19:38 / eli-ca

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LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: King Ranch Subdivision
Lab ID: H22030281-001
Client Sample ID: CH001 EP502
Report Date: 03/28/22
PWS #: MT0004158 **Name:** KING RANCH SUBDIVISION
Collection Date: 03/10/22 11:00
Facility ID: CH001
Date Received: 03/11/22
SamplingPoint/Location: EP502 / CH001 EP502
Matrix: Drinking Water
Project ID: King Ranch Subdivision MT0004158
Federal ID#:
Collector's Name: Charles Weihe **Contact Phone #:** (406) 626-5255
Compliance Sample: YES **Sample Type:** RT

FRDS	Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
VOCS BY MICROEXTRACTION-ECD								
2414	1,2,3-Trichloropropane	ND	ug/L		0.050		E504.1	03/16/22 19:54 / eli-b
2931	1,2-Dibromo-3-chloropropane	ND	ug/L		0.020	0.2	E504.1	03/16/22 19:54 / eli-b
2946	1,2-Dibromoethane	ND	ug/L		0.010	0.05	E504.1	03/16/22 19:54 / eli-b
	Surr: 1,1,1,2-Tetrachloroethane	92.0	%REC			70-130	E504.1	03/16/22 19:54 / eli-b
HERBICIDES, BY HPLC								
2034	Glyphosate	ND	ug/L		5.0	700	E547	03/17/22 14:57 / eli-ca
PESTICIDES								
2032	Diquat	ND	ug/L		0.40	20	E549.2	03/22/22 14:55 / eli-ca
HERBICIDES								
2110	2,4,5-TP (Silvex)	ND	ug/L		0.25	50	E515.4	03/22/22 00:51 / eli-b1
2105	2,4-D	ND	ug/L		1.0	70	E515.4	03/22/22 00:51 / eli-b1
2106	2,4-DB	ND	ug/L		1.0		E515.4	03/22/22 00:51 / eli-b1
2031	Dalapon	ND	ug/L		2.5	200	E515.4	03/22/22 00:51 / eli-b1
2440	Dicamba	ND	ug/L		1.0		E515.4	03/22/22 00:51 / eli-b1
2206	Dichlorprop	ND	ug/L		1.0		E515.4	03/22/22 00:51 / eli-b1
2041	Dinoseb	ND	ug/L		1.0	7	E515.4	03/22/22 00:51 / eli-b1
2326	Pentachlorophenol	ND	ug/L		0.10	1	E515.4	03/22/22 00:51 / eli-b1
2040	Picloram	ND	ug/L		0.50	500	E515.4	03/22/22 00:51 / eli-b1
	Surr: 2,4-Dichlorophenylacetic acid	98.0	%REC			70-130	E515.4	03/22/22 00:51 / eli-b1

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QA/QC Summary Report

Prepared by Helena, MT Branch

Client: King Ranch Subdivision **Work Order:** H22030281 **Report Date:** 03/28/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: **E200.8**									Analytical Run: ICPMS205-H_220315C	
Lab ID: **ICV**	9	Initial Calibration Verification Standard								03/15/22 22:47
Antimony		0.0560	mg/L	0.0030	93	90	110			
Arsenic		0.0610	mg/L	0.0050	102	90	110			
Barium		0.0596	mg/L	0.10	99	90	110			
Beryllium		0.0301	mg/L	0.0010	100	90	110			
Cadmium		0.0322	mg/L	0.0010	107	90	110			
Chromium		0.0590	mg/L	0.010	98	90	110			
Nickel		0.0598	mg/L	0.010	100	90	110			
Selenium		0.0596	mg/L	0.0050	99	90	110			
Thallium		0.0598	mg/L	0.0010	100	90	110			
Lab ID: **ICSA**	9	Interference Check Sample A								03/15/22 22:53
Antimony		0.0000703	mg/L	0.0030						
Arsenic		0.000149	mg/L	0.0050						
Barium		-0.0000871	mg/L	0.10						
Beryllium		7.28E-07	mg/L	0.0010						
Cadmium		0.000880	mg/L	0.0010						
Chromium		0.00109	mg/L	0.010						
Nickel		0.00235	mg/L	0.010						
Selenium		-0.000605	mg/L	0.0050						
Thallium		0.0000190	mg/L	0.0010						
Lab ID: **ICSAB**	9	Interference Check Sample AB								03/15/22 22:59
Antimony		0.0000415	mg/L	0.0030		0	0			
Arsenic		0.00983	mg/L	0.0050	98	70	130			
Barium		-0.0000863	mg/L	0.10		0	0			
Beryllium		-2.14E-06	mg/L	0.0010		0	0			
Cadmium		0.0101	mg/L	0.0010	101	70	130			
Chromium		0.0199	mg/L	0.010	99	70	130			
Nickel		0.0205	mg/L	0.010	102	70	130			
Selenium		0.00862	mg/L	0.0050	86	70	130			
Thallium		5.73E-06	mg/L	0.0010		0	0			
Lab ID: **ICSA**	9	Interference Check Sample A								03/16/22 11:37
Antimony		0.0000601	mg/L	0.0030						
Arsenic		0.000225	mg/L	0.0050						
Barium		-0.0000456	mg/L	0.10						
Beryllium		6.16E-06	mg/L	0.0010						
Cadmium		0.000899	mg/L	0.0010						
Chromium		0.00120	mg/L	0.010						
Nickel		0.00241	mg/L	0.010						
Selenium		-0.000505	mg/L	0.0050						
Thallium		0.000130	mg/L	0.0010						
Lab ID: **ICSAB**	9	Interference Check Sample AB								03/16/22 11:43
Antimony		0.0000478	mg/L	0.0030		0	0			
Arsenic		0.00982	mg/L	0.0050	98	70	130			

Qualifiers:

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QA/QC Summary Report

Prepared by Helena, MT Branch

Client: King Ranch Subdivision **Work Order:** H22030281 **Report Date:** 03/28/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: **E200.8**									Analytical Run: ICPMS205-H_220315C	
Lab ID: **ICSAB**	9	Interference Check Sample AB							03/16/22 11:43	
Barium		-0.0000498	mg/L	0.10		0	0			
Beryllium		2.51E-06	mg/L	0.0010		0	0			
Cadmium		0.0103	mg/L	0.0010	103	70	130			
Chromium		0.0202	mg/L	0.010	101	70	130			
Nickel		0.0207	mg/L	0.010	103	70	130			
Selenium		0.00892	mg/L	0.0050	89	70	130			
Thallium		0.0000677	mg/L	0.0010		0	0			
Method: **E200.8**									Batch: 60464	
Lab ID: **MB-60464**	9	Method Blank				Run: ICPMS205-H_220315C			03/16/22 00:46	
Antimony		ND	mg/L	0.0002						
Arsenic		ND	mg/L	0.0004						
Barium		ND	mg/L	0.0002						
Beryllium		ND	mg/L	0.0002						
Cadmium		ND	mg/L	0.00009						
Chromium		0.001	mg/L	0.0008						
Nickel		ND	mg/L	0.001						
Selenium		ND	mg/L	0.0005						
Thallium		ND	mg/L	0.0001						
Lab ID: **LCS-60464**	9	Laboratory Control Sample				Run: ICPMS205-H_220315C			03/16/22 01:13	
Antimony		0.489	mg/L	0.0030	98	85	115			
Arsenic		0.462	mg/L	0.0050	92	85	115			
Barium		0.479	mg/L	0.10	96	85	115			
Beryllium		0.227	mg/L	0.0010	91	85	115			
Cadmium		0.244	mg/L	0.0010	98	85	115			
Chromium		0.483	mg/L	0.010	97	85	115			
Nickel		0.467	mg/L	0.010	93	85	115			
Selenium		0.453	mg/L	0.0050	91	85	115			
Thallium		0.480	mg/L	0.0010	96	85	115			
Lab ID: **H22030282-001BMS3**	9	Sample Matrix Spike				Run: ICPMS205-H_220315C			03/16/22 01:16	
Antimony		0.504	mg/L	0.0030	101	70	130			
Arsenic		0.479	mg/L	0.0050	95	70	130			
Barium		0.998	mg/L	0.10	98	70	130			
Beryllium		0.228	mg/L	0.0010	91	70	130			
Cadmium		0.247	mg/L	0.0010	99	70	130			
Chromium		0.494	mg/L	0.010	99	70	130			
Nickel		0.463	mg/L	0.010	92	70	130			
Selenium		0.466	mg/L	0.0050	93	70	130			
Thallium		0.492	mg/L	0.0010	98	70	130			
Lab ID: **H22030282-001BMSD**	9	Sample Matrix Spike Duplicate				Run: ICPMS205-H_220315C			03/16/22 01:19	
Antimony		0.479	mg/L	0.0030	96	70	130	5.1	20	
Arsenic		0.478	mg/L	0.0050	95	70	130	0.2	20	
Barium		1.00	mg/L	0.10	99	70	130	0.4	20	

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QA/QC Summary Report

Prepared by Helena, MT Branch

Client: King Ranch Subdivision **Work Order:** H22030281 **Report Date:** 03/28/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: **E200.8**										Batch: 60464
Lab ID: **H22030282-001BMSD**	9	Sample Matrix Spike Duplicate				Run: ICPMS205-H_220315C				03/16/22 01:19
Beryllium		0.226	mg/L	0.0010	90	70	130	0.7	20	
Cadmium		0.245	mg/L	0.0010	98	70	130	0.9	20	
Chromium		0.491	mg/L	0.010	98	70	130	0.6	20	
Nickel		0.461	mg/L	0.010	92	70	130	0.4	20	
Selenium		0.472	mg/L	0.0050	94	70	130	1.2	20	
Thallium		0.488	mg/L	0.0010	98	70	130	0.7	20	

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Client: King Ranch Subdivision **Work Order:** H22030281 **Report Date:** 03/28/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1									Analytical Run: HGCV203-H_220328B	
Lab ID: ICV		Initial Calibration Verification Standard							03/28/22 14:41	
Mercury		0.000938	mg/L	0.00010	94	90	110			
Lab ID: CCV1		Continuing Calibration Verification Standard							03/28/22 14:43	
Mercury		0.00242	mg/L	0.00010	97	95	105			
Method: E245.1									Batch: 60658	
Lab ID: MB-60658		Method Blank				Run: HGCV203-H_220328B			03/28/22 14:50	
Mercury		ND	mg/L	0.00003						
Lab ID: LCS-60658		Laboratory Control Sample				Run: HGCV203-H_220328B			03/28/22 14:52	
Mercury		0.000477	mg/L	0.00010	95	85	115			
Lab ID: H22030601-001CMS		Sample Matrix Spike				Run: HGCV203-H_220328B			03/28/22 14:58	
Mercury		0.000482	mg/L	0.00010	96	70	130			
Lab ID: H22030601-001CMSD		Sample Matrix Spike Duplicate				Run: HGCV203-H_220328B			03/28/22 15:00	
Mercury		0.000480	mg/L	0.00010	96	70	130	0.4	20	

Qualifiers:

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QA/QC Summary Report

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Client: King Ranch Subdivision **Work Order:** H22030281 **Report Date:** 03/28/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2									Analytical Run: FIA203-HE_220316C	
Lab ID: ICV		Initial Calibration Verification Standard							03/16/22 13:10	
Nitrogen, Nitrate+Nitrite as N		0.996	mg/L	0.010	100	90	110			
Lab ID: CCV		Continuing Calibration Verification Standard							03/16/22 13:33	
Nitrogen, Nitrate+Nitrite as N		0.482	mg/L	0.010	96	90	110			
Lab ID: ICV		Initial Calibration Verification Standard							03/16/22 15:09	
Nitrogen, Nitrate+Nitrite as N		0.995	mg/L	0.010	100	90	110			
Method: E353.2									Batch: R172981	
Lab ID: MBLK		Method Blank				Run: FIA203-HE_220316C			03/16/22 13:11	
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.008						
Lab ID: LFB		Laboratory Fortified Blank				Run: FIA203-HE_220316C			03/16/22 13:12	
Nitrogen, Nitrate+Nitrite as N		1.03	mg/L	0.011	103	90	110			
Lab ID: H22030074-002EMS		Sample Matrix Spike				Run: FIA203-HE_220316C			03/16/22 13:36	
Nitrogen, Nitrate+Nitrite as N		3.39	mg/L	0.022	95	90	110			
Lab ID: H22030074-002EMSD		Sample Matrix Spike Duplicate				Run: FIA203-HE_220316C			03/16/22 13:37	
Nitrogen, Nitrate+Nitrite as N		3.39	mg/L	0.022	95	90	110	0.0	10	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: King Ranch Subdivision **Work Order:** H22030281 **Report Date:** 03/28/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E504.1										Analytical Run: B_164507
Lab ID: CK2-164507	4	Continuing Calibration Verification Standard								03/16/22 13:19
1,2,3-Trichloropropane		0.0454	ug/L	0.050	91	70	130			
1,2-Dibromo-3-chloropropane		0.0527	ug/L	0.020	105	70	130			
1,2-Dibromoethane		0.0505	ug/L	0.010	101	70	130			
Surr: 1,1,1,2-Tetrachloroethane				0.020	96	70	130			
Lab ID: CK4-164507	4	Continuing Calibration Verification Standard								03/16/22 21:13
1,2,3-Trichloropropane		0.213	ug/L	0.050	107	70	130			
1,2-Dibromo-3-chloropropane		0.215	ug/L	0.020	108	70	130			
1,2-Dibromoethane		0.199	ug/L	0.010	99	70	130			
Surr: 1,1,1,2-Tetrachloroethane				0.020	103	70	130			
Method: E504.1										Batch: B_164507
Lab ID: MB-164507	4	Method Blank				Run: SUB-B376319				03/16/22 13:38
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	95	70	130			
Lab ID: LCS-164507	4	Laboratory Control Sample				Run: SUB-B376319				03/16/22 13:58
1,2,3-Trichloropropane		0.243	ug/L	0.050	97	70	130			
1,2-Dibromo-3-chloropropane		0.238	ug/L	0.020	95	70	130			
1,2-Dibromoethane		0.237	ug/L	0.010	95	70	130			
Surr: 1,1,1,2-Tetrachloroethane				0.020	96	70	130			
Lab ID: LCSDUP-164507	4	Laboratory Control Sample Duplicate				Run: SUB-B376319				03/16/22 15:37
1,2,3-Trichloropropane		0.246	ug/L	0.050	98	70	130	1.3	20	
1,2-Dibromo-3-chloropropane		0.241	ug/L	0.020	96	70	130	1	20	
1,2-Dibromoethane		0.240	ug/L	0.010	96	70	130	0.9	20	
Surr: 1,1,1,2-Tetrachloroethane				0.020	93	70	130			
Lab ID: B22030754-001FMS	4	Sample Matrix Spike				Run: SUB-B376319				03/16/22 20:33
1,2,3-Trichloropropane		0.251	ug/L	0.050	101	65	135			
1,2-Dibromo-3-chloropropane		0.218	ug/L	0.020	88	65	135			
1,2-Dibromoethane		0.233	ug/L	0.010	94	65	135			
Surr: 1,1,1,2-Tetrachloroethane				0.020	92	65	135			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: King Ranch Subdivision **Work Order:** H22030281 **Report Date:** 03/28/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E515.4										Analytical Run: B_164675
Lab ID: CAL1-164675	10	Continuing Calibration Verification Standard								03/21/22 21:54
2,4,5-TP (Silvex)		0.233	ug/L	0.25	93	50	150			
2,4-D		1.00	ug/L	1.0	100	50	150			
2,4-DB		0.917	ug/L	1.0	92	50	150			
Dalapon		0.925	ug/L	2.5	92	50	150			
Dicamba		0.440	ug/L	1.0	88	50	150			
Dichlorprop		1.02	ug/L	1.0	102	50	150			
Dinoseb		1.05	ug/L	1.0	105	50	150			
Pentachlorophenol		0.114	ug/L	0.10	114	50	150			
Picloram		0.468	ug/L	0.50	94	50	150			
Surr: 2,4-Dichlorophenylacetic acid					100	70	130			
Lab ID: CAL3-164675	10	Continuing Calibration Verification Standard								03/22/22 07:57
2,4,5-TP (Silvex)		0.805	ug/L	0.25	107	70	130			
2,4-D		3.45	ug/L	1.0	115	70	130			
2,4-DB		3.35	ug/L	1.0	112	70	130			
Dalapon		3.40	ug/L	2.5	113	70	130			
Dicamba		1.76	ug/L	1.0	118	70	130			
Dichlorprop		3.49	ug/L	1.0	116	70	130			
Dinoseb		3.21	ug/L	1.0	107	70	130			
Pentachlorophenol		0.318	ug/L	0.10	106	70	130			
Picloram		1.56	ug/L	0.50	104	70	130			
Surr: 2,4-Dichlorophenylacetic acid					106	70	130			
Method: E515.4										Batch: B_164675
Lab ID: LCS-164675	10	Laboratory Control Sample				Run: SUB-B376627				03/21/22 22:29
2,4,5-TP (Silvex)		1.23	ug/L	0.25	98	70	130			
2,4-D		4.84	ug/L	1.0	97	70	130			
2,4-DB		4.67	ug/L	1.0	93	70	130			
Dalapon		4.99	ug/L	2.5	100	70	130			
Dicamba		2.41	ug/L	1.0	97	70	130			
Dichlorprop		5.06	ug/L	1.0	101	70	130			
Dinoseb		4.40	ug/L	1.0	88	70	130			
Pentachlorophenol		0.516	ug/L	0.10	103	70	130			
Picloram		2.64	ug/L	0.50	106	70	130			
Surr: 2,4-Dichlorophenylacetic acid					102	70	130			
Lab ID: MB-164675	10	Method Blank				Run: SUB-B376627				03/21/22 23:05
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 (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: King Ranch Subdivision **Work Order:** H22030281 **Report Date:** 03/28/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E515.4										Batch: B_164675
Lab ID: MB-164675	10	Method Blank				Run: SUB-B376627				03/21/22 23:05
Surr: 2,4-Dichlorophenylacetic acid					106	70	130			
Lab ID: B22030940-001FMS	10	Sample Matrix Spike				Run: SUB-B376627				03/22/22 01:27
2,4,5-TP (Silvex)		1.23	ug/L	0.25	99	70	130			
2,4-D		4.85	ug/L	1.0	97	70	130			
2,4-DB		4.68	ug/L	1.0	94	70	130			
Dalapon		5.05	ug/L	2.5	101	70	130			
Dicamba		2.50	ug/L	1.0	100	70	130			
Dichlorprop		5.28	ug/L	1.0	106	70	130			
Dinoseb		4.70	ug/L	1.0	94	70	130			
Pentachlorophenol		0.511	ug/L	0.10	102	70	130			
Picloram		2.55	ug/L	0.50	102	70	130			
Surr: 2,4-Dichlorophenylacetic acid					103	70	130			
Lab ID: B22030940-001FMSD	10	Sample Matrix Spike Duplicate				Run: SUB-B376627				03/22/22 02:02
2,4,5-TP (Silvex)		1.26	ug/L	0.25	101	70	130	2.2	30	
2,4-D		5.09	ug/L	1.0	102	70	130	4.7	30	
2,4-DB		5.32	ug/L	1.0	106	70	130	13	30	
Dalapon		5.15	ug/L	2.5	103	70	130	2.0	30	
Dicamba		2.45	ug/L	1.0	98	70	130	1.9	30	
Dichlorprop		5.24	ug/L	1.0	105	70	130	0.8	30	
Dinoseb		4.87	ug/L	1.0	97	70	130	3.5	30	
Pentachlorophenol		0.533	ug/L	0.10	107	70	130	4.1	30	
Picloram		2.59	ug/L	0.50	104	70	130	1.5	30	
Surr: 2,4-Dichlorophenylacetic acid					100	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: King Ranch Subdivision **Work Order:** H22030281 **Report Date:** 03/28/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E525.2										Batch: B_164546
Lab ID: MB-164546	32	Method Blank				Run: SUB-B376364				03/17/22 11:36
Alachlor		ND	ug/L	0.10						
Aldrin		ND	ug/L	0.10						
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						
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	93	70	130			
Surr: Perylene-d12				0.10	111	70	130			
Surr: Pyrene-d10				0.10	98	70	130			
Surr: Triphenylphosphate				0.10	124	70	130			
Lab ID: Ar1660-164546	6	Laboratory Control Sample				Run: SUB-B376364				03/17/22 12:14
Aroclor 1016		2.09	ug/L	0.080	104	70	130			
Aroclor 1260		1.93	ug/L	0.20	97	70	130			
Surr: 1,3-Dimethyl-2-nitrobenzene				0.10	101	70	130			
Surr: Perylene-d12				0.10	115	70	130			
Surr: Pyrene-d10				0.10	94	70	130			
Surr: Triphenylphosphate				0.10	125	70	130			
Lab ID: LCS-164546	23	Laboratory Control Sample				Run: SUB-B376364				03/17/22 12:52
Alachlor		2.44	ug/L	0.10	122	70	130			
Aldrin		2.42	ug/L	0.10	121	70	130			
Atrazine		1.98	ug/L	0.10	99	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: King Ranch Subdivision **Work Order:** H22030281 **Report Date:** 03/28/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E525.2										Batch: B_164546
Lab ID: LCS-164546	23	Laboratory Control Sample				Run: SUB-B376364				03/17/22 12:52
Benzo(a)pyrene		2.39	ug/L	0.10	119	70	130			
bis(2-ethylhexyl)Adipate		2.36	ug/L	0.50	118	70	130			
bis(2-ethylhexyl)Phthalate		2.48	ug/L	0.60	124	70	130			
Butachlor		2.50	ug/L	0.10	125	70	130			
Dieldrin		2.55	ug/L	0.10	128	70	130			
Endrin		2.30	ug/L	0.10	115	70	130			
gamma-BHC (Lindane)		2.48	ug/L	0.10	124	70	130			
Heptachlor		2.24	ug/L	0.10	112	70	130			
Heptachlor epoxide		2.36	ug/L	0.10	118	70	130			
Hexachlorobenzene		2.34	ug/L	0.10	117	70	130			
Hexachlorocyclopentadiene		1.96	ug/L	0.10	98	70	130			
Methoxychlor		2.41	ug/L	0.10	121	70	130			
Metolachlor		2.39	ug/L	0.10	120	70	130			
Metribuzin		1.85	ug/L	0.10	93	70	130			
Propachlor		2.34	ug/L	0.10	117	70	130			
Simazine		1.92	ug/L	0.10	96	70	130			
Surr: 1,3-Dimethyl-2-nitrobenzene				0.10	87	70	130			
Surr: Perylene-d12				0.10	109	70	130			
Surr: Pyrene-d10				0.10	99	70	130			
Surr: Triphenylphosphate				0.10	122	70	130			
Lab ID: TOX-164546	5	Laboratory Control Sample				Run: SUB-B376364				03/17/22 14:47
Toxaphene		41.9	ug/L	2.0	105	70	130			
Surr: 1,3-Dimethyl-2-nitrobenzene				0.10	96	70	130			
Surr: Perylene-d12				0.10	119	70	130			
Surr: Pyrene-d10				0.10	93	70	130			
Surr: Triphenylphosphate				0.10	125	70	130			
Lab ID: B22030754-001CMS	23	Sample Matrix Spike				Run: SUB-B376364				03/17/22 13:30
Alachlor		4.76	ug/L	0.20	119	70	130			
Aldrin		3.84	ug/L	0.20	96	70	130			
Atrazine		3.87	ug/L	0.20	97	70	130			
Benzo(a)pyrene		4.82	ug/L	0.20	120	70	130			
bis(2-ethylhexyl)Adipate		4.46	ug/L	1.0	112	70	130			
bis(2-ethylhexyl)Phthalate		4.95	ug/L	1.2	124	70	130			
Butachlor		4.79	ug/L	0.20	120	70	130			
Dieldrin		5.24	ug/L	0.20	131	70	130			S
Endrin		4.43	ug/L	0.20	111	70	130			
gamma-BHC (Lindane)		4.76	ug/L	0.20	119	70	130			
Heptachlor		4.30	ug/L	0.20	108	70	130			
Heptachlor epoxide		4.22	ug/L	0.20	106	70	130			
Hexachlorobenzene		4.09	ug/L	0.20	102	70	130			
Hexachlorocyclopentadiene		4.00	ug/L	0.20	100	70	130			
Methoxychlor		4.61	ug/L	0.20	115	70	130			
Metolachlor		4.46	ug/L	0.20	111	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

S - Spike recovery outside of advisory limits

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: King Ranch Subdivision **Work Order:** H22030281 **Report Date:** 03/28/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: **E525.2**										Batch: B_164546
Lab ID: **B22030754-001CMS**	23	Sample Matrix Spike				Run: SUB-B376364				03/17/22 13:30
Metribuzin		3.76	ug/L	0.20	94	70	130			
Propachlor		4.84	ug/L	0.20	121	70	130			
Simazine		3.99	ug/L	0.20	100	70	130			
Surr: 1,3-Dimethyl-2-nitrobenzene				0.20	93	70	130			
Surr: Perylene-d12				0.20	109	70	130			
Surr: Pyrene-d10				0.20	98	70	130			
Surr: Triphenylphosphate				0.20	115	70	130			
Lab ID: **B22030754-001CMSD**	23	Sample Matrix Spike Duplicate				Run: SUB-B376364				03/17/22 14:08
Alachlor		5.18	ug/L	0.20	130	70	130	8.6	40	
Aldrin		5.00	ug/L	0.20	125	70	130	26	40	
Atrazine		3.80	ug/L	0.20	95	70	130	1.8	40	
Benzo(a)pyrene		4.97	ug/L	0.20	124	70	130	3.0	40	
bis(2-ethylhexyl)Adipate		4.82	ug/L	1.0	120	70	130	7.6	40	
bis(2-ethylhexyl)Phthalate		5.18	ug/L	1.2	130	70	130	4.6	40	
Butachlor		4.88	ug/L	0.20	122	70	130	1.8	40	
Dieldrin		4.93	ug/L	0.20	123	70	130	6.0	40	
Endrin		4.70	ug/L	0.20	117	70	130	5.9	40	
gamma-BHC (Lindane)		4.81	ug/L	0.20	120	70	130	1.0	40	
Heptachlor		4.45	ug/L	0.20	111	70	130	3.4	40	
Heptachlor epoxide		4.40	ug/L	0.20	110	70	130	4.2	40	
Hexachlorobenzene		4.21	ug/L	0.20	105	70	130	2.8	40	
Hexachlorocyclopentadiene		4.05	ug/L	0.20	101	70	130	1.4	40	
Methoxychlor		5.04	ug/L	0.20	126	70	130	9.0	40	
Metolachlor		4.56	ug/L	0.20	114	70	130	2.2	40	
Metribuzin		4.05	ug/L	0.20	101	70	130	7.4	40	
Propachlor		4.95	ug/L	0.20	124	70	130	2.1	40	
Simazine		4.15	ug/L	0.20	104	70	130	3.9	40	
Surr: 1,3-Dimethyl-2-nitrobenzene				0.20	89	70	130			
Surr: Perylene-d12				0.20	105	70	130			
Surr: Pyrene-d10				0.20	99	70	130			
Surr: Triphenylphosphate				0.20	126	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: King Ranch Subdivision **Work Order:** H22030281 **Report Date:** 03/28/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E525.2									Analytical Run: B_R376364	
Lab ID: 525_CCV_5	23	Continuing Calibration Verification Standard							03/17/22 20:31	
Alachlor		2.16	ug/L	0.10	108	70	130			
Aldrin		2.47	ug/L	0.10	124	70	130			
Atrazine		1.87	ug/L	0.10	93	70	130			
Benzo(a)pyrene		2.10	ug/L	0.10	105	70	130			
bis(2-ethylhexyl)Adipate		2.21	ug/L	0.50	111	70	130			
bis(2-ethylhexyl)Phthalate		2.16	ug/L	0.60	108	70	130			
Butachlor		2.09	ug/L	0.10	104	70	130			
Dieldrin		2.79	ug/L	0.10	139	70	130			S
Endrin		1.86	ug/L	0.10	93	70	130			
gamma-BHC (Lindane)		2.19	ug/L	0.10	110	70	130			
Heptachlor		2.03	ug/L	0.10	101	70	130			
Heptachlor epoxide		1.94	ug/L	0.10	97	70	130			
Hexachlorobenzene		2.24	ug/L	0.10	112	70	130			
Hexachlorocyclopentadiene		1.76	ug/L	0.10	88	70	130			
Methoxychlor		2.22	ug/L	0.10	111	70	130			
Metolachlor		2.09	ug/L	0.10	104	70	130			
Metribuzin		2.08	ug/L	0.10	104	70	130			
Propachlor		1.87	ug/L	0.10	94	70	130			
Simazine		2.08	ug/L	0.10	104	70	130			
Surr: 1,3-Dimethyl-2-nitrobenzene				0.10	89	70	130			
Surr: Perylene-d12				0.10	101	70	130			
Surr: Pyrene-d10				0.10	94	70	130			
Surr: Triphenylphosphate				0.10	111	70	130			
Lab ID: Ar1660_CCV_5	6	Continuing Calibration Verification Standard							03/17/22 21:09	
Aroclor 1016		1.86	ug/L	0.080	116	70	130			
Aroclor 1260		4.18	ug/L	0.20	104	70	130			
Surr: 1,3-Dimethyl-2-nitrobenzene				0.10	91	70	130			
Surr: Perylene-d12				0.10	119	70	130			
Surr: Pyrene-d10				0.10	100	70	130			
Surr: Triphenylphosphate				0.10	118	70	130			
Lab ID: CLD_CCV_5	5	Continuing Calibration Verification Standard							03/17/22 21:47	
Chlordane		21.4	ug/L	1.0	107	70	130			
Surr: 1,3-Dimethyl-2-nitrobenzene				0.10	93	70	130			
Surr: Perylene-d12				0.10	114	70	130			
Surr: Pyrene-d10				0.10	98	70	130			
Surr: Triphenylphosphate				0.10	121	70	130			
Lab ID: TOX_CCV_5	5	Continuing Calibration Verification Standard							03/17/22 22:25	
Toxaphene		39.6	ug/L	2.0	99	70	130			
Surr: 1,3-Dimethyl-2-nitrobenzene				0.10	92	70	130			
Surr: Perylene-d12				0.10	114	70	130			
Surr: Pyrene-d10				0.10	101	70	130			
Surr: Triphenylphosphate				0.10	119	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

S - Spike recovery outside of advisory limits

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: King Ranch Subdivision **Work Order:** H22030281 **Report Date:** 03/28/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E531.1										Analytical Run: C_R280636
Lab ID: LCS	11	Initial Calibration Verification Standard								03/16/22 15:05
Aldicarb		7.1	ug/L	1.0	89	80	120			
Aldicarb sulfone		8.0	ug/L	1.0	100	80	120			
Aldicarb sulfoxide		8.7	ug/L	1.0	109	80	120			
Carbaryl		6.9	ug/L	1.0	87	80	120			
3-Hydroxycarbofuran		7.8	ug/L	1.0	98	80	120			
Carbofuran		8.0	ug/L	1.0	99	80	120			
Methiocarb		7.4	ug/L	1.0	93	80	120			
Methomyl		7.9	ug/L	1.0	99	80	120			
Oxamyl		8.5	ug/L	1.0	107	80	120			
Baygon		7.7	ug/L	1.0	97	80	120			
Surr: BDMC				1.0	84	70	130			
Lab ID: CCV	11	Continuing Calibration Verification Standard								03/16/22 15:45
Aldicarb		9.8	ug/L	1.0	98	80	120			
Aldicarb sulfone		9.6	ug/L	1.0	96	80	120			
Aldicarb sulfoxide		9.6	ug/L	1.0	96	80	120			
Carbaryl		9.5	ug/L	1.0	95	80	120			
3-Hydroxycarbofuran		9.6	ug/L	1.0	96	80	120			
Carbofuran		9.7	ug/L	1.0	97	80	120			
Methiocarb		9.6	ug/L	1.0	96	80	120			
Methomyl		9.6	ug/L	1.0	96	80	120			
Oxamyl		9.6	ug/L	1.0	96	80	120			
Baygon		9.6	ug/L	1.0	96	80	120			
Surr: BDMC				1.0	95	70	130			
Method: E531.1										Batch: C_R280636
Lab ID: MBLK	11	Method Blank				Run: SUB-C280636				03/16/22 14:26
Aldicarb		ND	ug/L	1.0						
Aldicarb sulfone		ND	ug/L	1.0						
Aldicarb sulfoxide		ND	ug/L	1.0						
Carbaryl		ND	ug/L	1.0						
3-Hydroxycarbofuran		ND	ug/L	1.0						
Carbofuran		ND	ug/L	1.0						
Methiocarb		ND	ug/L	1.0						
Methomyl		ND	ug/L	1.0						
Oxamyl		ND	ug/L	1.0						
Baygon		ND	ug/L	1.0						
Surr: BDMC				1.0	95	70	130			
Lab ID: C22030527-001FMS	11	Sample Matrix Spike				Run: SUB-C280636				03/17/22 00:15
Aldicarb		7.2	ug/L	1.0	90	65	135			
Aldicarb sulfone		7.4	ug/L	1.0	92	65	135			
Aldicarb sulfoxide		8.1	ug/L	1.0	101	65	135			
Carbaryl		6.8	ug/L	1.0	85	65	135			
3-Hydroxycarbofuran		7.3	ug/L	1.0	92	65	135			
Carbofuran		7.7	ug/L	1.0	96	65	135			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: King Ranch Subdivision **Work Order:** H22030281 **Report Date:** 03/28/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E531.1										Batch: C_R280636
Lab ID: C22030527-001FMS	11	Sample Matrix Spike				Run: SUB-C280636				03/17/22 00:15
Methiocarb		7.3	ug/L	1.0	91	65	135			
Methomyl		7.5	ug/L	1.0	94	65	135			
Oxamyl		7.9	ug/L	1.0	99	65	135			
Baygon		7.5	ug/L	1.0	94	65	135			
Surr: BDMC				1.0	85	70	130			
Lab ID: C22030527-001FMSD	11	Sample Matrix Spike Duplicate				Run: SUB-C280636				03/17/22 00:54
Aldicarb		7.1	ug/L	1.0	89	65	135	1.0	20	
Aldicarb sulfone		6.8	ug/L	1.0	85	65	135	8.6	20	
Aldicarb sulfoxide		7.4	ug/L	1.0	92	65	135	9.0	20	
Carbaryl		6.9	ug/L	1.0	87	65	135	2.6	20	
3-Hydroxycarbofuran		6.8	ug/L	1.0	85	65	135	7.2	20	
Carbofuran		7.3	ug/L	1.0	91	65	135	5.4	20	
Methiocarb		7.2	ug/L	1.0	90	65	135	1.3	20	
Methomyl		7.2	ug/L	1.0	90	65	135	3.9	20	
Oxamyl		7.3	ug/L	1.0	91	65	135	8.6	20	
Baygon		7.2	ug/L	1.0	89	65	135	5.1	20	
Surr: BDMC				1.0	86	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: King Ranch Subdivision **Work Order:** H22030281 **Report Date:** 03/28/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: **E547**										Analytical Run: C_R280637
Lab ID: **ICV**		Initial Calibration Verification Standard								03/17/22 13:11
Glyphosate		29	ug/L	5.0	114	80	120			
Lab ID: **CCV**		Continuing Calibration Verification Standard								03/17/22 13:29
Glyphosate		23	ug/L	5.0	117	80	120			
Method: **E547**										Batch: C_R280637
Lab ID: **MBLK**		Method Blank				Run: SUB-C280637				03/17/22 13:46
Glyphosate		ND	ug/L	5.0						
Lab ID: **C22030502-002GMS**		Sample Matrix Spike				Run: SUB-C280637				03/17/22 14:22
Glyphosate		28	ug/L	5.0	113	70	130			
Lab ID: **C22030502-002GMSD**		Sample Matrix Spike Duplicate				Run: SUB-C280637				03/17/22 14:39
Glyphosate		28	ug/L	5.0	114	70	130	0.6	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: King Ranch Subdivision **Work Order:** H22030281 **Report Date:** 03/28/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E548.1										Analytical Run: B_164511
Lab ID: CCV-4-164511	2	Continuing Calibration Verification Standard								03/17/22 00:01
Endothall		25.1	ug/L	2.0	100	70	130			
Surr: 2,4-Dichlorophenylacetic acid				10	115	70	130			
Method: E548.1										Batch: B_164511
Lab ID: MB-164511	2	Method Blank				Run: SUB-B376288				03/17/22 00:41
Endothall		ND	ug/L	2.0						
Surr: 2,4-Dichlorophenylacetic acid				10	107	70	130			
Lab ID: LCS-164511	2	Laboratory Control Sample				Run: SUB-B376288				03/17/22 01:01
Endothall		10.1	ug/L	2.0	101	70	130			
Surr: 2,4-Dichlorophenylacetic acid				10	122	70	130			
Lab ID: B22030893-001UMS	2	Sample Matrix Spike				Run: SUB-B376288				03/17/22 01:21
Endothall		101	ug/L	8.0	101	70	130			
Surr: 2,4-Dichlorophenylacetic acid				100	123	70	130			
Lab ID: B22030893-001UMSD	2	Sample Matrix Spike Duplicate				Run: SUB-B376288				03/17/22 01:41
Endothall		95.9	ug/L	8.0	96	70	130	5.1	30	
Surr: 2,4-Dichlorophenylacetic acid				100	123	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: King Ranch Subdivision **Work Order:** H22030281 **Report Date:** 03/28/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: **E549.2**										Batch: C_66190
Lab ID: **MB-66190**		Method Blank				Run: SUB-C280784				03/22/22 14:15
Diquat		ND	ug/L	0.40						
Lab ID: **LCS-66190**		Laboratory Control Sample				Run: SUB-C280784				03/22/22 14:21
Diquat		4.63	ug/L	0.40	93	70	130			
Lab ID: **LCSD-66190**		Laboratory Control Sample Duplicate				Run: SUB-C280784				03/22/22 14:28
Diquat		4.68	ug/L	0.40	94	70	130	0.9	30	
Lab ID: **C22030502-001DMS**		Sample Matrix Spike				Run: SUB-C280784				03/22/22 14:41
Diquat		4.75	ug/L	0.40	95	70	130			
Lab ID: **C22030589-003UMS**		Sample Matrix Spike				Run: SUB-C280784				03/22/22 16:08
Diquat		4.91	ug/L	0.40	98	70	130			
Method: **E549.2**										Analytical Run: C_R280784
Lab ID: **ICV**		Initial Calibration Verification Standard								03/22/22 14:01
Diquat		144	ug/L	0.40	96	80	120			
Lab ID: **CCV**		Continuing Calibration Verification Standard								03/22/22 14:08
Diquat		95.8	ug/L	0.40	96	80	120			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: King Ranch Subdivision **Work Order:** H22030281 **Report Date:** 03/28/22

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: Kelada-01									Analytical Run: SUB-B376086	
Lab ID: ICV		Initial Calibration Verification Standard							03/14/22 13:04	
Cyanide, Total		0.0975	mg/L	0.0050	97	90	110			
Method: Kelada-01									Batch: B_R376086	
Lab ID: ICB		Method Blank				Run: SUB-B376086			03/14/22 13:05	
Cyanide, Total		ND	mg/L	0.002						
Lab ID: LFB		Laboratory Fortified Blank				Run: SUB-B376086			03/14/22 13:07	
Cyanide, Total		0.0955	mg/L	0.0050	96	90	110			
Lab ID: LCS1-K4Fe(CN)6		Laboratory Control Sample				Run: SUB-B376086			03/14/22 13:09	
Cyanide, Total		0.187	mg/L	0.0050	93	90	110			
Lab ID: H22030281-001L		Sample Matrix Spike				Run: SUB-B376086			03/14/22 13:27	
Cyanide, Total		0.0957	mg/L	0.0050	96	90	110			
Lab ID: H22030281-001L		Sample Matrix Spike Duplicate				Run: SUB-B376086			03/14/22 13:29	
Cyanide, Total		0.0973	mg/L	0.0050	97	90	110	1.7	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

Work Order Receipt Checklist

King Ranch Subdivision

H22030281

Login completed by:	Rebecca A. Tooke	Date Received:	3/11/2022
Reviewed by:	BL2000\acarlson	Received by:	RMF
Reviewed Date:	3/28/2022	Carrier name:	Return-FedEx Ground

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:	3.9°C On Ice		
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").	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.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

Contact and Corrective Action Comments:

Method 525 bottles were preserved in laboratory to <2 with 4 ml of HCl. 3/11/22 rt No raw bottle for Fluoride was received. Contacted client and he will send sample at later date. 3/11/22 rt

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Chain of Custody & Analytical Request Record

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Page 1 of 1

Account Information (Billing information)

Company/Name	King Ranch Subdivsion
Contact	Craig Milam
Phone	(406) 240-9345
Mailing Address	17771 Wild Goose
City, State, Zip	Frenchtown, MT. 59834
Email	figmtn@yahoo.com
Receive Invoice	☒Hard Copy ☒Email
Receive Report	☒Hard Copy ☒Email
Purchase Order	03102022
Quote	
Bottle Order	39894 &39895

Report Information (if different than Account Information)

Company/Name	Blue Heron Water Testing LLC
Contact	Charles Weihe
Phone	(406) 552-7175
Mailing Address	2408 57th St.
City State Zip	Missoula, MT. 59803
Email	blueheronwatertesting@hotmail.com
Receive Report	☐Hard Copy ☒Email

Special Report/Formats
☐ LEVEL IV ☐ NELAC ☐ EDD/EDT (contact laboratory) ☐ Other

Comments

Project Information

Project Name, PWSID, Permit, etc.	King Ranch Subdivision 4158
Sampler Name	Charles Weihe
Sampler Phone	(406) 552-7175
Sample Origin State	Montana
EPA/State Compliance	☒ Yes ☐ No

MINING CLIENTS, please indicate sample type
*If ore has been processed or refined, call before sending.
☐ Byproduct 11 (e)2 material ☐ Unprocessed ore (NOT ground or refined)*

Matrix Codes
A - Air
W - Water
S - Soils/Solids
V - Vegetation
B - Bioassay
O - Other
DW - Drinking Water

All turnaround times are standard unless marked as RUSH
Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling – See Instructions Page

	Sample Identification (Name, Location, Interval, etc.)	Collection Date	Collection Time	Number of Containers	Matrix (See Codes Above)	See Attached	RUSH TAT	ELI LAB ID (Laboratory Use Only)
1	CH001 EP502	3/10/22	11:00 pm	19	DW	●		H220302 81
2								
3								
4								
5								
6								
7								
8								
9								
10								

Analysis Requested

Custody Record MUST be signed	Relinquished by (print)	Date/Time	Signature	Received by (print)	Date/Time	Signature
	Charles Weihe	3-10-22 1600	Charles Weihe			
	Relinquished by (print)	Date/Time	Signature	Received by Laboratory (print)	Date/Time	Signature
				Rhiaja Rossedal	3/11/22 802	

LABORATORY USE ONLY

Shipped By	Cooler ID(s)	Custody Seals	Intact	Receipt Temp	Temp Blank	On Ice	Payment Type	Amount	Receipt Number (cash/check only)
FedEx Gr	1	Y N (C) B	(Y) N	3.9 °C	Y (N)	(Y) N	CC Cash Check	$	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.

ENERGY LABORATORIES
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BOTTLE ORDER 39894

(39894(

SHIPPED TO: **Blue Heron Subdivision**

Contact: Charles Weihe
2408 57th St
Missoula MT 59803-3018
Phone: (406) 552-7175
Project: Phase 2/5 and State Wide Waiver

Order Created by: Wanda Johnson
Shipped From: Helena, MT
Ship Date: 2/22/2022
VIA: Ground

Bottle Size/Type	Bottles Per Samp	Method	Tests	Critical Hold Time	Preservative	Notes	Num of Samp
Phase 2/5 Complete							
250 mL Plastic	1	E200.7_8	Metals by ICP/ICPMS, Drinking Water		☐ HNO3		1
250 mL Plastic	1	E353.2	Nitrogen, Nitrate + Nitrite		☐ H2SO4		1
250 mL Plastic	1	A4500-F C	Fluoride				1
40 mL Clear Glass VOA	3	E524.2	524-Purgeable Organics, SDWA		☒ HCL	Zero headspace	1
40 mL Clear Glass VOA	2	E531 1	531-Pesticides, Carbamates SDWA		MCA	Do Not Rinse - Container is pre-preserved	1
250 mL Amber Glass	1	E515.4	515.4-Herbicides, Chlorinated SDWA		NASO3	Do Not Rinse - Container is pre-preserved.	1
1 Liter Amber Glass Narrow Mouth	2	E525.2	525-Semi-Volatile Organic Compounds, SDWA		NASO3 ☒ HCL	Do Not Rinse - Container is pre-preserved.	1
MT PWS Waiver Sampling 2020-2023							
1 Liter Plastic	1	E549.2	549-Pesticides, Diquat SDWA		NATHIO	Do Not Rinse - Container is pre-preserved.	1
40 mL Clear Glass VOA, NATHIO	2	E547	547-Herbicides, Glyphosate SDWA		NATHIO	Do Not Rinse - Container is pre-preserved. Zero headspace	1
1 Liter Narrow Mouth Amber Glass	1	E548.1	548-Endothall		NATHIO	Do Not Rinse - Container is pre-preserved.	1

40 mL Clear Glass VOA, NATHIO	2	E504.1	504-Microextraction VOCs, EDB and DBCP SDWA		NATHIO	Do Not Rinse - Container is pre-preserved. Zero headspace	1
500 mL Amber Plastic	1	Kelada-01	Cyanide, SDWA		☒ NaOH		1

Trip Blank							
40 mL Clear Glass VOA	1	E524 2	524-Purgeable Organics, SDWA		☒ HCL	Zero headspace	1

Comments

Quote 15067

☐ HNO3 - Nitric Acid ☐ H2SO4 - Sulfuric Acid ☒ NaOH - Sodium Hydroxide

■ ZnAc - Zinc Acetate ☒ HCl - Hydrochloric Acid ☐ H3PO4 - Phosphoric Acid

We strongly suggest that the samples are shipped the same day as they are collected.

Material Safety Data Sheets(MSDS) Available @ EnergyLab.com ->Services -> MSDS Sheets

Corrosive Chemicals: Nitric, Sulfuric, Phosphoric, Hydrochloric Acids and Sodium Hydroxide. Zinc Acetate is a skin irritant.

Subcontracting of sample analyses to an outside laboratory may be required. If so, Energy Laboratories will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.